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FEDERAL TRADE COMMISSION  
THE EVOLVING IP MARKETPLACE

Friday, April 17, 2009

9:30 a.m.

Federal Trade Commission  
FTC Conference Center  
601 New Jersey Avenue, N.W.  
Washington, D.C.

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## P R O C E E D I N G S

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3 MS. MEYERS: Good morning. My name is Erika  
4 Meyers. I'm an attorney with the Federal Trade  
5 Commission's Office of Policy and Coordination, and I  
6 would like to welcome you to the April installment of  
7 the FTC's Hearings on the Evolving IP Marketplace. I  
8 want to say hello to everyone watching the web-  
9 cast.

10 Before we dive into today's subject matter, I  
11 want to remind everyone that we welcome public comments.  
12 You can submit those comments through our web site until  
13 May 15th. We will also be holding our last round of  
14 hearings in Berkeley, California, on May 4th and 5th.  
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  
25 building. If we're asked to leave, our rallying point

1 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.

6 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  
11 of the most significant changes to the patent frontier  
12 over the last five years has been the development of new  
13 markets for patents. Today we will explore the  
14 development of these markets and how patents are bought,  
15 sold and licensed. I can think of no better way to  
16 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  
21 Ocean Tomo, LLC, an integrated, intellectual capital  
22 merchant bank firm providing financial products and  
23 services related to intellectual property, expert  
24 testimony, valuation investments, risk management and  
25 transactions.

1           Mr. Malackowski is a member of the IP Hall of  
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  
6 IP professionals under the age of 45 in IP Law and  
7 Business as well as one of the world's 250 leading IP  
8 strategists by IAM Magazine.

9           Prior to forming Ocean Tomo, he served as a  
10 finance and investment advisor working with one of the  
11 nation's oldest investment banks as well as one of  
12 Chicago's largest private equity firms. Mr. Malackowski  
13 began his career spending 15 years as a management  
14 consultant and forensic accountant focused on intangible  
15 assets.

16           In this capacity, Mr. Malackowski served  
17 numerous roles as a founding principal, including  
18 president and chief executive officer of his firm,  
19 growing the practice to the nation's largest before its  
20 sale.

21           On more than 30 occasions, Mr. Malackowski has  
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  
25 of business valuation and the impact of advertising

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

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  
12 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  
16 \$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  
19 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  
25 and greater information.



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.

6 Although I protested, I was told to call the Big  
7 8 accounting firms (when we had eight such things), and  
8 they basically all told me the same result. They would  
9 be happy to advise my client on value, but they were not  
10 going to sign Pricewaterhouse, Arthur Andersen, *et*  
11 *cetera*, to the bottom of an opinion letter of patent  
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  
16 number of accounting firms, economic firms or otherwise,  
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  
25 how can anyone invest in your mortgage because it's so

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  
6 the credit score, things come into greater focus and  
7 that if your credit score is a 800 and mine is a 720,  
8 knowing just that one data point, intelligent decisions  
9 can be made about the risk associated with that loan.

10           The same is true for intellectual property, and  
11 not only Ocean Tomo, but a number of firms have begun to  
12 develop rating systems based on their own algorithms  
13 and/or, in our case, simply observing what the marketplace  
14 is telling us.

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, certainly the last 25  
21 years as reflected on this chart, there has been an  
22 active but under appreciated market for intellectual  
23 property, and that market is, in fact, the Patent Office  
24 itself, and the actions of patent owners as to whether

1           For those of you who know, in order to get a  
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  
6 are maintained for their full term.

7           In other words, those owners have decided it is  
8 not worth the expense to keep them, and so one of the  
9 things that we try to do is we have tried to observe  
10 what information can be gleaned from that market. In  
11 other words, imagine an experiment where we put on the  
12 left side of the room all of the patents that have been  
13 maintained over the last quarter century so we have  
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? One  
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  
24 different than patents that people throw away based upon  
21 examiner, and you run the statistical models comparing



1 Davis Research, and provided them 15 years of observed  
2 data from the patent maintenance marketplace.

3 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 statisti 1.,wTis0slD.and tvo00000 0.000

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  
6           property, and he held up a catalog very similar to the  
7           one I'm holding here, but it was for a car auction.

8           He said to me, "Why don't we sell intellectual  
9           property at public auction like Sotheby's sells  
10          paintings or Gooding sells automobiles?" Frankly, we all  
11          sort of laughed at the suggestion because clearly it  
12          could not be possible to do sufficient diligence on  
13          unique patents in a very short time period and then

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

1           When we launched this platform last summer, what  
2 surprised me the most was the phone rang, but it's where  
3 the calls were coming from. We received calls from  
4 Poland, from South America, from Asia, and essentially  
5 the calls went as follows: We, in Poland, believe that  
6 Polish companies would like to buy and sell Polish  
7 patents between themselves, but there's no way to do  
8 that. There's no mechanism. There's no marketplace.

9           Can Patent/Bid-Ask provide that forum? Can we  
10 translate the standard documents that you use for a  
11 transaction into Polish and begin to facilitate that  
12 market? To which we said yes.

13           So the experiment that is taking place now is to  
14 watch as that market develops over the next two to five  
15 years. Will it be Brazil? Will it be Taiwan? Will it  
16 be biotechnology? Will it be computer technology? The  
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  
6 transparent and otherwise efficient exchange of  
7 intellectual property, and I'm going to refer briefly  
8 today to two such products.

9 The first one is shown in slide 33. It is  
10 called a unit license right, so let's talk about how the  
11 transfer of technology from licensing is historically  
12 done, and most in this room are either patent attorneys  
13 or in-house counsel, so you'll be familiar with my  
14 example.

15 If a client were to call me and ask me to help  
16 them license their technology, and let's pick the  
17 automotive industry because it's one of my favorites, so  
18 a big three company in Detroit would like to license one  
19 of its patents to a Japanese manufacturer.

20 We know how that process works. You will spend  
21 some time trying to contact and arrange a meeting with  
22 the potential licensee. That, sometime, may take one,  
23 two or six months. By the time you finally arrange that  
24 meeting, the focus of that meeting is not on the  
25 benefits of the technology, but the licensee's opinion

1 as to why the patent is invalid and why it's not  
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  
6 that asset you start phase 3, which is their rolling  
7 out of their own patent portfolio trying to explain how  
8 their assets could be a benefit to the licensors and why  
9 don't we just end up in a cross license?

10 So most tech transfer today, in our view, is in  
11 fact done that way, either on an individual cross  
12 license or a large portfolio cross license. That is not  
13 a transaction that brings transparency. That is not a  
14 transaction that really attributes value to those assets  
15 that are indeed the most valuable.

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.

25 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.

1 at the prospectus and say, Wow, the opportunity is here,  
2 is far greater than we anticipate, we're going to buy  
3 units at 50 cents to resell them at 75, or in fact we  
4 think the opportunity is overstated, we'll short them  
5 the 50 cents and cover at a dime. That liquidity into  
6 the marketplace allows for greater activity and sale by  
7 the original issuer, in this case, the automotive  
8 company.

9           The second big difference is that the exchange  
10 will have the enforcement rights. If we have a party  
11 after this conference today and our DJ plays Michael  
12 Jackson and that DJ did not pay ASCAP, there is in fact  
13 an enforcement committee that will track him down and  
14 collect the 50 cents or \$5. The IP traded exchange will  
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  
19 manufacturer and politely encourage them to buy.

20           If that's unsuccessful, they will have the right  
21 to sue that manufacturer, and once they sue that  
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  
2 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  
16 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  
25 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.

4 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  
11 for patent indexes, so let's look at the illustration on  
12 slide 36, and we can continue with the automotive  
13 industry. The blue line represents a company's patent  
14 portfolio, so imagine if we took the statistical scores  
15 of one of the big three auto manufacturers, and we  
16 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.

25 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  
13 the stock of the big three company or would I rather buy  
14 the financial future contract related to the  
15 intellectual property alone?"

16           They can do that for speculative reasons. They  
17 believe that the company's got strong technology. They  
18 could also do it by category. If your personal opinion  
19 is that hybrid electrics are the future and you call  
20 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.  
24 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  
3 you knew that Blu-Ray would win and HDVD would fail, so  
4 you hedged your Toshiba equity investment by buying a  
5 Sony Blu-Ray patent contract.

6           When I go to intellectual property conferences  
7 and I talk about tradable technology baskets, I get a  
8 lot of inquisitive looks to say the a least. When I go  
9 to the Chicago Mercantile Exchange, it doesn't take me  
10 this long in a conversation because in about three  
11 minutes, they totally understand it and they want to  
12 know when it's going to start trading, and the reason is  
13 back to that first bar.

14           There is an appreciation that intellectual  
15 property and patents represent a significant portion of  
16 corporate value, but there is no way for investors today  
17 to access or to break it out or to otherwise trade it.  
18 We believe that IPXI will be effective trading.

19           I'm going to finish up in the time allowed to  
20 talk about one aspect of unification. The efforts that  
21 I've described about valuation standards, patent  
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  
25 occurring not just by Ocean Tomo, and it's not limited

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  
12 we're not talking to the CEO of the public company, but  
13 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,  
16 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.

