1	FEDERAL TRADE COMMISSION
2	THE EVOLVING IP MARKETPLACE
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5	
6	Friday, April 17, 2009
7	
8	9:30 a.m.
9	
10	Federal Trade Commission
11	FTC Conference Center
12	601 New Jersey Avenue, N.W.
13	Washington, D.C.
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1
                       PROCEEDINGS
 2
                           Good morning. My name is Erika
 3
              MS. MEYERS:
 4
      Meyers. I'm an attorney with the Federal Trade
 5
      Commission's Office of Policy and Coordination, and I
      would like to welcome you to the April installment of
 6
 7
      the FTC's Hearings on the Evolving IP Marketplace. I
      want to say hello to everyone watching the web-
 8
 9
      cast.
10
              Before we dive into today's subject matter, I
      want to remind everyone that we welcome public comments.
11
12
      You can submit those comments through our web site until
13
      May 15th. We will also be holding our last round of
      hearings in Berkeley, California, on May 4th and 5th.
14
15
      Unfortunately, those hearings will not be web-cast, but
16
      the transcripts will be available on our web site six to
17
      eight weeks (we hope) after the hearings.
18
              Let me make the requisite security
19
      announcements. Since you've made it into the conference
20
      center, you figured out the metal detector, so I will
21
      skip that except to say that every time you leave the
22
      building, you will have to go through them again.
23
              In the unlikely event that there is an
24
      emergency, we'll be told whether to stay or leave the
      building. If we're asked to leave, our rallying point
25
```

```
is across the street at Georgetown Law School. We will
```

- 2 have your name on a list so please meet us over there to
- 3 check your name off so any emergency personnel will know
- 4 that you've gotten out of the building safely and won't
- 5 have to come running back in to look for you.
- Also if you spot any suspicious activities,
- 7 please let one of the FTC staff or one of the security
- 8 people that you met coming through the metal detectors
- 9 know.
- 10 With that done, let's get to today's topic. One
- of the most significant changes to the patent frontier
- over the last five years has been the development of new
- markets for patents. Today we will explore the
- development of these markets and how patents are bought,
- 15 sold and licensed. I can think of no better way to
- start, off us on that topic than to introduce Jim
- 17 Malackowski of Ocean Tomo.
- 18 Mr. Malackowski has been a visionary in this
- 19 area, and has played a large role in shaping new
- 20 markets. He is President and Chief Executive Officer of
- Ocean Tomo, LLC, an integrated, intellectual capital
- 22 merchant bank firm providing financial products and
- 23 services related to intellectual property, expert
- testimony, valuation investments, risk management and
- 25 transactions.

```
Mr. Malackowski is a member of the IP Hall of
 1
 2
      Fame Academy and was recognized in 2007 by Managing
 3
      Intellectual Property Magazine as one of the 50 most
 4
      influential property in intellectual property.
 5
              In 2008 he was again named as one of the top 50
      IP professionals under the age of 45 in IP Law and
 6
 7
      Business as well as one of the world's 250 leading IP
      strategists by IAM Magazine.
 8
 9
              Prior to forming Ocean Tomo, he served as a
      finance and investment advisor working with one of the
10
      nation's oldest investment banks as well as one of
11
12
      Chicago's largest private equity firms. Mr. Malackowski
      began his career spending 15 years as a management
13
      consultant and forensic accountant focused on intangible
14
15
      assets.
16
              In this capacity, Mr. Malackowski served
17
      numerous roles as a founding principal, including
      president and chief executive officer of his firm,
18
19
      growing the practice to the nation's largest before its
20
      sale.
              On more than 30 occasions, Mr. Malackowski has
21
22
      served as an expert in federal court or the
23
      International Trade Commission on questions relating to
24
      intellectual property economics, including the subject
      of business valuation and the impact of advertising
25
```

```
1 programs.
```

- 2 As an inventor, Mr. Malackowski has ten issued
- 3 U.S. patents and an even larger number of pending
- 4 applications. He is an Adjunct Professor of Law at
- 5 Chicago Kent College of Law as well as an Adjunct
- 6 Instructor at the University of Notre Dame Mendoza
- 7 College of Business where he was a *summa cum laude*
- 8 graduate majoring in accounting and philosophy.
- 9 I could go on listing his accomplishments and
- 10 experience for a lot longer, but I suspect you would
- 11 much rather listen to him, so I will turn it over to
- 12 Jim.
- MR. MALACKOWSKI: Thank you, Erika, and thank
- 14 you to the Commission for inviting me to share my
- 15 views today. For those of you on the web cast, there is
- 16 a rather extensive presentation that's been posted that
- would literally take the balance of the day to discuss
- 18 in detail, but in the next 30 minutes, I'm going to give
- 19 a brief introduction to our view of the developing
- 20 marketplace, and I'm going to try to hit on just five
- 21 specific market developments that we think to be of most
- 22 significance.
- Focusing on slide 3 of the deck, it's an
- 24 analysis that many in the room, some of who are dear
- friends, have seen before which is looking at one

```
1 example of the public equity markets. This is the S&P
```

- 2 500, but I think it is always important to put in
- 3 historical context the great progress that we've already
- 4 made in IP marketplaces.
- 5 So put yourself back in 1975 as the CEO of a
- 6 public company, and let's suppose your company was worth
- 7 \$10 billion in the marketplace. You would find on your
- 8 balance sheet \$8.3 billion worth of stuff, property,
- 9 plant, equipment and cash, and I think we've forgotten
- 10 how generally small the premium the market gave you to
- 11 those tangible assets. The way you had a higher market
- value was to simply work the machines harder, move the
- 13 factory quicker.
- 14 Fast forward today, even after the market
- 15 correction of 2008, and if you're the CEO of that same
- \$10 billion company, your balance sheet only shows \$2.5
- 17 billion of tangible assets. Yet the market is giving
- 18 you a very large premium based largely upon your
- intellectual property, the quality of your brand, the
- 20 quality of your technology, your customer relationships,
- 21 et cetera.
- 22 So Ocean Tomo's business and our focus has been
- 23 understanding the components of that intangible asset
- 24 bar, helping to bring greater transparency, greater data
- and greater information.

```
If you advance to slide 5 of the deck, this is
 1
 2
      an analysis that we just recently completed and I can
      discuss, perhaps in the question and answer session in
 3
 4
     more detail on how it was determined, but briefly it was
 5
      based upon results that we have from equity indexes that
      are grounded in patents, but our conclusion as of today
 6
 7
      is that roughly 22.5 percent of the market cap of most
      large cap companies, in this case as represented by the
 8
      S&P, is reflective of intangible asset values
 9
      specifically attributed to patents, so the marketplace
10
      for intellectual property and for patents is a very
11
12
      large opportunity as represented by that value.
13
              With those introductory remarks, I would like to
      focus on five elements of what we call the developing IP
14
15
      infrastructure, and it's really five specific points to
      a larger agenda, which on slide 7, describes valuation
16
17
      standard, new efforts to track inventory, new policy
      leadership from the Obama administration, the evolution
18
19
      of standard contracts, but then primary markets,
20
      derivative markets and related reporting.
21
              Topic one that I would like to focus on is
22
      valuation standards. When I started in this business in
      the mid 1980s, I think my first client opportunity was
23
24
      to appraise a patent for sale, not for litigation, and
25
      as a young analyst, I ran down the hall to the senior
```

```
1
      partner's office and explained that we were going to do
 2
      an appraisal of a patent for sale, and I was told no. I
 3
      was told, we cannot sign the firm's name to an opinion
 4
      letter because it was not covered by GAAP. It was not
 5
      covered by FASB. It was not covered by their insurance.
              Although I protested, I was told to call the Big
 6
 7
      8 accounting firms (when we had eight such things), and
      they basically all told me the same result. They would
 8
      be happy to advise my client on value, but they were not
 9
      going to sign Pricewaterhouse, Arthur Andersen, et
10
      cetera, to the bottom of an opinion letter of patent
11
12
      value.
13
              We've changed a lot. If you look on the screen
14
      on chart 9, the standards have evolved significantly so
15
      that today it's a common occurrence to walk into any
      number of accounting firms, economic firms or otherwise,
16
17
      and they will provide you that insight into the
18
     marketplace.
19
              I think what's most important though from our
20
      perspective is the ability to extend the valuation
21
      analysis to a larger, more objective study. The analogy
22
      that I use for this is credit ratings. Everyone in this
23
      room, perhaps, has a home mortgage, and, perhaps, your home
24
     mortgage is let's say a hundred thousand dollars, but
```

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how can anyone invest in your mortgage because it's so

25

```
1
      different?
 2
              Your house value to mortgage value is different
 3
      than mine. Your income to your mortgage payment is
 4
      different than mine. Your ability to pay that mortgage
 5
      and your credit history is different than mine, but with
      the credit score, things come into greater focus and
 6
 7
      that if your credit score is a 800 and mine is a 720,
      knowing just that one data point, intelligent decisions
 8
 9
      can be made about the risk associated with that loan.
10
              The same is true for intellectual property, and
      not only Ocean Tomo, but a number of firms have begun to
11
12
      develop rating systems based on their own algorithms
      and/or, in our case, simply observing what the marketplace
13
      is telling us.
14
15
              On slide 10 is the output of such a form, and
16
      it's really driven off of slide 11, which is an
17
      observance of the patent maintenance market, and of all
18
      the things that I'm going to speak to you about today, I
19
      think this is probably the most important.
20
              Over the last hundred years, certain the last 25
21
      years as reflected on this chart, there has been an
22
      active but under appreciated market for intellectual
      property, and that market is, in fact, the Patent Office
23
24
      itself, and the actions of patent owners as to whether
```

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or not to maintain or abandon their patents.

25

```
For those of you who know, in order to get a
 1
 2
      patent with the U.S. government, not only do you pay a
 3
      fee once, but you pay a fee approximately every four
 4
      years, and those fees increase, and if you look at the
 5
      collective body of work, less than half of all patents
      are maintained for their full term.
 6
 7
              In other words, those owners have decided it is
      not worth the expense to keep them, and so one of the
 8
      things that we try to do is we have tried to observe
 9
      what information can be gleaned from that market.
10
      other words, imagine an experiment where we put on the
11
12
      left side of the room all of the patents that have been
      maintained over the last quarter century so we have
13
14
      literally millions of observations, and we put on the
15
      right side of the room all the patents that were
16
      abandoned.
17
              Which pile do you think is more valuable?
18
      would suggest the ones that people kept, and it turns
19
      out if you identify all the objective metrics like area
20
      of technology, number of claims, the lawyer, the
21
      examiner, and you run the statistical models comparing
22
      those two data sets, they are in fact very different.
23
              In general, patents that people maintain are
      different than patents that people throw away based upon
24
25
      those criteria. The question is: Is it meaningful and
```

```
does it matter? I'm not going to go into all of the
anecdotal studies that we've undertaken to address that
```

- 3 issue, but I'm going to refer to two. The first is on
- 4 page 13.
- 5 We looked at the one thousand largest publicly
- 6 traded companies, and we compared their gross profit as
- 7 one indicator of the value of patents, believing that
- 8 patents can provide features that you can charge more
- 9 for. Patents can provide manufacturing techniques that
- 10 allow you to lower your costs or patents can protect
- 11 markets that give you economies of sales.
- 12 From the accountant in me, those three benefits
- all drive gross profitability or gross margin, so we
- 14 undertook a study to determine whether or not companies
- 15 with higher quality patents as determined from the
- statistics had higher gross profits, and as the study
- 17 suggests in chart 13, there was an 86 percent
- 18 correlation.
- 19 So for the first observation what we learned is
- that generally speaking companies with more, better
- 21 patents perform better. The issue though was chicken or
- 22 egg. Was it company's with high margins went out and
- 23 hired great lawyers and got great patents or was it the
- 24 great patents that got them the higher margins? For
- 25 that we went to Wall Street and we hired a firm, Ned

```
1 Davis Research, and provided them 15 years of observed
```

- 2 data from the patent maintenance marketplace.
- We asked them to create a wide portfolio of
- 4 stocks, which we called the Ocean Tomo 300, and to
- 5 purchase stocks on a quarterly basis knowing only the
- 6 financial information at the time and the patent's
- 7 statistical scoring. When they created that index, as
- 8 shown on slide 14, it out-performed the market generally
- 9 essentially for 15 years consistently, in 82 out of 85
- 10 reporting periods.
- 11 Not only did it out-perform from a return basis
- by 200 to 800 basis points, it did so at a preferred
- 13 Sharpe ratio, meaning it was less volatile less risk.
- 14 So, if you go to the Mendoza College of Business at Notre
- 15 Dame and you ask the finance professor, "Can I take a one
- 16 factor model based upon patents and outperform the
- market consistent for 15 years at a lower risk
- 18 portfolio?" The answer would be no, such things are not
- 19 possible, the market is efficient.
- We know it is possible because the marketplace,
- 21 heretofore, hadn't understood the value that patents
- 22 bring because they didn't have the information or the
- 23 data. By allowing them to look at these rating
- 24 systems, by allowing them to look at the performance of
- equities in the market, they're beginning to understand.

```
1
              I would like to look to a second marketplace,
 2
      and I'm going to jump forward to primary markets on
 3
      slide 30, which is the Ocean Tomo marketplace. In 2005,
 4
      one of my partners sat with me, and we discussed ways to
 5
      increase the efficiency of selling intellectual
      property, and he held up a catalog very similar to the
 6
 7
      one I'm holding here, but it was for a car auction.
              He said to me, "Why don't we sell intellectual
 8
 9
      property at public auction like Sotheby's sells
      paintings or Gooding sells automobiles?" Frankly, we all
10
      sort of laughed at the suggestion because clearly it
11
12
      could not be possible to do sufficient diligence on
      unique patents in a very short time period and then
13
      raise your hand in a public forum and acquire them, but
14
15
      he protested, and we continued and eventually did launch
      the first patent auction in April of 2006.
16
17
              At that event, there were more than 400 in
18
                   The auction lasted two and a half hours,
      attendance.
19
      and all 400, including a number of former patent
20
      commissioners and chief intellectual property officers,
21
      sat in neat rows of chairs and didn't move, but they
22
      took a lot of notes. What we found significant about
23
      that first event was not the sales, but the price
24
      discovery, because that was really the first time ever
25
      in an open forum you could understand what someone
```

```
1 else's intellectual property was worth.
```

- 2 Since then we have conducted nine auctions as
- 3 shown in slide 31, which had generally increasing
- 4 results both in total volume and average pricing. We
- 5 finished our last auction a few weeks ago in San
- 6 Francisco, and the volume was down, we think largely due
- 7 to the economy, but the average pricing was in fact
- 8 maintained.
- 9 So, what we now view as the auction marketplace
- 10 represents episodic price discovery that occurs three
- 11 times a year, which is helpful. It's insightful, but
- 12 it's insufficient, and so market number 3 extends the
- auction results to a larger platform which we call
- 14 Patent/Bid-Ask, so if you go to the Internet, this is
- shown on slide 32, to Patent/Bid-Ask.com, what you'll
- 16 find there is every patent listed in the world, 33
- million of them, and if they've been sold and that data
- 18 has been publicly reported, you will see the price at
- 19 which that patent transacted.
- If the owner of that patent wishes to sell it
- 21 and is willing to post publicly at ask, you will see the
- 22 ask. If someone wishes to buy the patent anonymously,
- 23 you will see the bid. So in many with respects this
- 24 mechanism is creating further discovery, not only by
- industry but by geography.

```
1
              When we launched this platform last summer, what
 2
      surprised me the most was the phone rang, but it's where
      the calls were coming from. We received calls from
 3
 4
      Poland, from South America, from Asia, and essentially
 5
      the calls went as follows: We, in Poland, believe that
      Polish companies would like to buy and sell Polish
 6
 7
      patents between themselves, but there's no way to do
 8
             There's no mechanism.
                                    There's no marketplace.
      that.
 9
              Can Patent/Bid-Ask provide that forum? Can we
      translate the standard documents that you use for a
10
      transaction into Polish and begin to facilitate that
11
12
      market? To which we said ves.
              So the experiment that is taking place now is to
13
      watch as that market develops over the next two to five
14
      years. Will it be Brazil? Will it be Taiwan?
15
      be biotechnology? Will it be computer technology?
16
17
      discovery again will be, I think, interesting and
18
      informative for all who participate.
19
              Market number 4, the intellectual property
20
      exchange international, referring first to slide 33.
21
      Three years ago the State of Illinois came to us with a
22
      request to give thought to a traded exchange for
23
      intellectual property. Chicago has a long history in
24
      exchanges, most recently debt climate exchange, and
25
      basically the request was if we can in fact trade carbon
```

```
1
      credits on an exchange, why can't we do the same for
 2
      intellectual property?
 3
              So they provided us a grant, and we set out
 4
      about a two year study trying to develop markets and
 5
      models that would allow us to facilitate a more robust
      transparent and otherwise efficient exchange of
 6
 7
      intellectual property, and I'm going to refer briefly
      today to two such products.
 8
 9
              The first one is shown in slide 33. It is
      called a unit license right, so let's talk about how the
10
      transfer of technology from licensing is historically
11
12
      done, and most in this room are either patent attorneys
      or in-house counsel, so you'll be familiar with my
13
14
      example.
15
              If a client were to call me and ask me to help
      them license their technology, and let's pick the
16
17
      automotive industry because it's one of my favorites, so
18
      a big three company in Detroit would like to license one
      of its patents to a Japanese manufacturer.
19
20
              We know how that process works. You will spend
21
      some time trying to contact and arrange a meeting with
```

meeting, the focus of that meeting is not on the benefits of the technology, but the licensee's opinion 25

22

23

24

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the potential licensee. That, sometime, may take one,

two or six months. By the time you finally arrange that

as to why the patent is invalid and why it's not

1

13

14

15

25

```
2
      necessary.
 3
              That process takes another one, two,
 4
      three or six months, and once you finally convince that
 5
      potential licensee that, yes, there is indeed value in
      that asset you start phase 3, which is their rolling
 6
 7
      out of their own patent portfolio trying to explain how
      their assets could be a benefit to the licensors and why
 8
      don't we just end up in a cross license?
 9
              So most tech transfer today, in our view, is in
10
      fact done that way, either on an individual cross
11
12
      license or a large portfolio cross license. That is not
```

a transaction that brings transparency. That is not a

that are indeed the most valuable.

transaction that really attributes value to those assets

16 So, we believe that tomorrow the process will 17 look differently. Tomorrow, you will receive a call to 18 license intellectual property, and it will be very much 19 like offering a secondary share of stock, so in my 20 example on the screen, we're looking at the '137 patent 21 where Ocean Tomo or other firms in this room would serve 22 as an underwriter to study the technology, describe the 23 market opportunity and then structure and offer to the 24 market that is probably some subset of expected demand.

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So if we believe in my example that the '137

```
1 patent could be used on ten million cars and trucks, we
```

- 2 may go to the market with a subset of 5 million, and
- 3 we'll go to that market at escalating pricing, so the
- 4 first million will be at 50 cents a car. The second
- 5 million will be at 75 cents a car, and the last three
- 6 million will be at a dollar.
- 7 The auto company would then exclusively license
- 8 this patent to the exchange, authorizing the exchange to
- 9 issue the 5 million sub unit license rights at those
- 10 prices.
- Now, why does that make any difference? Well,
- 12 first if there is a willing licensee, the process is now
- 13 very simple. They call their broker. They say buy me
- 14 200,000 U 137 As, bid 51 cents. That order is filled on
- 15 the open market, and they're able to place those assets
- on their books as assets, not an expense. As they
- 17 consume them, they expense them. If they don't use them
- 18 all, they can sell them back.
- More specifically though, this allows for
- 20 third-party investors to enter the marketplace. It is
- 21 our opinion that you cannot create an efficient market
- for intellectual property or frankly any asset simply
- 23 limited by those who create the asset, IP, and those who
- consume it, users. You have to have liquidity.
- So in our example, an investment fund could look

1

at the prospectus and say, Wow, the opportunity is here,

```
2
      is far greater than we anticipate, we're going to buy
      units at 50 cents to resell them at 75, or in fact we
 3
 4
      think the opportunity is overstated, we'll short them
 5
      the 50 cents and cover at a dime. That liquidity into
      the marketplace allows for greater activity and sale by
 6
 7
      the original issuer, in this case, the automotive
 8
      company.
 9
              The second big difference is that the exchange
      will have the enforcement rights. If we have a party
10
      after this conference today and our DJ plays Michael
11
12
      Jackson and that DJ did not pay ASCAP, there is in fact
      an enforcement committee that will track him down and
13
      collect the 50 cents or $5. The IP traded exchange will
14
15
      operate the same way, so if the enforcement committee
16
      believes that a European auto manufacturer has not
17
      acquired units on the open market but is in fact using
18
      the technology, they will contact the European
      manufacturer and politely encourage them to buy.
19
20
              If that's unsuccessful, they will have the right
      to sue that manufacturer, and once they sue that
21
22
      manufacturer, they're not interested in a cash
23
      settlement. All the exchange is interested in is having
24
      that manufacturer go to market and acquire units at the
25
      marketplace. Ultimately that case could go to trial.
```

```
1 If they're successful, there will be a damage award
```

- which will be used to acquire units. If they're
- 3 unsuccessful, the patent will be shown to be invalid and
- 4 not infringed, and the price in the market will reflect
- 5 it accordingly.
- 6 IPXI set out about four months ago to identify
- 7 potential interested issuers for unit license rights
- 8 with the objective of finding a beta transaction to
- 9 launch later this year. They visited 20 different
- 10 companies and universities, and 18 were interested.
- 11 Some were so interested they actually bought seats on
- 12 the exchange.
- 13 It's now their expectation that they will bring
- 14 the first unit license right to market in the third or
- 15 fourth quarter so this is no longer simply theory. This
- is evolving quickly into practice, and it's our belief
- 17 that starting in 2010 there will be an active market, at
- 18 least a primary market for unit license rights.
- 19 Slide 36, I would like to talk now not about
- 20 primary markets for actually buying, selling or
- 21 licensing technology, but speak to derivative markets.
- 22 So one of the indexes that's received a lot of
- 23 discussion because of our economic conditions in the
- 24 housing market is the Case Shiller housing index. If
- you're not familiar with the Case Shiller index, it is an

```
1 index that tracks the price of residential homes in
```

- 2 various markets around the country and presents that in
- 3 aggregate view.
- Based upon that index, investors can either buy
- 5 the index long or sell the index short and give them
- 6 investment opportunity or hedging opportunity to real
- 7 estate. When you buy the Case Shiller index, you don't
- 8 actually own a piece of anybody's house. You simply own
- 9 the financial future contract right.
- 10 We believe through IPXI the same will develop
- for patent indexes, so let's look at the illustration on
- 12 slide 36, and we can continue with the automotive
- industry. The blue line represents a company's patent
- 14 portfolio, so imagine if we took the statistical scores
- of one of the big three auto manufacturers, and we
- totaled them and plotted them weekly over a period of
- 17 time.
- 18 The blue line is what you would expect. It
- 19 would be relatively stable, slightly increasing. The
- 20 brown line on the chart represents a product, so perhaps
- 21 this is not the big three manufacturer's total
- 22 portfolio. Perhaps it's their hybrid electric patent
- 23 portfolio. It is what you would expect, a subset of the
- 24 blue line, more recent, rapidly growing.
- The black line represents a category, so this

```
1 represents the statistical patent scores or ratings for
```

- 2 hybrid electric technology across all manufacturers, the
- 3 big three, the Asian, the European, all aggregated
- 4 together. Well, this data is relatively transparent
- 5 because people can understand how it was calculated.
- 6 It's relatively consistent and the question is: Is it
- 7 useful?
- 8 So, go back to the Case Shiller index. What the
- 9 purpose of these patent indexes will be, as they're
- 10 called tradable technology baskets, is to exactly write
- 11 financial futures contracts against them. So now for
- 12 the first time investors can decide, "Do I want to own
- the stock of the big three company or would I rather buy
- 14 the financial future contract related to the
- 15 intellectual property alone?"
- They can do that for speculative reasons. They
- believe that the company's got strong technology. They
- 18 could also do it by category. If your personal opinion
- is that hybrid electrics are the future and you call
- your broker and say, "Put my money into hybrids." Well
- 21 what does she do? She buys you shares of Ford and
- 22 shares of Honda and shares of Toyota, but that's not
- 23 what you want. That has labor risk, manufacturing risk.
- You just want to invest in hybrids. This technique will
- 25 now allow you to do that.

```
1
              More importantly it will also be used for
 2
      hedging. Suppose you liked Toshiba as an equity, but
      you knew that Blu-Ray would win and HDVD would fail, so
 3
 4
      you hedged your Toshiba equity investment by buying a
 5
      Sony Blu-Ray patent contract.
              When I go to intellectual property conferences
 6
 7
      and I talk about tradable technology baskets, I get a
      lot of inquisitive looks to say the a least. When I go
 8
 9
      to the Chicago Mercantile Exchange, it doesn't take me
      this long in a conversation because in about three
10
      minutes, they totally understand it and they want to
11
12
      know when it's going to start trading, and the reason is
13
      back to that first bar.
              There is an appreciation that intellectual
14
15
      property and patents represent a significant portion of
      corporate value, but there is no way for investors today
16
17
      to access or to break it out or to otherwise trade it.
      We believe that IPXI will be effective trading.
18
19
              I'm going to finish up in the time allowed to
20
      talk about one aspect of unification. The efforts that
      I've described about valuation standards, patent
21
22
      auctions, ratings systems is in fact largely related to
23
      the activities that Ocean Tomo has been working on in
24
      the U.S., but as shown on slide 43, this activity is
      occurring not just by Ocean Tomo, and it's not limited
25
```

- 1 to the U.S.
- 2 In Japan there is a rating of business.
- 3 Intellectual Property Bank of Japan has their own rating
- 4 service. There are rating services being developed in
- 5 Europe. There's been a separate auction held in Europe,
- 6 and in our opinion the evolving IP marketplace is
- 7 building these modules or building blocks in the U.S.
- 8 and Europe and Asia in the objective of eventually
- 9 linking them together.
- 10 I'll leave you with one last thought example as
- 11 to the power of these developing markets. Let's pretend
- we're not talking to the CEO of the public company, but
- we're at a trade convention in the telecomm world, and
- 14 each of you represent an individual company, be it
- 15 Motorola, Panasonic, Philips, you pick your favorite,
- and you brought with today your stack of patents, your
- 17 European patents, your American patents, your Asian
- 18 patent, some stacks are small, a couple thousand; some
- 19 stacks are large, tens of thousands.
- Which stack is best? If you had unlimited
- 21 resources and a lot of time, could you figure out which
- 22 stack is best? I would suggest probably not, and if you
- 23 came back with an answer, certainly not many are going
- 24 to agree with you, but let's suppose that the
- 25 marketplace evolves in the way that we believe that it

```
1 will, that a rating system which exists in the U.S.
```

- 2 today is recreated in Europe and recreated in Asia, and
- 3 what will tie those together are the foreign
- 4 counterparts of each of those patents.
- 5 So in the introduction it was mentioned that
- 6 I've been issued a few patents under my name, so let's
- 7 say that we take one of the Malackowski patents, and we
- 8 rate it in the U.S., using the U.S. rating system, and it
- 9 comes back a hundred. On a bell curve a hundred is
- 10 completely average.
- 11 We take the foreign counterpart of the
- 12 Malackowski patent, and we rate it in Europe, only
- among European patents, and let's say it comes back
- and it's rated 120, meaning that same technology or
- 15 invention is not average in Europe but slightly better
- 16 than average. We could rate it in Asia and perhaps it
- 17 comes back in 80 meaning it's a slightly less than
- 18 average quality among Asian patents.
- 19 Well, that one data point alone may not be too
- 20 illuminating, but that one data point would suggest that
- 21 if that was representative of every patent, that patents
- 22 in the U.S. are actually a little better than the ones
- 23 in Europe and not as good as the ones in Asia, and if
- you repeat that experiment ten thousand times, our
- belief is that you will find a meaningful currency

```
1 conversion for intellectual property.
```

- 2 So when we're back at the telecomm convention
- 3 and you all brought your stacks of two, four, five,
- 4 10,000 patents and you run through them through the
- 5 rating systems by geography, you will very quickly come
- 6 up with an equivalency. Mine is 80 percent as good as
- 7 your stack.
- Now, we still may not agree that solves the
- 9 whole problem, but like that credit score, it will give us
- 10 a place to start the negotiation. It will give us a
- 11 place to discuss balancing payments, and it's a way for
- 12 the marketplace to begin to get their arms around those
- assets.
- One of my final comment is as reflected on page
- 15 43. At the top of this chart, there's a site called
- OTI.com, and what we've done at OTI is our best effort
- 17 to aggregate all public IP market data in one place. So
- 18 for free, just a simple registration of your Email, you
- can enter a patent number, a technology or a company,
- and if you enter that data, what will come back to you
- is: Has this patent been sold? If so, at what price?
- 22 Is it for sale? If so, at what price? Is this patent
- 23 the subject of a license agreement that's kept in the
- 24 royalty source database? If so, what is the license
- 25 rate of that patent? Has this patent been rated? If

```
1
      so, what is the rating? Is this patent part of a
 2
      tradable technology basket that's currently published on
           If so, what does the index look like?
 3
 4
              So in some respects, my apologies to Bloomberg,
 5
      but I equate it to the Bloomberg for IP because it allows
      you in one place to begin to get that price discovery
 6
 7
      and transparency so that you can make better more
      informed decisions.
 8
 9
              My final thoughts: We were talking before the
      conference about the state of the market generally and
10
      all the initiatives to correct and modify and reform.
11
12
      In my view, the patent marketplace is evolving at light
      speed, but the context you have to put it in is not 12
13
     months or two years. It's the context of the last 10 to
14
15
      25 years, that first chart I showed you where industry
      went from being largely dominated by tangibles - to today
16
17
      it's largely dominated by intangibles, and 25 years
18
      in macro economic cycles is light speed.
19
              The market is evolving very quickly to present
20
      new opportunities for transfer, new opportunities for
21
      measurement, new opportunities for valuation, and
22
      although there may be a need for tweaks along the way, the
23
      system in our view is, in fact, working. The system is
24
      becoming more efficient, and intellectual property will
```

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continue to become a greater focus of management and

25

```
investors as that trend continues.
 1
              So thank you very much for your time today, and
 2
 3
      we can I'm sure go into some of these issues in more
      detail as we start the panel discussion.
 4
 5
              (Applause.)
 6
              MS. MEYERS: Thank you, Jim. We're going to
 7
      take a quick break and we'll start up again at 10:15.
 8
              (A brief recess was taken.)
 9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
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1 PANEL 1:
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- 2 MODERATORS:
- 3 SUZANNE MICHEL, FTC
- 4 ERIKA MEYERS, FTC
- 5 PANEL MEMBERS:
- 6 KEITH BERGELT, CEO, Open Inventions Network
- 7 MARCUS DELGADO, Chief IP Counsel, Cox Communications,
- 8 Inc.
- 9 STEVEN J. HOFFMAN, CEO, ThinkFire
- JAMES E. MALACKOWSKI, President & CEO, Ocean Tomo
- 11 LAURA G. QUATELA, Chief Intellectual Property Officer &
- 12 Vice President, Eastman Kodak Co.
- 13 PAUL RYAN, Chairman & CEO, Acacia Research
- 14 TRACEY R. THOMAS, Chief IP Strategist and License
- 15 Negotiator, American Express Co

16

- 17 MS. MEYERS: Let's start the round table
- discussion, exploring valuing and monetizing patents,
- 19 strategies for buying and selling patents and the role
- of secondary markets for intellectual property and how
- 21 those markets effect corporate decision-making.
- 22 Although all our panelists have a great deal of
- 23 experience, in the interest of time, I will just give our
- 24 usual name, rank and serial number introductions and we can
- 25 dive right into Q&A. We have Keith Bergelt, CEO of Open

```
1 Invention Network; Marcus Delgado, Chief IP Counsel, Cox
```

- 2 Communications, Inc.; Steve Hoffman is CEO of ThinkFire;
- 3 Jim Malackowski we know is president and CEO of Ocean
- 4 Tomo; Laura Quatela is Chief Intellectual Property
- 5 Officer and Vice President of Eastman Kodak; Paul Ryan
- 6 is Chairman and CEO of Acacia Research; and Tracey
- 7 Thomas is the Chief IP Strategist and License Negotiator
- 8 for American Express.
- 9 MS. MICHEL: Thanks, Erika.
- 10 All right. Thank you. I am Suzanne Michel. I
- am Assistant Director For Policy here at the Federal
- 12 Trade Commission and leading this project. I want to
- thank all of our participants today for being here. We
- 14 couldn't do this without you.
- 15 I'll start with a very general question, and if
- panelists would like to answer any of the questions
- 17 throughout the day, please just turn up your table tent,
- 18 and I'll call on you to speak. Of course, part of the
- goal today is to respond to the questions but also to
- 20 respond to each other and to have a good conversation,
- 21 and having spoken with you all individually, I have no
- doubt that will happen.
- We will be spending a lot of this session today
- 24 discussing secondary markets for patents where patents
- are bought, sold, licensed, not necessarily in

```
connection with technology transfer - perhaps in
 1
 2
      connection with clearing rights or transferring the
 3
     patent rights.
 4
              If any of the panelists would like to take a few
 5
     minutes to introduce yourselves and the role of your
      company in those markets to lay the groundwork, I think
 6
 7
      that would be helpful. Yes, Paul, thank you.
                               Thanks for the opportunity.
 8
              MR. RYAN: Yes.
 9
      think because Acacia obviously is probably obviously
      less well known than the other major companies here, I
10
      think it's important to understand our role in this
11
12
     market.
              Basically Acacia partners with America's small
13
14
      inventors, manifested by small companies, universities
15
      and individual inventors. It's important to note that
      approximately 60 percent of all patents granted in the
16
17
      United States are awarded to these small entities. They
18
      are the key drivers in the invention and innovation
19
     market, which is so important to our country's
20
      leadership and technology and job creation and to
21
      America's consumers who benefit from their innovation.
22
              Unfortunately, these inventors and innovators
23
      have virtually been frozen out of the patent licensing
24
     market. They tell us that most large companies
```

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routinely ignore their licensing request and use their

25

```
patented technologies without payments knowing that
 1
 2
      these small companies do not have the resources to
 3
      enforce their patent rights.
              As a result, these inventors have no efficient
 5
      way to license their inventions. Acacia's role is to
      serve this unmet need by providing a licensing channel
 6
 7
      for these small companies. Acacia provides teams of
      engineers, patent attorneys and licensing executives
 8
 9
      that are able to develop and implement licensing
      programs that generate the appropriate licensing
10
      royalties.
11
12
              We generally split these revenues 50/50 with the
13
      inventors. To date our subsidiaries have generated
      approximately $75 million for our inventor partners.
14
15
      Acacia is serving an important role as a clearinghouse,
16
      an intermediary between large companies, who use new
17
      patented technologies on their products, and the small
18
      companies who invented and patented these technologies.
```

process with many large companies but still encounter a significant number of companies who refuse to negotiate.

