

FEDERAL TRADE COMMISSION

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In the Public Hearing on)
COMPETITION AND INTELLECTUAL)
PROPERTY LAW AND POLICY IN)
THE KNOWLEDGE-BASED ECONOMY.)
-----)

MARCH 20, 2002

Federal Trade Commission
Room 432
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The above-entitled matter came on for hearing,
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P R O C E E D I N G S

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MR. BARNETT: Good morning. My name is Michael Barnett. I'm a staff attorney here at the Federal Trade Commission. I would like to welcome you to this morning's hearings, "Business Perspectives on Patents, Hardware and Semiconductors."

This hearing represents the second of our business-related hearings dedicated to various high-tech hardware and semiconductor industries, as opposed to other industries more adequately described as software and Internet or biotech and pharma.

Joining me today are my colleagues from various government agencies and I would like to introduce Susan DeSanti, to my left, Deputy General Counsel for Policy Studies at the Federal Trade Commission.

Sue Majewski, an economist at the United States Department of Justice, is to my right. And then two down to my left is Robert Bahr, Senior Patent Attorney at the United States Patent and Trademark Office.

Gathered with us are representatives from various companies as well as academia to provide us with their insight and experience into patents, competition and innovation within their business or field and, hopefully, in turn, their industries in general.

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1 before it was acquired by Alcatel. George.

2 MR. BRUNT: Thank you, Mike. It's a privilege to
3 be here and to discuss patents and the convergence of
4 intellectual property and competition.

5 Mike asked me to give just a little explanation
6 of who Alcatel is. We are a global telecommunications
7 company. We're headquartered in Paris, France with an
8 Americas headquarters in Dallas, Texas.

9 We make all of the equipment that sits behind the
10 jack in the wall where your telephone plugs in: the
11 switchers, the routers, the cables, the fiber optics, all
12 sorts of telecommunications equipment.

13 And I'll go into a little bit more detail about
14 what Alcatel does and the commitment we have to
15 innovation during the presentation.

16 MR. BARNETT: Great. Thank you, George. Next we
17 have Dan McCurdy. Daniel McCurdy is the President and
18 CEO of ThinkFire, a new company that we understand aims
19 to help its clients obtain returns on their technology
20 investments through intellectual property licensing.

21 Mr. McCurdy is the former President of Lucent
22 Technologies' intellectual property business and he has
23 worked for IBM and Siena Corporation as well.

24 At IBM, Mr. McCurdy was Vice President in charge
25 of the company's market entry into the life sciences

information technology market. Dan. F20 years in ryl about in.

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1 Of course the subject matter of these hearings are very
2 interesting, especially being affiliated with AMD.

3 AMD is about a 33-year-old company and we
4 participate in three businesses. We have got a flash
5 memory business. We have a new business we're just
6 trying to get off the ground, which is really embedded
7 microprocessors for wireless-type devices. And then our
8 flagship business is participating in X86 microprocessors
9 for the personal computer and server markets as well as
10 other chips that are needed for those types of platforms.

11 We are a company that had \$4.6 billion in revenue
12 in 2000 and \$3.9 billion in revenue in 2001. Our big
13 claim to fame there is we only shrunk at half the rate of
14 the rest of the industry. I look forward to discussing
15 these issues. Thank you.

16 MR. BARNETT: Very good. Thanks, Harry. Next, to
17 my far left, is Rosemarie Ziedonis. Rosemarie Ziedonis
18 is an Assistant Professor of Management at the Wharton
19 School of the University of Pennsylvania.

20 Her research interests are in the area of
21 intellectual property rights and corporate strategy in
22 high-technology industries and she's currently working on
23 assessing the impact of stronger intellectual property
24 rights on firm strategy in the U.S. semiconductor
25 industry and other research projects.

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1 MS. ZIEDONIS: Thank you for letting me join the
2 panel and I look forward to sharing some insights of some
3 large scale empirical studies that I have been doing both
4 on my own and also in collaboration with Bronwyn Hall out
5 at Berkeley whom you heard from on the previous panel.
6 So thank you for the opportunity.

7 MR. BARNETT: Thank you. Next we have Gary
8 Zanfagna. Gary is the Associate General Counsel for
9 antitrust at Honeywell International. Before joining
10 Honeywell, Mr. Zanfagna was Assistant Director for Policy
11 Planning here at the Federal Trade Commission in
12 Washington, D.C.

13 At the Commission he was one of the principal
14 authors of the FTC and DOJ "Antitrust Guidelines for
15 Collaborations Among Competitors" and was instrumental in
16 writing the FTC staff report titled, "Anticipating the
17 21st Century: Competition Policy in the New High-Tech
18 Global Marketplace." Gary.

19 MR. ZANFAGNA: Thanks, Mike. I'd just like to
20 thank you and thank Susan for the opportunity to be back.
21 It's a pleasure to be here today, and I appreciate the
22 opportunity to participate in the hearings on behalf of
23 Honeywell.

24 I am Associate General Counsel for Antitrust at
25 Honeywell. Honeywell is maybe a little broader than most

1 companies here. It's a \$24 billion diversified
2 corporation, a technology and manufacturing company. We
3 serve customers worldwide.

4 We're involved in home building controls. We're
5 involved in automotive products, specialty chemicals,
6 fibers, plastics and electronic materials.

7 We do also participate in the semiconductor
8 industry in certain discrete or specialized areas. In
9 addition, I look forward to talking more about what we do
10 and our view on competition and intellectual property.
11 Thank you.

12 MR. BARNETT: Very good. Thanks, Gary. Finally,
13 we have Richard Thurston. Dick Thurston is the Vice
14 President and General Counsel of Taiwan Semiconductor
15 Manufacturing Company Limited.

16 Before coming to TSMC he pursued an international
17 intellectual property-oriented practice at Haynes and
18 Boone in Dallas, Texas and at Texas Instruments.
19 Richard.

20 MR. THURSTON: Thanks, Mike, for the introduction
21 and especially for the invitation to come all the way
22 from Taiwan to participate in this morning's hearing. It
23 is a great honor and pleasure to be here because this
24 topic is extremely important to me.

25 I have spent about 25 years working in this area

1 but also it's especially important for our company which
2 takes great pride in being a major technology leader. I
3 think it builds products for, I think, all the companies
4 here at this table in one way or another.

5 And we are also here because the U.S. law and
6 U.S. market is extremely important to us. Over 60
7 percent of our customer base are U.S. companies, largely
8 a combination of fables companies.

9 Over 175 fables companies have been our
10 customers as well as the IDMs, integrated device
11 manufacturers, which we'll talk more about later. We
12 also had a great year in 2000, about \$6 billion in
13 revenue.

14 It dropped of a little bit last year although we
15 were fortunate to turn a profit every quarter. This year
16 is looking to be a strong one for us and hopefully, if we
17 don't get into too much litigation over patent issues,
18 we'll turn a profit again. Thanks.

19 MR. BARNETT: Thanks, Dick. Now, we'll begin with
20 a few presentations from our panelists, and we're going
21 to start with Rosemarie Ziedonis, who's going to give us
22 an idea of what she's found with her research on various
23 industries.

24 MS. ZIEDONIS: As I said, it is a pleasure to
25 have the opportunity to present some work today. Mike

1 was kind enough to call me and ask me to kick off this
2 panel by perhaps setting the stage with establishing some
3 general trends that have been going on in patenting. We
4 hear a lot about the explosion in patenting. Well, how
5 does that compare with R&D trends over the past two
6 decades that a lot of us have been scratching our heads
7 about?