20 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  
13 among European patents, and let's say it comes back  
14 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  
24 you repeat that experiment ten thousand times, our  
25 belief is that you will find a meaningful currency



1     so, what is the rating? Is this patent part of a



1 PANEL 1:

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

10 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  
18 discussion, exploring valuing and monetizing patents,  
19 strategies for buying and selling patents and the role  
20 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  
11 am Assistant Director For Policy here at the Federal  
12 Trade Commission and leading this project. I want to  
13 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  
16 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  
19 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  
22 doubt that will happen.

23 We will be spending a lot of this session today  
24 discussing secondary markets for patents where patents  
25 are bought, sold, licensed, not necessarily in

1 connection with technology transfer - perhaps in  
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  
6 company in those markets to lay the groundwork, I think  
7 that would be helpful. Yes, Paul, thank you.

8 MR. RYAN: Yes. Thanks for the opportunity. I  
9 think because Acacia obviously is probably obviously  
10 less well known than the other major companies here, I  
11 think it's important to understand our role in this  
12 market.

13 Basically Acacia partners with America's small  
14 inventors, manifested by small companies, universities  
15 and individual inventors. It's important to note that  
16 approximately 60 percent of all patents granted in the  
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  
25 routinely ignore their licensing request and use their

1 patented technologies without payments knowing that  
2 these small companies do not have the resources to  
3 enforce their patent rights.

4 As a result, these inventors have no efficient  
5 way to license their inventions. Acacia's role is to  
6 serve this unmet need by providing a licensing channel  
7 for these small companies. Acacia provides teams of  
8 engineers, patent attorneys and licensing executives  
9 that are able to develop and implement licensing  
10 programs that generate the appropriate licensing  
11 royalties.

12 We generally split these revenues 50/50 with the  
13 inventors. To date our subsidiaries have generated  
14 approximately \$75 million for our inventor partners.  
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.

19 We have begun to achieve a rational licensing  
20 process with many large companies but still encounter a  
21 significant number of companies who refuse to negotiate.  
22 Acacia's value to America's inventors is represented by  
23 52 independent testimonial statements from inventors and  
24 companies who have partnered with us.

25 These printed copies are available outside on

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?

8 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.  
12 We obviously have a long history of innovation going  
13 back to George Eastman who invented the capture of  
14 memories, so we're a patent owner, and we're very active  
15 in continuing to generate invention and innovation.

16 On the other hand, we also feel an obligation to  
17 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  
20 like patent reform, we really sort of sit on the fence



1 Network is probably not very well known either. It's an  
2 entity formed by six industrial companies three years  
3 ago for the purpose of ensuring that patents don't  
4 represent an obstacle to Linux and Open Source. Linux has  
5 advanced into a variety of different applications spaces.  
6 Mobile Linux is the most recent entry, but many back  
7 office transactions, provisioning a number of other  
8 application areas, are replete with examples of Linux's  
9 use and its pervasiveness in IT. Intellectual property  
10 could potentially represent a threat, and that's why  
11 this entity was formed.

12 We are a net acquirer in the secondary market.  
13 We acquire patents from a variety of sources, from  
14 universities, from brokers, public and private auctions  
15 as well as working to develop alternative forms of  
16 intellectual property such as defensive publications,  
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: Okay. 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  
6 United States, providing video, voice data and soon  
7 wireless to our 6 million subscribers in markets  
8 around the country.

9 We have been an innovator in these various  
10 fields and have been active in filing patent  
11 applications and getting patents issued and have  
12 participated in these secondary markets largely as a  
13 defensive measure.

14 We have become concerned about the  
15 commoditization of patents over the past four or five  
16 years and are further concerned about how the law will  
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  
25 me. My name is Tracey Thomas. I'm the IP strategist at

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  
10 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  
14 just act by instinct but really make rationale economic  
15 decisions about how we leverage intellectual property,  
16 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  
10 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  
13 about clearing patent rights for a product that has been  
14 independently created by the manufacturing company or  
15 the service industry?

16 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  
24 the most well known and successful.

25 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  
10 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.

13 The second transition that I think also is well  
14 known is that there are large defensive organizations,  
15 some that are represented at the table, and Keith may  
16 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  
23 the way Paul's described it is one way of describing how  
24 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  
6 market, and then flip it six months later to be able to  
7 generate value through a cost-avoidance litigation  
8 settlement.

9 On the other side, you see a parallel response  
10 just lagging eight months or a year, the formation of  
11 defensive patent pools to counteract the effect of IP  
12 aggregation that's utilized in a somewhat offensive way.  
13 You see defensive pools being formed right now.

14 Certainly in the financial services industry,  
15 you see pools being formed. They haven't been announced  
16 yet, but companies are getting together to deal with the  
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  
25 auctions, and certainly the private auction activity in



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  
11 inventors some sense of accomplishment if their  
12<sup>8</sup> inventions are not commercialized.

13 There is a very real tangible satisfaction rate  
14 that goes along with picking patents that the company  
15 ~~went to practice~~ and putting them out on the market  
16

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  
6           looking at Ocean Tomo's markets, I have followed  
7           the lot since they began offering those patents at  
8           auction, and you can see the progression from  
9           smaller independent inventors to very sophisticated  
10          companies now that provide their patents to that auction  
11          pool, and that's -- I guess it's kind of surprised me,  
12          but it's a business model, so I shouldn't be totally  
13          surprised.

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

1 said we're not interested in patent sales have come back  
2 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  
13 were even a year ago, and there's some question about  
14 whether there are as many buyers as there once were.

15 MS. MICHEL: That was my next question.

16 MR. HOFFMAN: There are some of the defensive  
17 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  
22 future purchases are going to be.

23 They've represented at least half of the  
24 purchasing market for U.S. patents over the last few  
25 years, and there's some evidence that they're sated

1 and are just slowing down in terms of their acquisition  
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  
10 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.

14 So the evidence that I have, and other market  
15 participants I'm sure have their own perspective, is  
16 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  
24 that it ties into Steve's comment on the economy in that  
25 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.

3           So there's a fair amount of rich intellectual  
4 property that can be harvested from working with the  
5 private equity and venture capital community, and we, as  
6 an example, purchased a company last year for the purpose  
7 of acquiring its intellectual property assets. We retained  
8 its lead inventors, and doubled the size of the portfolio  
9 in a year by distilling the value that was resident in the  
10 engineering notebooks, but also continued to advance  
11 invention in the company, turning it into an invention  
12 machine, which is a variant on the model of simply  
13 acquiring things.

14           Why don't we pick an area that we're very focused on.  
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  
25 got maybe a little bit of a down period. It's

1     cyclical. This enriches the stew about by having these  
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  
6     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  
14    want to support the cost of intellectual property  
15    development. We've moved away from the '90s paradigm where  
16    intellectual property was everything, and we're now  
17    recognizing that it's about the ability to leverage that  
18    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.  
25    We're negotiating a transaction like that right now.



1 oriented, not the sense of acquiring to litigate, but  
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  
6 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.

13 I think most of them are being very cautious but  
14 I suspect they're going to be the next major new entrant  
15 into the marketplace.

16 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  
20 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  
25 and from sovereign wealth fund to sovereign wealth fund.

1           As I said, most of them, as I said, are  
2 interested and curious and trying to investigate. I  
3 wouldn't say too many of them have well formulated plans  
4 yet about exactly how they're going to enter the market.

5           MS. MICHEL: Paul?

6           MR. RYAN: Yeah, so when it comes to venture  
7 capital companies, I think there's a growing awareness  
8 that not every start up is going to have worldwide  
9 marketing and distribution to be able to challenge large  
10 embedded organizations, so I think there's a growing  
11 reality among venture capitalists to seed the  
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.

1 we'll see with a lot of these aggregators is that it  
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  
10 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  
13 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.

16 MS. MICHEL: How does that model or does that  
17 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.

1           I think you really have to look inwardly and  
2 say, "What's best for my company?" I think some of  
3 these models tend to be better for certain industries  
4 than others.

5           MR. HOFFMAN: But to deal with the specific  
6 question, what RPX does is they buy assets, take them  
7 off the street, and then they either resell the assets  
8 after they've given licenses to their members and/or  
9 they sub-license, and so they're actually trying not only  
10 to just spend money to acquire assets, take them off the  
11 street but actually generate revenue to offset the cost  
12 of acquiring assets by sale or sub-licensing, so nobody  
13 actually technically gets a free ride in their business  
14 model.

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



1           And I think some of Jim's presentation earlier  
 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           HOFERMAN     MR. THOMAS: Well, I think about the free rider  
 7           issue, and I may say something that might be a little bit  
 8           controversial, but if you take a weak company like  
 9           Intellectual Ventures, they've been purchasing patents



1           MR. DELGADO: A couple points. One, I was going  
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

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  
8 a law firm or an IP appraisal firm, to screen all of  
9 those incoming submissions and match them against a very  
10 specific set of criteria that the company is interested  
11 in, is not currently developing on their own and then  
12 facilitate an introduction that's less threatening.

13           So the point I made earlier in the comments is  
14 that this market place continues to evolve to these  
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

1       afraid to answer the call when it comes.

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  
11 of the marketplace that's causing that problem and how  
12 so?

1 right. We get approached often by individual inventors  
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.