Acacia's value to America's inventors is represented by 52 independent testimonial statements from inventors and companies who have partnered with us.

We have begun to achieve a rational licensing

These printed copies are available outside on

19

20

21

22

23

24

```
1 the table or can be accessed by our web site, and they
```

- 2 will give you a flavor of what forces the individual
- 3 inventor and small companies and universities face on
- 4 the marketplace, and they're kind of very brief
- 5 individual stories I think that are quite revealing.
- 6 Thank you.
- 7 MS. MICHEL: Thank you. Laura?
- MS. QUATELA: Well, Suzanne, thanks. I
- 9 represent the manufacturing company I suppose on the
- 10 panel, and I just want to make it clear that for Kodak,
- 11 we come to the markets with a variety of perspectives.
- We obviously have a long history of innovation going
- back to George Eastman who invented the capture of
- memories, so we're a patent owner, and we're very active
- in continuing to generate invention and innovation.
- 16 On the other hand, we also feel an obligation to
- our shareholders to make sure that our inventions are
- 18 protected, and so we're a very active licensor, so
- 19 whether we're addressing secondary markets or subjects
- like patent reform, we really sort of sit on the fence
- 21 and look at every issue from both perspectives, as an
- owner and as a participant in the licensing market.
- MS. MICHEL: Steve?
- MR. HOFFMAN: Thank you, and thank you for the
- opportunity to be here today. Like Paul I just wanted

```
1 to introduce ThinkFire because we're a small company
```

- 2 that many of you probably have not heard of.
- We play a similar role in the market as Jim
- 4 described for Ocean Tomo in that I view our role as
- 5 helping the market be as efficient as possible in
- 6 valuation and transferring of patents. We work
- 7 primarily in the technology space with large companies
- 8 and help them develop and execute strategies to use
- 9 their patents to their strategic advantage and their
- 10 financial advantage.
- 11 We also work as brokers helping owners of
- 12 patents sell through private auctions their patents when
- they decide that those patents are no longer necessary
- 14 for their business, and so we have a perspective on the
- 15 market that is bigger companies, larger portfolios
- typically where both the buyer and the seller are
- interested in not having it public that they're buying
- 18 and/or selling assets.
- 19 So the work that Jim and Ocean Tomo does is
- 20 incredibly valuable in terms of helping provide some
- 21 data on pricing and on value. We work, as I said, with
- 22 bigger companies and larger portfolios to provide
- 23 efficiency at that end of the market.
- MS. MICHEL: Keith?
- MR. BERGELT: Keith Bergelt. Open Invention

Network is probably not very well known either. It's an

1

```
2
      entity formed by six industrial companies three years
      ago for the purpose of ensuring that patents don't
 3
 4
      represent an obstacle to Linux and Open Source. Linux has
 5
      advanced into a variety of different applications spaces.
     Mobile Linux is the most recent entry, but many back
 6
 7
      office transactions, provisioning a number of other
      application areas, are replete with examples of Linux's
 8
      use and its pervasiveness in IT. Intellectual property
 9
      could potentially represent a threat, and that's why
10
      this entity was formed.
11
12
              We are a net acquirer in the secondary market.
      We acquire patents from a variety of sources, from
13
      universities, from brokers, public and private auctions
14
15
      as well as working to develop alternative forms of
      intellectual property such as defensive publications,
16
17
      and we also look to eradicate poor quality patents by
18
      utilizing something called Linux Defenders, which is a
19
      program we put up which is an extension of the peer to
20
      patent program and also allows for post-issue peer-to-
21
      patent, where granted patents can be challenged and
22
      prior art identified sufficient to allow for the
23
      elimination of poor quality patents that may have been
24
      issued during the period of intense patenting that we
25
      just came through.
```

```
1
              MS. MICHEL: Okav. Marcus?
 2
              MR. DELGADO: First let me thank you for the
 3
      invitation. For those of you in the D.C. area, you
 4
      probably are familiar with Cox Communications. For
 5
      others, we are the third largest cable company in the
      United States, providing video, voice data and soon
 6
 7
      wireless to our 6 million subscribers in markets
 8
      around the country.
 9
              We have been an innovator in these various
      fields and have been active in filing patent
10
      applications and getting patents issued and have
11
12
      participated in these secondary markets largely as a
13
      defensive measure.
              We have become concerned about the
14
15
      commoditization of patents over the past four or five
      years and are further concerned about how the law will
16
17
      develop as these markets become more mature and want to
18
      ensure that the law reflects the realities that are
19
      occurring in these markets.
20
              So I don't know, I may be a voice in the
21
      wilderness on this panel, but that's our concern as an
22
      operating company.
23
              MS. MICHEL:
                           Thank you.
                                      Tracey?
24
              MR. THOMAS:
                           Thank you. Thank you for having
```

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My name is Tracey Thomas. I'm the IP strategist at

25

me.

```
1 American Express. We began our patent program about
```

- 2 nine years ago, in the 2000 time frame right after
- 3 American Express began experiencing lawsuits as a result
- 4 of the State Street Bank decisions.
- 5 We began to see a lot of business process patent
- 6 type lawsuits being brought against us, and we decided
- 7 to develop a defensive program. It didn't take us long
- 8 to figure out that we also had a lot of valuable
- 9 intellectual property, and as we began to protect this
- intellectual property just defensively, we began to
- 11 realize value from that intellectual property.
- 12 Thanks to companies like Jim's which provide a
- 13 lot of great data around valuation, we're able to not
- just act by instinct but really make rationale economic
- 15 decisions about how we leverage intellectual property,
- so much so to the point where we are now a full business
- 17 within American Express with the bottom line P&L and
- 18 with financial targets, and so one of our big
- 19 considerations now is: Is there a market for our
- 20 intellectual property?
- 21 We know we have the assets. We know we have the
- 22 corporate will, but is there a marketplace that can
- 23 really help us meet the goals that we have set? We've
- 24 started to work on an effort that we call the
- 25 intellectual property zone or the upper Manhattan

```
1 intellectual property zone where we hope to bring
```

- 2 together a number of different transactors, just
- 3 companies like us for the purpose of facilitating the
- 4 identification, valuation and evaluation and
- 5 commercialization of intellectual property, so a
- 6 discussion like this is of paramount importance to us,
- 7 and we're just glad to be here.
- 8 MS. MICHEL: Thank you. We've referred to the
- 9 concept of secondary markets for patents and this kind
- of trading of patents licensing. How much is that
- 11 secondary market connected with technology transfer for
- 12 the purpose of creating a new product? How much is it
- about clearing patent rights for a product that has been
- independently created by the manufacturing company or
- 15 the service industry?
- Is this worry about a manufacturing company that
- 17 puts a product out there and now has to be worried about
- 18 a lawsuit, or is it something else? Jim?
- 19 MR. MALACKOWSKI: So I think it's evolved over
- 20 time. If I look at secondary markets, for me it began
- 21 with the web based exchanges in the late '90s. I think
- 22 at one point we had over 60 exchanges that were
- 23 attempting to license technology. Yet2.com was probably
- the most well known and successful.
- Today there are less than a dozen of those that

```
1 remain. Their original focus was largely on what we
```

- 2 would call carrot technology or new technology that they
- 3 were making available for new product development.
- 4 Since that time, the market has evolved to
- 5 include both continued efforts towards new product
- 6 development, but not specifically licensing evolving
- 7 into sale, so you can imagine if you're going to make an
- 8 investment in a new product, to have a license and a
- 9 right to use it as one of many is not as attractive in
- many cases as to own that right and have the monopoly
- 11 position. So that's been the first transition, from
- 12 licensing to sale for what we call carrots.
- The second transition that I think also is well
- 14 known is that there are large defensive organizations,
- some that are represented at the table, and Keith may
- address that point, that are also looking to the
- 17 clearing.
- 18 MS. MICHEL: Keith?
- 19 MR. BERGELT: Yeah, I think both. There's been
- 20 a dynamic over the last six -- seven years, where
- 21 you've had players coming into acquire assets for the
- 22 purpose of -- there are variety of purposes. I think
- the way Paul's described it is one way of describing how
- companies that are IP aggregators, as a generic
- 25 characterization -- IP aggregators have come in and

```
1
      utilized assets to be able to create value.
 2
              Sometimes they acquire assets. Sometimes they
 3
      co-oped assets for the purpose of creating value for the
 4
      original owner and for themselves, and in other cases
 5
      they're looking purely to flip an asset, buy it in the
     market, and then flip it six months later to be able to
 6
 7
      generate value through a cost-avoidance litigation
 8
      settlement.
 9
              On the other side, you see a parallel response
      just lagging eight months or a year, the formation of
10
      defensive patent pools to counteract the effect of IP
11
12
      aggregation that's utilized in a somewhat offensive way.
      You see defensive pools being formed right now.
13
              Certainly in the financial services industry,
14
15
      you see pools being formed. They haven't been announced
      yet, but companies are getting together to deal with the
16
17
      fact that they're being put upon by IP aggregators who
18
      are using litigation as their vehicle to make their
19
     point.
20
              So what we do, what RPX does, what Allied
21
      Security Trust does, all those are in response to a
22
      situation that's created by arbitrage in the secondary
23
      market. Jim has contributed to the fact that there
24
      is a viable secondary market through the public
```

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auctions, and certainly the private auction activity in

25

1

tandem has created a certain richness over the last

```
2
      three to four years, in particular.
 3
             MS. MICHEL: Where are the patents coming from
 4
      in that kind of market? Are they the independent
 5
      inventors that Paul works with or are they coming from
      large manufacturing companies, some of both?
 6
 7
             MR. HOFFMAN: Some of both. I think some of
 8
             I think one of the evolutions that has occurred
      both.
      recently in the market is that, I'm taking Tracey's
 9
      comment, that you started your patent organization,
10
      what, nine years ago? Many technology companies, many
11
12
      companies actually have only recently been in the patent
      accumulation mode, and they've gotten to the point now,
13
     many of them, where they feel like they have adequate
14
15
      defenses, and they were solely focused on building
      portfolios, and now they realize they have portfolios
16
17
      that give them adequate defense. Now is there an
18
      opportunity to start generating some return on that
19
      portfolio, either through licensing or through sales.
20
              So the selling posture of large corporations is
21
      something that's a relatively recent development.
22
      There's always been some corporations that have been
23
      selling but the number of large corporations that have
24
      started to consider selling their portfolios or at least
25
      part of their portfolios has dramatically increased over
```

```
1 the last couple of years.
```

- 2 MS. MICHEL: Have others had a similar
- 3 experience, large companies selling portfolios more
- 4 recently? Laura?
- 5 MS. QUATELA: We've begun to sell patents with a
- 6 targeted program and a staff to support it recently for
- 7 two reasons. First is to fund the transformation that
- 8 the company is experiencing from an analog manufacturing
- 9 space to a digital space, which is a highly expensive
- 10 transformation, and the second reason is to give our
- inventors some sense of accomplishment if their
- inventions are not commercialized.
- 13 There is a very real tangible satisfaction rate
- that goes along with picking patents that the company
- won't practice and putting them out on the market
- and realizing the return for the
- 17 shareholder.
- 18 MS. MICHEL: Paul?
- 19 MR. RYAN: Yes. I think the markets kind of
- 20 started with small companies and individual inventors
- 21 who had no way to monetize, and obviously the buying
- groups are a great resource for those inventors. It
- 23 gives them the ability to sell their patents directly to
- 24 a buying group or they now have the choice to partner
- 25 with us and split the revenues and go out and license.

```
1
              So I think the situation has certainly improved
 2
      for small entities, and I think the value proposition is
 3
      there now being manifested by large companies basically
 4
      doing the same thing.
 5
              MR. DELGADO: I think that, for example, just
      looking at Ocean Tomo's markets, I have followed
 6
 7
      the lot since they began offering those patents at
      auction, and you can see the progression from
 8
      smaller independent inventors to very sophisticated
 9
      companies now that provide their patents to that auction
10
      pool, and that's -- I guess it's kind of surprised me,
11
      but it's a business model, so I shouldn't be totally
12
      surprised.
13
14
              MR. MALACKOWSKI: So I would just respond,
15
      Marcus, your insight is exactly correct. When we went
16
      to launch the first auction, we visited many of the
17
      large companies and were told, "We think it's an
18
      interesting concept, we want to be third or fourth,
19
      prove that the model can work." So, we began with a
20
      lot of individual inventors and perhaps technology that
21
      was not as valuable as we now see today, but it is just
22
      a natural progression.
23
              MR. HOFFMAN: I think the other thing we have to
24
      talk about is the economy obviously is having an impact,
25
      and so companies we've talked to in the past that have
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said we're not interested in patent sales have come back
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- and said, "Now maybe we feel a little bit more
- 3 pressure to generate cash or to be a profit center as
- 4 you are, Tracey." So you see many more companies in
- 5 the last six months that have historically not been
- 6 interested in selling patents. All of a sudden they're
- 7 starting to consider that possibility.
- 8 MS. MICHEL: As recently as six months?
- 9 MR. HOFFMAN: Yeah. Literally, I think, the
- 10 market has transformed pretty dramatically in the last
- 11 six, maybe eight months on two sides. One is that there
- 12 are many more sellers, perspective sellers than there
- were even a year ago, and there's some question about
- whether there are as many buyers as there once were.
- 15 MS. MICHEL: That was my next question.
- MR. HOFFMAN: There are some of the defensive
- aggregators that Keith was talking about, like RPX,
- 18 which is a recent market entrant, and so they've added
- 19 to the buying demand, but the one name that has yet to
- 20 be mentioned in this conference, Intellectual Ventures,
- 21 everybody wants to know what IV is up to and what their
- future purchases are going to be.
- They've represented at least half of the
- 24 purchasing market for U.S. patents over the last few
- years, and there's some evidence that they're sated

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1 and are just slowing down in terms of their acquisition
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- 2 pace, and that's going to have a dramatic impact
- 3 obviously on the marketplace.
- 4 MS. MICHEL: What is that evidence?
- 5 MR. HOFFMAN: Well, we can -- without getting
- 6 into specific details. We find that their appetite for
- 7 certain kinds of assets -- where in the past they said
- 8 "Bring us anything in this area" -- they're no longer
- 9 interested in. Their pace of decision-making has slowed
- down pretty significantly in terms of evaluation of
- 11 assets and due diligence. They're appropriately
- 12 quite secretive about both what they've acquired and
- 13 what they plan on acquiring.
- So the evidence that I have, and other market
- 15 participants I'm sure have their own perspective, is
- anecdotal but seems pretty clear that they're playing a
- 17 less aggressive role than they have in the past in the
- 18 marketplace.
- 19 MS. MICHEL: Keith?
- 20 MR. BERGELT: PatentFreedom also tracks pretty
- 21 aggressively the various IP aggregators out there and
- 22 the companies that they create to hold these assets.
- 23 The other point that I wanted to make on this topic is
- that it ties into Steve's comment on the economy in that
- venture capital backed companies, decisions are being

```
1
      made every day as to which ones are going to receive
 2
      funding, which ones are going to be jettisoned.
              So there's a fair amount of rich intellectual
 3
 4
      property that can be harvested from working with the
 5
      private equity and venture capital community, and we, as
      an example, purchased a company last year for the purpose
 6
 7
      of acquiring its intellectual property assets. We retained
      its lead inventors, and doubled the size of the portfolio
 8
      in a year by distilling the value that was resident in the
 9
      engineering notebooks, but also continued to advance
10
      invention in the company, turning it into an invention
11
12
      machine, which is a variant on the model of simply
      acquiring things.
13
           Why don't we pick an area that we're very focused on.
14
15
      Like virtualization is a key area for Linux, and
16
      let's invent out into the future to enable Linux, and so
17
      that's an alternative approach, and that's feeding
18
      opportunity into the secondary market and creating as
19
      maybe -- there's a lot of content. Some of the content
20
      maybe isn't at the same level. It's a little spotty.
21
      It goes through periods where you have some great
22
      content, big numbers in sales, public and private
23
      auction.
24
              And then you have some periods where you have
```

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It's

got maybe a little bit of a down period.

25

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1 cyclical. This enriches the stew about by having these
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- 2 ventures backed companies lead their assets into the
- 3 market.
- 4 MS. MICHEL: Are you talking about situations in
- 5 which a venture backed company, I don't want to say
- fails, that's not the right word, but that --
- 7 MR. BERGELT: Fail by design. They can't wait
- 8 five years for the technology and the products that the
- 9 technology supports to actually materialize so they make
- 10 decisions to cut their losses and move on, but actually
- 11 it is -- there is also another dynamic just starting
- 12 which is quite nascent.
- 13 Venture companies are recognizing they don't
- want to support the cost of intellectual property
- development. We've moved away from the '90s paradigm where
- intellectual property was everything, and we're now
- 17 recognizing that it's about the ability to leverage that
- intellectual property in unique ways, and you're
- 19 starting to see players with more supple minds that are
- 20 running venture firms that are actually looking to do
- 21 sale license back transactions where they sell the
- 22 assets, and then they license them back, sometimes on an
- 23 exclusive basis, sometimes on a nonexclusive basis,
- 24 sometimes it's a hybrid in terms of their model.
- We're negotiating a transaction like that right now.

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1
              MS. MICHEL:
                           Jim?
 2
              MR. MALACKOWSKI: I would just comment on the
 3
      point that Keith made on the cycles because I think that
 4
      is exactly right. As we view the market, the first
 5
     major input was the cycle of increased buyer
      participation from the aggregators who brought capital
 6
 7
      and attracted the attention of sellers, and we've been
      discussing how the volume of sellers has been
 8
 9
      increasing.
              Well, many of those aggregators have a full
10
      plate right now, so their purchasing power is down so
11
12
      now it's essentially a buyer's market where it was a
      seller's market a year and a half ago.
13
              Our view is that the capital will come back into
14
15
      the market from new players that will largely be more
      global in nature. They will have an Asian, U.S.,
16
17
      European point of view, not just the U.S. point of view.
18
              MS. MICHEL: What do you think the motivation of
19
      those new players will be? Will it be different than
20
      the motivation of the patent aggregators?
21
              MR. MALACKOWSKI: In my opinion, yes.
                                                     I think
22
      we are in a phase now where it is largely defense
23
      oriented so aggregators and corporate buyers are
24
      looking first for that risk management point of view.
      think as you look globally, it will be much more offense
25
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oriented, not the sense of acquiring to litigate, but
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- 2 acquiring to protect markets in industries that are core
- 3 to those geographies.
- 4 MR. HOFFMAN: I think one of the major new
- 5 market entrants, and they're just starting to get their
- feet wet here, but it's going to transform the market
- 7 pretty significantly, is sovereign commonwealth funds which
- 8 have the kind of agenda that Jim talked about which is not
- 9 just about monetization, but it's about building a
- 10 technology industry and defending a technology industry for
- 11 whatever country they represent, and they are starting
- 12 to get very interested in this space.
- I think most of them are being very cautious but
- I suspect they're going to be the next major new entrant
- into the marketplace.
- MS. MICHEL: Do they focus on one particular
- 17 technology?
- 18 MR. HOFFMAN: I think it varies. I wouldn't be
- 19 able to kind of say that they're all adopting the same
- technology. I think what they're doing is looking at
- 21 their own countries and the technologies and the
- 22 aspirations of that particular country and trying to
- 23 build a patent portfolio that advances those causes, and
- 24 so it's going to be different from country to country
- and from sovereign wealth fund to sovereign wealth fund.

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1
              As I said, most of them, as I said, are
 2
      interested and curious and trying to investigate.
      wouldn't say too many of them have well formulated plans
 3
 4
      yet about exactly how they're going to enter the market.
 5
              MS. MICHEL:
                           Paul?
              MR. RYAN: Yeah, so when it comes to venture
 6
 7
      capital companies, I think there's a growing awareness
      that not every start up is going to have worldwide
 8
 9
      marketing and distribution to be able to challenge large
      embedded organizations, so I think there's a growing
10
      reality among venture capitalists to seed the
11
12
      development of innovative new technologies, protect them
13
      through patents and then license or distribute.
14
      Basically, it would parallel what's happened in the
15
      biotech industry, where you have a group of young
16
      innovative companies that do the R&D and innovation and
17
      then partner with the larger marketing and distribution
18
      organizations, basically the large pharma companies.
19
              And I think the continuing trend will be -- you
20
      will see the emergence of more pure innovation and
21
      invention companies that in turn are then licensing out
22
      those technologies to the broad branding and
23
      distribution companies to put in those channels.
              MS. MICHEL: Tracey?
24
25
              MR. THOMAS: Yeah, to Jim's points, I think what
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1 we'll see with a lot of these aggregators is that it
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- 2 will turn offensive. People can't just keep buying
- 3 patents with the idea that at the end of the day there's
- 4 nothing at the end of the rainbow. I'm not saying that
- 5 some of these aggregators are going to sue, but you can
- 6 draw that inference.
- 7 I think it's imperative upon companies in
- 8 certain industries like financial services to be more
- 9 proactive and to look to other models like the RPX model
- where RPX says they're not going to go out and sue. You
- 11 pay what really amounts to a subscription fee, and
- 12 patents which are problematic for you can be bought off
- the market, basically. I think that might be a better
- 14 model for companies like American Express than some of
- 15 the other models that are out there.
- MS. MICHEL: How does that model or does that
- model have a free rider problem? Some companies are
- 18 paying the subscription fee for patents taken off of the
- 19 street for everybody.
- 20 MR. THOMAS: Yeah, I guess you could look at it
- 21 that way. From our perspective, we have a policy and
- 22 always have had a policy of not violating the
- 23 intellectual property rights of third parties, so we
- 24 can't really worry about someone else benefitting from
- 25 our actions.

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1
              I think you really have to look inwardly and
 2
      say, "What's best for my company?" I think some of
      these models tend to be better for certain industries
 3
 4
      than others.
 5
              MR. HOFFMAN: But to deal with the specific
      question, what RPX does is they buy assets, take them
 6
 7
      off the street, and then they either resell the assets
      after they've given licenses to their members and/or
 8
 9
      they sub-license, and so they're actually trying not only
      to just spend money to acquire assets, take them off the
10
      street but actually generate revenue to offset the cost
11
12
      of acquiring assets by sale or sub-licensing, so nobody
      actually technically gets a free ride in their business
13
      model.
14
15
              MS. MICHEL: Okay. Keith?
16
              MR. BERGELT: AST has a catch and release model,
17
      which is an explicit approach --
18
              MS. MICHEL: If I can get everybody to use the
19
      microphone.
20
              MR. BERGELT: -- that within a year everything
21
      that AST purchases has to be sold back into the market,
22
      so there are increasing attempts to discourage free
23
      riders. Our model is very open, and because we can
24
      never sue, we are the whitest of white hats in this
25
      gambit because our community is the least accommodating
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of transgressive behavior that the Open Source community
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- 2 allows.
- 3 MR. HOFFMAN: I was hoping we would start
- 4 getting into this.
- 5 MR. BERGELT: The Open Source community does not
- 6 look fondly on patents in some situations, but looks
- 7 even less fondly on the notion of its protector acting
- 8 contra to best practices as to what the most edgy of
- 9 Open Source players would prescribe.
- I think another interesting point, going back a
- 11 bit, is that because the sophistication and the comfort
- 12 level with assessing intellectual property and its
- relative value, some of the things that were discussed
- 14 earlier, traditional notions of make or buy decisions
- 15 were getting people more comfortable, buying assets and
- bringing them back in and building businesses around
- those assets so creating spin-ins of assets to be able
- 18 to bolster businesses. This wasn't done before because
- 19 there wasn't that comfort level.
- So, I think there are a number of other things
- 21 that have gone on. Financial services is another arena
- 22 where lending against intellectual property has helped
- with this overall approach to obtaining the asset class,
- turning it into an asset class rather than just an
- 25 aberrant source of value.

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1 And I think some of Jim's presentation earlier
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- 2 helps you sort of see how value is really transferred in
- 3 organizations from hard to soft, and soft needs to be
- 4 leverageable.
- 5 MS. MICHEL: Tracey?
- 6 MR. THOMAS: We talked about the free rider
- 7 issue, and I may say something that might be a little bit
- 8 controversial, but if you take a company like
- 9 Intellectual Ventures, they've been purchasing patents
- 10 for a number of years, and at American Express we know
- anecdotally that some patents that could have been
- 12 problematic for us probably have ended up in their
- hands, although it's hard to know because you can't
- 14 really tell what Intellectual Ventures is buying these
- 15 days, right?
- MR. HOFFMAN: They have 300 separate
- 17 subsidiaries.
- 18 MR. THOMAS: But at the end of the day we know
- 19 that we've benefitted at least in the short-term so the
- 20 question will be: Will it be more efficient for us in
- 21 the long-term when they come and ask for a licensing
- 22 fee, right?
- MR. HOFFMAN: Right.
- MR. THOMAS: So free riding? It takes place at
- 25 all different levels, and not all bad has happened

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1 because of aggregators like Intellectual Ventures out
```

- 2 there.
- 3 MS. MICHEL: Laura?
- 4 MS. QUATELA: Going back to the point Keith was
- 5 making, we have created a unit which goes out and seeks
- 6 the small inventor and seeks to build on the smaller
- 7 inventor's invention's bigger business. We've done
- 8 that largely because we're afraid to respond to inventors
- 9 when they come to us, and we're afraid because we don't
- 10 know if they're seeking us out as a target or if they
- actually want to partner with us, so we decided to
- become proactive and go out and find our own inventions
- 13 to augment those we created.
- MS. MICHEL: That's interesting. Can you just
- spin that out a little bit, the fear of the independent
- inventor coming to you as a target, just elaborate on
- 17 that?
- 18 MS. QUATELA: As often as not, unfortunately, in
- 19 this new world we live in, when an inventor knocks on
- our door, it may not be because they're seeking Kodak
- 21 out to partner in an invention, but rather because they
- 22 see us as a target for their current inventions, and
- they just want more information to use to create a
- 24 lawsuit.
- MS. MICHEL: Marcus?

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1 MR. DELGADO: A couple points. One, I was going
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- 2 to go back to some of the factors that have
- 3 changed over the past couple of years, and I don't want
- 4 us to lose sight of some of the changes that have
- 5 occurred in the law as well that have had an effect on
- 6 behavior in these markets and have either increased
- 7 behavior through certain venues that may be more
- 8 favorable to patentees or have decreased behavior
- 9 because, for one reason or another, the obviousness
- 10 standard has changed for example.
- 11 So, that may tend to decrease the likelihood that
- 12 you'll go out and aggregate patents. Then
- to follow up on Laura's point, we also simply have a
- 14 policy that we won't talk to third parties that kind of
- 15 just knock on our door. We innovate and we innovate at
- the same time, and so we don't know, as you said,
- whether or not someone is looking at us as a true
- 18 partner or as a target. We have been burned in the past
- 19 when we thought we were being viewed as a partner, but
- in fact were being viewed solely as a target so we've
- 21 changed our practices. Apparently we don't have enough
- 22 live bodies.
- MS. MICHEL: I don't know what's going on [with the lights].
- MR. HOFFMAN: We're just too still.
- MS. MICHEL: Jim?

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1
              MR. MALACKOWSKI: So I would simply comment that
 2
      this issue of an inventor that approaches and there is
 3
      legitimate concern about whether you're a target or a
 4
      partner, that the market continues to try to find ways
 5
      to solve that problem, and Laura described one, but many
 6
      companies have now instituted a clean room policy where
 7
      they engage an independent third-party, whether that be
      a law firm or an IP appraisal firm, to screen all of
 8
 9
      those incoming submissions and match them against a very
      specific set of criteria that the company is interested
10
      in, is not currently developing on their own and then
11
12
      facilitate an introduction that's less threatening.
13
              So the point I made earlier in the comments is
      that this market place continues to evolve to these
14
15
      changing needs in a way that I think is quite effective.
16
              MS. MICHEL: Laura?
17
              MS. QUATELA: Sorry.
18
              MS. MICHEL:
                           Tracey?
19
              MR. THOMAS:
                           To pick up on Marcus' comment, I
20
      think it's terrible that a company like Cox, which
21
      probably has a lot of innovation going on inside of it,
22
      is forced to be put into a situation where it has to
23
      say, "Hey, we can't listen to third-party ideas." I think
24
      it underscores a need for a more efficient marketplace
25
      so that companies like Cox and American Express aren't
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1 afraid to answer the call when it comes.
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- 2 And I think we all know now that there's a lot
- 3 of evidence that suggests that the wisdom of the crowds
- 4 can be very valuable. But, if we can't open the door
- 5 because we're afraid of lawsuits, and we have the same
- 6 problem as Marcus, at the end of the day I think it's a
- 7 problem not just for these companies but for our economy
- 8 as a whole and the need for a better marketplace around
- 9 intellectual property.
- 10 MS. MICHEL: Is it a failure of the efficiency
- of the marketplace that's causing that problem and how
- 12 so?
- MR. THOMAS: Just off the top of my head
- 14 valuation. There's extreme
- 15 inefficiencies around valuation. At last count, I was
- told that there were at least 1,500 different valid ways
- 17 to value a patent, right.
- 18 MR. HOFFMAN: Which means there's none.
- 19 MR. THOMAS: Which means there's none, and if
- you can't come to a meeting of the minds about what
- 21 something is worth, I don't care what it is, it's not
- likely that you're going to be able to transact around
- 23 it, so there are plenty of inefficiencies, and for me I
- 24 put valuation probably right at the top.
- MR. HOFFMAN: Yeah, I think that's exactly

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1 right. We get approached often by individual inventors
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- 2 that want to monetize their patents and there is, in
- 3 most cases, if not just about all cases, a tremendous gap
- 4 between reality and their expectations with respect to
- 5 value.
- A lot of it has to do with pride of ownership
- 7 and invention and authorship, which makes a lot of sense
- 8 obviously. But, a lot of it has to do with the
- 9 misconception of how do you go about monetizing a patent
- 10 through licensing, and what are the risks, what are the
- 11 probabilities of being successful, and most of the
- 12 conversations we have break down because there isn't
- anyway to come to an alignment on what a realistic
- 14 valuation for an asset is.
- 15 I think if people thinks the asset is way more
- valuable than it actually is, they're going to be more
- 17 aggressive in terms of trying to monetize it.
- MS. MICHEL: Okay. Marcus?
- 19 MR. DELGADO: I actually attended a talk that
- 20 Tracey was at where he talked about how you sort of go
- 21 through valuation of patents. I said that's a perfectly
- 22 legitimate way to do this. Courts wouldn't recognize it
- 23 necessarily. If I go into the next room, someone else
- 24 could come up with something completely different, and
- as a lawyer, I'm primarily concerned with how the court

is going to look at this valuation issue.