8 Why is semiconductors different? And I'd like to
9 spend a bit of time, after laying out these general
10 trends, focusing on the interesting and also different
11 roles of patents even within one industry like
12 semiconductors.

13 And building on a comment that was previously
14 made, the role of patents for manufacturing firms versus
15 fabless firms, as I'll call them, these specialized
16 design firms, can be quite different. And I think that
17 it's important to keep that in mind. So I want us to
18 think about that as we continue through my presentation.

19 Now, the insights from two recent studies
20 include, as I said, work in collaboration with Bronwyn
21 Hall that was published in the *Rand Journal* last year so
22 I'm going to be summarizing some of the main findings
23 from that study and also recent work that I thank the
24 National Academies and the Step Board for commissioning
25 me to really trace, for about a 30-year period, patterns

1 of patent litigation in semiconductors.

2 And here I'm mainly talking about dedicated U.S.
3 semiconductor firms but obviously companies like TSMC and
4 the like are on receiving or giving ends of that
5 particular sample. So semiconductors is an interesting
6 setting to think about this role of patents and what
7 purpose does it serve in either stimulating innovation or
8 not?

9 I want to point out two things. One is that the
10 Yale survey, the Carnegie Mellon survey, has consistently
11 pointed out that if you interview or survey R&D lab
12 managers across industries, representatives from the
13 semiconductor industry report that patents are among the
14 least effective mechanisms to appropriate returns from
15 R&D.

16 Instead, we're talking about lead time, secrecy,
17 complex manufacturing capabilities. We have other ways
18 of profiting from R&D and we don't rely solely or largely
19 on patents.

20 This is a consistent finding from these surveys.
21 The first one that was administered in the 1982-83 time
22 period and the second one that was administered in 1994
23 after many of the pro-patent policies, as many of us call
24 it, have taken place.

25 And despite that, you see that over a period of

1 the 1970s through -- and this drops off in '93 -- an
2 explosion of patenting relative to R&D spending in the
3 semiconductor industry.

4 So one of the main things that we should learn
5 from this particular slide, what we've done here -- this
6 is from the paper with Bronwyn -- is we tried to weight
7 this explosion, this growth in patenting, by industrial
8 R&D spending.

9 So the red line that you see that's a fairly flat
10 line, slight decline from 1979 through -- the best way to
11 end this is '93. Forget the drop-off. It's because of
12 data issues.

13 But you see that overall, with U.S.
14 manufacturing, that the patent growth hasn't been
15 disproportionate relative to R&D spending. Part of that
16 is because of an explosion and an increase in R&D
17 spending in pharmaceuticals and the like that has
18 certainly outpaced any growth in patenting during this
19 period.

20 So the red line is really -- well, overall for
21 U.S. manufacturers, patenting has grown but so has R&D
22 spending. Now, if you look at the blue line, these are
23 dedicated U.S. semiconductor firms and you'll see that
24 around the mid-1980s we have a sharp increase in
25 patenting per R&D dollar.

1 So if you think about any million dollars spent
2 in R&D, more effort is generated, more resources, more
3 time filing -- and these are applications that have been
4 granted -- and obtaining U.S. patents. The black line,
5 you'll notice, is computers. It follows a similar time
6 trend but not at as high a level as what we see in
7 semiconductors.

8 Now, our study ended around the 1995 period, and
9 in case you think that this kind of aggressive patenting
10 by semiconductor firms has gone away -- well, I can tell
11 you, just for our sample of about 130-some U.S.
12 semiconductor firms, including companies like AMD,
13 excluding more diversified companies like a Honeywell or
14 an IBM or Motorola -- just looking at the dedicated firms
15 you'll see that from '95 to 2000 the number of U.S.
16 patents awarded to these companies has continued to
17 escalate. We do not have a slowing down of what has been
18 an upward trend.

19 So what's driving this surge? That was the main
20 question of a complicated study that I refer you to.
21 Here I just want to highlight a few main points.

22 In the study with Bronwyn we focused on what
23 might be the first obvious things you would look at.
24 Well, maybe we've just gotten better at managing R&D labs
25 so that we are just more productive for any dollar that

1 we're spending in R&D. We found little evidence that
2 that was the case. We know that semiconductors has been
3 an area where it has been fueled by technological
4 opportunities and wireless communications and the
5 Internet wave and a lot of other opportunities along the
6 way.

7 We saw little evidence that that explanation was
8 what was driving the surge and our main conclusion from
9 the study was that these broader changes in the patent
10 landscape in the United States have fundamentally
11 affected the patent strategies in this industry.

12 There are two kinds of related and interrelated
13 aspects that are complicated to tease apart. One is what
14 we have referred to as this pro-patent strengthening of
15 patent rights -- translated, this means higher
16 probability of receiving large fines if you are found
17 guilty of infringement, the shift in the evidentiary
18 standards of invalidating patents, and a series of other
19 reforms and policies set in place by the Federal Circuit
20 Court.

21 The second one that I bulleted here is that
22 perhaps that alone wouldn't have fueled all of this
23 intensive patenting, but we also have something else
24 going on, which is that it's fairly easy to get patents
25 coming out of the patent office, at least this is my

1 understanding. This is not my area of practice.

2 But consistently in the interviews with folks in
3 the industry I was like, "Well, you know, if we had to
4 change one thing let's just make it a little bit harder
5 to get all of these very trivial inventions coming out
6 from the patent office." So those two things, I think,
7 are going on.

8 There are very different strategic implications,
9 however, for firms within the industry. Remember, I said
10 at the beginning, two very different types of firms
11 within, as we call it, the U.S. semiconductor industry.
12 One, think of those that are operating \$2.5 billion, \$3
13 billion manufacturing facilities that integrate very
14 complex technologies. Those are manufacturers. And then
15 we'll think a few minutes about the different
16 implications for design firms separately.

17 So these manufacturers, the ones that own these
18 complex expensive facilities, their main reaction
19 according to our results was that, "Boy, if you're
20 strengthening the rights of patent owners, we're now
21 concerned about being held up by those patent owners."

22 So we want to basically preempt litigation,
23 preempt the use of external rights against us. We're
24 going to patent so that we exclude others before being
25 excluded ourselves -- a very defensive tone to the use of

1 patents. We're going to value owning these patents
2 because we need them to trade, either in cross-license
3 agreements or license agreements. And as someone trained
4 more on the economic side, I started out this being a
5 little suspicious and asking why would quantity matter?

6 I mean, surely the quality of the portfolios --
7 it's well, quality matters, but quantity matters too. So
8 there is this notion of the quantity of the portfolio,
9 size of the portfolio actually being of some economic
10 value in these license exchanges.

11 And then finally, we see this showing up in
12 improved internal management. This was not unusual in
13 some fields, more unusual for the tier of companies that
14 we were talking about in semiconductors. A lot more
15 attention paid to how do we generate, harvest, patentable
16 inventions internally. So is it the establishment of
17 these advocacy committees, more attention to really
18 identifying discovered inventions that would qualify for
19 patents, and then, finally, supplementing that with
20 annual goals and awards?

21 A very contrasting view, if we think about the
22 perspective of specialized firms that lack manufacturing
23 capabilities of their own, that contract out those with
24 companies such as TSMC and rely critically on patents to
25 raise capital, especially in the start-up phase.