6 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  
13 anyway to come to an alignment on what a realistic  
14 valuation for an asset is.

1 is going to look at this valuation issue.

2 And right now I think courts kind of struggle  
3 with how do we value this thing. So, now they're  
4 essentially doing what we do which is figuring out how  
5 much it is going to cost us to litigate this thing, and  
6 that's just extremely inefficient. I think companies  
7 have sprung up based on the fact that their entire  
8 models are based around how much it will cost to  
9 litigate, and since that cost has increased over the  
10 past few years, it's become very lucrative.

11 So I think there is a lot of -- since there's so  
12 much mystery around patent valuation, it puts some  
13 inefficiencies into the market.

14 MS. MICHEL: Marcus, do you face any other  
15 problems when considering whether to bring in  
16 technology from an outside party beyond the valuation of  
17 associated with just the difficulties of what technology  
18 it being offered to you and how much further it has to  
19 go in terms of developing it into a product?

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

1 technology and understand the problems that can occur  
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  
13 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.

20 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  
23 inventor putting something on the back of a napkin  
24 really kind of begs the question: Is it a good patent  
25 or is it a bad patent? If it's a good patent, then



1 because if they have unrealistic expectations, we won't  
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  
6 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  
12 see multiples of opportunities, and we only select a  
13 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  
16 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.

22 MS. MICHEL: Jim?

23 MR. MALACKOWSKI: I would just again encourage a  
24 more historical perspective. We have inverted our  
25 economy from an industrial economy to an innovation

1 economy in a relatively short amount of time. We have  
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.

6 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  
11 licensing professional, requiring you to go to training  
12 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.

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  
6 intellectual property since '97 as a naked asset where  
7 intellectual property is the only and sole source of  
8 collateral I think is very significant because that's  
9 the hairy edge of valuation where you're basically putting  
10 real dollars against that as a naked asset.

11 In the event of a default and foreclosure that's  
12 all you have. You don't have anything else to be able  
13 to recoup. So what we're seeing in the market now is  
14 some of the transactions that were done over the last  
15 five to seven years in particular where intellectual  
16 property was the sole and exclusive source of the loan  
17 where those assets are now coming into the secondary  
18 market which is another vehicle that ties into the VC  
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

1 not watching because there's been this whole trend  
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  
12 work if you can't lend against intellectual property,  
13 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  
13 per       valuend

1 point, first of all, two points I guess. One is that  
2 Ocean Tomo auction has been incredibly valuable because  
3 it has provided public data on valuation which has not  
4 existed before. It represents a small percentage of the  
5 actual transactions, most of which you don't have that  
6 data on, but at least it's a foundation, so that's good,  
7 and I think valuation has gotten much better over the  
8 last couple years.

9           But most valuation techniques are actually more  
10 or less the same, and they take multiple perspectives  
11 and try to triangulate. One of which is what you just  
12 said, which is if I was to assert this patent and try to  
13 generate royalties or damages, what is a reasonable  
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

1 but it is still an art form which creates some of the  
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  
12 creating new opportunities in the marketplace,  
13 leveraging what we consider our core assets which is

1 million, and they know if they try to assert it in the  
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  
13 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.

16 Qualcomm is a formerly practicing entity, not  
17 terribly successful as a practicing entity, but  
18 incredibly successful as a formerly practicing entity  
19 because of its licensing business.

1 viable secondary market. We have access to capital.  
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.

12 MS. MICHEL: Laura?

13 MS. QUATELA: The practical reality for me is  
14 although there has been the evolution of FASB standards  
15 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.  
21 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  
24 tend to revert to that type of valuation in a patent  
25 discussion. I know it. I feel it. I have a gut

1 instinct around it.

2 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.

13 And I would say in litigation, the costs to us  
14 versus an NPE are significantly different. The  
15 discovery burden on a company of Cox's size is fairly  
16 large, and the churn and the depositions and discovery  
17 that goes on inside our company is significant whereas  
18 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  
24 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

1 400 or 500 million dollars a year that they spend on  
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  
12 model to say, "Hey, how do we get some of these patents  
13 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  
16 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

1 efficient marketplace hopefully can marginalize the  
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  
12 if he was out in his R&D community doing more productive  
13 things.

14 MS. MICHEL: And, Laura, can you give us any  
15 sense of how the number of patent assertions and  
16 litigation against your company has grown?

17 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.

23 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

1 rate for other companies.

2 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.

13 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  
17 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,  
22 very successful companies, and they are routinely set  
23 upon by non-practicing entities.

24 MS. MICHEL: Okay. Paul?

25 MR. RYAN: I think it's important and obviously

1 it's a large cost to large companies, but  
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  
10 Judge [Michel] in December was here and gave some testimony  
11 and said there's no legal logic as to why it exists.

12 In our organization we have an acronym NPI,  
13 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.

17 What we've seen historically is if we can engage  
18 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.

21 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  
24 innovator the only choice but to litigate.

25 So what we try to do is mediate and

1 immediately have discussions and licensing discussions  
2 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  
6 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  
11 is just the dynamic, but most of your pieces found on  
12 the other side of war, isn't it? I mean, you litigate  
13 and then you get rationale discussion.

14 MR. RYAN: It didn't before, not before --

15 MR. BERGELT: Just in the last few years.

16 MR. RYAN: Well, the change in the law has  
17 forced us to do that.

18 MS. MICHEL: Jim, and then we'll come back to  
19 that point.

20 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  
24 has greatly diminished, in large part because of the  
25 economy, but what has taken its place are institutional

1 investment funds from very large firms like Credit  
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

1     although I can understand the stress that the litigation  
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

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

1           MR. MALACKOWSKI:  Suzanne, I think you could  
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,  
6     and service has left the U.S. for India.

7           I hear that and I look at them and say, What's  
8     left, and they don't have a quick response, and what's  
9     left is not just innovation because if you innovate, and  
10    you can't protect it, it gets quickly moved to a lower  
11    cost marketplace.  What's left is proprietary  
12    innovation, and that's what's driving corporate value,  
13    and as the market recognizes it, it's only obvious that  
14    they would begin to trade and otherwise value and invest  
15    in those assets.

16          MS. MICHEL:  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

1 more collaboration higher up in the stack, a lot less  
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  
12 intellectual capital flight from developing countries to  
13 places where capital actually existed, where the  
14 secondary market was, i.e. the U.S. for the most part  
15 during the '90s.

16           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  
19 companies are actually participating very aggressively  
20 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.

24           MS. MICHEL: And do your comments pertain to  
25 Open Source software or broadly?

1           MR. BERGELT: Actually you think about your  
2 business. You think of your business in particular. A  
3 lot of it is software driven, and so there aren't a lot  
4 of things -- as we get more and more intellectual  
5 capital driven to Jim's point, more and more focused on  
6 creating value out of innovation and invention, those  
7 inventions are occurring collaboratively. The idea - it's  
8 Brian Arthur's view of increasing returns - one plus one  
9 plus one equals six, not three, and that's what's  
10 happening in this economy.

11           And it's globalized invention and innovation, so  
12 software runs a lot of the businesses that we look at,  
13 and increasingly this will break down barriers. Software  
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           MR. THOMAS: I think it's absolutely good. When  
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  
25 of what it could be, I think the secondary markets can



1 eliminate litigation. It's going to be there, but you  
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 is 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  
11 investment and innovation and investment and technology.

12 My big beef is that the courts are in 1800s  
13 patent law, and we're dealing with 21st century  
14 technology and business models, and so that's my  
15 concern.

16 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

1 form of patents.

2 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  
13 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,  
16 help to raise the qualitative level.

17 There's a sea 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  
20 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.

24 MS. MICHEL: Jim?

25 MR. MALACKOWSKI: Can I take a little bit of a

1 counter point of view on the court system and patent  
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.

6 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.

14 In the cases where I've testified as an expert,  
15 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  
19 opinion, but most of the time, in fact all the time they

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.

8           Again we're just talking about a transition  
9 that's only 10 to 15 years old of this complete  
10 inversion of our economy. We can't go and start  
11 tweaking with all of the laws and the rules to try to  
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 side. 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  
24 we do need institutional reform of the Patent and  
25 Trademark Office to keep up with the process so that

1 we're not just rubber stamping applications that come  
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.

10 MS. MICHEL: Please do.

11 MR. MALACKOWSKI: So I would have a couple of

1 slightly trended up.

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.

11 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  
15 things that amazes me about this industry, and I think  
16 this conversation reinforces it, there is an amazing  
17 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

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.

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.

6           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.

1 That's my -- that's what the market is.

2           There's no incentive for me to go do any further  
3 due diligence and if I know, for example, that in a  
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  
8 all of these cases that have arisen, but I do think that  
9 it will become more sophisticated over time, and I hope  
10 it does progress.

11           MS. MICHEL: Are there changes to the legal  
12 system or to any particular legislative changes that  
13 might help lower the cost of patent litigation? That  
14 seems to be something of a systemic error in a well  
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.

23           One thing I would like to say though is to the  
24 degree you are able to be in a more proactive licensing  
25 mode, and I don't mean suing people, we've never

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  
12 think some other companies do too, that to the degree  
13 you're able to extract value from your intellectual  
14 property, you become smarter about how to diligence some  
15 of these third-party issues and how to address them by  
16 being proactive in your own filings.