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2
              And right now I think courts kind of struggle
      with how do we value this thing. So, now they're
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 4
      essentially doing what we do which is figuring out how
 5
     much it is going to cost us to litigate this thing, and
      that's just extremely inefficient. I think companies
 6
 7
      have sprung up based on the fact that their entire
     models are based around how much it will cost to
 8
 9
      litigate, and since that cost has increased over the
      past few years, it's become very lucrative.
10
              So I think there is a lot of -- since there's so
11
12
     much mystery around patent valuation, it puts some
      inefficiencies into the market.
13
              MS. MICHEL: Marcus, do you face any other
14
15
      problems when considering whether to bring in
```

associated with just the difficulties of what technology it being offered to you and how much further it has to go in terms of developing it into a product?

MR. DELGADO: Yeah. So, if a third-party comes to us and says that they have an idea or that they have a patent on a particular area of technology that we innovate in, there's a difference between the quality of the engineering that our folks are doing who have been in this for years and have been involved in this

technology from an outside party beyond the valuation of

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1 technology and understand the problems that can occur
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- 2 and what can crop up versus someone who comes to us and
- 3 says, I have a great idea that I came up with last night
- 4 on the back of cocktail napkin.
- 5 It's just I'm sure that person is a very
- 6 intelligent person, but it's like I can't engage with that
- 7 person. But that person can go out and get
- 8 a patent based on what they came up with on the back of
- 9 that cocktail napkin, and if they were able to convince
- 10 the Patent Office that the idea is new and non-obvious, et
- 11 cetera, then now I face a real problem.
- 12 So it's difficult to ascertain the quality of
- the actual idea that the person has come up with.
- 14 The patent system doesn't necessarily -- I think we have
- 15 a great patent system here, but it doesn't search the
- 16 way the European patent system searches, for example, so
- 17 a lot of bad things can come out of the Patent Office.
- 18 So those are some of the challenges that we
- 19 face.
- MS. MICHEL: Did any others have comments on
- 21 this last point that Marcus made? Tracey, then Paul?
- 22 MR. THOMAS: Yeah, the comment about the
- inventor putting something on the back of a napkin
- 24 really kind of begs the question: Is it a good patent
- or is it a bad patent? If it's a good patent, then

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1
      maybe that person or entity should be compensated
 2
      accordingly. A lot of times, to your point, it's a bad
      patent, and you face the threat that this patent could
 3
 4
      be used against you later.
 5
              At the end of the day though my instinct is that
      an efficient marketplace might marginalize the bad
 6
 7
      patents. Now, that might be kind of lofty thinking, but
      if you think about Jim's comments about his exchange,
 8
      and I don't work for Jim, but you could see where
 9
      inviting other investors into the party other than just
10
      the buyers and sellers can really create a lot more
11
12
      liquidity so that it would be expensive to ignore the
      good patents basically and the good intellectual
13
14
      property so that maybe people would spend more time
15
      focusing on valuable intellectual property instead of
      nuisance lawsuits, and that includes everybody, lawyers,
16
17
      all the way through the corporate players like myself.
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21 MS. MICHEL: Paul?

marketplace is my point.

18

19

20

MR. RYAN: Yes. Relative to valuation and quality of patent, one of the key functions that Acacia performs I think in the marketplace is giving inventors realistic expectations, the problems you've addressed,

can marginalize them through a more efficient

So to your point about the bad patents, maybe we

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1 because if they have unrealistic expectations, we won't
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- 2 partner with them.
- 3 They have to understand that large companies
- 4 have multiple royalty obligations. They have profit
- 5 margins they're operating under, and so I think our
- teams have experienced licensing executives who we've
- 7 recruited in out of the industry, have a good
- 8 appreciation for that and can temper their enthusiasm
- 9 and expectations to reality.
- 10 And another function that we perform is doing a
- 11 tremendous amount of due diligence because we probably
- see multiples of opportunities, and we only select a
- very few from a due diligence standpoint, so I think
- 14 from that standpoint, we do act somewhat as a
- 15 clearinghouse so when we come to companies, they know
- we're an objective third party. We don't have any
- 17 emotional or unrealistic expectations about value.
- 18 And that's why I think we've had some early
- 19 limited success in rationalizing the process and
- 20 actually getting transactions done on behalf of small
- 21 companies with large companies.
- MS. MICHEL: Jim?
- MR. MALACKOWSKI: I would just again encourage a
- 24 more historical perspective. We have inverted our
- economy from an industrial economy to an innovation

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1 economy in a relatively short amount of time. We have
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- 2 made tremendous progress on the valuation issues. I go
- 3 back to 1988 when I started IPC Group. We were the only
- 4 firm that would appraise your patent, and there was no
- 5 FASB standard to look to.
- Today it is a customary thing. All the
- 7 accounting firms do it. They use the same FASB
- 8 pronouncements. There are original organizations such
- 9 as LES, and Ken Schoppmann's in the back of the room, their
- 10 administrative director, that will now certify you as a
- licensing professional, requiring you to go to training
- that covers how to value a patent so we're making great
- 13 progress. Sure, there are mismatches in expectations
- 14 but it's getting better.
- 15 My last comment on that is the auction or other
- 16 publicly reported data is starting to have an effect.
- 17 When inventors come and they describe their idea, I can
- 18 tell after 15 minutes, I'll interrupt and say, Let me
- 19 guess how much your idea is worth, and I'll say a
- 20 billion dollars. How did you know? Well, because it's
- 21 the third billion dollar idea I've heard today. It's
- 22 not. Look at what patents are selling for on the open
- 23 market. It's a few million dollars. It's not a
- 24 billion, and the ability to show them those reference
- 25 points does make a difference.

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1
              MR. HOFFMAN: Absolutely.
 2
              MS. MICHEL: Keith?
 3
              MR. BERGELT: Intellectual property in general,
 4
      to Jim's point regarding valuation, the fact that
 5
      several billion dollars has been put out against
      intellectual property since '97 as a naked asset where
 6
 7
      intellectual property is the only and sole source of
      collateral I think is very significant because that's
 8
 9
      the hairy edge of valuation where you're basically putting
      real dollars against that as a naked asset.
10
              In the event of a default and foreclosure that's
11
12
      all you have. You don't have anything else to be able
      to recoup. So what we're seeing in the market now is
13
      some of the transactions that were done over the last
14
15
      five to seven years in particular where intellectual
      property was the sole and exclusive source of the loan
16
17
      where those assets are now coming into the secondary
     market which is another vehicle that ties into the VC
18
19
      [venture capital] side, but it's a similar process.
20
      Companies are going and filing for chapter, and once they're
21
      in BK [bankruptcy], those assets are then held back, then
22
      taken by the creditor. Then, they're being liquidated
23
      in the market, and it applies to patents, trademarks and
24
      copyrights that are being taken in this way.
25
              So the market has matured while people have been
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1 not watching because there's been this whole trend
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- 2 around intellectual property collateralization which is
- 3 an extension of securitization. And those things are all
- 4 dynamics that people need to look at when they
- 5 think about this whole issue of the secondary market
- 6 because these are assets that are bankable assets, and
- 7 the reason they're bankable is because they have to be
- 8 in order to drive economic growth.
- 9 You can't lend just against hard assets because
- 10 then you can't lend it up to debt service -- reasonable
- 11 debt servicing capabilities. Private equity does not
- work if you can't lend against intellectual property,
- period, because private equity is based on leverage,
- 14 reasonable leverage, multiples of three to four times to
- 15 be able to do a transaction. I think it's very
- important because private equity is the straw that stirs
- 17 the drink.
- 18 MS. MICHEL: All right. We've been mentioning
- 19 valuation of assets in this kind of market. Is that
- valuation based solely on the ability to assert that
- 21 patent against someone who's independently developed a
- 22 product or is it about getting someone developing a new
- 23 product based on that technology? Does it matter?
- 24 Steve?
- MR. HOFFMAN: Valuation -- I agree with Jim's

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point, first of all, two points I quess. One is that
 1
 2
      Ocean Tomo auction has been incredibly valuable because
      it has provided public data on valuation which has not
 3
 4
      existed before. It represents a small percentage of the
 5
      actual transactions, most of which you don't have that
      data on, but at least it's a foundation, so that's good,
 6
 7
      and I think valuation has gotten much better over the
      last couple years.
 8
 9
              But most valuation techniques are actually more
      or less the same, and they take multiple perspectives
10
      and try to triangulate. One of which is what you just
11
12
      said, which is if I was to assert this patent and try to
      generate royalties or damages, what is a reasonable
13
14
      discounted cash flow expectation based upon time and
15
      risk and money involved in generating revenue.
16
              So that's a starting point so but there are
17
      other reasons that people potentially buy assets
18
      including for defensive purposes, replacement versus
19
      doing their own R&D, and then the comparable database
20
      that Ocean Tomo and others have created, and you take
21
      those four different perspectives because you have
22
      different buyers that would value it differently and try
23
      to triangulate, but it's still an art form. It is not a
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It's a lot better than it was five years ago,

24

science.

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1 but it is still an art form which creates some of the
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- 2 problems that Tracey was talking about.
- 3 MS. MICHEL: Okay. Tracey?
- 4 MR. THOMAS: Yeah. For us at American Express
- 5 the patents and technologies are inextricably tied when
- 6 we look to valuation. As we look into the future in
- 7 terms of what we think our IP business can do. I can
- 8 tell you that patent sales -- pure patent, paper patent
- 9 sales and licensing probably represents less than 5
- 10 percent of that.
- 11 So at the end of the day for us it's about
- creating new opportunities in the marketplace,
- leveraging what we consider our core assets which is
- information management around payments, so for us it is
- 15 about new products.
- MS. MICHEL: All right. Good. How does the
- 17 high price of patent litigation figure into the
- 18 operation of these markets and the valuation of the
- 19 patents? Paul?
- MR. RYAN: Well, certainly from the perspective
- of the small companies, it basically shuts them out of
- the market, and that's why I think so many innovators
- 23 have come to Acacia because if they have a realistic
- 24 expectation of their value, say they think their patent
- is worth to a company that's using it -- is worth 10

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1 million, and they know if they try to assert it in the
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- 2 judicial system, it may take them as many as ten years
- 3 and cost them 20 million, then effectively the award of
- 4 the patent has been rendered moot by the cost of
- 5 enforcement.
- 6 So it has a dramatic effect, particularly the
- 7 less capital the owner of the innovation has, the more
- 8 the dramatic the impact.
- 9 MS. MICHEL: Keith?
- 10 MR. BERGELT: I look at it from the other
- 11 perspective in terms of the inefficiencies associated
- 12 with the endless stream of litigation. While Paul's
- taking the position of the small company, I would look
- 14 at it from the companies that are actually reducing to
- 15 practice, practicing entities, formerly practicing.
- Qualcomm is a formerly practicing entity, not
- terribly successful as a practicing entity, but
- incredibly successful as a formerly practicing entity
- 19 because of its licensing business.
- But then there are totally non-practicing
- 21 entities, never attempted to reduce the practice, never
- 22 brought capital to bear. I mean, this isn't an
- 23 environment where there is no secondary market. This is
- 24 the best place in the world from which to grow
- 25 businesses. To be able to attract capital we have a

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1 viable secondary market. We have access to capital.
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- 2 Even in a down economy you can access capital to bring
- 3 to bear, grant good ideas.
- 4 You can basically take those inventions, bring
- 5 people to them, bring capital to them, and with smart
- 6 oversight from private equity, and you can build
- 7 businesses. That's what I would view as a more
- 8 productive vehicle to leverage value rather than simply
- 9 to assert and litigate your patents to create turbulence
- 10 in the market, what some would call troll turbulence in
- 11 the market.
- MS. MICHEL: Laura?
- MS. QUATELA: The practical reality for me is
- 14 although there has been the evolution of FASB standards
- and more rigor, I guess I would say, around valuation
- 16 methodology, the fact is when I sit down in a room to
- 17 commence a valuation discussion, whether it's with
- 18 accountants, consultants, whomever, I end up in a
- 19 different place each time.
- 20 What I do know is how much it costs to litigate.
- I know that very well as a lawyer. I understand it. I
- 22 know in various -- virtually every jurisdiction what it
- 23 will cost to almost a penny. So, practically speaking, I
- tend to revert to that type of valuation in a patent
- 25 discussion. I know it. I feel it. I have a gut

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1 instinct around it.
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- MS. MICHEL: Okay. And does that lead to
- 3 avoidance payments?
- 4 MS. QUATELA: It does. Sadly, it does.
- 5 MS. MICHEL: Marcus?
- 6 MR. DELGADO: I would say to your point that the
- 7 independent inventor faces a hurdle in patent litigation
- 8 because they may have to pay 10, 20 million dollars to
- 9 litigate. I would say as an operating company, we
- 10 probably have to pay 10 to 20 million dollars to
- 11 litigate it as well, so it isn't exactly a picnic for us
- 12 on this side.
- And I would say in litigation, the costs to us
- 14 versus an NPE are significantly different. The
- discovery burden on a company of Cox's size is fairly
- large, and the churn and the depositions and discovery
- that goes on inside our company is significant whereas
- an NPE, who has acquired this patent, and may not even
- 19 have any connection to the original inventor has a very
- 20 small burden in terms of discovery.
- 21 So I think that there are some inequities there.
- 22 MR. BERGELT: And that retards innovation.
- 23 That's the bottom line is you're not putting capital to
- work where it should be put to work. I would much
- 25 rather see AmEx or B of A or J.P. Morgan Chase put the

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1 400 or 500 million dollars a year that they spend on
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- 2 payoffs to be able to make these suits go away, putting
- 3 it into new products and services that we can all
- 4 benefit from.
- 5 MS. MICHEL: Tracey?
- 6 MR. THOMAS: Yeah. Certainly the NPE problem is
- 7 increasing. We know that it's increased about 300
- 8 percent since 2001. In financial services alone we know
- 9 there are at least 15 non-practicing entities
- 10 targeting financial services, so we know that we do need
- 11 models like the RPX model or the Intellectual Ventures
- model to say, "Hey, how do we get some of these patents
- off the street" and come up with a more efficient way of
- 14 dealing with them. That is well accepted.
- 15 On the other side though, and I'm not talking
- out of both sides of my mouth here, I'm trying to be fair,
- 17 we know at American Express that some our most valuable
- 18 intellectual property has come from smaller companies
- 19 where we've acquired the rights.
- Individuals who did not have the capital or
- 21 didn't have the access to the venture capital that Keith
- was talking about, some of that intellectual property
- 23 we're hoping to list on Jim's exchange one day. So, at
- 24 the end of the day, I think you have to look at both
- sides of the equation, and that's where the more

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1 efficient marketplace hopefully can marginalize the
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- 2 troll problem and make it so that as I said before it's
- 3 expensive not to participate in the efficient
- 4 marketplace.
- 5 MS. MICHEL: Laura?
- 6 MS. QUATELA: Just to underscore Keith's point,
- 7 just to give you an example, not only is it money that
- 8 we're diverting to defensive purposes, but in my group
- 9 I've employed the inventor of the digital camera who has
- 10 worked for me for five years on defensive litigation.
- 11 Imagine what he would have invented in those five years
- if he was out in his R&D community doing more productive
- 13 things.
- MS. MICHEL: And, Laura, can you give us any
- 15 sense of how the number of patent assertions and
- litigation against your company has grown?
- MS. QUATELA: Yes. In 2000, we had, I believe, two
- 18 defensive cases in our group. Since that time, we
- 19 average about 15 to 22 or 23 new assertions per year.
- 20 Although we have seen a leveling off in the last
- 21 year, I think that has more to do with the economy than
- 22 anything else.
- That's our experience, and we find it through
- 24 participation in groups, some of which Keith has
- 25 mentioned. We find that to be a fairly familiar growth

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1 rate for other companies.
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- MS. MICHEL: Okay. Marcus, can you give us a
- 3 sense of the amount of litigation that your company
- 4 participates in?
- 5 MR. DELGADO: Sure. I joined Cox in 2004, and
- 6 before I joined there, I believe they had one patent
- 7 litigation, one patent lawsuit, and since I've joined,
- 8 maybe it's because I joined, we've had four to five per
- 9 year that have come up. I would say about 90 percent are
- 10 NPEs that have sued Cox since then, so it has grown
- 11 significantly and the litigation costs have just
- 12 skyrocketed.
- MS. MICHEL: Keith, did you have a point on the
- 14 growth?
- 15 MR. BERGELT: Yeah, I think Jim may be able to
- 16 provide some data because I think I've seen some slides
- that you've presented, Jim, but I may be wrong.
- 18 Microsoft and IBM historically over the last five years
- 19 are their biggest targets, Microsoft being the largest
- 20 target. The deeper the pockets, the healthier the
- 21 entity, the more activity, so these are high growth,
- very successful companies, and they are routinely set
- 23 upon by non-practicing entities.
- MS. MICHEL: Okay. Paul?
- MR. RYAN: I think it's important and obviously

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1 it's a large cost to large companies, but
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- 2 proportionately it's a dramatically larger cost to small
- 3 companies. You've probably heard some testimony from
- 4 Interdigital and Tessera and innovation companies where
- 5 their legal and litigation budget can be 20 percent of
- 6 revenues, so it's dramatic problem.
- 7 I think also it's important to understand that
- 8 there really shouldn't be any distinction on a
- 9 practicing and non-practicing entity. I think the Chief
- Judge [Michel] in December was here and gave some testimony
- and said there's no legal logic as to why it exists.
- In our organization we have an acronym NPI,
- instead of NPE, which is a non-paid innovator, so I
- 14 think it's important to look at it from both
- 15 perspectives. We certainly understand that large
- 16 companies may feel put upon.
- What we've seen historically is if we can engage
- in a rationale discussion, 95 percent of the time we can
- 19 come to a rationale agreement and eliminate all of that
- 20 excess cost for both parties.
- I think a lot of large companies have become
- 22 over defensive for maybe appropriate reasons and have
- 23 kind of chilled the conversation leaving the small
- innovator the only choice but to litigate.
- 25 So what we try to do is mediate and

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1 immediately have discussions and licensing discussions
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- that we think are realistic, and we've been very
- 3 successful in taking some of that hostility away and
- 4 getting down to business and getting realistic licenses
- 5 done. So, I don't think it's impossible to do
- or a problem that can't be solved if you've got
- 7 intermediaries with the right motivation and you've got
- 8 large companies with the receptivity, the licensing
- 9 technologies they think they use.
- 10 MR. BERGELT: Paul, isn't most of your -- this
- is just the dynamic, but most of your pieces found on
- 12 the other side of war, isn't it? I mean, you litigate
- and then you get rationale discussion.
- MR. RYAN: It didn't before, not before --
- 15 MR. BERGELT: Just in the last few years.
- MR. RYAN: Well, the change in the law has
- forced us to do that.
- 18 MS. MICHEL: Jim, and then we'll come back to
- 19 that point.
- MR. MALACKOWSKI: Well, from my perspective, the
- 21 enforcement marketplace has evolved as well, and I would
- 22 point to three facts. One is the partnership of the
- 23 inventors has changed. The contingent law firm option
- has greatly diminished, in large part because of the
- economy, but what has taken its place are institutional

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1 investment funds from very large firms like Credit
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- 2 Suisse and Deutsche Bank that will now partner with
- 3 individual inventors to enforce. Why that's
- 4 significant is their standard of diligence to accept and
- 5 enter into an enforcement action is, in my opinion, far
- 6 greater than what used to exist at a contingency law
- 7 practice.
- 8 The second change is I think we have had
- 9 substantial reform, if you want to call it that, through
- 10 the Court system, and in particular the eBay decision is
- one notable example which has changed the dynamic of the
- 12 threat of the injunction, that has had a
- 13 significant effect on those who seek to enforce.
- Then lastly, I point to interesting policy
- 15 experiments that are going on. Google recently
- announced that if, in fact, you sue them for patent
- infringement, they're not going to settle with you,
- 18 period, end of story. It's going to trial. Well, now
- 19 the calculus say, well this is going to cost me ten
- 20 million dollars as the plaintiff to get to trial and I
- 21 know I'm going to have to spend that money, maybe that
- 22 changes how often you in fact litigate. So, it will be
- interesting to see if those policies are in fact
- 24 successful or make a difference.
- The last balance point that I would mention is

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1 although I can understand the stress that the litigation
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- 2 budget places upon the operating entities, as patents
- 3 are found and shown to have significant value, either
- 4 through the litigation process or through the open
- 5 marketplace, most of those operating entities like
- 6 Microsoft and IBM that were mentioned by Keith have their
- 7 own portfolio of thousand or tens of thousand of patents
- 8 that ten years ago were not given much respect or value
- 9 credibility, but today because of those catalysts in the
- 10 marketplace people look at their own portfolios in a
- 11 much different way.
- 12 So there is a little bit of a counterbalance and
- a value recognition that exists because of such
- 14 enforcement actions.
- 15 MS. MICHEL: Okay. Do other panelists have
- 16 comments on why we've seen this growth in secondary
- markets over the past seven years, nine years, ten
- 18 years? Jim mentioned an influx of private capital. Are
- 19 there others?
- 20 MR. RYAN: Excuse me. I think it may be more
- 21 fundamental, I think Jim and the other people have been
- 22 here for a while. Texas Instruments, based on its
- 23 financial difficulties, went to an aggressive licensing
- 24 model and was successful, and then not too shortly
- 25 thereafter, IBM built a very profitable business out of

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1
      patent licensing and certainly companies like Qualcomm.
 2
              On the other side you saw great institutions
 3
      like Bell Labs and Xerox Silicon Graphics who are great
 4
      innovators who didn't get any value for their patents
 5
      essentially go out of business, so if you've got the
 6
      largest companies in America wanting to earn a return on
 7
      their R&D investment, it makes sense that mid-size and
      smaller companies are going to start wanting to earn
 8
 9
      those returns.
10
              And I think it focused more companies on what
      Jim has pointed out as the increasing importance of IP
11
12
      as a component of value in any company, and I think
      that's the fundamental issue is you've had a shift in
13
      the economy, and it's now reflected in those markets.
14
15
              MS. MICHEL: And are you suggesting a shift in
16
      the source of innovation away from the Bell Labs model
17
      towards a smaller entity model?
18
              MR. RYAN: I think it's interesting.
                                                    I think
19
      it's being reinvigorated. People like Intellectual
20
      Ventures with their invention group, companies like
21
      Tessera and Interdigital. I think it's much more
22
      logical in our economy to have specialized companies and
23
      innovation putting that innovation into distribution
24
      channels. It certainly worked in the biotech industry,
      and I think it would have merit in the tech industry.
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MR. MALACKOWSKI: Suzanne, I think you could
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 2
      find the answer to your question of why have we seen all
 3
      of this activity in the last five to ten years at every
 4
      cocktail party you attend because people will say that
 5
      manufacturing has left the U.S. for China, for example,
      and service has left the U.S. for India.
 6
 7
              I hear that and I look at them and say, What's
      left, and they don't have a quick response, and what's
 8
 9
      left is not just innovation because if you innovate, and
      you can't protect it, it gets quickly moved to a lower
10
      cost marketplace. What's left is proprietary
11
12
      innovation, and that's what's driving corporate value,
      and as the market recognizes it, it's only obvious that
13
      they would begin to trade and otherwise value and invest
14
15
      in those assets.
              MS. MICHEL:
16
                           Keith?
17
              MR. BERGELT: But priority innovation, this ties
18
      into Open Source because we're not inventing. We're not
19
      doing siloed parallel invention of fundamental
20
      technologies the way we did 10 or 15 years ago. We're
21
      now inventing higher up in the stack collaboratively.
22
      What's proprietary is actually more particularized
23
      above the middle wear layer if we think of
24
      telecommunications, electronics and IT, and so it's a
25
      different modality for invention that's occurring, far
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1 more collaboration higher up in the stack, a lot less
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- 2 concern about contamination and market price fixing and
- 3 all the other concerns that we had from an antitrust
- 4 standpoint during the '80s and 90s.
- 5 And it's much more of a freer invention
- 6 environment, so we're changing the way we invent. We're
- 7 creating attachment points beyond the G8 countries for
- 8 the global economy to actually connect up to be able to
- 9 allow the best and the brightest minds to actually
- 10 attract capital and allow it to flow over the 'net out to
- 11 the developing world rather than encouraging
- intellectual capital flight from developing countries to
- places where capital actually existed, where the
- 14 secondary market was, i.e. the U.S. for the most part
- during the '90s.
- And so we're creating -- we're part of this
- 17 larger macro dynamic where there are still companies
- 18 that have a somewhat siloed mentality, but a lot of
- companies are actually participating very aggressively
- in this changed dynamic of how we invent together, far
- 21 more collaboration, far more coordination and invention
- 22 up in the stack which means that what we choose to
- 23 patent is far more limited.
- MS. MICHEL: And do your comments pertain to
- 25 Open Source software or broadly?

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1
              MR. BERGELT: Actually you think about your
 2
      business. You think of your business in particular. A
      lot of it is software driven, and so there aren't a lot
 3
 4
      of things -- as we get more and more intellectual
 5
      capital driven to Jim's point, more and more focused on
      creating value out of innovation and invention, those
 6
 7
      inventions are occurring collaboratively. The idea - it's
      Brian Arthur's view of increasing returns - one plus one
 8
      plus one equals six, not three, and that's what's
 9
      happening in this economy.
10
              And it's globalized invention and innovation, so
11
12
      software runs a lot of the businesses that we look at,
      and increasingly this will break down barriers. Software
13
14
      and hardware development will occur through an Open Source
15
     model.
16
              MS. MICHEL: So what are the panelists' views on
17
      whether this increased growth in the secondary markets,
18
      is it good for innovation, bad for innovation,
19
      innovation in the sense of getting new products to
20
     market? Tracey?
21
                           I think it's absolutely good.
              MR. THOMAS:
22
      you look at some of the surveys that have been out there
23
      that say the current IP transfer market is about 100
24
      hundred billion dollars but it represents only a tenth
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of what it could be, I think the secondary markets can

25

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only help through reinvestment.
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- 2 It's part of our policy, just like it was part
- 3 of the policy of the IBMs and other companies who have
- 4 been successful leveraging intellectual property, to use
- 5 IP as an investment funding source for more innovation.
- 6 So I think anything that contributes to that is a
- 7 positive thing.
- 8 MS. MICHEL: Do we have to weigh against that
- 9 the cost of the increased litigation that some
- 10 manufacturing companies are facing?
- 11 MR. THOMAS: You know, I can't speak for the
- 12 manufacturing companies, and I'm very empathetic to them.
- MS. MICHEL: Any product company that faces
- 14 litigation.
- 15 MR. THOMAS: But I think if you look at the
- scale of what the opportunities are, I go back to this
- point about marginalizing the issues like the litigation
- issues. People will focus on value if it's there. If
- 19 we're able to unlock the value that's in our economy
- 20 now, I think what you'll find is people will militate
- 21 toward that. You'll see less frivolous lawsuits.
- 22 You will see better diligence around future
- 23 opportunities as Jim mentioned because there will be
- 24 more funding for it, and I think we'll all get smarter
- as a result. That doesn't mean you're going to

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1 eliminate litigation. It's going to be there, but you
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- 2 have to take some of the bad with the good.
- 3 MR. DELGADO: I think I tend to agree with that.
- 4 I think these markets ultimately can be effective. My
- 5 concern it just that I don't think the courts have
- 6 caught up yet with where they are. I think maybe in
- 7 five to ten years when courts are -- maybe the damages
- 8 standards change or they recognize sort of some of the
- 9 inequities that can occur, I think these markets are
- 10 great. I think they offer a great opportunity for
- investment and innovation and investment and technology.
- My big beef is that the courts are in 1800s
- patent law, and we're dealing with 21st century
- 14 technology and business models, and so that's my
- 15 concern.
- MS. MICHEL: And, Keith?
- 17 MR. BERGELT: I think picking up on the point
- 18 that Marcus made, it's not even just judicial reform.
- 19 It's legislative reform. It's regulatory reform, and
- 20 it's also the market meeting those reforms halfway, the
- 21 market being much more proactive and involved and
- 22 recognizing -- we talked about free riders. You can't
- 23 sit on the sidelines and opt-out of your obligation and
- 24 responsibility to help the process because you've got
- 25 record levels of invention that's being filed in the

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1 form of patents.
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- What you need is the ability to codify what you
- 3 know so that prior art can be identified and recognized.
- 4 A lot of the problem has been identifying prior art
- 5 because of the challenges associated with particularly
- 6 our patent examination process and the limitations of
- 7 time, and the employee churn rate, so we have a lot of
- 8 issues to deal with, but it's not about looking to
- 9 Washington to solve the problems or looking to the EPO
- 10 to solve their problems.
- 11 It's the community getting involved, take bad
- 12 patents out, find prior art, request re-exams patent
- applications that are in the clear, that you can
- 14 actually see, contribute by identifying prior art that's
- 15 relevant so that bad applications don't get granted,
- help to raise the qualitative level.
- 17 There's a see change going on and we need to
- 18 actually start to infuse the notion that this is -- as
- 19 young inventors come into companies, that this again is
- their obligation. It's not just invention for that
- 21 company. It's ensuring that other assets don't come
- 22 into the fray that can be used negatively by alternative
- 23 business models like troll models.
- MS. MICHEL: Jim?
- MR. MALACKOWSKI: Can I take a little bit of a

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1 counter point of view on the court system and patent
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- 2 reform? In my experience base, as having been an expert
- 3 witness on damages for 20 years and testified at 30 jury
- 4 trials and worked on hundreds of matters, I think the
- 5 court system does a pretty good job.
- I think if you look at the aggregate damage
- 7 awards for patent infringement during a year and you sum
- 8 them together, are we talking a billion or two? How
- 9 important are patents to our economy, and if there is a
- 10 tax of a billion or two, let's say that half of that is
- 11 completely bogus? So there's a billion dollars a year
- 12 that's flushed away? Look at the opposite contribution.
- 13 It's not that significant.
- In the cases where I've testified as an expert,
- and clearly I have worked for one side versus the other,
- 16 but I get to sit, listen to the evidence and see what
- 17 the collective wisdom of 6 to 12 individuals comes back.
- 18 You know what, they don't always come back with my
- opinion, but most of the time, in fact all the time they
- 20 pretty much got it right. They pretty much understood
- 21 the balance.
- MR. BERGELT: I think you're underestimating the
- 23 costs though, Jim, when you think about Laura's point,
- 24 the opportunity costs that are lost as well as the fees.
- 25 The fees are where all the costs go, not into damages.

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1
              MR. MALACKOWSKI: So I accept that, and so how
 2
      do you deal with the fee issue? I go back to the way
 3
      the market is emerging either through more sophisticated
 4
      diligence before they bring an action through policies
 5
      like Google that are trying to address and put in equal
 6
      risk on the plaintiffs on the fee issue, so let the
 7
     market adapt.
              Again we're just talking about a transition
 8
 9
      that's only 10 to 15 years old of this complete
      inversion of our economy. We can't go and start
10
      tweaking with all of the laws and the rules to try to
11
12
      fix it as it's maturing. It's a teenager. Let it grow.
13
              MR. BERGELT: I still think we have the issue of
14
      prior art, which is an ongoing problem, and if you
15
      have -- you don't have any institutional memory to speak
16
      of in our Patent Office. You've got incredibly high
17
      employee churn rate, limited knowledgeability. These
18
      are issues that need to be addressed institutionally.
                                                             So,
19
      reform is necessary.
20
             Maybe I'll accept your point on the judicial
21
             I think a lot of proactive decisions have
22
      actually been rendered in the last three years, but I
23
      think we do need legislative reform on some level, and
      we do need institutional reform of the Patent and
24
25
      Trademark Office to keep up with the process so that
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1 we're not just rubber stamping applications that come
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- 2 through, and then creating the need for things like RPX
- 3 which generally takes a lot of troubling assets off the
- 4 table that are what I'll consider to be one thin claim
- 5 assets.
- 6 MR. MALACKOWSKI: I don't know if we should keep
- 7 going.
- 8 MR. HOFFMAN: This is the most interesting part
- 9 of the conversation.
- MS. MICHEL: Please do.
- MR. MALACKOWSKI: So I would have a couple of
- 12 responses to that. One is my view is the Patent Office
- is a rapidly growing organization. Look at the number
- of applications that have been filed over the last five
- 15 to ten years, and it is also, I don't want to say
- 16 burden -- it is a government organization, right, so it
- 17 has growth restrictions that are different than if it
- 18 were IBM. It too just needs to evolve and grow.
- There was a study that we published in *LES*
- 20 Nouvelles, which is the LES trade publication on patent
- 21 quality over time, and our conclusion was if you measure
- 22 patent quality by the content of the prior art citations
- 23 and a number of other variables that all lead to whether
- these patents are likely to be maintained our abandoned,
- 25 patent quality has not diminished. In fact, it's

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1 slightly trended up.
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- 2 My final point on the prior art comment is
- 3 imagine how it used to be where patent agents had to go
- 4 look through a library or a box of files to find art.
- 5 Today Google alone will give you a global access to
- 6 possibilities that never existed, and you mentioned
- 7 PatentFreedom, and there are other organizations that
- 8 are now out there attempting to assist the market in
- 9 identifying and discovering those issues so that better
- 10 patents are issued.
- MS. MICHEL: Steve?
- 12 MR. HOFFMAN: I'm kind of the new kid on the
- 13 block compared to this panel, and it's actually very
- 14 interesting. I'm learning a lot today, but one of the
- things that amazes me about this industry, and I think
- 16 this conversation reinforces it, there is an amazing
- amount of emotionalism in this industry and in this
- 18 conference, particularly when it relates to NPEs or
- 19 trolls or whatever you want to call them these days, and
- so Paul, I think rightfully, talks about the service he's
- 21 providing to small inventors.
- To me, I'm missing the point. I guess I'm going
- 23 to make myself unpopular with the entire panel. I'm
- 24 missing the point, which is to me if you own an asset,
- it comes with rights, and in the case of patents it

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1 might be negative rights, but it comes with rights, and
```

- 2 however you came to own the asset, whether you invented
- 3 it yourself, whether you purchased it from another
- 4 company as part of an acquisition, whether you just
- 5 purchased the patent outright, you have rights to -- you
- 6 have the right to benefit from what comes along with
- 7 that patent.
- 8 And that seems to be lost in a lot of conversations
- 9 where trolls are evils. Trolls are not evil. Trolls are
- doing good for society. Trolls are doing bad for society.
- I think that getting to closure on this and making any
- 12 progress in terms of the patent system is going to be
- extraordinarily difficult as long as a lot of the
- conversations are driven by emotional perspectives
- 15 rather than I think economic or legal perspectives.
- I observe -- of all of industries I've ever been in my
- career, this is by far the most emotionally driven
- industry that I've ever seen.
- MS. MICHEL: I think that's true, although I
- 20 want to command or panel for actually I think having a
- very intellectual and economically based conversation
- 22 today, in spite of some of the dialogue that occurs out
- there in the world. Marcus?
- 24 MR. DELGADO: To your point about emotionalism,
- 25 I agree. I think that the reason patent cases -- patent

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1 cases in general can get very emotional, and I think the
```

- 2 reason is that accusation of patent infringement is one
- 3 of theft, and it is not like another commercial type of
- 4 transaction or accusation, yeah, you breached this
- 5 contract. Oh, we have ways to deal with that.
- With patent infringement, you're basically
- 7 saying, you stole my idea, and therefore your people --
- 8 they didn't innovate anything, and so that's one of the
- 9 reasons why I think it tends to get kind of emotional,
- 10 and I agree. I think we're keeping it kind of above the
- 11 fray, so that's good.
- I also agree that there really shouldn't
- be a distinction between NPE/troll versus someone else
- 14 who obtains the assets. My concern is that in
- 15 litigation I don't think that the differences in the
- organizations are really recognized and that the burdens
- 17 placed on the different companies are recognized, and so
- 18 that's my other concern.
- 19 And then, Jim, to your point about the market
- 20 adapting, I think that the market will ultimately adapt,
- 21 but right now I don't know what the incentive is for the
- 22 market to adapt. I mean, if I go and acquire patents
- and I know that it costs you X amount of money to
- litigate it and that the discovery burden will be X and
- I acquired it for A, there is my business model.