1 and others have set forth before us.

2 However, many companies operating in this area
3 can't afford not to patent, but for very different
4 reasons. For manufacturers these are strategic assets
5 used in cross-licensing, used defensively, which we may
6 want to think about from the policy perspective. For
7 design firms, however, these are critical business assets
8 in a way that, in my opinion, the patent system was
9 really intended to operate.

10 Emerging issues or at least questions that I
11 would like to pose that I'm still wrestling with and that
12 I would pose to the panel, how long will this upsurge in
13 patenting continue? This is a costly exercise. There is
14 some indication that firms are turning more to defensive
15 publications much like IBM used, the old technical
16 bulletins and the like, but there is also this economic
17 cost perhaps of doing that because of foregoing the
18 leverage in negotiations.

19 The second point that, I think, is perhaps more
20 closely related to antitrust issues is how exactly are
21 firms navigating these thickets of patents that have been
22 issued? And this gets, obviously, at the interface of
23 innovation and then competition and cooperation on the
24 other hand in terms of patent pools, cross-licensing
25 agreements and the like. And then finally, the question

1 that is still not clear is whether, on net, the surge in
2 patenting is truly good or bad news for innovation in
3 this industry as we see it being challenged now with
4 research tools and genomics and software which we'll be
5 discussing later on this afternoon. Thank you.

6 MR. BARNETT: Thank you, Rosemarie. We're going
7 to move on to another presentation. If I could get you
8 to close -- there we go. We run a danger of the laptop
9 crashing if each person doesn't close out their
10 PowerPoint after they're done. I think at this point
11 we're going to hear from George Brunt.

12 MR. BRUNT: It's a privilege again to be here
13 today and to address these issues. I want to go a little
14 bit more in depth into Alcatel and what Alcatel is. I
15 know that it's not a household name yet in the United
16 States but I think it's rapidly becoming one.

17 What we do is we do design. We do have some
18 semiconductor activity but largely our activity is in
19 telecommunications, which consists of semiconductors,
20 computers and networks.

21 And we design, develop, build and market
22 innovative networks and solutions for our
23 telecommunications customers. Our goal is to enable any
24 type of content to be delivered to any type of customer
25 anywhere in the world.

1 Basically, our strengths are our global presence,
2 complete portfolio of all the telecommunications
3 equipment that you could want, and the ability to
4 integrate this equipment into networks throughout the
5 world.

6 This is a slide we don't often show the Justice
7 Department but we are the number one service provider in
8 infrastructure worldwide. We're number one in broadband
9 access, number one in global optical transport.

10 In ATM we're number two worldwide, number one in
11 contact centers worldwide. These are customer contact
12 centers for companies who want to have a customer call-in
13 center. We're number one in DWDM and SDH, worldwide, and
14 a leader in intelligent networks. We're number four
15 worldwide in satellites, and we're a leader in enterprise
16 solutions.

17 And so we really do have quite a presence in the
18 telecommunications industry worldwide. Our roots come
19 from the same place that AT&T's and Lucent's roots come
20 from. And in telecommunication we're basically what was
21 the old International Telephone and Telegraph, or ITT.

22 So some facts and figures. Basically, we're
23 around \$24- \$25 million in annual sales. We invested in
24 the year 2001 11.3 percent of our revenues into research
25 and development. So we're very committed to research and

1 development and to innovation. We have around 100,000
2 employees worldwide. We're in 130 countries and we have
3 over 22,000 engineers.

4 You can see by this chart the different areas
5 that our business is focused in. Carrier networking is
6 45 percent of our business. Space and components is 12
7 percent, and e-business is 14 percent, and optics is 29
8 percent.

9 Our customers run the gamut of anybody who is
10 trying to establish a communications network whether
11 their carrier is mobile operators, mobile phones, fixed
12 line proprietors, data providers, voice providers -- and
13 we have customers all over the world.

14 And most of the companies that make up Alcatel
15 have been home grown in their home country. And that's
16 true with the United States, too. The companies that are
17 here, the Alcatel companies that are here, are companies
18 that have grown up here.

19 Optics I use as an example, some of the
20 innovation that we do and the breadth of what our
21 innovation is addressing. Both network intelligence,
22 which is becoming more and more important, network
23 solutions, terrestrial systems, submarine systems. We
24 also make the fiber cables and the optical components
25 that go into the system.

1 We believe that this is an evolving system that
2 the eventual answer will be a fully optical switching
3 photonic, era, but there are some steps we have to go
4 through to get there and we serve all of those levels,
5 including ADSL and broadband, that are part of the
6 migration path.

7 And there's a lot of innovation and there's a lot
8 of development left to be done. One of the main things
9 driving us today are our costs. And so we're trying to
10 address our customers' issues by providing more for less.
11 And these are the research and development centers that
12 we have around the world.

13 So to get on to the topic that we're addressing
14 here today, innovation is one of the core values of
15 Alcatel. We have 6,000 patent families, 22,000
16 individual patents worldwide. They're in the various
17 different areas that we have been discussing.

18 We also concentrate heavily on trade secrets. I
19 think it's a good thing that the Department of Justice
20 and the FTC is taking an interest in this because I think
21 there's a lot of innovation yet to come.

22 We spend around \$3 billion a year in innovation
23 and if it weren't for patent protection and for trade
24 secret protection of the intellectual property rights, we
25 could never get investors to allow us to spend that much

1 of their hard-earned money on research and development.

2 Patents have proliferated over the years and I
3 think one of the things that is of interest to this panel
4 is what's causing the increase. And I think it's just
5 because we're in the information age. There is a lot
6 more information. We can more easily identify the
7 problems that need to be addressed and there's more
8 people working on the problems.

9 I think that this is the greatest stage of
10 innovation and it's in front of us not behind us. Even
11 though we have experienced great innovation in the last
12 few years it will accelerate. And so, it's justified
13 what we're doing here.

14 The founding fathers knew that great strides
15 would be made in society if innovation and disclosure was
16 encouraged and that's the purpose of the laws.
17 Innovation had been protected by trade secret laws and
18 that's old. We have cases going back to Roman times for

1 the great things that has made the United States advance.

2 Patent uncertainty, we still have problems with
3 it. The process, I think, is too slow. Far too many
4 patents fail for lack of validity. And this is one of
5 the things that's causing the cost of litigation and the
6 waste that goes on in the process. We figured that to
7 maintain a patent worldwide over a period of 20 years it
8 costs about \$200,000. Therefore, patents are assets that
9 suck money out of the system unless there's a licensing
10 program that brings the money back in.

11 And so that's one of the reasons why you see more
12 patenting and more emphasis on licensing and on mining
13 the value of your patent portfolio today. Litigation is
14 also very expensive.

15 There are some new companies emerging with what I
16 think is a shortsighted patent philosophy. These
17 companies live to exploit innovation from companies that
18 they acquire through marketing schemes and don't rely so
19 much on IP.

20 But I think it's shortsighted because if
21 innovation isn't protected, they're going to run out of
22 companies with innovations to exploit. And this chart
23 kind of shows you in a way some of what they call the New
24 World companies or .com companies have a different view
25 of IP. But I think that this is shortsighted because it

1 doesn't result in a reinvestment in research and
2 development.