17           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  
3   issue is hard to believe for maybe some large companies,  
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  
6   companies with multi-million dollars bills.  That's the  
7   last place they want to be, and I think the attitudes --  
8   really a lot of it is an attitude.

9y3uede3uedellk the attitudes --

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  
13 think the system allows for one thin claim to support  
14 litigation, and to make the litigation go away, which is  
15 the normal, ultimate response to avoid going forward  
16 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  
22 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  
3           to meet sufficiency standards that are so low right now  
4           that there is no bar for litigation to occur.

5           MS. MICHEL: Jim?

6           MR. MALACKOWSKI: So I have a thought exercise  
7           for discussion purposes only. This is not necessarily  
8           my point of view. We have talked about the fact that  
9           the litigated awards have totaled maybe not that  
10          significant but it's the frictional cost of the  
11          litigation itself. I would propose as an exercise,  
12          that's okay, let litigation be expensive, because I  
13          don't know that you want to encourage or that we would  
14          be all happy if an inventor knocked on your door and you  
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.

1 I do generally think that may work.

2 To the question about what types of reforms  
3 would be helpful, I would say I think there are many but  
4 I would bring up a couple. One is one we've  
5 already touched upon, which is the valuation issue that  
6 the courts can't seem to really resolve. We've had a  
7 special appellate court just for patents and they have  
8 not been able to resolve this issue. Chief Judge Michel  
9 mentioned this recently and said that we need to figure  
10 out a way to value these things or we're going to have a  
11 problem.

12 The other issue that we face involves  
13 use-based damages and the fact that we receive a lot of  
14 products from vendors and vendors sell us products and  
15 we use those products out in providing services to  
16 subscribers. They also provide indemnity obligations  
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  
21 us the product, which is, "Well, we sold it to you, it

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1 thoughts on that.

2 MR. DELGADO: Yeah, I don't think you'll get a  
3 lot of support for that. I think it sounds -- it sounds  
4 good in that people will only -- people with really  
5 meritorious claims will bring these actions, but I think  
6 it will -- it probably would limit a lot of small  
7 inventors from ever bothering to innovate in the first  
8 place, and I don't think it will get a lot of traction.

9 MS. MICHEL: The idea of transparency, someone  
10 mentioned earlier that it's sometimes difficult to tell  
11 what, for example, Intellectual Ventures owns although  
12 the question is not meant to be directed at any one  
13 company. Is there a problem with transparency in the  
14 sense of who owns what as a first level? Steve?

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  
25 possible to force a company like IV to share the 20,000

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  
13 hundreds or perhaps even thousands of patents.

14 And from our perspective, getting that  
15 information to the market so that the market can  
16 understand, one, which patents are being frequently  
17 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  
20 as a PDA, for example, and so that triers of fact will  
21 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.

25 MS. MICHEL: Any reaction to a proposal that

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  
11 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  
14 reasons for an operating company to not necessarily  
15 assign its patents to its brand names.

16 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  
19 they want to try to protect that as strategy, they  
20 should have the right to do so.

21 MR. HOFFMAN: To the second half of your  
22 question, I should think it would hurt the market. I  
23 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

1 terms were.

2 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.

12 MS. MICHEL: Can you spin that out why they  
13 don't want others to know?

14 MR. HOFFMAon4oTjEs0.00 3 Can you spin that out why th

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  
8 reported, so if there's a settlement, if there's a  
9 windfall, the revenue source or the outflow source has  
10 to be provided so that public company investors are  
11 protected which is really the public policy argument to  
12 be served, and I think that has the -- that's the  
13 overarching argument for me.

14          MS. MICHEL:  Marcus?

15          MR. DELGADO:  I would say in litigation, there  
16 could be more transparency, and this should probably be  
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

1 have you reached in litigation?

2 MS. MICHEL: Can you get that through discovery?

3 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  
13 you comparing apples to apples because very often it's not  
14 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.  
17 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  
23 the asset is and what the value is to the party using  
24 the invention? Why does how much the NPE paid for the  
25 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  
15 like PatentFreedom are getting traction where private  
6 if you're making a demand upon me, I should probably  
7 know that and have that information just from a  
8 valuation standpoint.

9 I mean, presumably two people -- an arms length  
10 transaction in the marketplace, someone purchased it,  
11 that would seem to me to be relevant.

12 MS. MICHEL: Laura?

13 MS. QUATELA: I think Keith mentioned it earlier  
14 but I think this is one of the reasons that initiatives  
15 like PatentFreedom are getting traction where private  
16 initiatives are attempting to discern this information  
17 where it can't readily be found through discovery.  
18 That's one point.

19 Point two is -- what is point two? The  
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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  
12 better decisions, to better benchmarking as we go  
13 through the monetization process around intellectual  
14 property.

15 So I don't think the specific transparency  
16 around specific deals is that critical, but we do need  
17 better mechanisms for aggregating information about  
18 deals and transactions.

19 MS. MICHEL: What kind of information do you  
20 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  
25 do companies make specific decisions about how they were

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  
10 about what patents are worth, thanks to auctions like  
11 Jim's in general, just having that type of data allows  
12 you to make better decisions.

13 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.

25 MS. MICHEL: Marcus, do you have a comment?



1 doing a good job of bringing these tools to bear. I  
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  
13 data with operating companies about who these NPEs are  
14 and their shell organizations and who owns what, and I  
15 think it's very valuable in that respect.

16 The other objective of PatentFreedom though was  
17 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  
20 least understand whether they were alone or whether  
21 there were other people dealing with the same issues and  
22 learn from one another.

23 Most of the members of PatentFreedom have taken  
24 advantage of the first part, the data about who these  
25 NPEs are. Almost none of them have actually shared

1 information, even on a confidential basis, about what  
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.

5 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  
13 between members, and even though you don't post  
14 information, because we're a member, we still will reach  
15 out to other members and coordinate.

16 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

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,

1 didn't mean to. Tracey?

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.

11 MS. MICHEL: Okay.

12 MS. QUATELA: Certainly is playing an increased  
13 role, as for example the Stanford tool.

14 MS. MICHEL: That gives us a good segue until  
15 the afternoon. We have an academic panel this  
16 afternoon.

17 We've been talking about this patent market  
18 which I think you could have listened to this  
19 conversation as if individual patents were being bought  
20 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

1 individual patent that drives companies to accumulate  
2 portfolios?

3 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  
10 of the time are what we call families.

11 So a particular inventive technology that may  
12 have a number of U.S. international patents and  
13 applications that all go together collectively and are  
14 transferred as a group, and the reason you need that is  
15 clearly if you bought one member of that family but  
16 didn't own rights to the rest, you have a very limited  
17 right.

18 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.

22 MR. BERGELT: You also want applications in your  
23 family because that gives you extendibility, so when you  
24 buy a naked asset, if it's -- basically there is no  
25 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.

6           So I think it's important that up until now  
7 where we've had family strategies that are rather  
8 traditional, it's very important to try to buy families,  
9 and there's more value to smart buyers of families  
10 typically, but in the future what we can expect to see  
11 are fewer patents and more hybridized family development  
12 where you have a core patent and then contemporaneous  
13 with that you have a series of defensive publications  
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  
25 they're shifting towards these hybridized approaches

1 which are more cost effective utilizing defensive  
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  
12 only way to get rid of your less good patents, without  
13 being pejorative, is to bundle them with a couple of  
14 very good patents.

15 MS. MICHEL: Is the value of that group the  
16 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.

23 MR. BERGELT: They can all be good, but I think  
24 a better term is fundamental, where the fundamental  
25 invention is where, to Steve's point, that's where the

1 value is, and then you get the block and tackling of the  
2 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  
12 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.

15 There are dozen of universities who are holding  
16 on to assets that they would love to jettison but they  
17 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.

24 So that's a Washington issue that would help  
25 universities and help the secondary market because there

1 are literally tens of thousands of patents trapped  
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  
10 ones around them. When I said good patents, I'm  
11 thinking about the non operating company buyers, and  
12 what they're going to look at in terms of buying a  
13 patent is a patent that is defensible in litigation that  
14 will withstand reexamination, if that's the tactic the  
15 defensive party takes.

16 So I'm looking at -- when we're talking about  
17 selling a patent to a non-operating entity, their  
18 valuation of quality is in terms of litigation quality  
19 and defensibility, not whether it's, quote, fundamental.  
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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  
3 patent. It's how well constructed the claims are, will  
4 they survive litigation, will they survive  
5 reexamination? So there's a set of criteria in terms of  
6 the value patent, but it has to do with essentially how  
7 effective will they be in an assertion strategy? How  
8 likely am I to generate either damages or royalties  
9 if I assert these patents and how big is the market?

10           MS. MICHEL: Okay. Jim?

11           MR. MALACKOWSKI: So I would like to come back  
12 to a comment that Steve's now made twice about the  
13 notion that it's valid patents or higher quality patents  
14 that are of interest, and if they're not high quality,  
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  
25 interest in considering to buy it, and that's changed.