```
1
      That's my -- that's what the market is.
 2
              There's no incentive for me to go do any further
      due diligence and if I know, for example, that in a
 3
 4
      particular venue, 75 percent of the time juries will
 5
      award -- will have a damages award greater than X amount,
 6
      that's all I need to know, and so the market doesn't
 7
      need to be more sophisticated, and as a result you have
      all of these cases that have arisen, but I do think that
 8
 9
      it will become more sophisticated over time, and I hope
      it does progress.
10
              MS. MICHEL: Are there changes to the legal
11
12
      system or to any particular legislative changes that
      might help lower the cost of patent litigation?
13
      seems to be something of a systemic error in a well
14
15
      functioning market. Tracey, any thoughts on that?
16
              MR. THOMAS: Yeah, I'll address that kind of
17
      indirectly. One is with respect to litigation from our
18
      perspective, once you're in the court system, you've
19
      lost, if you're in the IP revenue monetizing business
20
      because litigation is not efficient. It may be
21
      necessary and it may be there to stay, but it's
22
      certainly not efficient.
```

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mode, and I don't mean suing people, we've never

degree you are able to be in a more proactive licensing

One thing I would like to say though is to the

23

24

25

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1 actually sued anyone at American Express, and we
```

- 2 certainly don't have the NPE problems that a Microsoft
- 3 or an IBM have, but at the end of the day to the degree
- 4 that we find ourselves more in a proactive licensing
- 5 mode, you find a number of things happening. One is
- 6 your own patent filings become more focused because you
- 7 know what's valuable to you and what's not.
- 8 You find that your diligence becomes better in
- 9 terms of third-party clearances and other issues because
- 10 you know what's important to you and what's really more
- 11 valuable to you, and to some degree we believe, and I
- think some other companies do too, that to the degree
- you're able to extract value from your intellectual
- 14 property, you become smarter about how to diligence some
- of these third-party issues and how to address them by
- 16 being proactive in your own filings.
- I didn't answer your question. I almost feel
- 18 that no level of jiggling the patent laws is going to
- 19 solve the litigation issues. The better stance for me
- 20 is to stay out of the litigation, if you can. Easier
- 21 said than done, I understand.
- 22 MS. MICHEL: All right. Paul, and also I would
- 23 be interested if any panelists have reactions to whether
- 24 a loser pays litigation system would -- what kind of
- 25 effect that would have. Paul?

```
1
              MR. RYAN: Certainly from the perspective of
 2
      small companies and individual inventors, the litigation
      issue is hard to believe for maybe some large companies,
 3
 4
      it's a bigger issue for them. They want to invent and
 5
      innovate. They don't want to be in court with huge
      companies with multi-million dollars bills. That's the
 6
 7
      last place they want to be, and I think the attitudes --
      really a lot of it is an attitude.
 8
 9
              If there's a willingness to sit down and
      negotiate, deals can get done, and I think when people
10
      start talking about, quote, dangerous patents, what does
11
12
      that mean, or companies like Google start saying, we
      don't care whose patents we infringe, we're going take
13
14
      you take to the Supreme Court. It's not a good
15
      attitude.
16
                In terms of licensing and respecting other
17
      people's intellectual property, I doubt they would want
18
      people to do that with their underlying intellectual
19
      property. I think certainly anyway we can improve the
20
      judicial system, the expediency, specialized courts that
21
      can move more quickly, I think the biggest issue is
22
      time.
23
              Many young innovative companies now have watched
24
      their brethren be dragged through the courts for five or
25
      ten years and gone bankrupt. Our testimonial sitting
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1 outside will attest to that, and large companies can
```

- 2 play hardball. They do have lots of money and they can
- 3 outlast small companies, so I think anything that would
- 4 make the judicial system more efficient would be
- 5 encouraged and would be beneficial to the small
- 6 entities.
- 7 MS. MICHEL: Keith?
- 8 MR. BERGELT: I just had a small response to
- 9 Paul.
- 10 I think there's a
- 11 fundamental assumption in what you're saying, that these
- 12 patents are valid and have substantive claims, and I
- think the system allows for one thin claim to support
- litigation, and to make the litigation go away, which is
- 15 the normal, ultimate response to avoid going forward
- with litigation or to eliminate litigation rearing its
- 17 head, the bar has been lowered so that reform is needed
- 18 to allow for requisite substance to support these
- 19 litigants.
- 20 So that the actions are not -- so one IP
- 21 aggregator that acts like a troll doesn't have 30 or 40
- lawsuits going concurrently and is in the business of
- 23 litigation avoidance payments. We need to get to the
- 24 point where we're actually look at substantive lawsuits
- 25 based on real value that's being conveyed.

```
1
              We talk about this enabling model. We have to
 2
      have something that we're enabling, not one thin claim
      to meet sufficiency standards that are so low right now
 3
 4
      that there is no bar for litigation to occur.
 5
              MS. MICHEL:
                           Jim?
              MR. MALACKOWSKI: So I have a thought exercise
 6
 7
      for discussion purposes only. This is not necessarily
      my point of view. We have talked about the fact that
 8
 9
      the litigated awards have totaled maybe not that
      significant but it's the frictional cost of the
10
      litigation itself. I would propose as an exercise,
11
12
      that's okay, let litigation be expensive, because I
      don't know that you want to encourage or that we would
13
      be all happy if an inventor knocked on your door and you
14
15
      can snap your fingers and you would be in front of a
16
      jury tomorrow.
17
              I think let the market become a more efficient
18
      way to transact intellectual property rights and leave
19
      litigation to be a painful last solution for everyone.
20
              MR. DELGADO: Yeah, I think that may work, but I
21
      think that the problem is there is a disparity between
22
      the costs on both sides, particularly when you have
23
      contingent fee attorneys on one side of the equation, so
24
      there's essentially zero cost for someone to bring a
25
      case and millions of dollars for the other company, but
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1
      I do generally think that may work.
 2
              To the question about what types of reforms
      would be helpful, I would say I think there are many but
 3
 4
      I would bring up a couple. One is one we've
 5
      already touched upon, which is the valuation issue that
      the courts can't seem to really resolve. We've had a
 6
 7
      special appellate court just for patents and they have
      not been able to resolve this issue. Chief Judge Michel
 8
      mentioned this recently and said that we need to figure
 9
      out a way to value these things or we're going to have a
10
     problem.
11
12
              The other issue that we face involves
      use-based damages and the fact that we receive a lot of
13
     products from vendors and vendors sell us products and
14
15
      we use those products out in providing services to
      subscribers. They also provide indemnity obligations
16
17
      to us, so when we get sued, the vendor now is in the
18
      position of defending us. But, they're defending us on a
19
      use based model that involves how much the product is
20
      used versus the model that they expected when they sold
      us the product, which is, "Well, we sold it to you, it
21
22
      cost this much we know how much that cost."
23
              And so I think it would be nice if we could get
24
      some resolution about what's the proper model here, and
```

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I think the ultimate cost to the vendor is pretty high

25

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1 and may actually result in less innovation. They may
```

- 2 not want -- it's too expensive for them to produce this
- 3 piece of equipment if they're dealing with a use based
- 4 model ultimately, so I just think that's an issue that
- 5 would be nice if we could resolve.
- 6 MS. MICHEL: So that's an issue of patent
- 7 damages and how to identify what you're going to apply
- 8 for instance a reasonable royalty damage to as a base.
- 9 MR. DELGADO: Right, right.
- MS. MICHEL: Okay. Laura?
- MS. QUATELA: I guess for the record I want to
- agree with Jim's view, that lowering the barriers to
- 13 litigation is probably not the direction that we need to
- 14 go in. Giving only one example of the distractions we've
- 15 been describing here today, imagine how much worse it gets
- 16 if everybody can be in litigation all the time, and
- innovation falls by the wayside at that point.
- 18 MS. MICHEL: All right. So you lower the cost
- 19 to one side, you have lowered the cost to both sides, so
- it cuts both ways?
- MS. QUATELA: Right.
- MS. MICHEL: Any reactions to a proposal to have
- 23 a loser pay system in patent litigation, loser pays both
- 24 sides attorneys' fees? Anybody support or deny that or
- 25 reject that idea? It looks like we don't have too many

```
1
      thoughts on that.
 2
              MR. DELGADO: Yeah, I don't think you'll get a
      lot of support for that. I think it sounds -- it sounds
 3
      good in that people will only -- people with really
 4
 5
      meritorious claims will bring these actions, but I think
      it will -- it probably would limit a lot of small
 6
 7
      inventors from ever bothering to innovate in the first
      place, and I don't think it will get a lot of traction.
 8
 9
              MS. MICHEL:
                           The idea of transparency, someone
      mentioned earlier that it's sometimes difficult to tell
10
      what, for example, Intellectual Ventures owns although
11
12
      the question is not meant to be directed at any one
      company. Is there a problem with transparency in the
13
      sense of who owns what as a first level? Steve?
14
15
              MR. HOFFMAN: Yeah, I think it's
16
      straightforward. The definition it makes the markets a
17
      lot less efficient than they would otherwise be, and I
18
      don't blame IV for not wanting the world to know what
19
      they own, but the more information there is about who
20
      owns what, what transactions occur and what pricing
21
      occurs in transactions, a lot of problems we're talking
22
      about today become a lot more manageable.
23
              I don't think that there's a solution to that,
24
      however, because I don't think it is appropriate or
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possible to force a company like IV to share the 20,000

25

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1 plus assets that they have. It's not in their interest
```

- 2 to do so, and I can't imagine why they would agree to do
- 3 so , but there's clearly some inefficiencies in the
- 4 market because of that, and that's not good.
- 5 MS. MICHEL: Jim?
- 6 MR. MALACKOWSKI: The other transparency that
- 7 we've thought a lot about relates to the marketing
- 8 issue, and for those of you who have seen the Patent
- 9 Reform Bill that's come out of committee, it has a
- 10 provision allowing internet based marketing and because
- 11 today it's really not practical to put patent numbers on
- 12 products or brochures when those products contain
- hundreds or perhaps even thousands of patents.
- 14 And from our perspective, getting that
- 15 information to the market so that the market can
- understand, one, which patents are being frequently
- used, either by large sales volume of their owner or by
- 18 a broad licensing model, and two, just how many patents
- 19 it sometimes takes to put a product to the market, such
- as a PDA, for example, and so that triers of fact will
- get an appreciation that, yes, this may be a good
- 22 invention, but it's one of a thousand that are needed to
- 23 manufacture this product, so I think that
- 24 transparency will help a great deal.
- MS. MICHEL: Any reaction to a proposal that

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1 would require a registration with the Patent Office just
```

- 2 even who owns the patent, the true party in interest
- 3 rather than the shell company having some kind of
- 4 registry of that information, and then beyond that, any
- 5 reactions as another level there have been proposals to
- 6 actually record even the terms of the transaction? Why
- 7 or why not would that be a good idea, bad idea, even
- 8 possible?
- 9 MR. MALACKOWSKI: I'll start with a comment in
- 10 that I don't know that having identity shielded, whether
- it be by an aggregator or in fact the manufacturing
- 12 concern is really that big of an issue or a problem.
- 13 It's a curiosity, but there are legitimate business
- reasons for an operating company to not necessarily
- assign its patents to its brand names.
- They're developing technologies in areas that
- 17 they won't want their competitors to realize. Perhaps
- 18 the inventor name will give that away anyways, but if
- they want to try to protect that as strategy, they
- 20 should have the right to do so.
- MR. HOFFMAN: To the second half of your
- 22 question, I should think it would hurt the market. I
- think it would make the market a lot less transparent,
- 24 certainly a lot less efficient if companies had to
- 25 reveal what they were buying and selling and what the

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1 terms were.
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- I think a lot of the transactions that occur not
- 3 in the auction but -- in private action are between
- 4 buyers and sellers that do not want the public to be
- 5 aware or the competitor to be aware of what they are
- 6 actually doing, and I think you would actually slow down
- 7 the market. You would make it a lot less efficient.
- 8 You would make the reallocation of capital, which is
- 9 what this is all about, happen a lot more efficiently if
- 10 you force companies to go public. I think there would
- 11 be far fewer transaction under that circumstances.
- MS. MICHEL: Can you spin that out why they
- don't want others to know?
- 14 MR. HOFFMAN: I think the basic reason is that
- 15 when you sell patents, you're actually making a comment
- about the strategy of the company, that you're no longer
- 17 interested in this business or that it's become less
- 18 valuable. When you buy patents, you're making comments
- 19 about what you plan on doing in the future, and I think
- 20 that kind of strategic information is something that
- 21 companies are loath to have public and will not share,
- 22 and, I think, if they're forced to make that information
- 23 public, they will transact less frequently, and I think
- that will damage the efficiency of the market.
- MS. MICHEL: Okay.

```
1
              MR. HOFFMAN: It's just about keeping strategic
 2
      secrets.
 3
              MS. MICHEL:
                           Keith?
 4
              MR. BERGELT: Public companies, I think the area
 5
      where protection is needed and where there are already
 6
      build in materiality clauses in terms of requirements
 7
      from the SEC, anything that's material has to be
      reported, so if there's a settlement, if there's a
 8
      windfall, the revenue source or the outflow source has
 9
      to be provided so that public company investors are
10
      protected which is really the public policy argument to
11
12
      be served, and I think that has the -- that's the
      overarching argument for me.
13
              MS. MICHEL: Marcus?
14
15
              MR. DELGADO: I would say in litigation, there
      could be more transparency, and this should probably be
16
17
      clarified, with respect to what an NPE paid for a
18
      particular asset and what settlements were reached, and
19
      I think there are a couple of policy issues here.
20
              One is if that's known, the court can use it to
21
      determine whether or not this is a fair demand that's
22
      being asked by the NPE, and then the second is that many
23
      companies -- their business is litigation. They've
24
      gone into the business of essentially litigating, and so
25
      why isn't it fair to ask: Well what other settlements
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1 have you reached in litigation?
```

- 2 MS. MICHEL: Can you get that through discovery?
- MR. DELGADO: Usually not. Usually you can't
- 4 get it through discovery. Courts will tell you that
- 5 that's not -- that evidence isn't relevant here or won't
- 6 allow it.
- 7 MR. MALACKOWSKI: Or in many cases you can get
- 8 it through discovery, but your experts aren't allowed to
- 9 rely upon it anyway.
- 10 MR. DELGADO: Right. Can't rely on it. Correct.
- 11 MR. BERGELT: The facts are different enough that
- 12 it gets back to the whole issue of valuation: Are
- you comparing apples to appeals because very often it's not
- just the same thing that you're looking for, especially if
- 15 you're a large company. You may be looking for some in
- 16 kind value. You may be looking for market access.
- You may be looking for other technology to come in.
- 18 You may be looking for some other agreement, and
- 19 you're utilizing your patent portfolio for different
- 20 purposes with different targets.
- 21 MR. HOFFMAN: Can I ask why what they pay for
- 22 the asset is relevant as opposed to what the value of
- the asset is and what the value is to the party using
- 24 the invention? Why does how much the NPE paid for the
- asset matter in the interest in the court's decision in

```
1
      your opinion?
 2
              MR. DELGADO: Because it should be evidence of
 3
      perhaps what I should pay. It's evidence of what
 4
      someone paid for it in the marketplace, which is I
 5
      assume somewhat relevant to valuation, and so therefore
      if you're making a demand upon me, I should probably
 6
 7
      know that and have that information just from a
      valuation standpoint.
 8
              I mean, presumably two people -- an arms length
 9
      transaction in the marketplace, someone purchased it,
10
      that would seem to me to be relevant.
11
12
              MS. MICHEL: Laura?
              MS. OUATELA: I think Keith mentioned it earlier
13
      but I think this is one of the reasons that initiatives
14
15
      like PatentFreedom are getting traction where private
      initiatives are attempting to discern this information
16
17
      where it can't readily be found through discovery.
18
      That's one point.
19
              Point two is -- what is point two?
```

transparency issue. I think that we have embraced as a society the need for confidentiality in M&A transactions, and increasingly in my experience, whereas IP used to be on the fourth or fifth page of the due diligence as a concern in M&A, it's now the driver of a transaction, and so to increase transparency around

```
1 what companies are doing in the IP space means you no
```

- 2 longer enjoy the confidentiality of your strategies or
- 3 tactics and your competitive plans, so I really am
- 4 fearful of any regulatory push to increase transparency
- 5 in that regard.
- 6 MS. MICHEL: Tracey?
- 7 MR. THOMAS: Yeah, I don't think transparency
- 8 around specific buyers and sellers and their terms is as
- 9 critical as the need to have better ways to aggregate
- 10 the information. I'm a big believer that the more
- 11 aggregate information we have will allow us to make
- better decisions, to better benchmarking as we go
- through the monetization process around intellectual
- 14 property.
- 15 So I don't think the specific transparency
- around specific deals is that critical, but we do need
- better mechanisms for aggregating information about
- 18 deals and transactions.
- 19 MS. MICHEL: What kind of information do you
- want to aggregate and do you have any suggestions of any
- 21 mechanisms?
- 22 MR. THOMAS: That's a great question. I look at
- 23 it from two perspectives primarily. One is even having
- 24 information so that you can make internal decisions, how
- do companies make specific decisions about how they were

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1 going to transact around intellectual property, and
```

- 2 that's not what we're talking about here, but that type
- 3 of information is very critical.
- 4 One of the biggest barriers to leveraging
- 5 intellectual property in many companies is just how do
- 6 you sell it internally to your business, your finance,
- 7 your legal people. One of the biggest things we come up
- 8 against all the time is brand issues, and then at the
- 9 macro level, clearly having aggregate information just
- about what patents are worth, thanks to auctions like
- Jim's in general, just having that type of data allows
- 12 you to make better decisions.
- So I look at it at a micro level or internally
- 14 in the company. We need better information about those
- 15 processes and what's happening internally, and then also
- 16 with respect to issues like valuation it's going to be
- 17 critical.
- 18 MR. MALACKOWSKI: So it's interesting. If you
- 19 go to our web site and you search, you can find a sale
- 20 price of every patent ever sold at auction. As I speak
- 21 around the country, I've always made this open offer to
- 22 others in the room, corporates or NPEs or the like, send
- 23 us the data of what you sold or bought for, and we'll
- 24 publish it. I've not gotten a single submission.
- MS. MICHEL: Marcus, do you have a comment?

```
1
              MR. DELGADO: No, I'm sorry.
 2
              MS. MICHEL: Any other ideas on what information
      would be useful to have and what mechanisms to get it?
 3
 4
      Should it be a government regulatory mechanism or are
 5
      you suggesting something else like the market bring the
      information forth? Tracey?
 6
 7
              MR. THOMAS: I'm going to be biased here.
      talked in the beginning about an IP zone that we were
 8
      working to create. When we recognized that there wasn't
 9
      an efficient marketplace to get the type of information
10
      that we need, so a big part of this zone will hopefully
11
12
      be the collection of information.
13
              Now, companies will have to be willing to do
14
      that so they're going to have to see value on the other
15
      end, and that is in the exploitation of the intellectual
      property. At the end of the day, I don't know if
16
17
      government regulation is the right way to do it. I
18
      think you're going to have to find willing participants
19
      who have an economic incentive to do it.
20
              That is, we'll get smarter about doing
21
      transactions if we participate in this, and there's a
22
      trusted source where we know our significant information
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MS. QUATELA: Well, I think that the market is

won't be revealed to the public.

MS. MICHEL: Laura?

23

24

25

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doing a good job of bringing these tools to bear. I
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- 2 think Jim has been a visionary leader in that regard.
- 3 As I said he's got PatentFreedom. The new Stanford
- 4 database is a wonderful collection of very very useful
- 5 information, the types of initiatives that Tracey
- 6 mentioned. I think all of that is happening is
- 7 actually quite exciting, so I personally don't see the
- 8 need for government regulation so much as just continue
- 9 creativity in the marketplace.
- 10 MR. HOFFMAN: Just to temper that with some real
- 11 data, so PatentFreedom is a great company.
- 12 PatentFreedom has two basic objectives. One is to share
- data with operating companies about who these NPEs are
- 14 and their shell organizations and who owns what, and I
- think it's very valuable in that respect.
- The other objective of PatentFreedom though was
- to create essentially an online community where
- 18 operating companies who were threatened by the NPEs
- 19 could share data with one another, and so they could at
- least understand whether they were alone or whether
- 21 there were other people dealing with the same issues and
- learn from one another.
- 23 Most of the members of PatentFreedom have taken
- 24 advantage of the first part, the data about who these
- NPEs are. Almost none of them have actually shared

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1 information, even on a confidential basis, about what
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- 2 their own experiences were, and so I think that the kind
- 3 of data that Tracey and Laura are looking for I think
- 4 it's incredibly important.
- I just don't see operating companies on their
- 6 own sharing that kind of information. This is too
- 7 proprietary, and PatentFreedom I think is just one data
- 8 point where it's an easy confidential mechanism for
- 9 sharing this kind of information, and nobody is taking
- 10 advantage of it, at least in the current history of
- 11 PatentFreedom, or most of the members.
- 12 MR. BERGELT: It's facilitated informal dialogue
- between members, and even though you don't post
- information, because we're a member, we still will reach
- out to other members and coordinate.
- MS. QUATELA: And it's launched even more
- 17 initiatives. There are a lot of underground
- 18 conversations going on among groups of companies to
- 19 start this data sharing. Maybe it's not ready for prime
- time yet or the light of day yet, but that is happening.
- 21 MR. THOMAS: I think if there are economic
- incentives behind it, right, so by the end of the day by
- 23 sharing this information, we'll be better able to
- 24 exploit our intellectual property. I think that's the
- 25 process that it's going to have to take. And then you

```
1
      can genericize the information.
 2
              That's when I speak of the information in the
 3
      aggregate to figure -- cumulative information can be
 4
      very powerful in discerning trends and opportunities,
 5
      and so I wouldn't discount that. You don't actually
      have to know that American Express sold patent A for X
 6
 7
      dollars. In fact that's not going to be that valuable
      because that patent is inherently unique, so it's not
 8
 9
      really going to tell you that much about the other
     millions of patents that are out there, but the
10
      cumulative trending I think would be very valuable.
11
12
              MS. MICHEL: Laura?
              MS. QUATELA: Well, Tracey touched on it but
13
14
      along with this sort of private data sharing comes a
15
      private market, so there is I think a remarkably
16
      increased sharing among companies with like interests in
17
      the patent space of their own IP for whatever reason.
18
      You become familiar with what one of your colleagues in
19
      the PatentFreedom or somewhere else is interested in,
```

MS. MICHEL: Okay. Tracey mentioned cumulative genericized data in the aggregate. Is there any role for government to just collect and aggregate information? Laura, I used scared you by using the word regulate. I

and you call them up first when you have something to

20

21

sell.

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1 didn't mean to. Tracey?
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- 2 MR. THOMAS: There's always a role for
- 3 government, but I think what you'll find is from the
- 4 efficiency standpoint, I just happen to believe that
- 5 private entities with an economic incentive will
- 6 probably do a better job of it just because they have
- 7 more resources, not because the government can't do it,
- 8 but that's my personal feeling.
- 9 MS. MICHEL: Laura.
- 10 MS. QUATELA: And academia.
- MS. MICHEL: Okay.
- MS. QUATELA: Certainly is playing an increased
- 13 role, as for example the Stanford tool.
- 14 MS. MICHEL: That gives us a good seque until
- 15 the afternoon. We have an academic panel this
- 16 afternoon.
- We've been talking about this patent market
- which I think you could have listened to this
- 19 conversation as if individual patents were being bought
- and sold.
- 21 How often is that the case versus huge entire
- 22 portfolios being bought and sold in one fell swoop, and
- 23 how does that effect the operation of these markets and
- 24 why is it? Is it happening? Why is it happening?
- 25 What's the value of a portfolio versus the value of an

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1 individual patent that drives companies to accumulate
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- 2 portfolios?
- I'm throwing out a lot of questions at once only
- 4 to try to understand better the role of portfolios in
- 5 this market. Jim?
- 6 MR. MALACKOWSKI: I would think you've described
- 7 both ends of the spectrum. On the one hand, you have
- 8 the individual asset. On the other hand you have the
- 9 entire collection but what the market is doing with most
- of the time are what we call families.
- 11 So a particular inventive technology that may
- have a number of U.S. international patents and
- applications that all go together collectively and are
- transferred as a group, and the reason you need that is
- 15 clearly if you bought one member of that family but
- didn't own rights to the rest, you have a very limited
- 17 right.
- To date I don't think that the market is yet
- 19 efficient enough to extract full value or anything close
- 20 to full value if you start to sell entire portfolios of
- 21 tens of thousand of patents.
- MR. BERGELT: You also want applications in your
- family because that gives you extendibility, so when you
- buy a naked asset, if it's -- basically there is no
- ability to extend and leverage it. It's far less

```
1
      valuable and it doesn't offer the protection against
 2
      picket fence strategies and other kinds of nefarious
 3
      approaches to attacking your patent, which may be
 4
      underway at the time you purchase it, and you may be
 5
      unaware of that.
              So I think it's important that up until now
 7
      where we've had family strategies that are rather
      traditional, it's very important to try to buy families,
 8
      and there's more value to smart buyers of families
 9
      typically, but in the future what we can expect to see
10
      are fewer patents and more hybridized family development
11
12
      where you have a core patent and then contemporaneous
      with that you have a series of defensive publications
13
14
      wrapped around core patents that give you the same
15
      protection levels at a far lower cost.
16
              And in that case the core patent will, five
17
      years from now, ten years from now, sit on its own if
18
      it's not supporting products or services in the market
19
      that that company has, and they look to jettison it.
20
      You'll have the same protections, but you'll still be
21
      buying only one asset, so it's an interesting shift that
22
      we're in the middle of now, but many of the leading
23
      companies and industry, particularly in tech, are
24
      shifting away from pure play family development, and
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they're shifting towards these hybridized approaches

25

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1 which are more cost effective utilizing defensive
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- 2 publications.
- 3 MS. MICHEL: Steve?
- 4 MR. HOFFMAN: I agree with both Jim's and
- 5 Keith's comments, but one other thing, there's just
- 6 purely a process of trying to get rid of some of your
- 7 less good patents by bundling them with one or two
- 8 really good patents. There's nothing wrong with it.
- 9 There's nothing cynical about that, but that's the way
- 10 companies can sell bad patents right now. You cannot
- 11 sell anything other than really good patents, so the
- only way to get rid of your less good patents, without
- being pejorative, is to bundle them with a couple of
- 14 very good patents.
- 15 MS. MICHEL: Is the value of that group the
- value of the one good patent or are you throwing in the
- 17 bad patents?
- 18 MR. HOFFMAN; I wouldn't say 100 percent, but I
- 19 would say maybe 80 to 90 percent is the value of the
- 20 good patents in the group. Obviously every sale is
- 21 unique but it's driven by the value of the really good
- 22 patents in the group.
- MR. BERGELT: They can all be good, but I think
- 24 a better term is fundamental, where the fundamental
- invention is where, to Steve's point, that's where the