3 Trade secrets are also important. Particularly
4 in times when patents can't be counted on to be
5 enforceable companies hold onto their innovations by
6 trade secrets. So common law trade secrets have been
7 enforced throughout time. It's an important property
8 right.

9 The very adoption of patent law to encourage
10 disclosure recognizes the law of trade secrets. And it's
11 in the laboratory where most innovation takes place.

12 We've had a hard time at Alcatel in keeping our
13 innovations in our laboratories and patents have not been
14 effective for us to protect those innovations because
15 they walk out the door far before the patent is available
16 to help us.

17 Patents don't become effective until issued. The
18 patent issuance process takes a lot of time, and if a
19 group of employees working on a specific project leave
20 our lab and go out -- are funded by venture capitalists
21 to start another company that's going to do the same
22 thing that they were doing in our lab -- then we run into
23 some severe problems.

24 We have to use trade secret laws to protect
25 ourselves and patents are inadequate there. And it's

1 different in each state, so I would really encourage the
2 adoption of a federal trade secret law because it's the
3 precursor of patent law.

4 The other aspect that I think is very hard to
5 realize is the value of patents, and the value of
6 innovation to our society. It's hard to think in the
7 billions and trillions. And that's what it costs to
8 innovate and we need the protection that allows us to
9 continue with this innovation.

10 Basically, I think that it's very important that
11 we resolve the uncertainty in the patent and the
12 trademark system and that we continue to uphold it
13 because I think it's the basis of innovation in our
14 society and responsible for the great advances that have
15 been made in the last 150. Thank you, very much.

16 MR. BARNETT: Thank you, George. Next we're going
17 to hear from Richard Thurston at TSMC.

18 MR. THURSTON: Good morning again. It's a real
19 pleasure to be here and it shows what a small world this
20 is. I traveled all the way from Taiwan to follow a
21 fellow Texan, that I live in the same community in which
22 he lives and have had a close working relationship with a
23 lot of his executives over the years, before I moved out
24 to Taiwan.

25 As you heard, I'm with TSMC, again, also not a

1 household name although most of the products that are in
2 your household have contained products that were built by
3 our company for our customers.

4 We are a young company, only 14 years old, having
5 been established back in 1988 in Taiwan as the really
6 first contract manufacturer in the semiconductor
7 industry. We have grown to be the world's largest
8 foundry in this business and take great pride in our
9 technological accomplishments.

10 Today we are in full scale manufacturing of
11 technologies at the .13 micron level which is a
12 significant factor in the ability to have a lot of
13 technologies at your home which you enjoy, which your
14 kids enjoy, such as Xbox. Nvidia is a major customer of
15 ours and has been a major enabler of products such as
16 that.

17 It's been also an interesting career for me
18 because I had the honor of being at the dawn of creation,
19 so to speak, when I joined TI in 1984 and was actively
20 involved in a lot of the strategy that went into our
21 licensing program, especially as concerns Asia. I was
22 Asia-Pacific regional counsel at that time, lived in
23 Tokyo from '87 through '90, and was actively involved in
24 much of what we were doing out there.

25 At that point in time, as has probably been well

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1 written and maybe my friend and former colleague, Fred
2 Telecky, talked about it at the last hearing in
3 California, that TI really entered upon the program out
4 of necessity, out of survival.

5 We were really dying in many ways, lost
6 competitive edge, not just because of the Japanese
7 dumping but because of a lot of factors, but most
8 importantly felt that we were not obtaining a fair return
9 on our investment in the technology market and
10 particularly when you look at the level of research and
11 development that went into semiconductors at that time.
12 And that has only exponentially increased today.

13 And, in fact, Rosemarie, the average price of
14 building a 12-inch wafer fab, the most advanced, is in
15 excess of \$4 billion today. That's how much it costs for
16 us. We're building two of those facilities right now.
17 Intel, IBM are among the last of the generation that are
18 building such facilities that are very important to the
19 survival of the semiconductor industry. Our greatest
20 fear is also what's looming on the horizon across the
21 Taiwan Straits, and for many reasons, cheap manufacturing
22 costs, but also still a lack of consideration given to
23 intellectual property issues.

24 In fact, we have initiated some significant trade
25 secret cases in Taiwan, and I agree with my colleague

1 George about the importance of trade secrets. And
2 perhaps in many ways in the future I would encourage FTC
3 and Justice to look more at that. And it may be a way
4 also to eliminate some of the backlog at the patent
5 office.

6 We are a process manufacturer. We do not do the
7 design work of the semiconductor chips. We leave that to
8 AMD and Honeywell and Alcatel and others. We build the
9 manufacturing processes, and therefore, as in most
10 process-oriented companies, the manufacturing trade
11 secret value is fairly significant.

12 TSMC today has over 3,000 patent applications
13 that have been filed in the U.S. Nearly 2,000 have been
14 issued. Two thousand five hundred in Taiwan, and then
15 maybe another 500 around the rest of the world -- I'll go
16 into that next as to some of the rationale behind our
17 programs and then hopefully save the rest for discussion.

18 I would add, Rosemarie, that I concur with most
19 of your comments and would certainly be glad to expand on
20 it from our position as a foundry. Also, we are
21 fortunate to have unique insight into the fabless design
22 companies as well as the IDMs themselves since most of
23 them or many of them are our partners.

24 As we saw from George's presentation the founding
25 fathers had a very specific view of what the patent

1 clause should look like. I have prepared a ten-page
2 paper that I have given to Mike that will be published
3 that goes into a little bit more of the founding fathers
4 thoughts. I have done a lot of research in this area as
5 well as a lot of the issues behind TSMC and our
6 perspective on semiconductors and patents and
7 intellectual property.

8 Needless to say, Jefferson, Madison, Pinckney and
9 others were initially strongly opposed to providing any
10 patent monopolies in the United States because they
11 feared that it would limit innovation.

12 There is extensive discussion in their papers and
13 also in the Federalist Papers, particularly 43, on the
14 thinking behind finally accepting a patent clause.
15 Looking at the objectives and goals that TSMC has, we
16 have heard a number of those from George, but first and
17 foremost is to manufacture securely and freely, not to be
18 shut down.

19 We want to sustain competitive advantage. We
20 want to enhance our global image, provide the customers
21 value-added and leveraged access to third parties.

22 And we do a lot of joint development work which
23 is also relevant to this topic and I can talk about that
24 more in discussion.

25 Increasingly, and one of the reasons I was hired

1 is to try to help minimize patent infringement, liability
2 damages cost, particularly that which involves lost
3 management time that you have to face as you prepare for
4 those, certainly, and when you get an infringement claim
5 notice of doing the internal research and review and
6 analysis.

7 Increasing shareholder value and increasing
8 employee welfare -- much more through innovation,
9 initially; today though, as we've heard, patents are
10 driving for a number of reasons. When we file, we have a
11 number of considerations, certainly patentability, as
12 provided for under law.

13 We do competitive analyses of what our
14 competitors are up to in this area. And again, this is
15 largely driven from a defensive position rather than any
16 offensive or revenue-generating. We want to know what
17 potential claimants are doing that might come after us
18 for infringement in the process area.

19 We consider our advance process technology
20 roadmap, particularly as we have gone and we have
21 developed our portfolio, especially focused on 1.18
22 micron and below. More patents today are going into the
23 .10 micron area.

24 New manufacturing processes such as copper
25 technology, titanium dioxide, et cetera, are

1 resources into U.S. PTO although I'm not sure if it
2 really will help in the total big picture.