1           Today, it has to be a patent of very high  
2           quality, and coincidentally last night we were having a  
3           conversation at dinner about how the prosecution efforts  
4           at the PTO have now trended down because owners, both  
5           for I think that reason, as well as, the economy  
6           generally, they don't want to pay for and prosecute  
7           patents that don't have value.

8           So that flight to quality that we're seeing  
9           across the market is again a natural evolution or a  
10          maturation of what's happening.

11          MS. MICHEL: Okay. Laura?

12          MS. QUATELA: I think there's a geographic  
13          aspect to this at all because there's no doubt that in  
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

1 whether it's substantiated or not.

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.

6 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  
12 million dollars should we're now in litigation with  
13 them.

14 So that also sort of pushes me sort of towards  
15 more of a portfolio type of license rather than a single  
16 patent license.

17 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  
23 and do a good assessment and decide which ones you need?  
24 How does all that play out? Steve?

25 MR. HOFFMAN: Just one quick comment which is I

1 think if you look at Intellectual Ventures, that is  
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  
12 tell whether they were right, but they're clearing  
13 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  
16 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  
21 whether they're all necessary? How are companies  
22 dealing with this problem?

23 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

1 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  
6 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.

11 MS. MICHEL: Laura?

12 MS. QUATELA: I think it depends too on whether  
13 you're dealing with an NPE or if you're dealing with  
14 another operating company. If you're dealing with  
15 another operating company and they come to you with an  
16 expansive portfolio, you're going to look at yours and  
17 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  
20 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  
23 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

- 1 start with that one.
- 2           How has *MedImmune*

1 to be.

2 MR. RYAN: The biggest impact to us it's driven  
3 more small companies, universities and research centers  
4 to us out of fear. If they went out the way they used  
5 to with a normal proactive licensing program, then  
6 companies could file against them in multiple districts  
7 and basically be a very expensive proposition, so I  
8 think it's had that effect on our direct approach.

9 We used to always go out and voluntarily enter  
10 into discussions with companies before filing  
11 litigation, and now we advise our partners who come in,  
12 given the risk level, that we not do that so it does  
13 chill the conversation. It's usually not a great way to  
14 start a conversation by filing a lawsuit, but that's  
15 what we've had to transform to, so we try to engage  
16 companies as quickly as we can saying, sorry, but we had  
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  
25 feel that they're being accused of theft. It may not be

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  
3 deliberately, but there's somebody else who holds patent  
4 rights.

5 But there's no question that that decision has

1 I think it was -- I don't know how much  
2 injunctions there really were in the United States? Was  
3 this really a big problem, Jim?

4 MR. MALACKOWSKI: I don't believe --

5 MR. RYAN: I think it was more of a statement  
6 about a scorched earth policy than it was to address a  
7 major problem. I'm not aware of a whole lot of  
8 injunctions that occurred the last 15 years in the  
9 United States.

10 MR. MALACKOWSKI: I don't know if you saw a  
11 whole lot of injunctions, but clearly the threat of the  
12 injunction led to the implicit settlement immediately  
13 after the verdict in virtually every case because it was  
14 not just about the verdict. It was what's going to  
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  
25 report I read somewhere, and I can't substantiate that.



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  
7 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  
on 13 or is it just not 1.00 bHcmereIjust000 I.00 rgBT0 0.00kn, I do

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  
12 machine implementation. Right now I couldn't tell you  
13 what degree of machine implementation is necessary to  
14 have a business process claim be declared patentable. I  
15 just can't tell you.

16           So you just throw one in and hope for the best,  
17 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  
20 or is there a concern with the substance in that we have  
21 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?

25           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  
3 about, which is an efficient marketplace which will help  
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  
11 any final comments anyone would like to make while we're  
12 still on the record, I'll give you a last chance.

13 If not, I will say thank you very much. This  
14 has been very illuminating and helpful to us, and we  
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.)

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AFTERNOON SESSION

(2:02 p.m.)

PANEL 2: RECENT SCHOLARSHIP IN PATENT MARKETS

MODERATORS:

SUZANNE MICHEL, FTC

ERIKA MEYERS, FTC

PANELISTS:

IAIN COCKBURN, Professor of Finance and Economics,  
Boston University School of Management

STUART GRAHAM, Assistant Professor, College of  
Management, Georgia Institute of Technology

MARK LEMLEY, William H. Neukom Professor of Law,  
Stanford Law School

SAMSON VERMONT, Associate Professor, George Mason  
University School of Law

POLK WAGNER, Professor, University of Pennsylvania  
School of Law

MS. MEYERS: Welcome back to the afternoon  
session. For those of you just arriving or just tuning  
into the web cast, I'm Erika Meyers, an attorney with  
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.

6           We have a seemingly diverse range of topics, but  
 7 at their root, they all address market failures or  
 8 potential solutions to those market failures in the  
 9 emerging markets for intellectual property.

10           First up will be Stuart Graham. Stu is an  
 11 Assistant Professor of Strategic Management at the  
 10 a School of Law

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  
11 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  
16 of Management at Boston University. He teaches and  
17 performs research in the areas of entrepreneurship,  
18 business strategy, intellectual property and economics  
19 of innovation and management of high tech companies.

20 Professor Cockburn graduated from the University  
21 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

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  
13 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  
18 web site ultimately?

19 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  
23 idea that markets for technology, it's not just IT.  
24 often, when we talk about the markets for technology  
25 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  
3 colleagues and myself at Georgia Tech, and what we're  
4 looking at is the markets for technology in the  
5 pharmaceutical industry.

6 So a couple things to say about this. First of  
7 all, you can see a lot of heterogeneity, so what this  
8 chart documents is we looked at the patents that are  
9 listed in the Orange Book for successful NDAs coming out  
10 of the Food and Drug Administration, and we actually  
11 looked at where those patents originated, and this  
12 percentage catalogs the percentage of patents that  
13 originated with an assignee outside of the firm.

14 So you can see here there's a lot of  
15 heterogeneity here with some firms, Baxter, AstraZeneca,  
16 Bristol-Myers, *et cetera*, actually bringing many, if not  
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  
23 of us that while I know a lot of the discussion this  
24 morning was about the buying and selling of patents or  
25 patent portfolios, patents are being transacted via

1 various methods, licensing and certainly in the  
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  
6 as a Kauffman Foundation Fellow at UC Beckley I became  
7 involved in a comprehensive survey of high technology  
8 entrepreneurs. We styled this the *2008 Berkeley Patent*  
9 *Survey*. It was led by the Beckley Center for Law and  
10 Technology at UC Beckley, at the law school.

11           What we did is we surveyed what we defined as  
12 entrepreneurial companies. These were essentially young  
13 firms, firms no older than ten years old, in specific  
14 sectors in biotechnology research, software, IT and  
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. We  
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  
24 markets for technology? Well, some things. We did ask  
25 about the source of the revenues coming from these small

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  
13 differences, statistically significant differences in  
14 sectors, so the biotechnology firms are more likely to  
15 answer that revenues are coming from this source,  
16 medical devices less likely, and the IT software just  
17 about right at that mean.

18 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.  
22 We found that patents are significantly more  
23 important to those young firms that generate more of  
24 their revenues from technology licensing.

25 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  
6 generally rate obtaining licensing revenues as  
7 relatively unimportant compared to other reasons, such  
8 as preventing copying or enhancing the company's  
9 reputation. Of course, these themselves are wrapped up  
10 in the markets for technology in some sense. Here too  
11 sectors matter. BilFinhtt           7 rse       Here too

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  
10 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  
17 some strategy and not some higher demand, increased  
18 infringement, for instance.

19 In sum, what we find is that small firms involved  
20 in the SSO process appear to be using their disclosed  
21 patents differently. Now is this evidence of troll like  
22 behavior? Well, not necessarily. We know from theory  
23 and from our investigations of the market that small  
24 firms are likely to compete on the upstream  
25 technologies, while the larger firms are competing on

1 downstream implementation in product markets.

2           So it's not surprising that the smaller firms  
3 would have more of an incentive to care about the  
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  
8 going to talk in the next few slides about work that

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  
11 I'll point you to the working paper if you're  
12 interested, we actually looked at a cohort of U.S.  
13 patents that had been litigated and then matched those  
14 through their documentation, their priority  
15 documentation to their equivalent patents in the  
16 European system.

17 And then we took matched samples and we compared  
18 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.

22 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  
6 probability of opposition, the probability of appeal,  
7 and then we try also some sensitivity analysis  
8 associated with different costs for the opposition, the  
9 post-grant process itself, right, and then we do some  
10 welfare calculations, okay.

11 If I can get that to actually come up -- well,  
12 there I go. It comes up and it goes away, the green  
13 circle but let me point you to this, okay. What we find  
14 is so long as opposition costs are relatively low, (this  
15 [chart] would be in millions of dollars) \$100,000 both for  
16 opposition and appeal, right, we can experience some  
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  
13 actually something that Levin and Levin had pointed to  
14 in an early article as well, although without specific  
15 calculations behind it.

16 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.

22 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  
10 should be in the business of exploring and promoting,  
11 but that the markets for technology we have, markets in

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.  
6 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  
10 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  
16 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  
24 occur, when they are under consideration. Nobody knows  
25 the price at which patents are sold or licensed or the



1 markets from markets for other kinds of either land or  
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  
6 circumstances in which most companies making products in  
7 most industries, not all but most of them, ignore  
8 patents.