```
value is, and then you get the block and tackling of the family development, but universities -- you can talk to
```

- 3 somebody else, but universities are also an important
- 4 area and government can do a lot there because Bayh-Dole
- 5 is an obstacle to universities wanting to dump
- 6 significant numbers of patents.
- 7 But because of overarching concerns around
- 8 running afoul of future funding from government, they
- 9 don't have a vehicle to sell so they have to utilize
- 10 awkward, cumbersome mechanisms such as exclusive license
- 11 with a right to sub-license largely with trolls, and so
- Bayh-Dole is essentially a problem to the extent that a
- 13 lot of universities thought that they could replicate
- 14 what Stanford did in the '90s, complete failure.
- There are dozen of universities who are holding
- on to assets that they would love to jettison but they
- don't want to abandon them because that's basically the
- 18 equivalent of an indication of complete failure. They
- 19 would like to get returns, but they're stuck in between
- 20 because Bayh-Dole restricts you from selling only to
- 21 patent management organizations, and there's no
- 22 definitional work in terms of what a patent management
- 23 organization is.
- So that's a Washington issue that would help
- 25 universities and help the secondary market because there

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1 are literally tens of thousands of patents trapped
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- 2 inside American universities.
- 3 MS. MICHEL: All right. Steve, when you said
- 4 fundamental patents, were you thinking those patents
- 5 that can't be designed around, those patents of
- 6 invalidity?
- 7 MR. HOFFMAN: Keith said fundamental. I did not.
- 8 I agree fundamental is one of the ways that you can take
- 9 some valuable patents and package some less valuable
- ones around them. When I said good patents, I'm
- 11 thinking about the non operating company buyers, and
- what they're going to look at in terms of buying a
- patent is a patent that is defensible in litigation that
- 14 will withstand reexamination, if that's the tactic the
- 15 defensive party takes.
- So I'm looking at -- when we're talking about
- selling a patent to a non-operating entity, their
- 18 valuation of quality is in terms of litigation quality
- and defensibility, not whether it's, quote, fundamental.
- 20 I'm not trying to justify their behavior, understand me,
- 21 but that's the way they look at a patent in terms of is
- 22 it a good patent, is it a valuable patent.
- MR. BERGELT: Good enough.
- MS. MICHEL: Is that a validity issue or a
- design around issue or both?

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1
              MR. HOFFMAN: It's all of the above plus it's
 2
      the size of the market that potentially applies to the
               It's how well constructed the claims are, will
 3
      patent.
 4
      they survive litigation, will they survive
 5
      reexamination? So there's a set of criteria in terms of
      the value patent, but it has to do with essentially how
 6
 7
      effective will they be in an assertion strategy? How
      likely am I to generate either damages or royalties
 8
 9
      if I assert these patents and how big is the market?
10
              MS. MICHEL: Okay. Jim?
              MR. MALACKOWSKI: So I would like to come back
11
12
      to a comment that Steve's now made twice about the
      notion that it's valid patents or higher quality parents
13
      that are of interest, and if they're not high quality,
14
15
      they're not saleable, and I think he's right.
16
              Whenever you have an emerging market, there's
17
      always some what of a pendulum effect, so when the
18
     patent marketplace developed over the last five years,
19
      we saw a surge in applications first at the PTO, and
20
      maybe a lot of that was driven by the dot.com invention
21
     boom.
22
              Then we saw a surge in acquisition and I think
23
      it was mentioned where any patent in this category,
24
      there was somebody who was out there who had a real
      interest in considering to buy it, and that's changed.
25
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1
              Today, it has to be a patent of very high
 2
      quality, and coincidentally last night we were having a
      conversation at dinner about how the prosecution efforts
 3
 4
      at the PTO have now trended down because owners, both
 5
      for I think that reason, as well as, the economy
      generally, they don't want to pay for and prosecute
 6
 7
      patents that don't have value.
              So that flight to quality that we're seeing
 8
      across the market is again a natural evolution or a
 9
     maturation of what's happening.
10
              MS. MICHEL: Okay. Laura?
11
12
              MS. QUATELA: I think there's a geographic
      aspect to this at all because there's no doubt that in
13
14
      certain geographies, quality is more important and in
15
      others quantity is more important. And, as the pendulum
16
      has swung I think more in the United States, Jim, I
17
      haven't seen it swing too much in Asia where quantity is
18
      still really a supremely important factor in terms of
19
      the size of the portfolio being marketed.
20
              MS. MICHEL: Marcus?
21
              MR. DELGADO: So there are a couple of reasons
22
      that sort of lend themselves to licensing portfolios
23
      rather than a single patent for us. One is that
24
      currently the courts allow you to sue on one patent,
25
      lose and then bring another lawsuit on a related patent,
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1 whether it's substantiated or not.
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- 2 There are no remedies for us to force
- 3 you to bring all of the related patents together in a
- 4 single lawsuit, so if we're going to license we probably
- 5 should license the entire portfolio.
- The second is what I call the schmuck factor,
- 7 which is if I license something from you and we're all
- 8 happy that we did this license and you sue me the next
- 9 day, I look like a schmuck, so it's like I'm not going
- 10 to do that. I can't go to management the next day and
- 11 explain to them, You know the company we just paid X
- million dollars should we're now in litigation with
- 13 them.
- So that also sort of pushes me sort of towards
- more of a portfolio type of license rather than a single
- 16 patent license.
- MS. MICHEL: Okay. How important is this
- 18 quantity versus quality issue? How important is the
- 19 quantity, the size of the portfolio in asserting that
- 20 portfolio against a competitor or a potential licensee?
- 21 Jim talked in the beginning about the big stack of
- 22 patents? Is it really possible to plow through them all
- and do a good assessment and decide which ones you need?
- How does all that play out? Steve?
- MR. HOFFMAN: Just one quick comment which is I

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1 think if you look at Intellectual Ventures, that is
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- 2 their strategy. It is a quantity strategy. Now,
- 3 there's some signs that says they're slowing down their
- 4 acquisition and they're only buying high quality things
- 5 that fill in their existing portfolios, but they have
- 6 definitely adopted a volume strategy with the
- 7 expectation if they come to a company and say, I've got
- 8 300 of them, how much do you want to bet that at least
- 9 one of them is really good that they're going to get
- 10 licensing revenue.
- 11 And so they clearly are betting -- and time will
- tell whether they were right, but they're clearing
- betting on a volume strategy, and they're the biggest
- 14 player in the market.
- 15 MS. MICHEL: What's the ability of the potential
- infringer, a manufacturing company when facing a threat?
- 17 And perhaps it's IBM, not Intellectual Ventures but
- 18 here's my big portfolio, is there any option but to pay?
- 19 How reasonable is it to plow through the 500 patents in
- 20 the portfolio, the 300 that you mentioned and see
- whether they're all necessary? How are companies
- dealing with this problem?
- MR. DELGADO: It's a very expensive endeavor. I
- 24 don't know how else to put it, but it's an expensive
- 25 endeavor and it's probably not an incredibly practical

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one, and so you have got to weigh those costs versus the
```

- 2 cost of licensing and the cost of litigation. I've
- 3 faced that situation where we've had to look at a pretty
- 4 significant portfolio and it just wasn't -- in that
- 5 particular instance it just wasn't practical for us to
- do it so we had to look at other options.
- 7 MS. MICHEL: What other options?
- 8 MR. THOMAS: Well, let's look at the licensing
- 9 cost, let's look at the litigation costs. I don't know
- 10 what else you really can do.
- MS. MICHEL: Laura?
- MS. QUATELA: I think it depends too on whether
- you're dealing with an NPE or if you're dealing with
- another operating company. If you're dealing with
- another operating company and they come to you with an
- 16 expansive portfolio, you're going to look at yours and
- see how big yours is. That's really the conversation.
- 18 With an NPE if you're hit with a variety of
- 19 patent families, the analysis expense is very high, and
- so as we hear, it's sometimes necessary to settle
- 21 because you can't commit the resources to it.
- 22 MS. MICHEL: We've had a couple mentions of case
- law throughout this conversation and the recent changes
- 24 in the courts. Jim mentioned eBay. I think the
- 25 MedImmune issue came up but wasn't discussed. Let's

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1 start with that one.
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- 2 How has MedImmune changed the dynamic in this
- 3 market, I mean, MedImmune and also the STM Electronics
- 4 decision in which it's much easier to bring a
- 5 declaratory judgment action in licensing negotiations?
- 6 Has anyone had direct or indirect experience? Laura?
- 7 MS. QUATELA: For us it's stymied discussion.
- 8 You're absolutely afraid to have a discussion now, which
- 9 is a bad thing I think. I always prefer to have a
- 10 discussion rather than go to court, but if you're
- 11 fearful of having the discussion, it's just --
- MS. MICHEL: So as the patentee you're fearful
- of having a discussion because the potential licensee
- can then bring the DJ action?
- 15 MS. QUATELA: Either way, patentor or patentee.
- 16 There are considerations on both sides, but it really
- makes what used to be a much more free flowing
- 18 conversational type of practice much more litigation
- 19 based.
- MS. MICHEL: What is the concern from the
- 21 potential licensee's point of view?
- 22 MS. QUATELA: From the potential licensee's
- 23 point of view? I quess I defer to Paul on that
- 24 question. I think that the consideration is around how
- you style your approach and how expensive that's going

```
1
      to be.
 2
              MR. RYAN: The biggest impact to us it's driven
     more small companies, universities and research centers
 3
 4
      to us out of fear. If they went out the way they used
 5
      to with a normal proactive licensing program, then
      companies could file against them in multiple districts
 6
7
      and basically be a very expensive proposition, so I
      think it's had that effect on our direct approach.
 8
 9
              We used to always go out and voluntarily enter
      into discussions with companies before filing
10
      litigation, and now we advise our partners who come in,
11
12
      given the risk level, that we not do that so it does
      chill the conversation. It's usually not a great way to
13
14
      start a conversation by filing a lawsuit, but that's
15
      what we've had to transform to, so we try to engage
      companies as quickly as we can saying, sorry, but we had
16
17
      to protect our own interest, but we would very much if,
18
      you would like to, entertain reasonable licensing
19
      discussions.
20
              So we tried to break that barrier down as
21
      quickly as we can but it's normal reaction to anybody,
22
      and I think it gets back to the emotional issues that
23
     Marcus said. If you've been sued it doesn't tend to --
24
      you take it emotionally, and sometimes I think people
```

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25

feel that they're being accused of theft. It may not be

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1 theft. It may just be that you're using somebody else's
```

- 2 property, not that you knew you were using it or took it
- deliberately, but there's somebody else who holds patent
- 4 rights.
- 5 But there's no question that that decision has
- 6 really chilled early stage licensing discussions and
- 7 made the market less efficient. It actually runs up the
- 8 cost because if you're afraid as a small company to even
- 9 have the conversation, then you have to engage legal
- 10 counsel, and now your transaction costs to both
- 11 parties have gone up.
- MS. MICHEL: Any way out of that?
- 13 MR. RYAN: Reverse the decision.
- 14 MS. MICHEL: Does anyone have a suggestion?
- 15 Okay. eBay and the injunction issue, has that changed
- the dynamic and the discussions or the amounts paid?
- 17 Paul?
- 18 MR. RYAN: The biggest effect it's had I think
- is on innovation companies. It really unduly penalizes
- 20 pure innovation companies for no particular reason. If
- you're in the business of purely innovating and know
- 22 that you don't want to market and distribute, then why
- are you penalized for being that innovative company?
- 24 And obviously that leads to compulsory licensing and
- 25 leads to less invention.

```
I think it was -- I don't know how much
 1
 2
      injunctions there really were in the United States?
                                                           Was
 3
      this really a big problem, Jim?
              MR. MALACKOWSKI: I don't believe --
 5
             MR. RYAN: I think it was more of a statement
      about a scorched earth policy than it was to address a
 6
 7
     major problem. I'm not aware of a whole lot of
      injunctions that occurred the last 15 years in the
 8
 9
      United States.
10
             MR. MALACKOWSKI: I don't know if you saw a
      whole lot of injunctions, but clearly the threat of the
11
12
      injunction led to the implicit settlement immediately
13
      after the verdict in virtually every case because it was
      not just about the verdict. It was what's going to
14
15
      happen tomorrow.
16
             MS. QUATELA: It's certainly driven a lot of
17
      litigation towards the ITC, and that trend is clear.
18
             MS. MICHEL: Do you see that trend increasing?
19
             MS. QUATELA: Uh-huh. [Yes.]
20
             MR. DELGADO: I don't know if this is true or
21
      not but I read somewhere that actually the number of
22
      injunctions hasn't gone down significantly. The number
23
      of injunctions that have actually been granted hasn't
24
      decreased significantly. I don't know if that's just a
      report I read somewhere, and I can't substantiate that.
25
```

```
1
 2
              MR. MALACKOWSKI: I think that's because of what
 3
      we were just discussing, that there wasn't a high number
 4
      of injunctions entered per se in the past because the
 5
      cases were settled in the interim of the jury verdict
      and when that would have been entered, but now you're
 6
 7
      starting to see in a number of cases where the judge is
      focusing the financial experts on the
 8
      reasonable royalty for the period of infringement. Now
 9
      we need a second analysis and, in some cases, a distinct
10
      and different analysis of what the compulsory
11
12
      licensing rate should be going forward.
13
              There are a number of cases that are now
14
      explicitly going into that issue.
15
              MS. MICHEL: Any sense of whether eBay has
16
      lowered settlement amounts or lowered licensing amounts
17
      when a non-practicing entity is involved as the patent
18
             Is it too early to tell or do you expect it to
      owner?
19
      have no effect? Jim?
20
              MR. MALACKOWSKI: What I've heard in the market,
21
      and I would echo what was said about the pure innovative
22
      company, it does put them in a difficult situation, but
23
      as far as the NPE, I've heard mixed results. NPEs saying
24
      in part, this is okay because now the court is going to
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help me facilitate a fair license post-trial, where

25

```
1 before I just got into another argument over that
```

- 2 amount.
- 3 So, I don't know that it's made a huge difference
- 4 or the consequence was as intended.
- 5 MS. MICHEL: All right. We're getting near the
- 6 end, so I'll just throw out any other comments about any
- of the other recent important court decisions? There's
- 8 been Seagate on willfulness for instance, Quanta on
- 9 exhaustion, *Bilski* on subject matter patentability?
- 10 Have they had any real effect on how these
- 11 markets are operating and how the evaluation is done or
- 12 are they perhaps more important in a litigation context
- or is it just not coming up? Is that why we're not
- 14 getting an answer and things are going on as they have
- 15 been? Okav. Laura?
- MS. QUATELA: Well, Suzanne, when you and I
- 17 talked, I know that I raised Quanta as a conundrum, and
- 18 what I guess I would say about that is I welcome
- 19 additional, judicial guidance as quickly as possible
- 20 because it's made the prospect of licensing and how to
- 21 conduct a licensing practice rather confusing.
- 22 MS. MICHEL: Okay. All right. Tracey?
- MR. THOMAS: This is just kind of anecdotal, but
- I can certainly say that KSR and the application of the
- 25 teaching, suggestion motivation test basically made me

```
1 lose confidence in some of my abilities because I
```

- 2 remember as a young associate drafting patent
- 3 applications, many times teaching away or arguing that
- 4 an invention taught away to overcome an obviousness
- 5 challenge, and now not really understanding what is the
- 6 standard.
- 7 So in some cases some of these decisions, maybe
- 8 unintentionally, have created more uncertainty. Same
- 9 thing with Bilski on a couple of fronts. It really
- 10 didn't answer a lot of the questions that I think it was
- 11 intended to around the transformation and around the
- machine implementation. Right now I couldn't tell you
- what degree of machine implementation is necessary to
- have a business process claim be declared patentable. I
- 15 just can't tell you.
- So you just throw one in and hope for the best,
- but that's just anecdotal from our perspective.
- 18 MS. MICHEL: Is the concern then with KSR or
- 19 Bilski or any of these decisions the current uncertainty
- or is there a concern with the substance in that we have
- in some of the prior hearings heard fear about the
- 22 future, heard I don't know what the situation is, which
- 23 suggests the uncertainty is a problem rather than the
- 24 substance? Any reactions?
- MR. THOMAS: The uncertainty is a problem

```
1
      because uncertainty leads to litigation, and that goes
 2
      right back to the whole purpose of what we're talking
      about, which is an efficient marketplace which will help
 3
 4
      to create certainty around issues like valuation so you
 5
      can avoid the Courts on these issues.
 6
              So I think the uncertainty is a big issue.
 7
              MS. MICHEL: Okay. Any other reactions or
 8
      complaints about the substance or just the level of
 9
      uncertainty?
10
              We're about to wrap up then. If there are
      any final comments anyone would like to make while we're
11
12
      still on the record, I'll give you a last chance.
13
              If not, I will say thank you very much. This
      has been very illuminating and helpful to us, and we
14
15
      very much appreciate your time. We will be back at two
16
      o'clock where we have some of the academics doing I
17
      think some of the cutting edge thinking about these
18
      issues. Thanks very much.
19
              (Applause.)
20
              (Whereupon, at 12:24 p.m., a lunch recess was
21
      taken.)
22
23
24
25
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AFTERNOON SESSION
 1
 2
                             (2:02 p.m.)
 3
 4
      PANEL 2: RECENT SCHOLARSHIP IN PATENT MARKETS
 5
 6
      MODERATORS:
 7
      SUZANNE MICHEL, FTC
 8
      ERIKA MEYERS, FTC
 9
10
      PANELISTS:
11
      IAIN COCKBURN, Professor of Finance and Economics,
12
      Boston University School of Management
13
      STUART GRAHAM, Assistant Professor, College of
14
      Management, Georgia Institute of Technology
15
      MARK LEMLEY, William H. Neukom Professor of Law,
16
      Stanford Law School
17
      SAMSON VERMONT, Associate Professor, George Mason
18
      University School of Law
19
      POLK WAGNER, Professor, University of Pennsylvania
20
      School of Law
21
22
              MS. MEYERS: Welcome back to the afternoon
23
      session. For those of you just arriving or just tuning
24
      into the web cast, I'm Erika Meyers, an attorney with
25
      the FTC.
```

```
1
              This afternoon we will explore some of the
 2
      recent academic work dealing with markets for
 3
      intellectual property and other issues. Each of the
 4
      panelists will give a presentation, and we will leave
 5
      about an hour for follow-up discussion.
              We have a seemingly diverse range of topics, but
 7
      at their root, they all address market failures or
      potential solutions to those market failures in the
 8
 9
      emerging markets for intellectual property.
10
              First up will be Stuart Graham. Stu is an
      Assistant Professor of Strategic Management at the
11
12
      Georgia Institute of Technology and a Kauffman
      Foundation Fellow at the Beckley Center For Law and
13
14
      Technology, at the University of California Berkeley
15
      School of Law.
16
              Professor Graham teaches and conducts research
17
      on firm intellectual property strategies, intellectual
18
      property transactions and markets for technology,
19
      technology entrepreneurship and the legal environment.
20
              Dr. Graham received his Ph.D. at the University
21
      of California Berkeley and holds advanced degrees in
22
      law, business and geographical information systems.
23
              Next we'll have Mark Lemley. Mark is the William
      H. Neukom Professor at Law at Stanford Law School the
24
25
      Director of the Stanford Program in Law, Science and
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1 Technology, and the Director of Stanford's L.L.M. Program
```

- 2 in Law, Science and Technology.
- 3 He teaches intellectual property, computer and
- 4 internet law, patent law and antitrust. He is also a
- 5 founding member of the law firm Durie Tangri, where he
- 6 litigates in the areas of antitrust, intellectual
- 7 property and computer law.
- 8 He received his J.D. from Boalt Hall School of Law
- 9 at the University of California, Berkeley and his A.B.
- 10 from Stanford University. After graduating from law
- school, he clerked for Dorothy Nelson on the United
- 12 States Court of Appeals for the Ninth Circuit.
- 13 Iain Cockburn will then share some empirical
- 14 work. Iain is a Professor of Finance and Economics, and
- 15 the Everett Lord distinguished faculty scholar in the School
- of Management at Boston University. He teaches and
- performs research in the areas of entrepreneurship,
- 18 business strategy, intellectual property and economics
- of innovation and management of high tech companies.
- 20 Professor Cockburn graduated from the University
- of London in 1984 and completed his Ph.D. in economics
- 22 at Harvard.
- 23 Samson Vermont will follow Iain. Sam is an
- 24 Assistant Professor of Law at George Mason University
- 25 Law School (which I might add is an excellent law

```
1 school) where he teaches patent law and torts.
```

- 2 Before transitioning into academics, he
- 3 practiced patent law in the Washington D.C. office of
- 4 Hunton and Williams. He is a registered patent attorney
- 5 and the founder of the monthly periodically Patent
- 6 Strategy and Management. Between practice and starting
- 7 at George Mason, he earned his L.L.M. from the
- 8 University of Virginia School of Law, and served
- 9 as the Humphrey Fellow in Law and Economics and the
- 10 University of Michigan Law School.
- 11 Finally, Polk Wagner will close with a
- discussion of patent portfolios. Polk is a Professor of
- 13 Law at the University of Pennsylvania Law School.
- 14 Professor Wagner teaches and focuses his research on
- 15 intellectual property law and policy with a special
- 16 interest in patent law. Professor Wagner founded
- 17 the Fed Circuit Project, an ongoing effort to study
- 18 the performance of the Federal Circuit. Prior to
- joining the Penn faculty, Professor Wagner served as the
- 20 clerk to Judge Raymond C. Clevenger, the III,
- of the United States Court of Appeals for the Federal
- 22 Circuit.
- He holds a law degree from Stanford and an
- 24 engineering degree from the University of Michigan and
- was the 1994-95 Roger M. Jones Fellow at the London

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1 School of Economics, so I will leave it to Stu to take
```

- 2 it away.
- 3 PROFESSOR GRAHAM: Thank you. I'll try to use
- 4 this clicker.
- 5 When I got the call from Erika to come and speak
- 6 about this subject, I started to review my current
- 7 scholarship, and I have always thought of this but it
- 8 really became clear to me that a lot of my current
- 9 scholarship actually touches on or is directly related
- 10 to the question of how patents operate in the markets
- 11 for technology.
- 12 What I'm going to do is just give you a
- highlight into some of the findings of myself and my
- 14 co-authors and give you a list of research that I'm going
- 15 to be highlighting in this presentation, some things
- 16 I've been writing with co-authors over the last couple
- 17 years, and this I believe is going to be posted on the
- web site ultimately?
- MS. MEYERS: Yes.
- 20 PROFESSOR GRAHAM: Terrific. So those citations will
- 21 be available.
- 22 The first thing I want to remark over is the
- idea that markets for technology, it's not just IT.
- often, when we talk about the markets for technology
- are thinking about electronics information technology.

```
1
      This is actually a chart out of a piece of work being
 2
      put together currently in working paper form by some
      colleagues and myself at Georgia Tech, and what we're
 3
 4
      looking at is the markets for technology in the
 5
      pharmaceutical industry.
              So a couple things to say about this. First of
 6
 7
      all, you can see a lot of heterogeneity, so what this
      chart documents is we looked at the patents that are
 8
 9
      listed in the Orange Book for successful NDAs coming out
      of the Food and Drug Administration, and we actually
10
      looked at where those patents originated, and this
11
12
      percentage catalogs the percentage of patents that
      originated with an assignee outside of the firm.
13
              So you can see here there's a lot of
14
15
      heterogeneity here with some firms, Baxter, AstraZeneca,
      Bristol-Myers, et cetera, actually bringing many, if not
16
17
      all, of the patents associated with their most
18
      successful product from outside the firm all the way
19
      down to Merck that has a relatively smaller share.
20
              So two things. Number 1 is markets for
21
      technology are working outside of IT, certainly in the
22
      pharmaceutical industry as well, and also highlights for
      of us that while I know a lot of the discussion this
23
24
     morning was about the buying and selling of patents or
25
      patent portfolios, patents are being transacted via
```

```
various methods, licensing and certainly in the
 1
 2
      pharmaceutical context through acquisitions as well.
 3
              Okay. Another piece of work I want to
 4
      highlight, and this is still ongoing. We're getting
 5
      results out of this now. While I spent last year
      as a Kauffman Foundation Fellow at UC Beckley I became
 6
 7
      involved in a comprehensive survey of high technology
      entrepreneurs. We styled this the 2008 Berkeley Patent
 8
 9
      Survey. It was led by the Beckley Center for Law and
      Technology at UC Beckley, at the law school.
10
              What we did is we surveyed what we defined as
11
12
      entrepreneurial companies. These were essentially young
      firms, firms no older than ten years old, in specific
13
      sectors in biotechnology research, software, IT and
14
15
      Internet related and medical devices.
16
              Our sample included over 15,000 companies. We
17
      drew these from samples frames, Dun and Bradstreet.
18
     Also we over sampled on venture backed firms so we could
19
      take a view into these firms that are really key drivers
20
      of value and employment creation in the economy.
21
      surveyed via the mail and web, and we had ultimately
22
      over 1,300 unique firm respondents.
23
              What did we learn from this that relates to the
      markets for technology? Well, some things. We did ask
24
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about the source of the revenues coming from these small

25

```
1 firms, and what we found was is that at the mean, firms
```

- 2 are reporting less than 5 percent of their revenues are
- 3 deriving from licensing out.
- 4 Now, the wording on this is very important so
- 5 let me actually tell you what the wording was. What we
- 6 asked was: How much of your revenue is derived from
- 7 product sales, including other companies, service --
- 8 sales of service to including other companies, and the
- 9 third item was licensing technologies not including
- 10 product sales to end customers.
- 11 So this is the -- these are the statistics that
- 12 I'm sharing with you now. There are though important
- differences, statistically significant differences in
- sectors, so the biotechnology firms are more likely to
- answer that revenues are coming from this source,
- medical devices less likely, and the IT software just
- 17 about right at that mean.
- Other findings: Patents we find are
- 19 significantly more important. We asked these firms to
- 20 report on how important patenting was to securing
- 21 competitive advantage from their technology innovations.
- We found that patents are significantly more
- important to those young firms that generate more of
- their revenues from technology licensing.
- So as they report more of their revenues coming

```
1
      from this, they also were reporting to us that patents
 2
      are more important than firms that are not reporting
 3
      them.
 4
              Generally young firms are rating --. We also asked
 5
      them questions about why they're patenting, and they
      generally rate obtaining licensing revenues as
 6
 7
      relatively unimportant compared to other reasons, such
      as preventing copying or enhancing the company's
 8
 9
      reputation. Of course, these themselves are wrapped up
      in the markets for technology in some sense. Here too
10
      sectors matter. Biotechnology are rating these more
11
12
      important, but also the least important among all the
      alternatives, but more important than do say IT or
13
14
      software, and as they are rating licensing more
15
      important, we also find that they're also more likely to
16
      rate patents as important as a means of catching value.
17
              Another piece of work that I'm engaged in with
18
      some co-authors, Tim Simcoe and Maryann Feldman, let me
19
      actually skip by this to the words first, and then I'll
20
      cycle back. We've been looking at the relationship of
21
      patents and patent litigation in the standard setting
```

Well, the research shows that patents disclosed to standard setting organizations are much more likely to be litigated, okay. This is quality or people are

context, so what were we able to show in our research?

22

```
1 putting crown jewels into this process, as the case may
```

- 2 be.
- 3 Among the smaller firms, we split our sample
- 4 into large firms and small firms. What we found for the
- 5 smaller firms is that the disclosure event so when the
- 6 firm actually discloses its patents to the standard
- 7 setting body it appears to be a triggering event for
- 8 the litigation, so that's what actually this shows.
- 9 You can see here years since disclosure with the
- small firms as the solid line and the large firms as the
- 11 broken line, significant spikes in the years following
- 12 disclosure for the small firms.
- 13 What we also found is there's no divergence in
- 14 the quality measures of patents post disclosure for
- 15 large and small companies, so what this enables us to do
- 16 is to say that the results point towards a change in
- some strategy and not some higher demand, increased
- 18 infringement, for instance.
- 19 In sum, what we find is that small firms involved
- in the SSO process appear to be using their disclosed
- 21 patents differently. Now is this evidence of troll like
- behavior? Well, not necessarily. We know from theory
- and from our investigations of the market that small
- firms are likely to compete on the upstream
- technologies, while the larger firms are competing on

```
1
      downstream implementation in product markets.
 2
              So it's not surprising that the smaller firms
      would have more of an incentive to care about the
 3
 4
      technology because this is really where they are earning
 5
      their rents upstream.
 6
              Okay. Lastly, I want to talk a little bit
 7
      about improving the transactional environment. I'm
      going to talk in the next few slides about work that
 8
 9
      I've done with a colleague from the University of
     Munich, Dietmar Harhoff. We started off by thinking
10
      about what's going on in this transactional environment
11
12
      out there.
13
              Well, from theory we know that there are welfare
14
      gains from the patent system. Yes, we all know that
15
      there are dead weight losses associated with monopoly,
16
      but the benefits we expect are incentives to invent, to
17
      develop, to commercialize and to transact, right? These
18
      things also create for us an opportunity to have a
19
      transactable piece, and we also think about the
20
      knowledge spillovers that come from disclosure.
              But at the end of the day, a patent system will
21
22
      tend to experience welfare losses when it has forces
23
      operating on it like low quality patents that are
      lacking requisite novelty, et cetera. Also uncertainty,
24
```

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whether that uncertainty be over the final boundaries of

25

```
1 the disclosure or over the validity of the property
```

- 2 right itself.
- 3 And this uncertainty as I add on this final
- 4 bullet point we theorize would add transaction costs to
- 5 commercialization, technology transfer and developing
- 6 markets for intellectual property.
- 7 So what Harhoff and I did, and I'm not going to
- 8 walk you through these, but what we tried to do was go
- 9 through a welfare calculation of adopting a post-grant
- 10 review in the U.S. The way in which we did this, and
- I'll point you to the working paper if you're
- interested, we actually looked at a cohort of U.S.
- patents that had been litigated and then matched those
- 14 through their documentation, their priority
- documentation to their equivalent patents in the
- 16 European system.
- And then we took matched samples and we compared
- and contrasted these, and what it enabled to us do was
- 19 to come up with probabilities of the likelihood of
- 20 opposition in a system like the United States, okay, so
- 21 we ran these through, and here's the tables, okay.
- I'm not going to say too much about these other
- 23 than to say what we did with these is we used -- in
- 24 millions of dollars -- we tried various amounts for the
- 25 social cost of litigation, the social cost of a non

```
1
      litigated revokable patents because we realized in the
 2
      system like the United States there are a lot of patents
 3
      out there that are not being revoked because of the
 4
      system is so expensive, right?
 5
              We have a lot of estimates here on the
      probability of opposition, the probability of appeal,
 6
7
      and then we try also some sensitivity analysis
      associated with different costs for the opposition, the
 8
      post-grant process itself, right, and then we do some
 9
      welfare calculations, okay.
10
              If I can get that to actually come up -- well,
11
12
      there I go. It comes up and it goes away, the green
      circle but let me point you to this, okay. What we find
13
      is so long as opposition costs are relatively low, (this
14
15
      [chart] would be in millions of dollars) $100,000 both for
      opposition and appeal, right, we can experience some
16
17
      significant welfare gains, right, not only from avoided
18
      litigation, but the big kicker for us and what we found
19
      we found in the European system is because opposition
20
      happens so much more, they are getting rid of a lot more
21
      patents that pose monopoly costs to the system, okay?
22
              So you get a substantial boost from an
23
      opposition system because there's more of it. It's a
24
      lower cost, right, and you're able to comb out those
25
      patents that are not being litigated in the United
```

```
1 States, but still are imposing welfare costs on
```

- 2 society.
- 3 At the end of the day, what we found was in our
- 4 best scenarios a 15 to one ratio of benefits to costs.
- 5 But a caveat, because when we let the opposition
- 6 costs rise significantly, here up to a half a million
- 7 dollars, okay, you can see the benefits really start to
- 8 erode, so our findings are very, very sensitive to the
- 9 cost of that system.
- 10 So, if there's one thing that comes out of this
- 11 research, is don't let those costs get out of hand if we
- 12 are going to have a system like that, and this is
- actually something that Levin and Levin had pointed to
- in an early article as well, although without specific
- 15 calculations behind it.
- So in sum, patents in the market for technology
- 17 are relevant beyond electronics. We still have much to
- 18 learn, particularly as regards the relationship among
- 19 patenting these markets and technology entrepreneurship,
- 20 and I would always point to the substantial
- 21 inefficiencies in this transactional environment.
- I know we're going to talk about this a little
- 23 bit in the question and answer today, but reducing
- 24 uncertainty over the boundaries of the validity of
- 25 patents would tend to dampen some of these

```
1 inefficiencies, and post-grant review as a means to
```

- 2 increase society's welfare looks promising, again if the
- 3 costs of the process remain relatively low.
- 4 PROFESSOR LEMLEY: Stu's conclusions are a
- 5 perfect segue into my introduction because I want to
- 6 talk about inefficiencies in the transacting market
- 7 environment.
- 8 Let me begin by saying that I think a market for
- 9 technology is a good idea. It's something that we
- should be in the business of exploring and promoting,
- 11 but that the markets for technology we have, markets in
- 12 particular for patent licensing we have right now are
- not particularly well developed markets. We've made
- 14 baby steps towards a real market for technology
- 15 transfer.
- Most of the technology transfer that occurs, occurs in
- one-off secret deals between parties who happen to find
- 18 each other either through prior business relationship,
- 19 perhaps by accident or more commonly through litigation,
- which they end up settling. There is a nascent market,
- 21 public market for an auction of patented technology, but
- 22 it really is a nascent market.
- 23 And if you look at the most recent Ocean Tomo
- 24 market results, you'll see a relatively small number of
- 25 patents being sold for a relatively small amount of

```
1 money. Compare that to the vast number of patents out
```

- 2 there and even to the substantially larger number of
- 3 patents that are licensed or sold in some other
- 4 mechanism.
- 5 So the problem is the market is thin, all right.
- I don't have a bunch of willing buyers, a bunch of
- 7 willing sellers interacting with each other in a normal
- 8 market environment. We have people who find each other
- 9 on an occasional one-off basis or we have a very
- small thin market for auction of patents, and
- 11 thin markets are inefficient.
- 12 Thin markets don't work well. They don't drive
- 13 you to the right price. They leave a lot of
- 14 transactional money on the table in the sense that
- 15 transactions that should have occurred, that would
- benefit both the buyer and seller, don't occur. Why is
- 17 this?
- 18 I think there are a number of problems but I
- 19 want to focus on three problems which I think are
- 20 interrelated. The first is the lack of transparency.
- 21 Licensing and patent sale transactions occur with very
- 22 few exceptions, which we'll talk about in a minute, in
- 23 secret. Nobody knows when the transactions are going to
- occur, when they are under consideration. Nobody knows
- 25 the price at which patents are sold or licensed or the

terms under which those prices or licenses take place.

1

24

```
2
              Second, and I think closely related is the
      problem of a market for lemons. This is a familiar
 3
 4
      problem in other areas of technology. If I cannot
 5
      accurately assess the value of the thing that I am
      buying up-front when I buy it, then we end up in a world
 6
 7
      in which it's easy to sell the lousy products.
                                                      It's
      hard for customers to distinguish the good for lousy
 8
      product, so the lousy products end up driving out the
 9
      good products.
10
              So there's a substantial risk that if it we're
11
12
      putting up products, patents whose value is unknown, we
      are unlikely to get anything like the full value of that
13
      patent in a market sale because people are afraid of
14
15
      being taken.
16
              Third, is the problem of uncertainty, not just
17
      uncertainty in the value proposition but uncertainty
```

throughout the entire range of the patent system. It is
virtually impossible for anybody to know in most
industries most of the time whether a patent that
they're looking at is valid or invalid, what that patent
covers and therefore whether or not it's likely to be
infringed.