3 I remember having a number of discussions with
4 Bruce Lehman when I was at TI concerning the
5 expropriation by Congress of patent filing of fees and so
6 forth and we do not condone that. Thank you. I'll talk
7 with you later.

8 MR. BARNETT: Thank you, Richard. With these
9 ideas in mind I would like to begin our discussion
10 portion of the hearing. Let me begin with some rules of
11 the game.

12 If, during the course of the discussion you would
13 like to contribute, just please stand your nameplate on
14 end and then we'll call on you in turn.

15 I think at this point I would like to give maybe
16 Dan McCurdy a chance to comment on some of the things
17 that he's heard here. I know that he doesn't have an
18 opening presentation prepared, but I'd like to hear from
19 the people that haven't had presentations so far and just
20 hear what their thoughts are on what they have heard so
21 far and then we'll go from there. So why don't we start
22 with Dan?

23 MR. McCURDY: Mike, it's true I don't have an
24 opening presentation. I do have seven points that I
25 would like to make that will take me about a minute and

1 30 seconds and then one question, at least for Rosemarie
2 with respect to her presentation.

3 First, I believe as you have heard from others
4 that the intellectual property system in the United
5 States has served the country exceedingly well since its
6 inception. It has shown amazing resilience to
7 accommodate tremendous progress in science and the useful
8 arts. The evolution of the system has been the key to
9 that. Attempts at dramatic change such as the sui
10 generis Chip Protection Act have proven distracting and
11 unhelpful.

12 Second, the patent system has encouraged enormous
13 investments in technology and life sciences, two
14 industries with which I am familiar. Without the patent
15 system, substantial investments would not occur -- George
16 also made this point -- and technical progress would slow
17 dramatically.

18 Third, in high-technology industries, unlike, for
19 example, the pharmaceutical industry, patents can seldom
20 be used successfully to exclude others. I think this is
21 a very key point.

22 Few innovations are sufficiently fundamental to
23 permit such exclusions. With time and money, most
24 high-tech innovations can be avoided by engineering
25 around them. They are more like speed bumps than

1 concrete barriers.

2 Nonetheless, these speed bumps can be expensive
3 to build, so companies that are net innovators rather
4 than net users of others innovations pay a toll in the
5 form of royalties for their use of such innovations.
6 This royalty enhances the ability of those who are
7 significant inventors to continue the cycle of
8 innovation. Our economy is the winner.

9 Fourth, patents can enhance the standards
10 process, provided essential patents are used and
11 standards are licensed under reasonable and
12 non-discriminatory terms. Inhibiting the licensing of
13 patents used in standards or requiring patents used in
14 standards be licensed royalty-free would diminish
15 investment in precisely the areas where investment should
16 be encouraged.

17 Fifth, recent practices in patent creation and
18 patent enforcement, such as the so-called submarine
19 patents, damage the legitimacy of the patent system.
20 Actions such as tailoring patent applications through
21 continuations to place a potential licensee's products in
22 direct infringement of the patent when it actually issues
23 do nothing to promote innovation.

24 Sixth, next to last, arguments that the patent
25 protection of computer software-related inventions has

1 burden, of course, being otherwise companies end up with
2 tens or even hundreds of millions of dollars a year of
3 maintenance fees, and what the impact of that has been on
4 a net holding by an individual company of a portfolio?

5 MS. ZIEDONIS: To answer your question honestly,
6 no. Those numbers are not corrected for applications
7 that have been granted but then the maintenance fees are
8 not paid.

9 That said, one, it can be done. It just hasn't
10 -- we haven't merged that part with it. The other thing
11 is that a funny empirical fact from studies that Mark
12 Schankerman and Jenny Lanjouw have done some work in this
13 area as well.

14 When they have looked at renewal rates across
15 industries, semiconductors and electronics are actually
16 renewing on a higher level than pharmaceuticals or other
17 industries, suggesting that maybe some patents are being
18 kept alive for reasons not directly tied to the short
19 product life cycles that characterize the industry.

20 MR. McCURDY: The reason I asked the question is
21 it is probably important data to know. It's also
22 extremely difficult to get. You can search it out but it
23 isn't something that in our attempts to find the data,
24 and so all we have is anecdotal at best.

25 I know what we did at IBM. I know what we did at

1 Lucent, which is you look at IBM as an example for, what,
2 the last eight or nine years it's been the number one
3 producer or grantee of U.S. patents and yet the portfolio
4 overall has not grown all that significantly, because as
5 they granted patents they dropped patents. The idea
6 being that they want to improve the quality of the
7 portfolio not the quantity of it. It's an important
8 correlation of fact. Whether it's pervasive, I don't
9 know.

10 MS. ZIEDONIS: If I can make one clarifying
11 comment. The trends that I presented, those upward
12 trends, were simply the number of successful applications
13 in a given year. Those were not cumulative numbers.

14 MR. McCURDY: Right. And so if you look at the
15 overall size of the U.S. patent, of what I call active
16 patents, and do a trend of that, it's also an important
17 piece of empirical data to have, just to see if we know
18 that.

19 MR. BARNETT: On that note, I think that one thing
20 that we are interested in is the role that patents are
21 playing in a company's fundamental innovation decisions.
22 I might open this question up as to what that role is to
23 the panel. I might start with Gary, just because I know
24 that he mentioned that Honeywell is such a diversified
25 company that that might provide some interesting

1 perspective on this.

2 MR. ZANFAGNA: Absolutely. Might it make sense
3 for me to make my two-minute comment now as opposed to
4 waiting?

MR. BARNETT: Sure. By all means. Go ahead.

1 As I said before, we do participate in the
2 semiconductor industry. I think you might call them a
3 specialty semiconductor area and I don't think I'm really
4 here to talk about that today. It's a niche market and
5 it really, I don't think, operates in the same way that
6 other industries and other businesses here are going to
7 talk about.

8 I wanted to spend a couple of minutes today and
9 it might be a good opportunity to change the dialogue
10 slightly to talk a little bit more about antitrust and
11 intellectual property and how Honeywell and I, anyway,
12 see that combination impact innovation.

13 Let me start with the following. As Honeywell
14 folklore goes, our company was founded and built on a
15 patent. In the late 19th-century, a gentleman by the
16 name of Mr. Butz invented and patented what is no doubt
17 famous to all of you, the flapper damper. It's a
18 wonderful device that mechanically regulated the airflow
19 in a home furnace and that permitted the coal fire to
20 burn all night. And in Minneapolis, which is the
21 headquarters, the former headquarters of Honeywell, it
22 was absolutely critical at that time to keep the fire
23 burning. Honeywell hasn't looked back since then and my
24 point simply being with the endnote that intellectual
25 property is, in fact, in a very real sense a cornerstone

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1 of Honeywell.

2 Today and throughout the history of Honeywell
3 over the last hundred or so years, Honeywell has
4 innovated in order to vigorously compete in the
5 marketplace and service customers. I very much agree
6 with the comments from the other side of the panel.

7 Antitrust laws promote innovation through free
8 and fair competition. That's my perspective on the
9 world. Intellectual property rights promote innovation
10 by encouraging private investment in the development of
11 new and improved products and technologies.