9           They just don't pay attention to them unless and  
10 until they're forcibly brought to their attention either  
11 by the filing of a lawsuit or at least by repeated  
12 demand letters, and that too I think leads to the -- it  
13 supplements and reinforces the other problems we're  
14 talking about. It adds to the thinness of the market.

15           Well, it would be nice to solve all of these  
16 problems. I frankly think some of them are not  
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  
21 clearer claim instruction, but to some extent I think  
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  
25 certainty in other market environments. There is no

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  
16 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  
19 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.

22           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  
3 secret transaction." But, there's no reason that should be  
4 true.

5 In fact, the Federal Trade Commission, for other  
6 purposes, has embarked on an experiment over the last  
7 several years of requiring the disclosure of  
8 pharmaceutical settlement agreements through license.  
9 That requirement has not in fact deterred people from  
10 entering into settlement agreements. It, unfortunately,  
11 hasn't even deterred them from entering into  
12 anti-competitive settlement agreements, but it certainly  
13 has not caused people to forego entering into licenses.

14 If we broaden that experiment, if we actually  
15 start requiring people to disclose the substance of  
16 their licensing transactions, the royalty rates they  
17 pay, the prices they pay, then we're going to start to  
18 information that will help make a market thick, okay.  
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  
21 one is not so valuable. I can start to make class  
22 distinctions.

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



1 having real accurate information about reasonable  
2 royalties in these transactions.

3 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  
10 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  
15 think, a desirable way of not eliminating uncertainty but  
16 reducing that uncertainty. I think we can start to see  
17 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  
23 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  
8 surveys that the LES Foundation has sponsored over the  
9 years giving us the perspective, if you like, of the  
10 view from the trenches. We've heard from some  
11 practitioners this morning. This is a little step  
12 up from that in an attempt to establish some statistical  
13 picture of this or quantitative picture rather than just  
14 anecdotal experiences of specific individuals.

15 These foundation surveys have been done for five  
16 years now, and I would like to acknowledge the  
17 leadership of Richard Razgaitis and Lou Berneman, the  
18 LES Foundation Board and Ken Schoppman, who's sitting at  
19 the back there, who's an extremely helpful in these  
20 enterprises.

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

1           I'll refer you to the various articles being  
2 published annually in *LES Nouvelles* over the years  
3 summarizing these results, and I see there's a typo here  
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,  
8 is captured on this slide is that IP  
9 disputes are widespread. In any given year about a  
10 third of the LES membership would say they would be  
11 involved in a dispute, but it's important to recognize  
12 that it's not one third of that time or one third of  
13 their resources.

14           In fact, they were consistently reporting 80 to  
15 90 percent of their time is spent on opportunity  
16 licensing, business development and transferring and  
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

1 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

1           Reflecting that is something which I found - as  
2           somebody who makes a living teaching MBA students how to be  
3           spreadsheet jockeys - there is a profoundly depressing  
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  
8           it doesn't translate into business practices, and  
9           presumably for very good reasons.

10           Lastly is the observation that one of the ways  
11           these deals are difficult to do is that they're  
12           prospective. They're facing a changingr00 0.13nnesytive. They'

1 product facilities? What you can see is these IP deals  
2 are very difficult to deal with. These reflect the  
3 thinness of markets, the numbers of internal business  
4 resources that have to be put on this, difficulties in  
5 bringing deals to closure and so forth. IP is just  
6 tough to deal with, in a practical business sense.

7           What I did promise FTC staff I would spend a  
8 little of time on is these questions about patent  
9 trolls. For several years we asked the question of the  
10 definition of, quote, troll, unquote. It is roughly  
11 coincident with what I think people mean by a non-  
12 producing entity, so we put this question suggesting  
13 that: Well, look is this threat of litigation by NPEs  
14 somewhat similar to the kind which generates the  
15 most yelling and shouting, which appears to be the  
16 optimistic behavior, not closely related to actually  
17 inventive activity.

18           Is it like slip and fall, the sort of constant  
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 eW8f syklikee 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,  
4 Digital/Information/ Communications/Electronics comes from  
5 Richard Razgaitis. A third of those  
6 respondents are going to say that this is a substantial  
7 problem.

8           And we agree that it is what they would  
9 characterize as a problem. The question then arises:  
10 "Well, what was its actual impact?" Does it change things  
11 in the economy or impact the progress of science in the  
12 useful arts? Again asking for all respondents across  
13 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.

16           So you can see that in IT the actual potential  
17 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.

23           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 profoundly good thing and has benefits for anybody  
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  
6 the pricing, particularly at the early stage research,  
7 specifically through acquisitions or terms of license  
8 deals or so forth, we've pulled a set of prices onto  
9 technology, which the utilizers or commercializers  
10 downstream will respond to, and the upstream people will  
11 also respond to, so the price mechanism in economics  
12 plays a very important role in allocating resources.

13           Now, that's all great if the prices are the  
14 right prices as an economist would understand them. If  
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.

25           And I think we should indeed be a little bit



1           So I think I'll leave it off at that and look  
2 forward to an interesting panel discussion. Thank you.

3           PROFESSOR VERMONT: So the industry panel  
4 earlier today made reference to independent inventors a  
5 number of times, and what they had in mind when they  
6 were using the term independent inventor was a small  
7 inventor, somebody who is not part of the big  
8 organization. I'm going to talk about independent  
9 inventors, but that's not what I mean by an independent  
10 inventor.

11           For me independent inventor means someone who  
12 didn't copy the invention, a second inventor, someone  
13 who -- I'm sorry, didn't copy the patentee's invention,  
14 so a second inventor comes along, doesn't know about the  
15 patent or doesn't see the patent and independently comes  
16 up with the subject matter. So there's no free riding.  
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  
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.

6           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  
13 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  
16 patents are being ignored in these component industries?

17           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  
21 validity is often uncertain, and you can have an  
22 enormous number of claims overlapping on a final end  
23 product.

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  
17 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.

21 Your product might read on a claim that covers  
22 something that would be very expensive for you to switch  
23 out of, right, so in the best case  
24 scenario, you reduce the variance in your outcome and  
25 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  
6 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.

11           Now, it's disconcerting at first glance to  
12 think, "Well, gosh, these companies are ignoring patents  
13 left and right," that doesn't seem right. I think the  
14 initial impulse is to think we  
15 should do something to prevent that, for example,  
16 enhance damages for failure to search, right.

17           So if you willfully infringe, if you knowingly  
18 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.

22           One is it would delay innovation. If  
23 we're going to force, if we're going to make the  
24 penalty draconian for failure to search, we're going to  
25 force companies to search prior to engaging, prior to

1 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  
13 the cost of independently inventing the thing, well then  
14 in general we would want you would think, at lea here the Pyl

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.

5 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  
13 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  
16 so six months later in the absence of a patent system,  
17 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  
20 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 that way.

2 Mark and my colleague Tun-Jen Chiang  
3 suggested that obviousness or the non-obviousness  
4 standard is another lever by which we can take into  
5 account independent invention, and this is a  
6 nice way to do it because it makes the case law  
7 actually more coherent or would make the law more  
8 coherent.

9 So, under current law, the long felt need for an  
10 invention and the failure of others, are considered  
11 objective indicators that an invention is non-obvious.  
12 Well, if those are objective indicators that an  
13 invention is non-obvious, then you would think short-felt  
14 need, like in other words as soon as there was a demand,  
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. The  
22 re-invention defense that I proposed is actually more  
23 moderate in that it would only give a defense to the  
24 independent inventor. It would not invalidate the  
25 patent.

1           But from probabilistic *ex ante* standpoint and  
2     considering the fact that obviousness -- that these are  
3     secondary indicia, they're competing with the other  
4     secondary indicia, and that they're secondary and not  
5     primary indicia, maybe the effect is sufficiently  
6     attenuated that it wouldn't unduly undermine incentives  
7     to invent.

8           I guess that's all I have for now. Thank you.

9           PROFESSOR WAGNER: All right. Thank you very  
10    much to the FTC and Suzanne and Erika for inviting me,  
11    and I appreciate all of you who came to watch, so what  
12    they asked me to talk about was patent portfolios --  
13    and my partner in crime on this is my colleague  
14    Gideon Parchomovoksy, who would be glad to answer any  
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  
3 doubts about this, and when you look at average value on  
4 almost any set of estimates that have looked across  
5 all patents, it's very likely to be insignificant value,  
6 and most if not any -- many if not actually most cases  
7 less, and maybe even significantly less, than the  
8 acquisition cost of those patents.

9 We know that patents have an extreme skew in  
10 distribution of value and the vast majority of patents  
11 have very little apparent value. Perhaps as  
12 importantly there's very little or no *ex ante* visibility  
13 to distinguish the valuable patents from the less  
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,  
21 which this is primarily describing.

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  
25 have negative expected value, then why are all these

1 companies, in particular large companies, patenting at  
2 increasingly heavy rates? Almost no matter which way  
3 you look at the measurements of patenting, those  
4 increase.