25 think fundamentally distinguishes intellectual property

So the range of uncertainty is something that I

```
markets from markets for other kinds of either land or
 1
 2
      channels. The level of uncertainty we're talking about
 3
      here is quite significant, and the combination I think
 4
      of these effects coupled with the fact that there are so
 5
      many patents out there has led for other reasons to
      circumstances in which most companies making products in
 6
 7
      most industries, not all but most of them, ignore
 8
      patents.
 9
              They just don't pay attention to them unless and
      until they're forcibly brought to their attention either
10
      by the filing of a lawsuit or at least by repeated
11
12
      demand letters, and that too I think leads to the -- it
      supplements and reinforces the other problems we're
13
      talking about. It adds to the thinness of the market.
14
15
              Well, it would be nice to solve all of these
      problems. I frankly think some of them are not
16
17
      solvable. I would like to see less uncertainty in the
18
      patent world. I would like us to have a better sense of
19
      whether patents are valid or not. I would like us to
20
      have a better sense of what it is that patents cover and
      clearer claim instruction, but to some extent I think
21
22
      that's a fool's errand.
23
              We may get increased certainty. We are not
24
      going to get certainty in anything like what we mean by
```

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certainty in other market environments. There is no

25

```
1 plausible amount of money we could spend at the Patent
```

- 2 Office that would weed out all the bad patents and
- 3 guarantee us that the remaining ones are, in fact, good.
- 4 I think there may simply be no way, given the legal
- 5 regime of claim construction, to understand in most
- 6 industries what it is, exactly, that a patent covers under
- 7 the existing peripheral claiming system.
- 8 So I'm not sure we can solve the uncertainty
- 9 problems. I think we clearly can and should solve the
- 10 transparency problem. What's remarkable, if you step
- 11 back outside the intellectual property environment and
- 12 look at it in the context of markets, is the fact that
- 13 all of these transaction occur in secret. That's not a
- 14 necessary fact.
- 15 In fact, in any other market we would think it a
- bizarre thing, and so we have stock markets that work
- 17 because I know, not just the price I'm willing to pay for
- 18 a particular share of Google stock, I know the price
- that everybody else was willing to pay for a share of
- 20 Google stock yesterday, and I know the price at people
- 21 were willing to sell the stock.
- We know that because we've taken information,
- 23 the price of a transaction, and we have required it to
- 24 be publicly disclosed. We can and should do the same
- 25 thing with patent licensing. The fact that we don't I

```
1
      think, conditions a lot of people to think, "Well, of
 2
      course the license, the transaction, the sale must be a
      secret transaction." But, there's no reason that should be
 3
 4
      true.
 5
              In fact, the Federal Trade Commission, for other
      purposes, has embarked on an experiment over the last
 6
 7
      several years of requiring the disclosure of
      pharmaceutical settlement agreements through license.
 8
 9
      That requirement has not in fact deterred people from
      entering into settlement agreements. It, unfortunately,
10
      hasn't even deterred them from entering into
11
12
      anti-competitive settlement agreements, but it certainly
      has not caused people to forego entering into licenses.
13
              If we broaden that experiment, if we actually
14
15
      start requiring people to disclose the substance of
      their licensing transactions, the royalty rates they
16
17
      pay, the prices they pay, then we're going to start to
```

19 Now I can figure out, this one is a valuable patent,

20 people are willing to pay a lot of money for this. This

information that will help make a market thick, okay.

one is not so valuable. I can start to make class

22 distinctions.

18

23

24

25

Patents that look like this, patents in this industry, patents produced by this company, patents produced by this law firm look like they have a higher

```
1 value than other patents in these other contexts. We
```

- 2 can start to develop a thick market. I think
- 3 transparency in license and sales pricing of patents
- 4 would have other advantages as well. Most notably, it
- 5 would help rationalize the patent damage system.
- 6 We currently base patent damages, in most cases
- 7 on an assessment of the reasonable royalty the parties
- 8 would have entered into had they, in fact, not
- 9 chosen to spend \$5 million litigating all the
- 10 way to trial. Where do we get that reasonable royalty
- 11 number? Well, we get it based on license transaction
- information, but we don't have license transaction
- information for the overwhelming majority of licenses
- 14 because those licenses are kept secret.
- 15 So we take a small and non representative subset
- of available data. We look under the lamppost, if you
- 17 will, and we say, "Okay, that must be all there is out
- 18 there." Publishing or requiring transparency of license
- 19 pricing would have, as a second substantial benefit, the
- 20 benefit of actually giving courts information as to what
- 21 a reasonable royalty in a particular industry would
- 22 likely be.
- We could probably solve the patent damages
- issues that are currently bedeviling Congress and the
- courts, not by changing the legal rules but by actually

```
1 having real accurate information about reasonable
```

- 2 royalties in these transactions.
- I think that transparency is going to help in
- 4 other respects as well. I think it will help with the
- 5 market for lemons. If we start identifying the
- 6 characteristics of valuable patents, people will be more
- 7 comfortable paying for those valuable patents. They
- 8 won't be driven out by the ones that are potentially
- 9 problematic, and I think that transparency and
- information helps with other market rationalizations
- 11 that would be desirable in a thickening market.
- 12 We could start to see securitization of patent
- 13 interests. I know that's a bad word in the current
- 14 economic environment, but it's nonetheless, I
- think, a desirable way of not eliminating uncertainty but
- 16 reducing that uncertainty. I think we can start to see
- the development of insurance products, what you might
- 18 call a patent royalty trust in which people can try
- 19 to solve the royalty stacking and standard setting
- 20 problems by figuring out a rationale value that ought to
- 21 be attributed to patent contributors to a technology and
- 22 ensuring against the risk that courts are going to award
- a greater set of damages, or so forth.
- 24 We don't see those products now. We don't see
- 25 those products now because nobody has a base line

```
1
      against which to measure any of this information, and I
 2
      think an important first step that we could take in
 3
      improving a patent market is to give us that base line.
 4
              Thank you.
 5
              PROFESSOR COCKBURN: Good afternoon.
                                                     Thank you
 6
      for the opportunity to speak. What I thought I will do
 7
      is report on some of the findings from a series of
      surveys that the LES Foundation has sponsored over the
 8
      years giving us the perspective, if you like, of the
 9
      view from the trenches. We've heard from some
10
      practitioners this morning. This is a little step
11
12
      up from that in an attempt to establish some statistical
      picture of this or quantitative picture rather than just
13
14
      anecdotal experiences of specific individuals.
15
              These foundation surveys have been done for five
      years now, and I would like to acknowledge the
16
17
      leadership of Richard Razgaitis and Lou Berneman, the
18
      LES Foundation Board and Ken Schoppman, who's sitting at
```

What we did is survey the LES membership, and an important prefatory remark is that LES members are not necessarily representative of all, or, indeed, necessarily many of the people infected by the markets for technology, but they're an important subgroup.

the back there, who's an extremely helpful in these

19

20

enterprises.

```
1
              I'll refer you to the various articles being
 2
      published annually in LES Nouvelles over the years
      summarizing these results, and I see there's a typo here
 3
 4
      on the slide, the latest article that just came out in
 5
      the March edition of LES Nouvelles.
 6
              My take on what we found from these years of
 7
      asking various questions, some of them repeated,
      is captured on this slide is that IP
 8
 9
      disputes are widespread. In any given year about a
      third of the LES membership would say they would be
10
      involved in a dispute, but it's important to recognize
11
12
      that it's not one third of that time or one third of
13
      their resources.
              In fact, they were consistently reporting 80 to
14
15
      90 percent of their time is spent on opportunity
      licensing, business development and transferring and
16
17
      using technology rather than wrangling about property
18
      rights.
19
              I think the second big lesson that I, at least,
20
      have drawn from this effort is that licensing is much
21
      harder than you think especially if by "you," you mean
22
      someone who went to graduate school in economics and
23
      thinks about these problems in an abstract way.
24
              Professor Lemley just referred to concerns many
25
      people have about the efficiency with which this market
```

```
operates. I'll offer the following observations: That
```

- 2 while about one third of the IP inventory that belongs to
- 3 the companies that are LES members would never be
- 4 put on the market. It's regarded as being core
- 5 technology or strategically important.
- 6 Of the two thirds that's left, a great deal
- 7 seems to be stuck on the shelf. This is
- 8 retrospective, and the practitioner discussion this
- 9 morning suggested that there may, in fact, be a rapid
- 10 evolution of institutions that would encourage moving some
- of this stuff off the shelf, but the fact is the on these
- surveys, these folks will consistently report about 50
- percent of the stuff that they don't want, they
- 14 acknowledge will never be transacted in.
- 15 A related point is that deals are difficult to
- do. Even if you can find somebody in this world that
- 17 Professor Lemley characterized as behind closed doors,
- 18 even if you can find someone to negotiate with, very
- 19 frequently these negotiations won't reach an agreement.
- These are among consenting parties looking for an
- 21 opportunity to transact rather than an enforcement
- 22 situation, and usually that's because they simply are
- very far apart on price, and no amount of negotiating is
- 24 going to get them to the point at which they can
- 25 actually voluntarily do a deal.

```
1
              Reflecting that is something which I found - as
 2
      somebody who makes a living teaching MBA students how to be
      spreadsheet jockeys - there is a profoundly depressing
 3
 4
      finding for me, at least, two-thirds of the time even the
 5
      executed deals, nobody had a former valuation model.
 6
      The amount of talking you can do in the classroom about
 7
      real options and binomial trees and all of the rest of
      it doesn't translate into business practices, and
 8
 9
      presumably for very good reasons.
10
              Lastly is the observation that one of the ways
      these deals are difficult to do is that they're
11
12
      prospective. They're facing a changing environment. If
      you ask the question, think about the deals you did last
13
14
      year, many of the respondents of this survey would say
15
      that they really want to revisit them and revisit them
16
      substantively, all that points to is these things being
17
      difficult to do.
18
              Let me move quickly through these slides, just
19
      highlight a couple of them. I skipped past one I wanted
20
      to talk about. Here we go.
21
              This is a question that we put to respondents of
22
      this survey which is: Is IP different -- in the sense of
23
      how different is it from a similarly large and complex
24
      transaction -- something like a commercial real estate
25
      leasing deal or a contract for use of specialized
```

```
product facilities? What you can see is these IP deals
 1
 2
      are very difficult to deal with.
                                        These reflect the
      thinness of markets, the numbers of internal business
 3
 4
      resources that have to be put on this, difficulties in
 5
      bringing deals to closure and so forth. IP is just
      tough to deal with, in a practical business sense.
 6
 7
              What I did promise FTC staff I would spend a
      little of time on is these questions about patent
 8
      trolls. For several years we asked the question of the
 9
      definition of, quote, troll, unquote. It is roughly
10
      coincident with what I think people mean by a non-
11
12
      producing entity, so we put this question suggesting
      that: Well, look is this threat of litigation by NPEs
13
      somewhat similar to the kind which generates the
14
15
      most yelling and shouting, which appears to be the
      optimistic behavior, not closely related to actually
16
17
      inventive activity.
              Is it like slip and fall, the sort of constant
18
19
      background noise of litigation a business faces or is it
20
      something that has substantive impact? So you can see
21
      on the slide a summary of the findings. For most of the
22
      respondents of this survey, they got to say, Look, it
23
      didn't have a potential impact. It really sort of looks
24
      like a slip and fall type of problem, but with one
25
      glaring exception. I think this just quantifies
```

```
1 what many of us know already, that this
```

- 2 is representative of being a big problem for the
- 3 companies in the IT sector. This acronym, DICE,
- 5 Digital/Information/ Communications/Electronics comes from
- 4 Richard Razgaitis. A third of those
- 6 respondents are going to say that this is a substantial
- 7 problem.
- And we agree that it is what they would
- 9 characterize as a problem. The question then arises:
- "Well, what was its actual impact?" Does it change things
- in the economy or impact the progress of science in the
- 12 useful arts? Again asking for all respondents across
- all sectors of the economy in this survey, at least, a
- 14 few of them seemed to do anything with the exception of
- 15 the IT folks.
- So you can see that in IT the actual potential
- for opportunistic litigation by NPEs, some of them were
- 18 not inclined to pursue an otherwise attractive opportunity.
- 19 Some of them will decrease investment. Some of them
- 20 will abandon R&D projects, but most of the time even in
- 21 the IT sector, the response is really it doesn't do very
- 22 much.
- So I think that there's a lot of smoke here.
- 24 The fire in terms of is it affecting the R&D process.
- 25 Are these companies substantively changing the way they

```
1
      go to markets? We don't see any strong evidence at
 2
      least here. What we do see I think is I think, however,
      some response to this. Maybe we don't see any impact
 3
 4
     because the companies affected due a few sensible things
 5
      to mitigate it.
 6
              And we've asked over the years: Do you do
 7
      things like proactively compile collections of prior
      art? Do you file reexamination requests? Do you put
 8
      together a joint defense agreement? And again not very
 9
      much anywhere, but a lot of this going on in the IT
10
      sector.
11
12
              So those are the formal charts I prepared. Let
     me just offer a few additional remarks. Stu's kind of
13
14
      an economist, but I'm definitely the card carrying economist
15
      on this panel. Why do we care about this issue?
16
              I think from 30,000 feet, almost everybody
17
      agrees that markets for technology are really
18
      important, and there are potentially very big efficiency
19
      gains to the economy utilizing the resources of small
20
      and independent inventors more effectively. For
21
      example, division of labor is the phrase we like to
22
      throw around. You get in -- if you have a market for
```

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Adam Smith, economists have agreed that this is a

technology, you can get specialization in invention and

specialization in product and distribution, and since

23

24

25

profoundly good thing and has benefits for anybody

1

```
2
      concerned.
 3
              The nervousness I have about this question,
 4
      agreeing there are potentially very large gains, is that
 5
      once we move to the idea of a market for technology and
      the pricing, particularly at the early stage research,
 6
 7
      specifically through acquisitions or terms of license
      deals or so forth, we've pulled a set of prices onto
 8
 9
      technology, which the utilizers or commercializers
      downstream will respond to, and the upstream people will
10
      also respond to, so the price mechanism in economics
11
12
      plays a very important role in allocating resources.
13
              Now, that's all great if the prices are the
      right prices as an economist would understand them.
14
15
      the prices are wrong, that is to say they reflect market
16
      failures in the market for technology, then resources
17
      are going to get steered in the wrong directions, and so
18
      I think this is -- it's a first order long-term question
19
      to think about, if we care about economic growth and
20
      competitiveness and so forth, is to understand whether
21
      or not the prices in these markets are indeed right, or
22
      do they deviate from reflecting the marginal opportunity
23
      cost of the resources employed or whatever it is that a
24
      theoretician interested in growth would focus on.
              And I think we should indeed be a little bit
25
```

```
1
      skeptical here. Back in economics 101, the market, we
 2
      teach which has the most egregious market failures,
 3
      meaning the prices are most likely to be wrong, is the
 4
      market for knowledge because of the obvious problems
 5
      relating to information, public goods, so on and so on
 6
      and so on.
 7
              Now, are the institutions that are evolving able
      to solve some of these problems? I think they may well
 8
      be, and I'm personally very encouraged by the discussion
 9
      this morning from practitioners who are pointing out the
10
      very rapidly moving frontier, the emergence of new
11
12
      institutions who seem to be solving some of the problems
      in these markets, the potential for using ideas, taking
13
      from finance, securitization, derivatives and so forth
14
15
      as ways of bringing more volume, more liquidity and more
      pricing efficiency. I think those are all very
16
17
      encouraging.
18
              What I do think we should be somewhat concerned
19
      with is the limits on this activity. How far can these
20
      new institutions or new contracts or new players at the
21
      table go toward solving some of the ways in which the
22
      system seems to be broken? And I think it's -- I
23
      thought about this quite a lot, and my answer is it's
24
      too early to tell, we're really going to have to see how
```

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all of this plays out.

25

```
So I think I'll leave it off at that and look
 1
 2
      forward to an interesting panel discussion. Thank you.
              PROFESSOR VERMONT: So the industry panel
 3
 4
      earlier today made reference to independent inventors a
 5
      number of times, and what they had in mind when they
      were using the term independent inventor was a small
 6
 7
      inventor, somebody who is not part of the big
      organization. I'm going to talk about independent
 8
 9
      inventors, but that's not what I mean by an independent
10
      inventor.
              For me independent inventor means someone who
11
12
      didn't copy the invention, a second inventor, someone
      who -- I'm sorry, didn't copy the patentee's invention,
13
      so a second inventor comes along, doesn't know about the
14
15
      patent or doesn't see the patent and independently comes
      up with the subject matter. So there's no free riding.
16
17
      The second inventor incurs costs of the invention.
18
              Now I've argued before that independent
19
      inventions should be a defense to patent infringement
20
      provided that the independent inventor completes the
21
      invention prior to receiving actual or constructive
22
      notice that somebody else already invented it, i.e., the
23
      patentee or the first inventor.
24
              Now, since I made that proposal, there's some
```

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25

new data, some new books, some new work that's come out.

```
1 Patent Failure, a book by Jim Bessel and Michael Meurer,
```

- 2 Mark [Lemley] and Chris Cotropia's work showing
- 3 that the amount of patent infringement litigation that
- 4 concerns actual copying is very, very low, at least outside
- 5 of the pharmaceutical industry.
- And then I also became aware of Mark's paper on
- 7 ignoring patents, and in that paper he pointed out that
- 8 in some industries, it's routine -- in component
- 9 industries, I guess mostly IT, it's routine to
- 10 completely ignore patents.
- 11 So what do we make of this and how does this
- 12 affect the independent invention defense? Does this
- militate -- this new information, does this militate in
- 14 favor of the defense or against it? I think it actually
- 15 is for it. I think we have to ask: Why is it that
- patents are being ignored in these component industries?
- Now, one reason is that the cost of clearance is
- 18 very high, and a big part of that is simply the notice
- 19 function of patents is not serving well, right. It's
- 20 hard to know what patents -- what claims -- cover? They're
- validity is often uncertain, and you can have an
- 22 enormous number of claims overlapping on a final end
- 23 product.
- Another reason I think that companies
- 25 routinely -- and some industries -- routinely ignore patents

```
1 is that there's just no information in those patents,
```

- 2 there's no technological information in those patents
- 3 that will help them do anything. The only thing
- 4 that they get from finding these patents is they learn
- 5 what their liability would be.
- 6 They get information about what claims someone
- 7 might make against them, but they don't tend to get
- 8 information out of the specifications that's going to
- 9 help them invent or do what they're doing and make a
- 10 product more efficiently, so what do they gain? What do
- 11 you gain by performing clearance if you're in one of
- 12 these component industries?
- 13 In the best case, you reduce the variance in
- 14 your final outcome, so if you go ahead without reading
- 15 the claim, you could escape detection. You might never
- 16 get caught. If your transaction costs -- if it costs a lot
- for you to search to find patents out there and it might
- 18 cost the patentee a lot to find you, so you might get
- 19 away with it. You might never get sued, or
- 20 alternatively you might get slammed.
- Your product might read on a claim that covers
- something that would be very expensive for you to switch
- out of, right, so in the best case
- scenario, you reduce the variance in your outcome and
- you reduce the uncertainty that you're facing a little

```
1 bit.
```

- 2 The worst case scenario is that you just
- 3 increase your expected liability. You increase your
- 4 downside by coming to the attention of these patentees,
- 5 so you incur clearance costs. You spend money and then
- find them and say, oh, by the way, I may be infringing
- 7 your patent, and hopefully you work out of a deal, but
- 8 if you don't, you have flagged yourself as a potential
- 9 infringer. You may actually increase your expected
- 10 liability.
- Now, it's disconcerting at first glance to
- think, "Well, gosh, these companies are ignoring patents
- 13 left and right," that doesn't seem right. I think the
- initial impulse is to think we
- should do something to prevent that, for example,
- 16 enhance damages for failure to search, right.
- So if you willfully infringe, if you knowingly
- infringe a patent now, damages could be
- 19 enhanced against you. Maybe we can have some similar
- 20 rules for failure to search, but this would be I think a
- 21 bad idea for several reasons.
- One is it would delay innovation. If
- we're going to force, if we're going to make the
- 24 penalty draconian for failure to search, we're going to
- force companies to search prior to engaging, prior to

```
developing their product and commercializing the
```

- 2 product. We're going to delay innovation. We're going
- 3 to delay -- we're going to postpone the time at which
- 4 inventions actually get commercialized and move into the
- 5 market so that people can use them, especially in a
- 6 world where the PTO has a backlog of 1.2 million
- 7 applications and we're approaching four or five years on
- 8 average for an application to get from filing to
- 9 issuance.
- 10 Separately, it would seem to make sense, it
- 11 would seem to be a good solid general principle that if
- 12 the cost of searching, if the cost of clearance exceeds
- the cost of independently inventing the thing, well then
- in general we would want you would think, at least on the
- 15 first pass -- we would want parties to independently
- 16 invent, right.
- 17 It's wasteful to spend \$1 million
- 18 searching to find an invention that maybe is claimed
- somewhere if you can make the invention yourself for
- 20 \$50,000.
- Now, under the current law -- the law
- doesn't currently recognize independent invention as a
- 23 defense, we still have parties not searching, suggesting
- that the transaction costs are really high because
- 25 they're facing this high expected liability. There's

```
1 reason to think or this logic suggests that there's too
```

- 2 much searching even under current law, and that if
- 3 anything we want to limit damages or reduce expected
- 4 liability in cases of independent invention.
- Now, as soon as you say that then you think,
- 6 "Okay that's going to reduce the expected reward to
- 7 the patentee." The patent's going to be worth
- 8 less. Yes, it is, but that's what we want in a
- 9 situation where the invention would have come sooner
- 10 anyway. The purpose of patents
- 11 essentially is to accelerate innovation, to get us
- 12 inventions faster than we would have them in the absence
- of a patent system.
- 14 So if an invention would have come six months
- 15 later, after the patentee had invented, if it would have
- so six months later in the absence of a patent system,
- then all that the patent has done is it's given us six
- 18 months of use of that invention.
- 19 Now, in some cases it would have been 20 years
- or more before the invention came in the absence of a
- 21 patent system. These patents are worth more. So if the
- 22 independent invention occurs quickly after the initial
- 23 invention, that is strong evidence that the value of the
- 24 patent should be lower to the
- 25 patentee because there are costs associated with patent.

```
1 There are social costs associated with patents and we
```

- 2 don't want to pay any more of those costs than we have
- 3 to.
- 4 So how do we incorporate, how does the law take
- 5 account of independent invention? I had proposed
- 6 essentially that there be a change in the statute so
- 7 that if there was independent invention prior to
- 8 receiving actual constructive notice, if someone else
- 9 had invented, then there was a complete defense for
- 10 the independent inventor, but there would be a
- 11 lot of division on this. This would be a very
- 12 controversial proposal.
- In chemistry, pharmaceuticals, independent
- invention is quite rare, at least with respect to small
- 15 molecules. They probably shouldn't care too much about
- 16 it because it's not going to affect them. But in other
- 17 areas, software, for example, parties that
- 18 consider themselves beneficiaries of the patent
- 19 system, they're very much going to be against
- 20 independent invention defense. And parties that consider
- 21 themselves victims of the patent system, they should be
- 22 in favor of it so there would be a lot of acrimony and
- 23 it may just not -- realistically speaking it may never
- 24 get passed.
- So I've kind of come around to thinking that

```
1 Mark is right and thinking that it's really the courts
```

- 2 who should take this into account. They can do that
- 3 by considering the fact that someone
- 4 independently invented as a factor militating against
- 5 imposition of a permanent injunction.
- 6 They can take this -- we could reserve the
- 7 willfulness damages for pirates, for someone who
- 8 actually copies. We can go a little further than
- 9 that on damages by means of the foreseeability
- 10 standards, so under some of the Federal Circuit case
- 11 law -- some of the Federal Circuit case law says that
- 12 foreseeable damages are generally compensable. But, in a
- 13 world where the vast majority of the infringement is
- 14 actually inadvertent, you never even foresaw that you
- 15 were going to infringe, much less what the consequences
- were going to be. I guess we have to adopt
- a fiction to some extent that you foresaw infringing.
- But we can curtail that -- apply the foreseeability
- 19 requirement differently in the cases of independent
- invention by saying, "Look, we will see foresee
- 21 that you could infringe the patent, even though
- 22 you didn't know about it, but we're not going to
- 23 say that you could foresee the loss of the collateral
- 24 sales, conveyed goods, derivative goods. So
- 25 we can shrink the umbrella of liability

```
1
      that wav.
 2
              Mark and my colleague Tun-Jen Chiang
      suggested that obviousness or the non-obviousness
 3
 4
      standard is another lever by which we can take into
 5
      account independent invention, and this is a
      nice way to do it because it makes the case law
 6
 7
      actually more coherent or would make the law more
 8
      coherent.
 9
              So, under current law, the long felt need for an
      invention and the failure of others, are considered
10
      objective indicators that an invention is non-obvious.
11
12
      Well, if those are objective indicators that an
13
      invention is non-obvious, then you would think short-felt
      need, like in other words as soon as there was a demand,
14
15
     boom, the product showed up, and success of others,
16
     meaning multiple parties converge on it at roughly the
17
      same time, would militate in favor of obviousness there.
18
      There would be an objective indicator of obviousness.
19
              Now, one possible downside is that would
20
      blow the patent up. So if the patent is obvious,
21
      the claim is obvious, then the patent is destroyed.
22
      re-invention defense that I proposed is actually more
23
     moderate in that it would only give a defense to the
```

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independent inventor. It would not invalidate the

24

25

patent.

```
1
              But from probabilistic ex ante standpoint and
 2
      considering the fact that obviousness -- that these are
      secondary indicia, they're competing with the other
 3
 4
      secondary indicia, and that they're secondary and not
 5
      primary indicia, maybe the effect is sufficiently
      attenuated that it wouldn't unduly undermine incentives
 6
 7
      to invent.
              I guess that's all I have for now. Thank you.
 8
 9
              PROFESSOR WAGNER: All right.
                                             Thank you very
      much to the FTC and Suzanne and Erika for inviting me,
10
      and I appreciate all of you who came to watch, so what
11
12
      they asked me to talk about was patent portfolios --
      and my partner in crime on this is my colleague
13
      Gideon Parchomovoksy, who would be glad to answer any
14
15
      questions about this if you let him know.
16
              So most of the time when we talk about patents,
17
      particularly in the legal academic community, we are
18
      thinking of single individual patents, and most of the
19
      analysis occurs at that level, which we started
20
      questioning when we started thinking about this.
21
      So, thinking broadly on what the value of patents is or
22
      if they have value, what is it, traditionally you think
23
      that patents have some sort of expected value via the
24
      right to exclude others from the marketplace.
25
              And it's useful in a variety of ways, to have a
```

```
1
      right to exclude others from the marketplace. But,
 2
      increasingly people who think about this have growing
      doubts about this, and when you look at average value on
 3
 4
      almost any set of estimates that have looked across
 5
      all patents, it's very likely to be insignificant value,
      and most if not any -- many if not actually most cases
 6
 7
      less, and maybe even significantly less, than the
      acquisition cost of those patents.
 8
 9
              We know that patents have an extreme skew in
      distribution of value and the vast majority of patents
10
      have very little apparent value. Perhaps as
11
12
      importantly there's very little or no ex ante visibility
      to distinguish the valuable patents from the less
13
14
      valuable patents.
15
              Now, some of this, we heard from this morning, in
16
      theory, might change if we had a robust market, secondary
17
      market that, in fact, did some of these functions of
18
      estimating value. But, I think as even the people on the
19
      morning panel would agree, we're not there yet, and we
20
      certainly haven't been there in our recent history,
      which this is primarily describing.
21
22
              So we described this in a sense as the patent
23
      paradox, which is if most patents, and in fact almost
24
      all patents, have little or no apparent value, maybe even
```

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have negative expected value, then why are all these

25

```
1
      companies, in particular large companies, patenting at
 2
      increasingly heavy rates? Almost no matter which way
      you look at the measurements of patenting, those
 3
 4
      increase.
 5
              And the idea here is what they're doing instead
      of -- they're not interested in patenting -- is the theory
 6
7
             They're actually interested in portfolios, and
      here.
      what they're doing is adopting a strategy of high
 8
      volume, low quality, low cost patents to build their
 9
      portfolio, and in that sense patents are a means to an
10
      end rather than an end themselves. We need to think
11
12
      about that when we think of policies related to patents
      and how to understand them.
13
              There are other views, of course, out there in the
14
15
      legal academic community that patents confer other
      benefits, right? We've seen Clarisa Long's theory
16
17
      that patents might be signals. They inexpensively convey
      valuable information about the firm. They can be used
18
19
      as internal metrics. We see that every now and again.
20
              Some people theorize that they're just a
      lottery, people are just essentially playing the lottery
21
22
      with patents. Many people say that what people are
23
      doing, what firms are doing by patenting very heavily is
24
      just playing defense, amassing large quantities of
25
      patents just to keep other people from amassing large
```

```
1
      quantities of patents and suing them.
 2
              So the basic theory here which in a sense
 3
      integrates all of these prior approaches is to say that
 4
      the modern value of patents lies, in fact, not in any
 5
      individual significance, although there are certainly
 6
      individually significant patents out there, but
 7
      primarily in their aggregation to a portfolio.
      the sense here is the whole is greater than the sum of
 8
 9
      the parts, and you need to understand patent that have
      inputs to portfolio construction rather than as the
10
      actual goal of having the patents, which are building
11
12
      with a patenting strategy a portfolio and not simply a
      collection of patents.
13
14
              That, then, suggests that patenting will occur
15
      when the marginal benefit of building a portfolio
      exceeds the marginal cost of acquiring the patent
16
17
      itself -- which implies a higher rate of patenting than
18
      you might otherwise expect, given the substantial
19
      benefits of the portfolio and reveals that patenting
20
      decisions can often be, and might in fact always be, in
21
      some cases unrelated to the value of the underlying
22
     patents.
23
              So why would companies do this? So we explore
24
      some of these issues. We had a few case studies in a
```

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paper where we looked at some companies that dropped

25

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1
      their R&D at the same time they radically increased
 2
      their patenting activity and find this sort of thing
 3
      going on, which is they're using patents in two ways.
 4
              One we call super patents, which is in
 5
      order to really have a right to exclude in the
     marketplace in the modern patent law, you need a lot of
 6
 7
      patents, both because you need to have room to operate
      for future innovation, if you're a company that's doing
 8
      a fair amount future innovation. You can use a set of
 9
      patents to attract related inventions to your company if
10
      you can build up a scale of patents that keep people out
11
12
      of your marketplace.
13
              You can, in fact, attract inventions. It avoids
      litigation. We heard a lot about that this morning,
14
15
      about how people -- one of the strategies of litigation
      avoidance is to throw your own stack of patents on to
16
17
      the table and tell your opponent to deal with it.
18
      increases your voice in the political economy of the
19
      patent system which is becoming, as patent reform gets
20
      to be a closer and closer to reality -- becomes a more
      important feature.
21
22
              We've seen the IT industry in particular become
23
      very active with a voice in the politics of the patent
24
      system recently which I think is likely to go down to
25
      their benefit in some way and enhances efforts to
```

```
1
      attract capital.
 2
              The other reason you use it is just for hedging
 3
      purposes. It addresses a lot of uncertainty to have a
 4
      lot of patents. You are no longer relying on any
 5
      particular patent or even particular specific technology
      or invention, you expand your freedom of R&D in the future -
 6
 7
      future market conditions, future competitors and patent
 8
      law.
 9
              So, if the Federal Circuit changed the written
      description requirement tomorrow, half of your patents
10
      might be invalid but if you still have 10,000
11
12
      patents, only a few thousand of them are probably still
      likely to be invalid, so you have less concern in that
13
14
      regard.
15
              So, the current patent intensity would be the
16
      expected consequences of the rise of patent portfolios
17
      and not really a paradox. The individual patent value
18
      is unrelated to patenting decisions. If anything, you
19
     might think about this is an inverse relationship, meaning
20
      as patent value becomes more diminished or even
      uncertain, the only strategy you have then to
21
22
      defeat that as a player in the patent system is to get
23
     more -- or a larger portfolio and therefore more patents.
```

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this as we go further along. It explains a lot of

So, there might be increasing feedback effects to

24

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1 patenting patterns that we actually see out there.
```

- 2 Large firms patent a lot. Small firms seem to patent
- 3 more carefully. So, firm size, experience, affects
- 4 portfolio differently since it's simply not possible for
- 5 smaller firms to develop the portfolio that a larger
- 6 firm would and participate in the full portfolio
- 7 market.
- 8 We see a slight increase in share of patents for
- 9 small firms, and in patent litigation patterns. If you
- 10 have fewer patents, you tend to litigate more so you have
- 11 lesser -- in that sense lesser portfolio effects, they
- don't help you as much. So what are the implications of
- this over the long run?
- We think the net effects are probably mostly
- 15 negative. I think that a lot of this is suggesting a
- more complicated and costly patent system. It's harder
- 17 to deal with on a number of levels. It's going to have
- 18 significant distributional effects if more companies
- 19 adopt or continue to adopt a high volume, low quality
- strategy, meaning you need a lot of resources to play
- 21 this game, and smaller firms or universities that have
- less cash to spend on patents are going to be in a sense
- locked, out of this game.
- 24 And potentially some significant
- 25 anti-competitive effects, if it's in fact true, which we

```
are pretty sure it is, that a lot of the transactions
 1
 2
      that are going on now are very large collections of
      patent portfolios, then that is definitely something to
 3
 4
      be worried about from a competition perspective because
 5
      the larger the sort of scope of technology that people
 6
      are cross licensing, the more likely it is that they're
 7
      managing to cause anti-competitive effects.
              There are possibly some advantages to this -
 8
 9
      you're going to generate a lot of additional
      disclosure. Even though I think I agree with Sam that
10
      in most cases we don't think of patents themselves as
11
12
      containing a lot of useful technical disclosure, but that
      is not, of course, the limit of what patents provide
13
      disclosure for, right? The fact that people patent
14
15
      means that then they go on and they give papers or they
      produce products or they do other things that then
16
17
      provide the information about the innovation, even if
      the patent itself isn't a particularly great medium for
18
19
      transferring the technological knowledge.
20
              A portfolio focused innovation strategy, if you
21
      are really serious about crafting a patent
22
      portfolio or are really thinking of where the gaps are
23
      in your technology that you want to go and invent and be
```

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very careful about what you're doing in terms of

building portfolios. That, in terms of social

24

25

kinds of patents they're getting and why.