12 Without the protection afforded by intellectual
13 property rights, Honeywell, I will say, would not be able
14 to commit the same level of resources to innovation.
15 Simply put, intellectual property rights encourage
16 innovation by enabling sufficient level of return on our
17 investment in our R&D.

18 Does the nature of innovation depend on or vary
19 by the industry in which Honeywell competes? The answer
20 is absolutely yes. In chemicals and pharmaceuticals, for
21 example, if I can just broaden the discussion briefly,
22 innovation is more typically what one might call discrete
23 or distinct.

24 The value of a patent in these industries is
25 often the exclusive right to a particular chemical or a

1 particular blend or to a next-generation drug. Again,
2 these are industries that Honeywell participates in.

3 The benefit is quite clear and it can be absolute
4 in those industries. In other industries in which
5 Honeywell competes, such as aerospace, home ability
6 controls, innovation is considered more cumulative or
7 incremental, I think, are terms that one might use.
8 Honeywell will not patent an entire new generation
9 engine. It patents innovation on a new engine and
10 patents improvements on an engine.

11 Similarly with the thermostat, we don't patent
12 the new thermostat. We patent developments on new
13 improvements on the thermostat. So although the nature
14 of innovation -- and this is the point that I would want
15 to make loudly -- although the nature of innovation
16 varies from industry to industry, the fundamental role of
17 innovation is Honeywell's ability to compete remains
18 constant.

19 Honeywell maintains and furthers its competitive
20 advantage in the marketplace, in whatever industry we're
21 competing in, all of the ones I have mentioned, through
22 continuously developing new and improved products and
23 technologies.

1 space that it does. Intellectual property protection is
2 at the core of Honeywell's ability to innovate.

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1 general. Thank you.

2 MR. BARNETT: Well, for example, both George and
3 Dick brought up the idea of trade secrets being essential
4 to innovation to some extent. And I think some people
5 would say that those are arguably somewhat inconsistent
6 -- well, maybe not inconsistent, but at the same time
7 they're different doctrines.

8 And so how does this compare -- I'll throw this
9 out to the panel -- just at what time is trade secret
10 appropriate and what time is patent appropriate when
11 you're considering a role in innovation?

12 MR. BRUNT: I can address that a little bit, Mike.
13 I think that the trade secret is the more fundamental
14 right. No one should be able to force someone to
15 disclose their innovation. That's why you provide an
16 incentive for it.

17 But the trade secret definitely limits
18 competition in large degree because if you never disclose
19 the idea, then it isn't coaxed out into the public use
20 and other companies don't develop to exploit the idea and
21 to bring the value into society that can be brought.

22 So I think that's why the emphasis on patents and
23 why the emphasis on this limited period of time that
inventors and authors can have some exclusive rights you provide
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1 important in the process area than in the design area, is
2 that because processes are more easily kept secret, or
3 what explains the different function of trade secret
4 protection for different industries?

5 MR. THURSTON: I think part of it is processes are
6 more easily kept secret when you're looking at our
7 semiconductor manufacturing processes, as a lot of
8 different processes are involved. I think we have in our
9 technology database several thousand different processes
10 for each technology in a generation.

11 But when you look at a circuit design then you
12 look at how much copper you put in or how you protect the
13 copper or what have you, that process is important. And
14 it's harder to reverse engineer processes. It's harder
15 to determine infringement, in fact, with the processes as
16 well.

17 MR. BARNETT: Dan, you had some comments.

18 MR. McCURDY: Yeah. A couple of thoughts on this.
19 First, the issue is always, like the rest of things in
20 intellectual property, very complicated. So if you think
21 about a fundamental invention that is extremely important
22 to a company, let's say it's a semiconductor etch process
23 that's a fundamental breakthrough that can drive the
24 price, well, a company then has to think through the
25 following problem.

1 If I keep it as a trade secret then I have
2 obviously the exclusive use of it at least for that
3 period until somebody else discovers it. Now, you have
4 the countervailing problem that if somebody else
5 discovers it and you haven't published it, and you're
6 using it, then suddenly you're blocked from using a
7 process that you, in fact, discovered.

8 But now you can't because somebody else has
9 actually filed and there is no prior art that exists
10 because it wasn't published. So there's that trade-off
11 particularly in the technology industry.

12 Second is that even if it's a great intervention
13 I frequently had people in Bell Laboratories who would
14 come to us and say, "Look, I've got this incredible
15 invention. Don't you think it's incredible?" We'd say,
16 "Yes, that's an incredible invention."

17 And they'd say, "We're going to patent it,
18 right?" And we said no. And they said, "Well, why not?
19 You said it was an incredible invention. It's going to
20 help the company." We said, "Yes, it is. The problem
21 is, it's not discoverable." And they say, "Well, what
22 does that mean?" We say, "Well, here's this great thing
23 that you did, like a semiconductor etch process. It
24 helps save us a lot of money. It gives us competitive
25 advantage. We implement it and we go through the process

1 of filing this patent application that is going to cost,
2 depending on where we file and how long we can maintain
3 the patents, somewhere between \$60,000 and \$200,000.
4 It's issued and we can't ever figure out whether
5 anybody's infringing it or not."

6 So patents, unlike the common belief that if you
7 get a patent, somebody is going to simply stop working in
8 that area, is obviously wrong. There's lots of
9 infringers in the world. Some of them knowingly and some
10 of them not.

11 So if we can't discover it, we don't patent it
12 because we can't enforce it. That is, we can't enforce
13 the exclusion and we can't license it because we can't
14 prove that they're infringing. So why bother? Important
15 issues like that that help in this distinction between
16 what to keep as a trade secret, what to patent. Those
17 are at least some thoughts.

18 MR. BARNETT: Harry?

19 MR. WOLIN: I want to comment on that last point
20 that Dan made. I think whether or not an invention is
21 detectable should play a large part in whether or not to
22 keep it as a trade secret or to go ahead and file for a
23 patent on that.

1 working in this area and where is innovation in the

1 MR. BARNETT: I might go to Rosemarie and then we
2 might go to a break after that.

3 MS. ZIEDONIS: I just wanted to underscore how a
4 lot of these comments bring us back to probably what Wes
5 Cohen presented with the results of the Carnegie Mellon
6 study that he did with Dick Nelson and John Walsh, really
7 emphasizing the importance of trade secrets as a
8 mechanism for protecting innovation.

9 That said, I just wanted to qualify two things
10 coming out of that. One is that the way that that survey
11 was written and the way that some of this discussion is
12 going, it's not clear whether we're talking about
13 substitutes or complements in the sense that what I hear
14 George saying is that "Well, we really rely on trade
15 secrets early in the process," and then you may be
16 generating patents at that second stage. That's very
17 different from, "We rely on trade secrets instead of
18 patents."

19 So I just wanted to bring us back to the results
20 of the survey that was across industries and did
21 underscore the importance of secrets. But we shouldn't
22 imply from that that it is a substitute mechanism.

23 MS. DeSANTI: Although I guess I heard, Dan, that
24 part of what you were saying was in some cases trade
25 secret is a more appropriate way to protect than patents.

1 MR. McCURDY: Yeah. I think there were two
2 elements. One is in some cases I think that that's true
3 but there are also some risks that you run in making that
4 decision. And so it is always a very complicated
5 decision based on all of those factors.

6 If I had to come down to a generalization that
7 applies to most of what we have done, I would agree with
8 Rosemarie. I think that it is more that patents and
9 trade secrets are more complementary than they are
10 substitutes for one another.