5           And the idea here is what they're doing instead  
6 of -- they're not interested in patenting -- is the theory  
7 here. They're actually interested in portfolios, and  
8 what they're doing is adopting a strategy of high  
9 volume, low quality, low cost patents to build their  
10 portfolio, and in that sense patents are a means to an  
11 end rather than an end themselves. We need to think  
12 about that when we think of policies related to patents  
13 and how to understand them.

14           There are other views, of course, out there in the  
15 legal academic community that patents confer other  
16 benefits, right? We've seen Clarisa Long's theory  
17 that patents might be signals. They inexpensively convey  
18 valuable information about the firm. They can be used  
19 as internal metrics. We see that every now and again.

20           Some people theorize that they're just a  
21 lottery, people are just essentially playing the lottery  
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. And,  
8 the sense here is the whole is greater than the sum of  
9 the parts, and you need to understand patent that have  
10 inputs to portfolio construction rather than as the  
11 actual goal of having the patents, which are building  
12 with a patenting strategy a portfolio and not simply a  
13 collection of patents.

14           That, then, suggests that patenting will occur  
15 when the marginal benefit of building a portfolio  
16 exceeds the marginal cost of acquiring the patent  
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  
25 paper where we looked at some companies that dropped

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.



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  
12 don't help you as much. So what are the implications of  
13 this over the long run?

14           We think the net effects are probably mostly  
15 negative. I think that a lot of this is suggesting a  
16 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  
20 strategy, meaning you need a lot of resources to play  
21 this game, and smaller firms or universities that have  
22 less cash to spend on patents are going to be in a sense  
23 locked, out of this game.

24           And potentially some significant  
25 anti-competitive effects, if it's in fact true, which we

1 are pretty sure it is, that a lot of the transactions  
2 that are going on now are very large collections of  
3 patent portfolios, then that is definitely something to  
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.

8           There are possibly some advantages to this -  
9 you're going to generate a lot of additional  
10 disclosure. Even though I think I agree with Sam that  
11 in most cases we don't think of patents themselves as  
12 containing a lot of useful technical disclosure, but that  
13 is not, of course, the limit of what patents provide  
14 disclosure for, right? The fact that people patent  
15 means that then they go on and they give papers or they  
16 produce products or they do other things that then  
17 provide the information about the innovation, even if  
18 the patent itself isn't a particularly great medium for  
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  
24 very careful about what you're doing in terms of  
25 building portfolios. That, in terms of social

1 benefits, might be quite beneficial because it suggests  
2 that people are in fact doing a deep analysis of which  
3 kinds of patents they're getting and why.

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

13           Another advantage is - it certainly is clear  
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  
16 of policy for the patent system, is whether there are  
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

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  
13 you can any detailed explanation of what your claim  
14 terms mean. Don't disclose any more than you absolutely  
15 have to.

16           There are a variety of legal doctrines that are  
17 causing this problem. I think all of these are deepple what your

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  
14 to be a pretty costly trade-off.

15           I actually spent last fall in Japan because  
16 there's a sense among a lot of academics and people who  
17 in the patent system that whatever they're doing in  
18 their patent system is better. They're doing sort of a  
19 better patent quality job, and the bottom line I found  
20 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.

25           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  
12 to society from doing them, but I don't think you're  
13 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,  
16 shifting a lot more cost to patentees, making it much,  
17 much more expensive to patent. That would certainly  
18 help. That has a number of obviously unfortunate  
19 effects as well.

20 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  
23 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.

6 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  
10 disclosure requirements more seriously than we do.

11 You can reduce the cost of portfolios once  
12 they're out there. You can take in more permissive  
13 approach to mass licenses, but of course this has  
14 competitive effects potentially, important competitive  
15 effects so we should consider that as well.

16 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  
19 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  
23 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.

1           So this is sort of the end. The whole is  
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  
10 period is partly to get your reactions to each other.  
11 You all did a great job of presenting different  
12 information, and so it would be good to hear your  
13 responses.

14           I wanted to start with some of the issues that  
15 Stuart brought up talking about technology transfer from  
16 entrepreneurs and start ups into larger companies.  
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: How  
23 important for entrepreneurs are these markets for  
24 technology? Anybody?

25           PROFESSOR LEMLEY: My sense, Stu might have

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



1           I will say also, chiming in and dovetailing on  
2 what Polk said, I think that this is a -- particularly  
3 in complex technologies, right, where you have a lot of  
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  
8 question: How does this play itself out in terms of  
9 acquisition as a strategy? I'm actually working with a  
10 graduate student now, and what we're trying to do is  
11 model and then bring empirical evidence to bear on  
12 whether there are differences in the way in which patent  
13 portfolios are built given the incentives or given the  
14 intention of the firms in terms of how they see their  
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? systematically.

1 model is most visible in sectors like biotech, pharma,  
2 but I think it's actually quite prevalent elsewhere.  
3 The actual incidence, I don't think anybody really knows -

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

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.

13           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,  
16 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,  
19 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  
25 company, and what should we do with the patent system to

1 deal with those issues.

2 Polk?

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.

10 I do think that the patent system, the lack of  
11 certainty surrounding the patent system is not helpful,  
12 and I think Stu had a slide showing how it just eats  
13 away at what would otherwise be the welfare gains.

14 I mean, one of the things we think patents do or  
15 should do for us is provide people the ability to  
16 transact around knowledge assets that would otherwise  
17 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.

23 MS. MICHEL: Iain?

24 PROFESSOR COCKBURN: I agree. I think that the  
25 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.

13 Many of them, as we know, are complex documents, a  
14 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  
17 of risk and uncertainty that participants in this market  
18 are dealing with, and that the title problem, if you  
19 like, is secondary.

20 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  
12 investigations unless they're confident up-front that  
13 they have a patent portfolio that will cover those  
14 drugs.

15 What can we do about certainty? Look, I mean, I  
16 think there are a number of things you can do to try to  
17 gather better information, either cheaper or earlier  
18 than we do it in the current system. Bhaven Sampat  
19 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  
23 patent and those that are not.

24 I think a post-grant opposition system gathers  
25 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  
6 try to scrutinize applications effectively at no cost to  
7 the Patent Office, so I think there are lots of things  
8 you can do, and then I think there are specific ways you  
9 could get greater certainty in the damages rule than we  
10 have right now for example.

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1 telling us that the venture capital cares about, whether  
2 the firm has patents or not.

3 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.

10 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  
13 a lot of substantial problems associated with  
14 transacting over intangibles. The opportunities  
15 are much harder to recognize. It's much harder to find  
16 parties for the transaction.

17 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  
20 it's a difficult to transfer, and the boundaries, the

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  
13 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  
16 have an experience in the European system where they  
17 actually were involved in this system, even though  
18 they're at small firms, they believe and have told me so  
19 that more certainty in the system can only help them  
20 ultimately.

21 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.

25 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



1       uncertainty with respect to claim construction.

2               MS. MICHEL:  Is your suggestion of having the PTO  
3       doing claim construction and enforcing patentees, to be  
4       clear, are you thinking about stronger enforcement of  
5       the definiteness requirement in 112?

6               PROFESSOR WAGNER:  That's certainly one way,  
7       right.  We could be serious about the indefiniteness  
8       requirements, particularly at the PTO where they don't  
9       in fact take it particularly seriously in my view and  
10       require patentees that don't provide a sufficient level  
11       of detail with respect to what it is they mean, that  
12       they have to either define something very clearly in  
13       their specification or at minimum tell the Patent Office  
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 vague 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  
12 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.

20 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  
24 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  
3 recognized it as such, but I'm not aware of any recent  
4 cases. So we may get some mileage out of that.

5 We could also consider the possibility of  
6 changing the presumption of validity with respect to  
7 definiteness, so if the courts aren't willing to drop  
8 the clear and convincing burden with respect to all  
9 aspects of validity, perhaps we can just target  
10 definiteness and say with respect to definiteness, the  
11 standard is preponderance of the evidence.

12 The lexicographer rule is somewhat problematic.  
13 So, under this rule, applicants can define things as they  
14 wish, and they don't have to explicitly do so. They can  
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  
21 describe the invention. Then, additionally if you  
22 have to use special language, if you have to adopt an  
23 idiosyncratic meaning for something, then you would have  
24 to say so explicitly somewhere in your specification.

25 MS. MICHEL: Iain?

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  
6 shares in IBM, these are well defined -- the treasury  
7 bond futures contract, you start with a precision in the  
8 definition, and from that the rest of the market seems  
9 to follow.

10           And I think the -- I was struck when I was listening  
11 to Jim Malackowski this morning -- that even before I was  
12 working on my doctoral thesis, economists were trying to  
13 come up with ways to value patents and intangibles Zvi  
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

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.

12 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

1           PROFESSOR LEMLEY: So the PTO rules that were  
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.

8           And so I think we need to pair that idea  
9 with some sensitivity on the part of the courts in  
10 inequitable conduct cases that compelled  
11 statements not be the basis for inequitable conduct  
12 unless it really does look like they were deliberately  
13 false.

14           My guess is the Federal Circuit is getting that  
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  
19 requirements that aren't working, and that just suggests  
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  
23 the likelihood of being caught for inadequate disclosure  
24 will be probabilistic as well.

25           Maybe that will work to our advantage by



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  
8    disadvantage to disclosure, and that's enough to stop  
9    them from doing it. Collectively failing to disclose  
10   information can be socially very costly. Another  
11   example of this I think is very clear in the biomedical  
12   research.