3

12

innovation.

```
benefits, might be quite beneficial because it suggests
that people are in fact doing a deep analysis of which
```

4 We were not sure that most of the companies 5 -- certainly not the ones we studied in any detail are doing this. It seems more like they're just 6 7 throwing a lot of money at a problem and trying to generate as many patents as possible. But you could 8 9 imagine a portfolio building structure, a scenario or strategy where people were actually doing things 10 in the way that you would want in terms of supporting 11

Another advantage is - it certainly is clear 13 14 that a lot of firms are staying in the patent system, 15 and one of the things we need to think about, in terms of policy for the patent system, is whether there are 16 17 alternative mechanisms for protecting your knowledge assets. 18 Trade secret is a primary one. Other things are not 19 patenting at all, changing the design of your product so 20 as to avoid discovery, different kinds of license 21 agreements. There are ways to protect your assets without 22 getting in the patent system. Many of these ways from 23 a social perspective, at least in my view, are more 24 negative in the patent system, even with the problems 25 the patent system has. So, at least if people are

```
1 engaging in a portfolio strategy, they are in the patent
```

- 2 system and in that sense can be reached by patent
- 3 reforms.
- 4 There are and of course -- more of my recent
- 5 work has gone into the fact that high volume, low
- 6 quality strategy actually complements a bunch of other
- 7 incentive effects that we currently see in the patent
- 8 system.
- 9 Right now, the patent system strongly encourages
- 10 patentees to defer clarity at all costs, which means
- 11 basically avoid telling people what your patent says,
- 12 particularly the PTO at an early date, defer as much as
- you can any detailed explanation of what your claim
- 14 terms mean. Don't disclose any more than you absolutely
- 15 have to.
- There are a variety of legal doctrines that are
- 17 causing this problem. I think all of these are deeply
- 18 unfortunate and are simply encouraging people to
- 19 make their patents as unclear as possible. It's a
- 20 perfectly rationale strategy, by the way, on the part of
- 21 the patentee to do this and has I think very strong
- 22 negative consequences.
- This also feeds into institutional incentives,
- 24 right? We have major problems with -- the PTO has a
- 25 major political problem in that it has what appears to

```
1 be about a million patent applications sitting on desks
```

- 2 and a lot of people agitating for them to get that
- 3 backlogged clear. We can certainly predict one way
- 4 they're going to do it which is simply start issuing a
- 5 lot more patents, and that I think is not likely to be a
- 6 good result.
- 7 It also feeds into some cognitive biases that
- 8 I'm happy to go into in the Q&A. It suggests that these
- 9 incentives supporting this modern high volume, low
- 10 quality strategy are pretty durable, sort of structural
- 11 to the patent system, and at least leads me to the
- 12 conclusion that they're going to be pretty difficult to
- 13 attack in any meaningful way, and any solution is going
- to be a pretty costly trade-off.
- 15 I actually spent last fall in Japan because
- there's a sense among a lot of academics and people who
- in the patent system that whatever they're doing in
- 18 their patent system is better. They're doing sort of a
- better patent quality job, and the bottom line I found
- absolutely no evidence to support that. They have
- 21 essentially the same set of problems we talked about
- 22 here, monster backlog, lots of political pressure,
- 23 trouble with the difficulties of examining, not enough
- 24 time.
- You talk to the examiners, they talk about

```
1 exactly the same sorts of problems our examiners are
```

- 2 having. An invalidation rate in litigation that looks
- 3 incredibly similar if not worse than here, around 50
- 4 percent, so in that sense it's hard to see how we
- 5 should -- we should not expect, at least in my view,
- 6 that PTO is going to provide any sort of help for a high
- 7 volume, low quality patenting strategy.
- 8 The incentives are simply too large. There
- 9 are certainly lots of things you can do at the PTO to
- 10 make the trains run on time better and may not even be
- 11 very harmful. I mean, you may actually get some benefit
- to society from doing them, but I don't think you're
- going to get any actual gains in terms of patenting.
- 14 So what can you do? Well, you could reduce low
- 15 volume patents by simply changing the cost structure,
- shifting a lot more cost to patentees, making it much,
- much more expensive to patent. That would certainly
- 18 help. That has a number of obviously unfortunate
- 19 effects as well.
- It creates distributional problems with who can
- 21 patent, and perhaps we can do some of this, but I would
- 22 be very cautious about doing so because that has
- obviously a number of distributional problems with small
- 24 companies.
- 25 You could reduce information costs. I think

```
1 this is where the big gains are is work on notice
```

- 2 function. I have written a lot on claim construction.
- 3 I think that's fundamental to the patent system. The
- 4 fact that we cannot figure out claim construction is
- 5 deeply harmful to the patent system.
- I don't agree with Mark that it's completely
- 7 broken. I think we actually had rules that were going
- 8 in the right direction but we've taken steps back in
- 9 recent years, and then taking some -- there are
- disclosure requirements more seriously than we do.
- 11 You can reduce the cost of portfolios once
- they're out there. You can take in more permissive
- approach to mass licenses, but of course this has
- 14 competitive effects potentially, important competitive
- 15 effects so we should consider that as well.
- There's a series of more radical approaches.
- 17 You could treat patents as a form of pollution and have
- 18 a cap and trade system where you limit the amount of
- patents that people can get per year and let them trade
- 20 permits to get them, and that's not a particularly
- 21 serious suggestion. But, I'm thinking that those are the
- 22 sorts of order of magnitude of solutions that we need to
- think of if we really want to change the system from
- 24 the current sort of high volume, low quality strategy to
- 25 something else.

```
So this is sort of the end. The whole is
 1
 2
      greater than the sum of the parts as patents, and we
 3
      need to understand the patent system in that light and
 4
      not in the traditional light of each individual patent
 5
      matters as its right to exclude, so thank you very much.
 6
      Happy to hear comments.
 7
              MS. MICHEL: Thank you to all our panelists.
 8
      That was really super and covered a lot of in-depth
 9
      information, so what we'll try to do in the discussion
      period is partly to get your reactions to each other.
10
      You all did a great job of presenting different
11
12
      information, and so it would be good to hear your
13
      responses.
              I wanted to start with some of the issues that
14
15
      Stuart brought up talking about technology transfer from
      entrepreneurs and start ups into larger companies.
16
17
      What's your sense of how frequently start ups and
18
      entrepreneurs hope to commercialize their inventions
19
      themselves as opposed to transfer that information,
20
      transfer that technology to another company in the hopes
21
      that the other company will actually get it to market?
22
              I think what I'm getting at here is:
23
      important for entrepreneurs are these markets for
      technology? Anybody?
24
25
              PROFESSOR LEMLEY: My sense, Stu might have
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1 evidence more directly that assesses that question. He
```

- 2 talked a little bit about the 5 percent number.
- 3 My sense is that almost always start-ups go into
- 4 business because they want to make a
- 5 product, because they want to make it big, right?
- There are companies now who go into the business
- of collecting patents, and I guess that's a somewhat
- 8 different exception to consider, but nobody who develops
- 9 a new technology develops a new technology thinking,
- 10 boy, I really hope not to practice the invention but to
- 11 ultimately get patents and sue other people who do
- 12 practice the invention.
- 13 PROFESSOR POLK: Now, although maybe in the
- semiconductor industry, I mean, I think one way of
- 15 looking at it, right, is that there are design firms
- 16 that start up all time. There are specific -- they have
- no intention of ever building anything at all. They're
- 18 just there to design, right?
- 19 PROFESSOR LEMLEY: That's right. That's right.
- 20 So the question of what do we mean by practicing the
- 21 invention I think requires some industry specific
- 22 attention, right, because we can certainly have and
- 23 patents can certainly encourage vertical integration.
- I can make a piece of the puzzle and then kind
- of put that into the downstream market, particularly in

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1 semiconductors where it's an industry that requires
```

- 2 substantial investment to produce the end product.
- 3 MS. MICHEL: Also, if anyone would like to
- 4 speak, you can turn up your table tents, and also feel
- 5 free to contribute. I don't mean to stifle the
- 6 discussion here.
- 7 You talked a little bit about the varying by
- 8 industry. For instance, in the biotech industry, it's a
- 9 common model to develop your technology and then hope to
- 10 get purchased by a big pharma company, not really any --
- 11 necessarily a thought early on of getting that drug to
- 12 market yourself.
- Does that model also take place in the IT
- industries? And, Stuart, and any other comment.
- 15 PROFESSOR GRAHAM: Well, I did want to say
- 16 that -- so let me just chime in on something that Mark
- said before, and that is I think it's a plausible
- 18 hypothesis, what you've set up. Hopefully we'll be able
- 19 to answer some of those questions in the data.
- I am just obviously churning out for you now the
- 21 most grossest statistics, but obviously with the age of
- 22 the firm, we'll be able to see if these -- and more
- 23 narrow sectors we're going to be able to see if firms
- 24 are actually developing more of a licensing strategy
- 25 over time.

```
1
              I will say also, chiming in and dovetailing on
 2
      what Polk said, I think that this is a -- particularly
      in complex technologies, right, where you have a lot of
 3
 4
      opportunity for vertical specialization in markets, it
 5
      seems that this is just a more substantial opportunity
 6
      for firms.
 7
              Having said that though, onto the second
      question: How does this play itself out in terms of
 8
 9
      acquisition as a strategy? I'm actually working with a
      graduate student now, and what we're trying to do is
10
      model and then bring empirical evidence to bear on
11
12
      whether there are differences in the way in which patent
      portfolios are built given the incentives or given the
13
      intention of the firms in terms of how they see their
14
15
      exit event.
16
              I've asked some people about this out in the
17
      field and they say, oh, there's certainly differences in
18
      the way that patent portfolios are built, and then I ask
19
      other people and they say, absolutely not, you build for
20
      value, and that's what you do, so hopefully we'll be
21
      able to say something in the coming months more
22
      systematically.
23
              MS. MICHEL:
                           Iain?
24
              PROFESSOR COCKBURN: Actually I think this
25
      phenomenon of hoping to be acquired or a pure licensing
```

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1 model is most visible in sectors like biotech, pharma,
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- 2 but I think it's actually quite prevalent elsewhere.
- 3 The actual incidence, I don't think anybody really knows -
- 4 until Stu gets back to us. But, we would offer the
- 5 observation that, for example, during the 1990s, the
- 6 only real good way to make money in Silicon Valley was
- 7 to get acquired by Microsoft.
- 8 That's obviously a gross simplification, but I
- 9 think the point to be learned from this is that
- 10 vertical market structure really matters
- 11 here. The problem in bio-pharma is that between small
- 12 biotechs and the end users stand large companies who
- 13 effectively control manufacturing, distribution, and
- 14 marketing.
- The pathway to get to market is long, requires
- 16 capabilities these small companies don't have. In this
- discussion, however, is the potential source of
- 18 inefficiency arising from a market for technology which
- is consider the large pharma's problem, increasingly the
- 20 numbers show this very dramatically -- increasingly they
- 21 rely upon sourcing technology from upstream, either by
- 22 acquisition or through partnerships or licensing deals
- and so forth.
- The efficiency benefit we ought to get, though, is
- from specialization, but from large pharma's

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1 perspective, they can't abandon doing basic research in
```

- 2 molecular biology and hope to rely simply upon acquiring
- 3 it from upstream. Otherwise, they're extremely
- 4 vulnerable to hold-up from upstream, so there's a cost to
- 5 opening up this market for technology in that the big
- 6 pharmas still have to continue investing in basic
- 7 research in order to have an alternative to go elsewhere
- 8 in the event that they don't like the prices that
- 9 they're facing from upstream.
- 10 MS. MICHEL: Does it make sense to think about a
- distinction between a market for technology that
- involves this kind of tech transfer being acquired through
- licenses to a manufacturing company versus a market
- 14 that's about clearing patent rights? A manufacturing
- 15 company independently creates the product, gets it out
- there but needs to clear the rights? Mark?
- 17 PROFESSOR LEMLEY: Well, certainly I think it
- 18 makes an enormous difference at an economic level.
- 19 The question is whether you can operationalize a legal
- 20 definition that treats those two differently.
- So, I think we could actually solve a significant
- 22 number of the problems around the litigation of use
- 23 hold-up issue if we had a way of distinguishing between
- 24 licenses and/or litigations that were at their heart
- about technology transfer. That is where information is

```
1 actually passing from one to another, and licenses that
```

- 2 were not -- that maybe involved independent
- 3 invention in Sam's formulation.
- 4 The problem is once you create a rule that
- 5 starts to distinguish between those two, every license
- 6 agreement will give you technology transfer whether you
- 7 want that technology transfer or not, whether it's
- 8 helpful to you or not, so, in terms of thinking
- 9 conceptually about the industries, I think
- 10 the number of people who go into the business to become
- 11 patent asserters or patent license revenue collectors is
- 12 relatively small.
- But there are a significant number of people who
- 14 go into the business, as Stu and Iain and Polk suggest,
- 15 to engage in technology transfer, sell out the know how,
- maybe go in-house, be bought up and working for a new
- 17 company that will manufacture the product and so forth.
- 18 MS. MICHEL: Thinking about technology transfer,
- what's the effect of the ambiguity and the uncertainty
- 20 surrounding the patent system as opposed to all of the
- 21 other uncertainty, for instance, associated with the
- 22 technology? Is the patent system really the problem in
- 23 that kind of technology market where we're transferring
- 24 an actual technology to be developed by a manufacturing
- company, and what should we do with the patent system to

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1 deal with those issues.
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```
2 Polk?
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- 3 PROFESSOR WAGNER: Right. Well, I think as Iain
- 4 suggests in his presentation, there are just inherent
- 5 impracticable problems in trying to value
- 6 information at all, and so talking about sort of an
- 7 efficient market and knowledge transfer is difficult to
- 8 do even in a best case scenario because you have all of
- 9 the levels of uncertainty that you were just discussing.
- I do think that the patent system, the lack of
- 11 certainty surrounding the patent system is not helpful,
- and I think Stu had a slide showing how it just eats
- away at what would otherwise be the welfare gains.
- I mean, one of the things we think patents do or
- should do for us is provide people the ability to
- transact around knowledge assets that would otherwise
- not be possible, and if you don't have enough, every bit
- 18 of uncertainty that develops undermines that potential
- 19 gain to a significant extent, so from that perspective,
- 20 I certainly think that the lack of certainty in the
- 21 patent law is very significant and should worry all of
- 22 us.
- MS. MICHEL: Iain?
- 24 PROFESSOR COCKBURN: I agree. I think that the
- lack of clear title, whatever analogy you would draw to

```
1 real property, is certainly costly and distracting. I
```

- 2 do wonder though how serious this problem is in relation
- 3 to other sources of risk and uncertainty in the market
- 4 for technology.
- 5 It strikes me that the conversation today has
- 6 largely stirred away from recognizing a very critical
- 7 factor of most of these transactions which is
- 8 prospective deals about something that might happen in
- 9 the future. An economist looking and trying to value
- 10 a license agreement is going to be critically looking --
- 11 when I look at them, I understand them as ways to share
- 12 risk between the licensor and the licensee.
- Many of them, as we know, are complex documents, a
- lot of contingent payments, and there's a royalty on net
- 15 sales of something which is not yet produced or even
- 16 defined. And my sense is that's the first order source
- of risk and uncertainty that participants in this market
- 18 are dealing with, and that the title problem, if you
- 19 like, is secondary.
- MS. MICHEL: Since we are talking about the
- 21 patent system, any thoughts, Mark, you said we can't
- 22 solve the uncertainty problem, but what can we do to
- 23 make it better and any other comment that you were going
- 24 to throw out there?
- 25 PROFESSOR LEMLEY: Well, the comment I was going

```
1 to throw out was that I think this problem is industry
```

- 2 specific, and it varies widely. In the software
- 3 industry you go ask venture capitalists -- wave
- 4 everyone [in the audience to get the lights back on] -- the
- 5 software industry venture capitalist might care that the
- 6 start ups have patents. They probably care -- they probably
- 7 don't know and almost certainly don't care whether those
- 8 patents are valid, what the claim construction is going to
- 9 end up being and that sort of thing.
- 10 By contrast in the pharmaceutical industry,
- 11 pharmaceutical companies will not enter into new drug
- investigations unless they're confident up-front that
- they have a patent portfolio that will cover those
- 14 drugs.
- 15 What can we do about certainty? Look, I mean, I
- think there are a number of things you can do to try to
- gather better information, either cheaper or earlier
- 18 than we do it in the current system. Bhaven Sampat
- and Doug Lichtman and I have proposed that we
- 20 ought to try to harness information in the hands of the
- 21 patent applicant by sorting applications into those who
- 22 are willing to pay for extra scrutiny to get a stronger
- patent and those that are not.
- I think a post-grant opposition system gathers
- information in the hands of competitors about which

```
1
      patents are important and which ones are not and uses it
 2
      to make earlier and somewhat cheaper decisions on the
 3
      validity of that patent than we would get in court.
 4
              It may be that in certain industries we can use
 5
      something like the peer to patent peer review project to
      try to scrutinize applications effectively at no cost to
 6
 7
      the Patent Office, so I think there are lots of things
      you can do, and then I think there are specific ways you
 8
 9
      could get greater certainty in the damages rule than we
      have right now for example.
10
              But I think the toughest one and one that I just
11
12
      don't see a clear way to solve in most industries is the
     meaning of the patent, the peripheral claiming system
13
      that tries to define the boundaries of what the patent's
14
15
      going to cover including technology that doesn't yet
      exist in many cases, just doesn't work outside of a few
16
17
      industries like pharmaceuticals and DNA where we have a
18
      clear nomenclature that everybody understands the
19
     meaning of.
20
              MS. MICHEL:
                           Stuart?
21
              PROFESSOR GRAHAM: Yeah.
                                        Just I'll chime in a
22
      couple things that Professor Lemley said. Again,
23
      running back to our survey, he's right, there are
24
      significant differences in the way in which the firms
```

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from these two industries, IT versus biotech, are

25

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1 telling us that the venture capital cares about, whether
```

- 2 the firm has patents or not.
- Now, technology firms are much more likely to
- 4 tell us that their investors care. The other thing we
- 5 find is that the biotech firms are paying significantly
- 6 more for their patents, which suggests either that
- 7 they're more complex or that they're just taking a lot
- 8 more care in the type of things that they're buying from
- 9 the Patent Office or intermediaries.
- I mean, on this question of inefficiencies in
- 11 the system, I go back to a professor of mine, David
- 12 Teece, and Teece had taught me originally that there are
- a lot of substantial problems associated with
- 14 transacting over intangibles. The opportunities
- are much harder to recognize. It's much harder to find
- 16 parties for the transaction.
- Disclosure itself over intangibles is very
- 18 difficult and often wrapped up with tacit knowledge
- 19 that's difficult to codify and knowledge about which
- it's a difficult to transfer, and the boundaries, the
- 21 boundaries that we've been talking about. I still --
- 22 I'll swing back again to the prospect that looks I guess
- 23 over the last couple of weeks improved of actually
- 24 getting a post-grant opposition system.
- 25 Again on the narrow ground of being able to

```
1 increase certainty over the validity and boundaries of
```

- 2 these things reasonably early in the process, and this
- 3 has the added feature of also offering some sort of
- 4 reasonably quick feedback to the patent examiners. If
- 5 they're getting feedback within a year as to the
- 6 validity of their work product, that seemingly could
- 7 only help in that quality process as well.
- 8 MS. MICHEL: Does your comment suggest that start-
- 9 ups should actually want post-grant review in the sense
- 10 that if they survive, that they've got something better?
- 11 Do you know if that is actually something they want.
- 12 PROFESSOR GRAHAM: I've actually spoken to a lot
- of folks at small firms. I hear differently. Some are
- 14 fearful of being opposed to death, but others with whom
- 15 I speak actually believe -- and particularly those that
- have an experience in the European system where they
- actually were involved in this system, even though
- 18 they're at small firms, they believe and have told me so
- that more certainty in the system can only help them
- 20 ultimately.
- MS. MICHEL: Okay. Polk?
- 22 PROFESSOR WAGNER: So I wanted to just quickly
- 23 respond to Mark which is I think we can solve claim
- 24 construction.
- MS. MICHEL: Get better? Maybe solves is too

```
1
      strong.
 2
              PROFESSOR WAGNER: Solve is probably too strong.
 3
      We can certainly get further along the line, and I think
 4
      that the key is essentially what he said, which is in
 5
      areas where we have a fairly well understood set of
      nomenclature, then it works, and it works reasonably
 6
 7
             Is it a hundred percent predictable? No, of
      well.
      course not. It never will be.
 8
              I think if we actually were serious about claim
 9
      construction rules that force patentees to define what
10
      they meant by their claim terms in a way that people
11
12
      could actually understand what they meant, then you're
      going to get a lot better patenting.
13
              The problem we've had is for the last 20 years
14
15
      the Federal Circuit has tried different things with
      respect to claim construction methodologies. The PTO
16
17
      has never been on board with claim construction
18
     methodologies at all, and in fact took the position in the
19
      Philips case that they don't even do claim construction
```

So in that environment, no, we're not even close to getting the way we should get in claim construction, but I think we would be deeply remiss in giving up on it because I think that is the one area that we can really

so think between that for a minute and whether that

20

21

makes any sense.

make significant gains in terms of the notice function

1

```
2
      of patents.
 3
              MS. MICHEL: How might you do that? How might
 4
      you force patentees to say what they mean?
 5
              PROFESSOR WAGNER: Well, you can do a variety
 6
      things. You can have the PTO take claim construction
 7
      seriously for one thing, either by forcing patentees to
      be quite clear about what it is that they mean. You can
 8
 9
      force patentees to provide a glossary of any important
      words in their patent, and many patentees already do
10
      that, but sadly not enough, and in fact the incentives
11
12
      are generally the other way.
13
              You can -- I thought that the Federal Circuit's
14
      three or four year attempt to go towards a dictionary
15
     meaning which had a number of problems in the transition
      period when patents were not in fact drafted in that
16
      light, if it was kept over the long-term would in fact
17
18
      result in greater certainty because people would draft
19
      their patents according to known definitions, and we
20
      would then get an expected result at the other end.
```

It didn't work at all. It had serious
transitional problems of course, which is what we were
seeing and why I think they abandoned it, but I think
that there's a variety of specific tactics you could use
to increase at least the -- decrease the scope of

```
1
      uncertainty with respect to claim construction.
 2
              MS. MICHEL:
                          Is your suggestion of having the PTO
      doing claim construction and enforcing patentees, to be
 3
 4
      clear, are you thinking about stronger enforcement of
 5
      the definiteness requirement in 112?
              PROFESSOR WAGNER: That's certainly one way,
 7
      right.
              We could be serious about the indefiniteness
      requirements, particularly at the PTO where they don't
 8
 9
      in fact take it particularly seriously in my view and
      require patentees that don't provide a sufficient level
10
      of detail with respect to what it is they mean, that
11
12
      they have to either define something very clearly in
      their specification or at minimum tell the Patent Office
13
14
      during prosecution that that's what they mean.
15
              You could do a variety of other things.
16
      Academics have proposed things like a standard set of
17
      dictionaries for particular technological areas that are
18
      then widely accepted or the default presumption
19
      is that you get those meanings. You can obviously
20
      vary it if you have any reason to, but it would force the
21
      patentees to either accept the default meaning or say
22
      something that would indicate to the public that they're
23
      not using the default meaning -- instead of what they do
24
      now, which is be as vaque as possible, avoid any
25
      expression of meaning with the hope that when they get
```

```
1 to litigation, they can broaden the meaning beyond what
```

- 2 the Patent Office assumed it was.
- 3 MS. MICHEL: Sam?
- 4 PROFESSOR VERMONT: Yes. So the definiteness
- 5 requirement, being strict about that is a no-brainer.
- 6 That's something it seems like we really ought to do.
- 7 There's I guess older case law now, but some Federal
- 8 Circuit case law saying that a claim will not be held
- 9 invalid for indefiniteness unless it's insolubly
- 10 ambiguous, and then goes on to talk about -- even though
- 11 reasonable people could spend a lot of time looking at
- it and if they end up disagreeing, that's not insoluble,
- 13 right?
- 14 Then there's a later case where -- a 2005 case
- 15 where the Federal Circuit says only, if it's a severe
- 16 defect. Now, there's some other cases that don't use
- 17 language that's so forgiving, but all of that -- but
- 18 even in those cases I think the standard isn't high
- 19 enough.
- It seems that the standard should be what the
- 21 statute says or for starters which is that the claim
- 22 should be clear -- it says particularly and distinctly
- 23 claim the invention that the applicant regards as their
- invention, so I would think particular in distinct
- 25 should be the standard and also that what the applicant

```
1
      regards as the invention may be a separate component.
 2
              That may be an additional thing and the CCPA
      recognized it as such, but I'm not aware of any recent
 3
 4
      cases.
              So we may get some mileage out of that.
 5
              We could also consider the possibility of
      changing the presumption of validity with respect to
 6
 7
      definiteness, so if the courts aren't willing to drop
      the clear and convincing burden with respect to all
 8
      aspects of validity, perhaps we can just target
 9
      definiteness and say with respect to definiteness, the
10
      standard is preponderance of the evidence.
11
12
              The lexicographer rule is somewhat problematic.
      So, under this rule, applicants can define things as they
13
      wish, and they don't have to explicitly do so. They can
14
15
      just do so implicitly by the way they write their
16
      specification.
17
              Perhaps we should modify that rule so
18
      that it's still available, but only when standard
19
      terminology is not readily available to the inventor,
20
      and the standard technology would not suffice to
      describe the invention. Then, additionally if you
21
22
      have to use special language, if you have to adopt an
23
      idiosyncratic meaning for something, then you would have
```

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to say so explicitly somewhere in your specification.

Iain?

MS. MICHEL:

24

25

```
1
              PROFESSOR COCKBURN: I think it's worth
 2
      reflecting here where markets function effectively and
 3
      what kinds of property rights are well priced and traded
 4
      in high volume and are liquid. Where we see an ounce of
 5
      gold, a barrel of oil, a bushel of wheat, a hundred
      shares in IBM, these are well defined -- the treasury
 6
 7
      bond futures contract, you start with a precision in the
      definition, and from that the rest of the market seems
 8
 9
      to follow.
10
              And I think the -- I was struck when I was listening
      to Jim Malackowski this morning -- that even before I was
11
12
      working on my doctoral thesis, economists were trying to
      come up with ways to value patents and intangibles Zvi
13
14
      Griliches and others were at this for a long
15
      time.
16
              Notwithstanding much improvement of the
17
      volume of data that's available and the statistical
18
      methods and all the rest of it, we're still stuck pretty
19
      much where I think Ocean Tomo or any other participant
20
      in these markets is stuck, with the things you can see
21
      about a patent and the methodologies for valuing patents
22
      and so forth, these are very blunt instruments. We
23
      count citations. We count the number of claims.
24
              I've struggled for 25 years to think of any way
25
      of doing a meaningful study in which you could measure
```

```
1 the scope of a patent except by paying $25,000 per
```

- 2 patent to a trained attorney to come up with some
- 3 customized map, and I think that's a very
- 4 fundamental problem. If you want to have these objects
- 5 traded frequently in liquid markets, that the lack of
- 6 standardization is very, very profound.
- 7 MS. MICHEL: Any reactions to PTO proposals or
- 8 other ideas to place more burden on patent applicants to
- 9 bring more information into the Patent Office, into the
- 10 prosecution process describing what's in the prior art
- and why the invention is different? Would that help
- 12 better define patents? Mark?
- 13 PROFESSOR LEMLEY: It might help better define
- 14 patents. It might help weed out bad patents, but of
- 15 course it's going to do so at a cost, and the question
- to me is whether the cost is worth paying, and that's a
- 17 complex question. The answer is clearly sometimes, yes,
- 18 the cost is worth paying. If we could distinguish
- 19 between applications that turned out to be important and
- applications that are unlikely to turn out to be
- important, that would help so I have some proposals for
- 22 doing that sort of thing.
- But then the other factors that go
- into the complexity are: Is this search going to be
- done anyway? Have you filed your application in a

```
1 foreign jurisdiction, for example? Can you engage in
```

- 2 work sharing to do the search? And how is the quality
- 3 of the search going to differ from the applicant's
- 4 search compared to the examiner's search?
- 5 Bhaven Sampat and I have done some work suggesting
- 6 really whether substantial variation by examiners in the
- 7 quality of the searching that they do based in
- 8 significant part on how long they've been at the Patent
- 9 Office, not perhaps in the way you would think, the
- 10 longer they've been at the Patent Office, the less
- 11 searching they do, the less prior art they find.
- But then there are also psychological effects,
- 13 right. Is an examiner going to be more likely to
- 14 understand and/or pay attention to art they find
- 15 themselves rather than art than somebody has handed to
- them from outside? And so I mean, I think the answer is
- 17 we need -- we ought to have a reasonable search at a
- 18 reasonable cost. We ought to get the applicants to do
- 19 that only if we think they are better positioned to give
- 20 us that information than the examiners are.
- They might in fact be, but I'm not totally
- 22 persuaded of that.
- MS. MICHEL: What about beyond the search,
- requiring patent applicants to say more about the prior
- art that they have found?