11 And the fact that in spite of what the
12 Constitution tells us and the body of law teaches us, the
13 fact is that patents seldom teach enough so that someone
14 can actually go out and actually do the invention without
15 some additional work.

16 I mean, they are extraordinarily complicated

1 of the time you're still going to lose. And by licensing
2 and putting the technology into the hands of somebody
3 else with an appropriate reasonable royalty, even when
4 the company or licensor loses, it wins.

5 MR. BARNETT: I think this would be a good time to
6 go for a break. Why don't we meet back at 11 o'clock --
7 11:05.

8 **(Whereupon, a short recess was**
9 **taken.)**

10 MR. BARNETT: We're going to go ahead and get
11 started. We're going to be messing with the microphones
12 a little bit. We're having some trouble with getting
13 some volume out of the ones at the table, but we're
14 fairly certain that Harry's over at the podium is going
15 to work fine while we're working on it so we're going to
16 go ahead and start with Harry Wolin from AMD. And I
17 think he's ready.

18 MR. WOLIN: I am ready. Thank you. I really have
19 one goal for this presentation and that's to make sure I
20 don't get handed a note by Susan. I will try to move
21 through this quickly.

22 I want to change, really, the direction that
23 these hearings have been going and rather than talk about
24 how many patents we have got and what we use them for,
25 other than to say we're as guilty as everybody else and

1 we've got a lot of them, I want to talk a little bit
2 about standard setting in the context of our business.

3 And the one thing I really want you to understand
4 is that in the X86 microprocessor, business standards are
5 incredibly important because the X86 is a defined
6 instruction set, a defined technology.

7 And to participate in that platform you have to
8 be compatible with a number of other players that make up
the platform. So, for example, there's not only the

1 are set up.

2 De facto standards are set up in a couple of
3 ways. Those companies with market power are able to set
4 them by making some technology changes. Sometimes he who
5 has the best mousetrap is able to create a de facto
6 standard. So as with all, some good, some bad.

7 As we all know, there are some significant
8 benefits for the entire industry in creating standards
9 both for developers of the standard and for consumers.
10 We all know where we're going to play at that point.
11 Rather than having things competing in the industry from
12 a technology standpoint, we can compete based on
13 performance and not have to go through the extra steps of
14 trying to get people to buy into the various platforms.

15 Does that hinder competition? I guess an
16 argument can be made there, but typically there are a lot
17 of benefits and I won't go through each of them. I think
18 this is in some handouts as well as up there for you to
19 read.

20 In an open standard, like anything else it can be
21 abused, but where I see the most room for abuse, frankly,
22 is in closed standards and in de facto standards just
23 because of a simple point: not everybody gets to play.

24 So there's a lot or room for abuse and I don't
25 mean to go ahead and say that these types of standards

1 are bad. I'm just saying there's more room for abuse
2 there. So when we're talking about closed standards,
3 there's a lot of things I'm concerned about that
4 potentially create room for abuse.

5 There's typically hierarchical membership levels.
6 We have promoters. We have adopters. Not everybody is
7 treated equally, where in an open standard typically what
8 you have is a group that makes the rules, although
9 somebody in the group may have a little more power than
10 somebody else the group, as a whole or a subset of that
11 group, really gets to point out who gets to play what
12 role. So it's not a small group of companies or a single
13 company deciding who gets to do what.

14 The hierarchical membership levels are especially
15 concerning to me when not only do they tell you who gets
16 to do what, but everybody gets different licensing terms.
17 Frankly, some of the more egregious terms I've seen in
18 some standard setting bodies include a company that is a
19 promoter getting to license their technology on fair and
20 reasonable terms while somebody that is an adopter has to
21 throw theirs into a patent pool, royalty-free. So I
22 think that's something where there's just a lot of room
23 for abuse and something that basically screams for
24 regulation, frankly.

25 In the closed standard settings, by definition of

1 it being closed, or by virtue of it being closed, you're
2 always going to have competing standards. So there are a
3 lot of incentives for competing and rival standards.

4 And also this last bullet really goes through
5 those within the standards body based on the hierarchical
6 membership as well as those outside, and that is timely
7 access to the technology. Not everybody gets the same
8 thing at the same time, and that can potentially be very
9 abusive.

10 Talking a little bit about de facto standards, I
11 think it's no secret that in the PC and server
12 industries, Intel and Microsoft dominate it.

13 I can honestly say I have no desire -- I have
14 some desire but I have no ability to put the thing up
15 that says AMD is number one. We're clearly number two in
16 the industries we participate in. We're pushing to get
17 there but we're not quite there yet.

18 Basically, decisions by any dominant firm can
19 often lead to de facto standards. A firm with market
20 power really gets to go where they want. If Intel in my
21 industry, for example, changes a technology, they've got
22 a pretty good opportunity to take 80 percent of the
23 market with them because they're an 80 percent market
24 player. So that's something that frankly scares me in my
25 position quite a bit.

1 So again, I want to make the point that change in
2 and of itself is not anticompetitive and is not bad.
3 It's just that change can be effectuated for
4 anticompetitive purposes -- and I think really it's just
5 something we need to watch and it especially needs to be
6 watched -- by those with market power.

7 When we have a de facto standard because somebody
8 comes out with the best technology, I think I'd have a
9 very rough time telling anybody that that's a bad thing.
10 That furthers technology. It's a good thing. Everybody
11 wants to see it.

12 And in a perfect world, that's how it works, but
13 let's not kid ourselves. A lot of time standards, de
14 facto standards especially, are driven not because
15 somebody has the best technology but because they have
16 market power to make a change.

17 A company with market power also has quite a
18 broad range in which they can basically abuse a standard,
19 both with direct competitors and with downstream
20 developers.

21 For example, in a software case if we're talking
22 about an operating system, it's very easy for the market
23 leader to create a de facto standard and everybody really
24 has to follow along with it because they're in all the
25 computers.

1 we need to take a look at, we need to keep an eye on and
2 that they cause a significant regulatory concern. No
3 notes. I made it.

4 MS. DeSANTI: Congratulations.

5 MR. BARNETT: Thank you, Harry. I think we've got
6 the mikes working now, at least to some extent. Well, on
7 that note, with the standpoint of standard setting I
8 might throw Harry's comments out to the panel with the
9 idea that we've got some other industry representatives
10 besides the semiconductor industry.

11 And one thing I'm interested in is the role that
12 patents play in the standard setting process and whether
13 they conform with the standard setting process or hinder
14 it or how that ends up coming about? Does anyone have
15 any thoughts? Dan?

16 MR. McCURDY: Maybe I'll look at it backwards and
17 work our way into the standards process. I don't know
18 that companies necessarily innovate with the idea, at the
19 time that they start innovation, of driving a standard.
20 That is, most technologists, what turns them on is the
21 development of technology that they have knowledge and
22 interest in.

23 And sometimes you get really lucky and you end up
24 with a technology that is particularly important. It's a
25 breakthrough of some sort. It makes a significant

1 contribution to the evolution of the technology, and it
2 is precisely those kinds of technologies that are useful
3 in standards processes because obviously you want the
4 standards at the highest possible level of technological
5 innovation, not an incremental bottom.

6 So from my perspective, if that's the objective
7 then what you end up with are practical dilemmas in the
8 standards process. So for the most part I think the
9 observations that Harry made I agree with. I always hate
10 to generalize because it's a very complicated industry.
11 But I think that many of the observations I would
12 certainly agree with.