13           One of the world's greater repositories of the  
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  
16   on the part of, particularly, the legal people in the  
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  
6 costly to the enterprise is enough to stop them from  
7 doing it, and I think that we just don't really have  
8 any evidence either way.

9 We've been looking at the markets for IP whether  
10 the requirements to disclose. As was pointed out I  
11 think that especially the small enterprise end of the  
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  
21 collect meaningful data about the actual cost of disclosure  
22 as opposed to the deep seated fear of inside counsel of  
23 owning up to anything will I think really make a  
24 difference.

25 MS. MICHEL: Polk?

1           PROFESSOR WAGNER: One question -- just to dovetail  
2 off of what Iain was saying -- is it's not entirely clear,  
3 and one other dimension of this is it seems quite likely we  
4 don't need to have every bit of information out there in  
5 order to make these secondary markets work a lot better  
6 than they do now. We just need enough information for  
7 people to make reasonable decisions on are a variety of  
8 levels, and that may be something far less than  
9 requiring every single transaction that occurs around a  
10 patent to be disclosed.

11           Although as researchers we love to say  
12 we want all the day that's possible, markets function  
13 all the time with incomplete data, and so one of the  
14 things I thought was rather compelling that we heard  
15 this morning was the private market might provide a lot  
16 of this. We're getting some disclosure through the SEC  
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

1 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  
12 markets that we can point to immediately tend to be ones  
13 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.

17 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  
12 which respects the commercial interest of the people who  
13 are affected by it, that, nonetheless, makes public  
14 something about the volume of trade, where it's  
15 occurring, what type of technology what the prices might  
16 be.

17           MS. MICHEL: Why would that kind of information  
18 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,  
24 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.

11 I think many of these negotiations fail because  
12 the two parties are streets apart. If they don't have  
13 an informed intermediary or a broker in the middle who  
14 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  
20 on one-off patent transfers? Often patents  
21 are transacted with many other different types of assets  
22 in ways that there are compliments, patents that  
23 compliment one another, and together they're worth more  
24 than they are individually.

25 They're offered with other complimentary assets

1 in some sort of transaction, so how do you dissect the  
 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  
 6 reminded me of a conference that both Polk and I were  
 7 speaking in at Berkeley on patent valuation, and two  
 8 things were clear.

9 One was that although they really tried to get  
 10 people that were best able to say something about  
 11 empirical evidence, about the prices of what's going on  
 12 out there, there's almost nothing. There is almost  
 13 nothing, and I had gotten up, and as part of my  
 14 presentation, I offered some evidence that was collected  
 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 for

19 using inventors as a source of information as to what

20 the value of what these things are, but nobody was able to

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  
6 agreement, which sounds like a monumental task? Is  
7 there something that could be useful and yet not go that  
8 far? Iain?

9 PROFESSOR COCKBURN: Well, a tempting but surely  
10 dangerous analogy is to think about real property, and  
11 one of the -- real estate markets seem to function  
12 pretty well most of the time. They have a public land  
13 registry. Every transaction is posted and priced - and  
14 of sssss euh544.tand priced -5tsd

1 and just report.

2           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

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  
6 venture capitalists associated with this survey that  
7 we're doing -- because we did a lot of careful background  
8 work before we set up the survey. They were telling me,  
9 time and time again, that the most important reason why  
10 they wanted the firms in which they were investing -- the  
11 portfolio companies that have patents, was to ensure that  
12 they had freedom to operate, room to operate on the  
13 theory that they said they were investing in people.

14 Yes, sometimes they were investing in  
15 technology, but actually from what I heard that wasn't  
16 par for the course. Generally they're investing in  
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  
24 entrepreneurs is one that's -- it's needed.

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

1 so someone else doesn't or patenting for a defensive  
2 reason?

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

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  
6 it the "no midline problem." That is to say many  
7 technologies have this difficulty that they're not  
8 codified, searchable or well-defined from the  
9 perspective of anyone in the system, whether it be the  
10 applicant producing prior art.

11 They're not quite sure what might be relevant to  
12 their invention. The examiner is not quite sure either,  
13 nor would be another party to a transaction. The single  
14 exception to this, I think that holds in mechanical,  
15 electrical, business methods, software, all kinds of  
16 technology domains, nobody is quite sure what it is.

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  
23 that clarifies the nature of the rights for everybody,  
24 and there's a lot of that uncertainty.

25 MS. MICHEL: Does that suggest that as the IT

1 industry or the software industries develop and  
2 standardize their own nomenclature just as a matter of  
3 engineering that could help? Polk, you're nodding.

4 PROFESSOR WAGNER: Sure. I think I would  
5 definitely expect that as these industries mature,  
6 you're going to see a lot more. It's just sort of a  
7 classic story, which is as it gets more worthwhile for  
8 these industries to have these sorts of systems in  
9 place, you're going to see them emerge because there are  
10 substantial gains that outweigh the cost of doing them.

11 And we need to remember that we are in IT and  
12 business methods or a lot of these software  
13 areas. This is still a pretty immature industry in a  
14 lot of ways, particularly their experience with patents  
15 because in many cases these industries were not active  
16 participants in the patent system until just the last  
17 decade or so, so these are quite young entrants to the  
18 patent system so we shouldn't expect them to be as  
19 well ordered as they should be -- as some of the more  
20 mature chemical bio areas.

21 So I think there is reason to be hopeful that we  
22 can get our hands around that problem better, never be  
23 perfect but we can certainly do better.





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 to help innovation somehow? Polk?

8           PROFESSOR WAGNER: I think the easy answer is we  
9 just don't really know. Although I was struck by this  
10 morning's discussion in the sense that there was almost  
11 no discussion of how the secondary market influenced the  
12 decisions with regard to inventions, innovation,  
13 patenting itself because you would think that -- now the  
14 fact that people have good information about what kind  
15 of houses or cars sell well is a huge factor in people's  
16 move decision-making about what kind of cars to build,  
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



1 MS. MICHEL: If we make a distinction between  
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  
6 commercializable product, how does that distinction help  
7 us think about how the secondary markets might be  
8 creating incentives to invent?

9 It seems that if you're creating a market for a  
10 patent, you are perhaps creating incentive to invent.  
11 Does that make sense to you?

12 PROFESSOR WAGNER: Is there a tight correlation  
13 between patents and inventions? I think what many  
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  
25 intentional, and if you are making a distinction between

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,  
10 and without the patents it is very clear I think that  
11 the level of investment in R&D and the progress of  
12 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,  
16 and that's why we still struggle to find this link  
17 between IP rights and incentives to invent because  
18 everywhere else people rely upon fast cycle times,  
19 brands, manufacturing capacity, preemption of scarce  
20 assets, so on and so forth.

21 MS. MICHEL: Right before we wrap up, I would  
22 like to move to the independent invention defense idea  
23 the idea that if a manufacturer of a product has  
24 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.

16 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

1 issue of an independent invention defense or prior user  
2 right seems to be kind of irrelevant.

3 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  
11 of rapid follow-on invention that was not a copy  
12 throughout various parts of the patent system, and I  
13 think that is an interesting proposal.

14 I mean, I would want to think about it carefully  
15 in terms of the incentive at each step, but that I think  
16 is a way of getting at some of the information that we  
17 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  
23 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  
2 elsewhere.

3 MS. MICHEL: Sam?

4 PROFESSOR VERMONT: So, the prior user defense may  
5 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.

11 If we gave prior user rights, if we allowed  
12 prior user rights, then we would essentially be allowing  
13 trade secret holders to avoid the current law, which is  
14 if someone re-invents later and gets a patent and they  
15 can prevent you from your use.

16 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.

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  
6 certain about investing in any particular patent, and

1           The metrics of quality -- although these are all  
2    sort of very blunt metrics of quality -- are generally  
3    higher in those areas, so I think that's explainable on  
4    grounds that they have a different kind of strategy  
5    than the big firms that are dominating in the patent  
6    s     s2dhe big firms that are dominating in the patent

1 following a different strategy at least in the EPO.

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.

11           And it seems like this was a response to the  
12 famous Borland/Lotus litigation over copyright.  
13 Having said that though, I never looked at the quality  
14 of those Borland patents, so were they doing a large  
15 number of high quality patents or --

16           PROFESSOR WAGNER: Given that their patent  
17 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  
23 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



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  
12 that situation who does not have its own large patent  
13 portfolio? Is that a special problem?

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  
10 happens, this feedback loop happens, you sometimes then  
11 see the companies selling off their patents into the  
12 secondary market again, and we have another kind  
13 feedback loop.

14 PROFESSOR WAGNER: I don't know. That's because  
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  
18 are obtained every year, so I'm not sure we could  
19 generalize this sort of swinging effect that was  
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  
24 patents, and we certainly have examples of companies  
25 who do that. On the other hand there's an awful lot of

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  
11 over into the cosmetic space, some stream that didn't pan  
12 out or whatever the case was, and just abandoned or sold  
13 out, so something is happening. I don't know what.

14 MS. MICHEL: One question. Why is the  
15 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  
20 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  
4 discussion for us. We appreciate it. If anyone  
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