```
PROFESSOR LEMLEY: So the PTO rules that were
 1
 2
      upheld in Tafas v. Dell in the Federal Circuit quite
 3
      recently require this for large applications basically.
 4
      I think it's a good idea, but I think it does raise
 5
      substantial red flags for the patent applicant because
 6
      of the possibility that information can be used
 7
      against them in a court of law.
              And so I think we need to pair that idea
 8
 9
      with some sensitivity on the part of the courts in
      inequitable conduct cases that compelled
10
      statements not be the basis for inequitable conduct
11
12
      unless it really does look like they were deliberately
13
      false.
              My guess is the Federal Circuit is getting that
14
15
      message and will move in that direction, but that's a
16
      question that we have to wait and see to some extent.
17
              MS. MICHEL:
                           Stuart?
18
              PROFESSOR GRAHAM: There are already
      requirements that aren't working, and that just suggests
19
20
      to us that the patent applicants are rational.
                                                       So, we
21
      can expect that -- Mark and others have told us that the
22
      patents are probabilistic. Well, it's also true that
```

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will be probabilistic as well.

the likelihood of being caught for inadequate disclosure

Maybe that will work to our advantage by

23

24

25

```
1
      shifting those responsibilities over to the applicant
 2
      because the applicant will be more likely to do adequate
 3
      searching under the new requirements when they know they
 4
      have a valuable property that's worth doing something
 5
      with, but I'm not convinced that overall it's going to
      correct the problem.
 6
              MS. MICHEL: Okay. Mark raised the idea of
 7
      transparency and I would be interested in hearing
 8
 9
      others responses to that. Would it be helpful to
      increase transparency in the market for starters?
10
                                                         Iain?
11
              PROFESSOR COCKBURN: I think Mark made the
12
      strong form case for more information, much of the
13
      information about transactions in IP being made public.
14
      This morning, I got the distinct impression from
15
      practitioners that they're very anxious that the
16
      disclosure is somehow profoundly damaging.
17
              That may be the case. I think we just don't
18
             I don't think I would go as far as Mark
19
      wholeheartedly in favor of more transparency. I'm not
20
      quite sure that complete transparency is the answer.
21
      There are a couple of subtleties to this that I think
22
      are worth thinking about, one of which is the competitive
```

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competitors and also the competitive advantage from

disadvantage from disclosing information to my

reviewing their disclosure.

23

24

25

```
1
              We've seen sort of -- economists would point to
 2
      "What's the equilibrium outcome on the different rules?"
 3
      I think you very frequently hear from people who
 4
      practice. Practitioners are concerned about the
 5
      immediate private interest of their enterprise or their
 6
      client.
 7
              They see a small disadvantage, private
      disadvantage to disclosure, and that's enough to stop
 8
      them from doing it. Collectively failing to disclose
 9
      information can be socially very costly. Another
10
      example of this I think is very clear in the biomedical
11
12
      research.
              One of the world's greater repositories of the
13
14
      clinical knowledge is in the basement of FDA, and no one
15
      can access it or get at it because there's a conviction
      on the part of, particularly, the legal people in the
16
17
      pharmaceutical industry, that somehow letting your
18
      competitors know about your dry holes or failed projects
19
      or difficulties which were enough to stop a project
20
      would be damaging.
21
              It might well be damaging, but I've been to a
22
      number of meetings where, providing there are no suits in
23
      the room -- so if you have the scientists, they can all
24
      agree that the progress of science will be greatly
25
      speeded up if only there was broader access to this kind
```

```
1
      of knowledge.
 2
              The moment you bring one lawyer or business
 3
      person in the room, it all stops. I think that you can
 4
      see very clearly that failing to disclose all kinds of
 5
      information which individually might presumably be
      costly to the enterprise is enough to stop them from
 6
 7
      doing it, and I think that we just don't really have
      any evidence either way.
 8
              We've been looking at the markets for IP whether
 9
      the requirements to disclose. As was pointed out I
10
      think that especially the small enterprise end of the
11
12
      spectrum, they have to disclose if they want to go
13
      anywhere near the SEC because any agreement they write
14
      is material, and they've got to disclose, and you can go
15
      and find it on the SEC web site.
16
              That requirement doesn't seem to have a
17
      detrimental effect on investment or our progress of the
18
     biotechnology sector. They all have to -- all their
19
      agreements or most of their agreements become public,
20
      but I think this is an area where finding a way to
```

- owning up to anything will I think really make a
- 24 difference.

21

22

MS. MICHEL: Polk?

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collect meaningful data about the actual cost of disclosure

as opposed to the deep seated fear of inside counsel of

```
1
              PROFESSOR WAGNER: One question -- just to dovetail
 2
      off of whet Iain was saying -- is it's not entirely clear,
      and one other dimension of this is it seems quite likely we
 3
 4
      don't need to have every bit of information out there in
 5
      order to make these secondary markets work a lot better
      than they do now. We just need enough information for
 6
 7
      people to make reasonable decisions on are a variety of
      levels, and that may be something far less than
 8
 9
      requiring every single transaction that occurs around a
      patent to be disclosed.
10
              Although as researchers we love to say
11
12
      we want all the day that's possible, markets function
      all the time with incomplete data, and so one of the
13
      things I thought was rather compelling that we heard
14
15
      this morning was the private market might provide a lot
               We're getting some disclosure through the SEC
16
      of this.
17
     process.
               We're getting some disclosure through
18
      auctions. We're getting some disclosure through -- if
19
      the sorts of stock markets for patents actually occur,
20
      we're going to get some disclosure that way.
21
              And one thing to think about is whether we
22
      should wait and see if we don't get the quantity of
23
      disclosure we need just through private activities
24
      rather than trying to mandate something.
25
              The problem with mandating something is always
```

```
is whether you get gaming the system, whether you get
```

- 2 people telling you things that aren't true, whether you
- 3 get people restructuring transactions to avoid that
- 4 looking like a patent transaction in order to keep it
- 5 out of the disclosure requirement, so those are the
- 6 things that would sort of concern me with trying to
- 7 mandate it broadly.
- 8 MS. MICHEL: Iain.
- 9 PROFESSOR COCKBURN: I don't mean to hog the
- 10 microphone here, but I have another thought I wanted to
- 11 put on the table here which is that well functioning
- markets that we can point to immediately tend to be ones
- where there is a lot of mandated disclosure, and if it's
- 14 not mandated disclosure, there's a great deal of public
- 15 energy and resources put into collecting and publishing
- 16 data.
- So I think that one of the big policy
- 18 problems -- many of the problems thinking about policy
- 19 in this area rise from things built into the system
- 20 which I believe are grounds for despair, like the
- 21 relative amount of money spent on collecting and
- 22 publishing data on pork bellies versus something we
- 23 might actually care about such as transactions and
- 24 intellectual property.
- 25 And I think we don't have a government

```
1 statistical system which can or will collect or publish
```

- 2 this data. I mean, it really is I think kind of
- 3 shocking and shameful. Almost the only place you can go
- 4 to find any information about the size of the licensing
- 5 market is the IRS statistics of income. There's one or
- 6 two tables, statistical tables entitled by the entire
- 7 U.S. government which is any sort of help in this
- 8 regard.
- 9 And one thing, you might think the PTO or some
- 10 other government agency involved in this activity might
- 11 have as part of its mission is to produce information
- which respects the commercial interest of the people who
- are affected by it, that, nonetheless, makes public
- something about the volume of trade, where it's
- 15 occurring, what type of technology what the prices might
- 16 be.
- MS. MICHEL: Why would that kind of information
- be useful to the market? I'm sure it would be useful to
- 19 academics.
- 20 PROFESSOR COCKBURN: No, I think we don't know.
- 21 What is the size of the licensing economy in the United
- 22 States? People throw around all kinds of numbers, but it's
- 23 not clear where they come from. There's that problem,
- specifically, in terms of participants in the
- 25 marketplace. I think a lot of useful information was

```
1 provided this morning, a great deal of common sense
```

- 2 talked about how do you shape the expectations of
- 3 participants coming to a transaction. And all
- 4 the failed transactions I was talking about earlier.
- 5 People don't seem to have the ability or
- 6 willingness to think about formal economic modeling or
- 7 valuation which is based upon data and number crunching.
- 8 Part of the that is because the available data is
- 9 incomplete or too costly to find or we don't know
- 10 where it is.
- I think many of these negotiations fail because
- 12 the two parties are streets apart. If they don't have
- an informed intermediary or a broker in the middle who
- is informed, I think it's one of the main deals, main
- 15 reasons why these deals don't take place.
- 16 MS. MICHEL: Stuart?
- 17 PROFESSOR GRAHAM: I wanted to say, in some sense
- 18 we have to -- we have to ask ourselves what information
- 19 are we after here. Are these -- do we want information
- on one-off patent transfers? Often patents
- 21 are transacted with many other different types of assets
- in ways that there are compliments, patents that
- 23 compliment one another, and together they're worth more
- 24 than they are individually.
- They're offered with other complimentary assets

```
in some sort of transaction, so how do you dissect the
 1
 2
      value of a patent from those other complimentary assets
 3
      that are being transacted over?
 4
              The problem that Iain points to, this problem of
 5
      sort of not having enough study in this area, it just
      reminded me of a conference that both Polk and I were
 6
 7
      speaking in at Berkeley on patent valuation, and two
      things were clear.
 8
 9
              One was that although they really tried to get
      people that were best able to say something about
10
      empirical evidence, about the prices of what's going on
11
12
      out there, there's almost nothing. There is almost
      nothing, and I had gotten up, and as part of my
13
      presentation, I offered some evidence that was collected
14
15
      in Europe from some colleagues of all of ours on
16
      inventor surveys, and I have a lot of problems
17
      associated with inventor surveys.
18
              And there was a large amount of criticism of
19
      using inventors as a source of information as to what
20
      the value of what these things are, but nobody was able
21
      to come up with a better way to collect information and
22
      certainly no one was there that was actively involved in
23
      these transactions that was either willing to validate
24
      or undermine with real numbers whether any of the
```

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information that was presented was reasonable near the

25

```
1
      mark or off the mark.
 2
              MS. MICHEL: Does anyone have any thoughts of
 3
      something, the government collecting in an aggregate,
 4
      genericizing, respecting confidentiality on data, doing
 5
      something less than collecting every licensing
      agreement, which sounds like a monumental task?
 6
                                                       Ιs
 7
      there something that could be useful and yet not go that
 8
      far?
            Iain?
              PROFESSOR COCKBURN: Well, a tempting but surely
 9
      dangerous analogy is to think about real property, and
10
      one of the -- real estate markets seem to function
11
12
      pretty well most of the time. They have a public land
      registry. Every transaction is posted and priced - and
13
14
      of very heterogenous tracts and so forth.
15
              I don't know that -- what would be the burden?
16
      You've been given a public grant of a piece of property
17
      by the Patent Office. All kinds of obligations go with
18
      that, the obligation for the patent owner to post back
19
      in confidence to the Patent Office or to the IRS or
20
      somebody the nature of the payments associated with that
21
      piece of intellectual property, in my view probably
22
      aren't that burdensome nor would there be a particularly
23
      large burden on which ever government agency is charged
24
      with doing this to do something like just aggregate them
```

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up to the level of patent classes for the last quarter

25

```
1 and just report.
```

- We report employment numbers. We report pork
- 3 bellies. We report all sorts of things. Knowing what
- 4 the aggregate value of the mean price or something like
- 5 that at some reasonably fine grain but not so fine
- 6 grained as to really damage interest of the
- 7 patent holder. I don't see how that would be that
- 8 difficult or that costly.
- 9 MS. MICHEL: All right. Any other comments on
- 10 that topic?
- 11 All right. Let's talk about the independent
- invention defense, and is this a concept that applies
- more for one of the other markets I talked about, the
- 14 market for clearing patent rights, transferring patents
- 15 just for the purpose of acquiring freedom to operate.
- This is obviously not a defense that's going to be so
- applicable at all when you have the biotech company
- 18 transferring rights to the bigger pharma company.
- 19 So in thinking about that market for patent
- 20 rights for the purposes of freedom to operate, what sort
- of inefficiencies do we experience there? Why might we
- 22 need the independent invention defense? I want to think
- 23 a little bit about how that market operates.
- 24 Any thoughts about -- is it facing the same
- 25 problems in the sense of ambiguous patent rights and

```
1
      failure of notice. Stuart?
 2
              PROFESSOR GRAHAM: And I'll make this short.
 3
      I'm not going to comment on that per se, but what I will
 4
      do is add some gloss to the question of freedom to
 5
      operate. Time and time again when I was interviewing
      venture capitalists associated with this survey that
 6
 7
      we're doing -- because we did a lot of careful background
      work before we set up the survey. They were telling me,
 8
 9
      time and time again, that the most important reason why
      they wanted the firms in which they were investing -- the
10
      portfolio companies that have patents, was to ensure that
11
12
      they had freedom to operate, room to operate on the
13
      theory that they said they were investing in people.
              Yes, sometimes they were investing in
14
15
      technology, but actually from what I heard that wasn't
      par for the course. Generally they're investing in
16
17
      people and an idea and a direction. They knew that
18
      these people would have to have room to innovate towards
19
      the market, and that's the role, at least, in the lines of
20
      the people that I spoke with, that patents were playing
21
      when they wanted the folks to have them.
22
              So this idea of having freedom to operate
23
      particularly for these young entrepreneurial technology
```

MS. MICHEL: So, in that sense, is that patenting

entrepreneurs is one that's -- it's needed.

24

25

```
so someone else doesn't or patenting for a defensive reason?
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- 3 PROFESSOR GRAHAM: Well, again the way in which
- 4 that role for patents plays with the idea of an
- 5 independent inventor defense is an interesting one.
- 6 MS. MICHEL: Okay. Iain?
- 7 PROFESSOR COCKBURN: I've actually heard the
- 8 different things from VCs and also I think there's some
- 9 work being done on this by David Hsu and Rosemarie
- 10 Zeidonis for example, one thing may be
- 11 venture capitalists don't understand that a patent is
- 12 not an affirmative right. I actually think that's
- 13 not the case.
- Now, getting a patent issued, of
- 15 course, doesn't give the enterprise necessarily some
- 16 clear space to operate. What some of the studies
- being done seem to suggest, and what I've heard from VCs
- 18 is that fighting for a patent demonstrates something --
- 19 there's a certain amount of validation with the
- 20 technology that, at least, it got over the hurdle of the
- 21 overworked and under informed patent examiner.
- But, more often, they're looking -- there's a signal
- that means the principals in this company know how to
- 24 play the game, and there's a signal of the maturity or
- 25 the sophistication of the enterprise as much as anything

```
1
      else in some circumstances.
 2
              I think that much of this problem is all the
 3
      same problem, whether we're talking about uncertainty
 4
      surrounding patent rights or anything else which is
 5
      in -- my two word or third word summary of it is I call
      it the "no midline problem." That is to say many
 6
 7
      technologies have this difficulty that they're not
      codified, searchable or well-defined from the
 8
      perspective of anyone in the system, whether it be the
 9
      applicant producing prior art.
10
              They're not quite sure what might be relevant to
11
12
      their invention. The examiner is not quite sure either,
      nor would be another party to a transaction. The single
13
14
      exception to this, I think that holds in mechanical,
15
      electrical, business methods, software, all kinds of
      technology domains, nobody is quite sure what it is.
16
17
              The big contrast is biotech, biomedical or
18
      chemical carts where there's no ambiguity about what a
19
     molecule is. These are very well defined, and anybody
20
      in ten minutes, I exaggerate, but very quickly can go to
21
      the technology that's exhaustively indicated as a very
22
      standardized vocabulary, is very easily searchable, and
```

MS. MICHEL: Does that suggest that as the IT

and there's a lot of that uncertainty.

23

24

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that clarifies the nature of the rights for everybody,

industry or the software industries develop and

1

16

17

18

24

```
2
      standardize their own nomenclature just as a matter of
      engineering that could help? Polk, you're nodding.
 3
              PROFESSOR WAGNER: Sure. I think I would
 5
      definitely expect that as these industries mature,
      you're going to see a lot more. It's just sort of a
 6
 7
      classic story, which is as it gets more worthwhile for
      these industries to have these sorts of systems in
 8
 9
      place, you're going to see them emerge because there are
      substantial gains that outweigh the cost of doing them.
10
              And we need to remember that we are in IT and
11
12
      business methods or a lot of these software
             This is still a pretty immature industry in a
13
      areas.
14
      lot of ways, particularly their experience with patents
15
      because in many cases these industries were not active
```

well ordered as they should be -- as some of the more mature chemical bio areas.
So I think there is reason to be hopeful that we

patent system so we shouldn't expect them to be as

participants in the patent system until just the last

decade or so, so these are quite young entrants to the

- 22 can get our hands around that problem better, never be 23 perfect but we can certainly do better.
- 25 periode but we can certainly do better

MS. MICHEL:

25 PROFESSOR VERMONT: Well, yeah, I think we can

Sam?

```
1
      expect some standardization of the nomenclature
 2
      entities that it can better, but it may not ever get
      close to being good enough. For molecules, the
 3
      nomenclature is uniform and universal because there's
 5
      only a certain amount of elements. There's only a
      certain number of ways that bonds can form. There's
 6
 7
      only a certain number of structures.
              In the mechanical arts we, of course, have
 8
 9
      a bunch of terms - but not that many. And it
     may be that software is along the lines of the
10
     mechanical arts, so there would be so many possible
11
12
      different things that you could make there would be no
      point in naming them all separately because you wouldn't
13
      know what those names are.
14
15
              So it's not a quarantee.
16
              PROFESSOR WAGNER: But software people talk to
17
      each other in a fairly -- in a sense software is
```

each other in a fairly -- in a sense software is

communication with each other. This is what you do when

you're communicating to a machine and so you're using a

very standardized set of languages, so I guess I agree

with Sam, that certainly there are reasons to understand

why we see most of this development in bio and chem

because that's sort of the low hanging fruit where

there's a relatively finite set of possibilities.

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But I don't think we should rule out that for

25

```
1 software or say you can't get there - because it's a very
```

- 2 predictable area of technology that people understand.
- 3 Yes, there's a huge range of applications, but the way
- 4 people talk about it is in a very structured format so we
- 5 should be able to do a lot better than we are doing.
- 6 MS. MICHEL: Stuart?
- 7 PROFESSOR GRAHAM: So we face the double whammy
- 8 because not only is the language imprecise, even if it
- 9 is improving, but also marketable products in this
- space have many more patentable inventions
- 11 embodied in them. So you get this -- both effects going
- on at the same time so not only are you enjoying the
- specificity of language around bio-pharma, but there's
- one or a handful of products in an ANDA or patents in an
- 15 ANDA.
- But maybe this will all be solved because as the
- 17 nanotechnology people tell me all technologies are
- 18 converging, so if that's the case, then we will all be
- 19 saved in the long run.
- MS. MICHEL: All right. This morning we talked
- 21 a lot about IP markets, patent markets that involve
- 22 auctions and brokers defensive buying clubs and all
- 23 sorts of things which seems to have less to do with
- developing new products and more to do with transferring
- 25 the patent right.

```
1
              Is that your sense of what those sorts of
 2
      secondary patent markets are about? Do you have any
 3
      opinions whether the operation of the secondary patent
 4
      markets -- what kind of effect that has on innovation?
 5
      Is this something that we want -- are these efficient
 6
      markets? Do we want them to be more efficient? Is that
 7
      going do help innovation somehow?
                                        Polk?
              PROFESSOR WAGNER: I think the easy answer is we
 8
 9
      just don't really know. Although I was struck by this
      morning's discussion in the sense that there was almost
10
      no discussion of how the secondary market influenced the
11
12
      decisions with regard to inventions, innovation,
      patenting itself because you would think that -- now the
13
      fact that people have good information about what kind
14
15
      of houses or cars sell well is a huge factor in people's
      move decision-making about what kind of cars to build,
16
17
      to create, to sell.
18
              And there was almost zero discussion about how
19
      this would feed back into that market, which I think that
20
      was in a way telling and maybe in a sense a little bit
21
      disappointing as well because it then does suggest that
22
      these are either not thick enough to provide any
23
      meaningful information useful to make decisions upon or
24
      the activities that are going on now are primarily based
25
      on trading rights around rather than the actual
```

```
1 innovative activities that we would hope they would be
```

- 2 doing. I think it's too early to tell though and draw
- 3 any really significant conclusions.
- 4 MS. MICHEL: Okay. Stuart, did you have a
- 5 comment? No? Iain?
- PROFESSOR COCKBURN: There are many things -- many
- 7 things go on when we think about the impact of these
- 8 markets -- one of which is if it could serve to
- 9 meaningfully simplify getting freedom to operate, allow
- 10 for some rearrangement of these rights, of existing
- 11 rights or existing inventions into the hands of those
- best able to exploit them, all the things that we think
- that a market, the more transactions would do, that I
- 14 think can all be -- clearly generates efficiencies.
- 15 The question of the immediate impact on
- incentives to invent I think is really difficult to
- answer for all the reasons that we still find it very
- 18 difficult to answer whether or not stronger patents
- 19 generate more invention. I mean, the empirical evidence
- on this, most people kind of believe that there is a
- 21 connection, but demonstrating it is surprisingly
- 22 difficult.
- A lot of inventive activities seems to go on in
- 24 which patents are an afterthought, and I think that it's
- just very difficult to determine this.

```
If we make a distinction between
 1
              MS. MICHEL:
 2
      invention, coming up with the idea, reducing it to
 3
      practice sufficiently to get a patent on it, and I'll
 4
      define innovation for these purposes as taking that
 5
      idea, doing all the development necessary to get a
      commercializable product, how does that distinction help
 6
 7
      us think about how the secondary markets might be
      creating incentives to invent?
 8
 9
              It seems that if you're creating a market for a
      patent, you are perhaps creating incentive to invent.
10
      Does that make sense to you?
11
12
              PROFESSOR WAGNER: Is there a tight correlation
      between patents and inventions? I think what many
13
14
      patent lawyers would say is not necessarily the case.
15
              PROFESSOR COCKBURN: You're creating an
16
      incentive to create patents.
17
              PROFESSOR WAGNER: So that's clear. Now,
18
      whether that's the incentive you actually want to create
19
      is a different question.
20
              MS. MICHEL: And so then the innovation, the
21
      additional steps needed to create a new product, any
22
      thoughts? The reason I'm bringing this up is, Iain, you
23
      were using the word invent when you were talking rather
24
      than innovation, and I am wondering if that was
```

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intentional, and if you are making a distinction between

25

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1 invention and innovation and the effects of these
```

- 2 markets on innovation.
- 3 PROFESSOR COCKBURN: It was intentional. I
- 4 think that the lamp post under which we look for our keys
- 5 in most of these debates is the bio-pharmaceutical area
- 6 where it's clear that well defined patents are
- 7 absolutely essentially for the innovation part of the
- 8 process, not just realizing the technology to practice
- 9 as a prototype but getting it into a saleable product,
- and without the patents it is very clear I think that
- 11 the level of investment in R&D and the progress of
- science and useful arts in that area would substantially
- 13 slow down.
- 14 Almost everywhere else in the economy, the other
- 15 methods of appropriation seem to be the most important,
- and that's why we still struggle to find this link
- between IP rights and incentives to invent because
- everywhere else people rely upon fast cycle times,
- brands, manufacturing capacity, preemption of scarce
- assets, so on and so forth.
- MS. MICHEL: Right before we wrap up, I would
- 22 like to move to the independent invention defense idea
- the idea that if a manufacturer of a product has
- independently come up with the idea with no knowledge of
- 25 the patent, should that be a defense to infringement?

```
1 Any thoughts on what that might do to the value of the
```

- 2 patent or whether it might be lower the cost of getting
- 3 those products to the market? Good idea? Bad idea?
- 4 Any thoughts on that? Sam, I was interested that you
- 5 moved your idea from a legislative idea to a more fine
- 6 tuning the court's idea. Was that a practical reasons
- 7 for making that choice?
- 8 PROFESSOR VERMONT: Well, yes, two. Two
- 9 reasons, one is practical in that it doesn't seem that
- 10 politically feasible at the moment, and secondly I became
- 11 more convinced that the independent invention defense or
- 12 taking the law into account is a good idea, and therefore
- 13 I became less worried about incorporating it, for
- 14 example, into the obviousness standard, which could
- 15 result in full invalidation of a patent.
- MS. MICHEL: Iain?
- 17 PROFESSOR COCKBURN: It's easy to conflate this
- 18 with prior user rights.
- 19 MS. MICHEL: Yes.
- 20 PROFESSOR COCKBURN: I think we do have an
- 21 interesting data point in the one place where there is a
- 22 prior user right in the U.S. is business methods. Yet
- 23 we heard this morning that J.P. Morgan and all are still
- 24 paying out 4 or 5 hundred million dollars a year.
- 25 If that's the case, then it appears to be -- the

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1 issue of an independent invention defense or prior user
```

- 2 right seems to be kind of irrelevant.
- PROFESSOR WAGNER: I guess I would second that.
- 4 Certainly our experience with the prior user rights,
- 5 so far, has not been to the degree that we thought that
- 6 it might have an effect. On the other hand, a lot of
- 7 what Sam was talking about is, in fact, a broader
- 8 conception of not merely just -- at least as I understand
- 9 it -- that proposal is not merely an explicit
- 10 defense, but more sort of taking account of a very sort
- of rapid follow-on invention that was not a copy
- 12 throughout various parts of the patent system, and I
- think that is an interesting proposal.
- I mean, I would want to think about it carefully
- 15 in terms of the incentive at each step, but that I think
- is a way of getting at some of the information that we
- want to understand, the meaningful information that we
- 18 get from the fact that somebody independently invented
- 19 the same thing at essentially the same time without
- 20 actually having knowledge of this other thing, of the
- 21 actual patented invention.
- 22 That's important information that strikes me
- that we probably want to take account of somewhere,
- 24 whether -- I'm a little skeptical as to whether an
- 25 explicit defense is either wise or ultimately going to

```
1 make any difference, but it's possibly we could use it
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- 2 elsewhere.
- 3 MS. MICHEL: Sam?
- 4 PROFESSOR VERMONT: So, the prior user defense may
- or may not be merited, but it's really not a close
- 6 substitute for a re-invention defense or an independent
- 7 invention defense. The prior user is only going to be
- 8 the first inventor, and so under current law if
- 9 someone else invented first, then that
- 10 patent is probably invalid.
- If we gave prior user rights, if we allowed
- prior user rights, then we would essentially be allowing
- 13 trade secret holders to avoid the current law, which is
- if someone re-invents later and gets a patent and they
- 15 can prevent you from your use.
- So prior user right is actually quite different,
- 17 and because it only applies to things prior. It just
- 18 encompasses a much smaller number of parties.
- 19 MS. MICHEL: Okay. We're about out of time.
- 20 Polk, on portfolios, as I bring up one point, it seemed
- 21 that a lot of the discussion we had earlier about
- 22 creating more clear patents for notice reasons were also
- 23 a lot of the same thoughts that you had in your paper
- 24 about encouraging patentees to pursue higher quality
- 25 patents rather than quantity patents.

```
1
              Does that seem correct to you?
 2
              PROFESSOR WAGNER: One of the ways I think about
 3
      the reasons that people get portfolios -- and I think
 4
      going for low quality, high volume is just the
 5
      information cost problem, is that they just cannot be
      certain about investing in any particular patent, and
 6
 7
      therefore they don't, so what they do instead is get as
      many patents as they can because that is the best
 8
      balance between cost and benefit that the current
 9
      system allows.
10
              If we moved to a system where there was more
11
12
      certainty, better rights, maybe even if we moved to a
      system where there was a much more robust market for
13
14
      individualized patents and, therefore, you could get a
15
      real value associated with a particular patent, then you
      might see less people going for the big portfolio, and
16
17
      that would change the incentive effects, I would think
18
      rather significantly towards getting more -- carefully
      doing more high quality patents.
19
20
              And I think some of the things that Stu has seen
      and others who have done research show that where
21
22
      patents -- individual patents matter a lot -- so certain
23
      industries, it matters a lot. Certain kinds of
24
      companies, small start up companies, they tend to matter
25
      a lot. There you see them getting fewer, spending more.
```

```
1
              The metrics of quality -- although these are all
 2
      sort of very blunt metrics of quality -- are generally
      higher in those areas, so I think that's explainable on
 3
 4
      grounds that they have a different kind of strategy
 5
      than the big firms that are dominating in the patent
      system right now.
 6
 7
              MS. MICHEL:
                           Stuart?
              PROFESSOR GRAHAM: I was actually thinking of a
 8
 9
      specific example as Polk was giving his presentation.
      When I was in Vienna last year, I saw a
10
      presentation by one of the former chief economists at
11
12
      the EPO, Bruno van Pottelsberghe, and he had taken a
      look at Research In Motion's portfolio -
13
14
      the EPO portfolio, prior to the NTP litigation and
15
      thereafter, and it follows your story.
16
              Prior -- well it follows a story. Prior to the
17
      litigation event, they had few high quality, quality on
18
      all the measures that Iain had mentioned before that we
19
      as empirical scholars look at, citations, countries
20
      designations, family, blah, blah, blah, and the patents
21
      that were coming out of the EPO after the event were
22
      much more numerous, but much junkier quote, unquote.
23
              Now, is this because they grew or because of
24
      this event? It looked like there was a significant
      break at that event that made it look like they were
25
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1 following a different strategy at least in the EPO.
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- 2 What I thought of was that this was -- this is
- 3 something I saw in early work that I did with David
- 4 Mowrey while I was still a graduate student. We were
- 5 looking at the patenting by the then primary large
- 6 package software firms, Microsoft, Adobe, Symantec, and
- 7 had been looking at patenting over the long haul, and we
- 8 noticed something that in the early 1990s, Borland was
- 9 patenting per R&D dollar at an order of magnitude more
- 10 than ten times what anybody else was doing.
- And it seems like this was a response to the
- 12 famous Borland/Lotus litigation over copyright.
- Having said that though, I never looked at the quality
- of those Borland patents, so were they doing a large
- 15 number of high quality patents or --
- 16 PROFESSOR WAGNER: Given that their patent
- intensity was so high it's unlikely.
- 18 MS. MICHEL: All right. Any last comments, and
- 19 we'll wrap it up? Iain?
- 20 PROFESSOR COCKBURN: There are two T words not
- 21 to bring up in any of these debates, one is troll and
- 22 the other is thicket, and I think that some we haven't
- had time to talk about, but in my view is a very
- 24 important issue is how to transact into in the midst of
- 25 a patent thicket, and a thicket is understood as a large

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1 number of patents, a large number of rights, potentially
```

- 2 overlapping, held by numerous people, interwoven in a
- 3 way which is very difficult.
- 4 And I think that when we think about these
- 5 secondary markets working either for a nicely bundled up
- 6 portfolio of patents or for a single patent, one of the
- 7 things that's going to make it work is there's one
- 8 clearly defined owner and one person to transact with --
- 9 the thicket problem is one of multiple owners,
- 10 fragmented ownerships and work by Rosemarie Ziedonis, some
- 11 that I've been doing with a colleague. Megan MacGarvie's
- 12 on thickets and software, Mark Shankerman and some other
- 13 people.
- I think there's a lot of new scholarship and
- 15 interesting and provocative questions raised by the
- transaction action costs associated with thickets.
- MS. MICHEL: What are you seeing?
- 18 PROFESSOR COCKBURN: One of the things that we
- 19 are seeing is Megan and I have been working on entry and
- 20 financing of start-up software ventures, the data showed
- 21 to us that thicketed markets are ones which are very
- 22 difficult to enter, where when you're a new enterprise,
- 23 it takes longer for them to raise money from outside
- investors. It affects their ability to get a liquidity
- event, an IPO later, and most of these studies are

```
1 pointing to these thicket problems understood as the
```

- 2 difficulty in the list of people that you would have to
- 3 go to if you wanted to license your way into a market --
- 4 how many entities would you have to go to? How would
- 5 you collectively solve the problem of obtaining a
- 6 license to all of those rights?
- 7 I think that's at least in these narrowly
- 8 defined contexts that people have looked at it
- 9 empirically it does seem to be a significant problem.
- 10 MS. MICHEL: Have you looked at or seen or
- 11 thought about the problems faced by a new entrant in
- that situation who does not have its own large patent
- 13 portfolio? Is that a special problem?
- 14 PROFESSOR COCKBURN: I don't know about a large
- 15 patent portfolio.
- MS. MICHEL: Or a small.
- 17 PROFESSOR COCKBURN: The thing that jumps out to
- 18 us from these studies is that the entrants who arrive at
- 19 the market with their own patent are significantly
- 20 advanced relative to those who don't. That generates
- 21 the sort of powerful dynamic in the way the data show us
- 22 these accelerating counts of patents in every -- no
- 23 matter how granular you get, how finely defined the
- 24 market is. It's an exponential increase that's driven
- 25 by powerful incentives for the incumbents to acquire

```
1
      patents.
 2
              If the entrants can't get in without their own
 3
      portfolio, you can see this feedback affect is one of
 4
      the things that drives this acceleration, and I think
 5
      ultimately raises the costs for everybody.
 6
              MS. MICHEL: And then, Stuart? Do you have a
 7
      comment?
 8
              Have you seen or thought about -- something I
 9
      think we heard this morning was that after this event
      happens, this feedback loop happens, you sometimes then
10
11
      see the companies selling off their patents into the
12
      secondary market again, and we have another kind
      feedback loop.
13
              PROFESSOR WAGNER: I don't know. That's because
14
15
      the brokers we're talking to -- so I'm not sure how much
16
      we know about this. The secondary markets are still
17
      extremely small compared to the number of patents that
      are obtained every year, so I'm not sure we could
18
      generalize this sort of swinging effect that was
19
20
      mentioned today.
21
              I mean, certainly there are going to be some
22
      players who once they've achieved some sort of
23
      technological goals then bail out and sell their
      patents, and we certainly have examples of companies
24
```

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who do that. On the other hand there's an awful lot of

25

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1 companies that I think a ton of research shows are just
```

- 2 getting as many as they possibly can as quickly as they
- 3 can.
- 4 MS. MICHEL: All right.
- 5 PROFESSOR GRAHAM: I've sort of seen, anecdotally,
- 6 that this happens. I've been looking through the patent
- 7 reassignment data which is notoriously just not good.
- 8 This is from the US PTO, but every once in a while when
- 9 I'm looking at pharma patents, I'll see just an entire
- 10 chunk from a company sold to L'Oreal or something. So
- over into the cosmetic space, some stream that didn't pan
- out or whatever the case was, and just abandoned or sold
- out, so something is happening. I don't know what.
- 14 MS. MICHEL: One question. Why is the
- assignment data at the PTO not good?
- 16 PROFESSOR WAGNER: There's no requirement.
- 17 People don't file their assignments. I think they're
- 18 technically supposed to. Actually I think there is a
- 19 credit. They just don't -- there's no enforcement. I
- think the problem is there's no actual enforcement
- 21 mechanism. They're supposed to keep their assignment
- 22 and keep the PTO up to date, but I think the sense is
- 23 that the vast majority of people just don't it or it's
- 24 late.
- 25 PROFESSOR COCKBURN: Doesn't work like that with

```
1
      the land register.
 2
           MS. MICHEL: Okay. And with that, thank you very much
 3
      to our panelists. This has been a very interesting
      discussion for us. We appreciate it. If anyone
 4
 5
      heard anything today that they would like to respond to,
 6
      the FTC will keep open its comment period until May 15th.
 7
      We're happy to take comments which we will take
 8
      consideration as we launch into the next step of preparing
 9
      the report when we conclude this. We will be in Berkeley at
      the Beckley Center for Law and Technology and the
10
      Competition Policy Center on May 4th and 5th. Thanks very
11
12
      much.
13
              (Applause.)
14
              (Whereupon, at 4:31 p.m. the workshop was
15
      concluded.)
16
17
18
19
20
21
22
23
24
25
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