13 At the same time you have people who are quite
14 junior inside of a company frequently sitting in
15 standards processes. They are highly unaware of a lot of
16 the other activities that are going on at the company.
17 They may be highly unaware of a lot of the patents that
18 exist or the applications that exist within a company.
19 And so then you get into the practical issues which are
20 the complicated ones, again, that drive this process.

21 No one disagrees that there shouldn't be nasty
22 behavior in standards processes. You have to avoid those
23 kinds of things. Collusive behaviors are bad; all those
24 sorts of things are bad.

25 If a company knows about a patent, knows

1 explicitly about a patent that's in their holding that
2 affects the standard, certainly it ought to be disclosed.
3 But what happens in the practical scenario is where
4 someone doesn't know. Those are the kinds of issues that
5 I think are the tough ones to conquer in this arena, but
6 you can't throw the baby out with the bath water.

7 The fact is innovations are important to
8 standards. Patents are therefore the result of that
9 innovation and are important to standards. We have just
10 got to find rules that allow these things to be disclosed
11 when they are known to be sure that they are not used
12 against someone in an unfair manner, that they are open
13 to all under fair and reasonable terms. And if we do
14 those things I think we'll end up with a best of all the
15 worlds.

16 MS. DeSANTI: Well, let me ask a follow-up
17 question because we heard some out in Berkeley about
18 whether there should be a duty to disclose, which is the
19 practical issue that you are raising. Should there be a
20 duty to disclose? Is that a practical way to go from a
21 business perspective?

22 MR. McCURDY: It's hard.

23 MR. WOLIN; I think the answer for one who chooses
24 to participate in the standard -- I mean these are
25 voluntary bodies. People don't get dragged into them

1 unwillingly -- there should be a duty to disclose.

2 The point that Dan made that I thought was very
3 valid is we've got portfolios of thousands of patents.
4 You don't know every patent you've got that's going to
5 potentially agree on the standard.

6 But typically in the open standards, the IEEE,
7 JEDEC, you brought on yourself the requirement that you
8 license under fair and reasonable, sometimes
9 nondiscriminatory terms. So I don't know that anybody
10 licenses per patent for standards.

11 Typically, people will license their portfolio to
12 be used in the standard. I think that takes care of the
13 problem somewhat, but I think, in short, you should be
 required to disclose those you know about and you

1 agree that it's appropriate and I would suggest I think
2 Honeywell does try and disclose a potential relevant
3 technology it may not always be the case that the person
4 involved is aware of that. That's something that has to
5 be, I think, more vigilantly addressed, quite frankly, if
6 it is a continuing problem.

7 MR. BARNETT: Taking off of what Rosemarie had to
8 say, just about how patent trends are seemingly on the
9 rise and are increasing, in a lot of industries for that
10 matter, but also in the semiconductor industry, does that
11 simply complicate the process and then at a certain point
12 does it become virtually impossible to be able to detect
13 all your patent portfolios?

14 MR. THURSTON: I think initially it's probably so.
15 When companies, particularly well established companies,
16 had significant portfolios -- we found the same thing at
17 TI, that we didn't understand.

18 Today as you look at intellectual capital
19 management to which most sophisticated companies are
20 adopting using IT -- we're doing this at TSMC -- over
21 time you should be able to better understand, forecast,
22 evaluate your portfolio and know what's in there.
23 Certain companies are still not in that position, but we
24 anticipate that over the next three to five years we will
25 be in a much better position to address that issue.

1 Could someone go through the licensing process
2 and how it relates to their business, particularly from
3 the standpoint of dealing with a lot of patents out
4 there?

5 MR. McCURDY: Well, it is my business so I'll do
6 it from a general perspective so that at least we can see
7 whether there's general agreement on the licensing
8 process.

9 First of all, at least in technology industries
10 -- and it's very important to distinguish among
11 industries because the licensing practices can be
12 significantly different -- obviously, they are quite
13 different in the case of a pharmaceutical company, as
14 Gary pointed out earlier, who generally is granted a
15 patent and uses that patent to exclude others during the
16 period of that patent. It's quite different than in most
17 what I'll call high-tech, non-life sciences companies:
18 telecommunications, information technology,
19 semiconductors, software and so on.

20 In those industries the evolution has been a very
21 clear one from the use of patents, up until 15 or 20
22 years ago, generally to achieve freedom of action -- that
23 is, let's make sure that we all license one another so
24 that we can go do whatever we want to in terms of product
25 or services development and not worry about whether we're

1 going to get an infringement suit, with very little money
2 changing hands as the primary objective -- to more recent
3 practice which is, let's ensure freedom of action, but
4 when there is a relative imbalance in the portfolio by
5 quality or size in terms of use of the potential licensee
6 -- both directions -- as those patents affect the other
7 licensee, let's make sure we correct for that with a
8 change of money.

9 So the practice is a fairly straightforward one.
10 You take a portfolio, you dissect the portfolio down to a
11 relatively small number of patents out of a whole
12 portfolio. In general, only one to two percent of an
13 entire portfolio are used in an active patent assertion
14 or patent licensing program.

15 In the case of Lucent, for example, we had 28,000
16 worldwide patents, almost 12,000 U.S. patents, and we ran
17 a half a billion dollar a year licensing program by
18 having selected 200 of those patents as those most likely
19 used throughout the industry. We licensed all of them.
20 We just used those 200 as the ones we looked for
21 infringement on.

22 Once you do that, you figure out who's
23 infringing. It's a very complicated problem. You put
24 together a proof case with respect to that. You approach
25 the individual and say, "We think that we have something

1 that you might have some interest in." That's the code
2 word for "We think you're infringing." There's a
3 discussion that ensues.

4 The process takes one-and-a-half to two years on
5 average where you have now given them some patents to
6 look at. The next meeting they will give you some
7 patents to look at. The negotiation goes back and forth.
8 You say in the end, look we think that at "X" royalty
9 rate you owe us \$40 million a year. They'll say, well,
10 at an equivalent royalty rate on our patents, that your
11 products are worth \$30 million a year.

12 You have a \$10 million differential and you
13 settle for something that's less than that and you try
14 and get a settlement without having to sue each other.

15 Generally, you settle without having to sue each
16 other. In cases of companies I have been involved with,
17 greater than 99 percent of all patent discussions were
18 resolved without any filing of a lawsuit at all. And in
19 those rare cases where a lawsuit is filed we settled them
20 almost always before they go to trial. Having said that,
21 we are always perfectly prepared if necessary to go to
22 court. We just try and do everything we can to avoid it.

23 MR. BARNETT: Rosemarie.

24 MS. ZIEDONIS: I just thought it was important to
25 qualify that I think that the "we" in your sentence was

1 really coming from your experience at Lucent or AT&T,
where a large company's perspective and 6ddMaryland

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1 cost of actually going to court or the managerial time
2 that it would take to basically fend off the lawsuit.
3 That, to me, is perhaps a concern if you have a lot of
4 these patents that could be falling right below that
5 threshold.

6 MR. McCURDY: Just to clarify Rosemarie's comment,
7 balancing payment in the industry is generally the word
8 that's used when there is assertion and counterassertion
9 as part of a licensing program. That is, you owe me X; I
10 owe you Y. Let's figure out how to do something and make
11 everybody's life comfortable with respect to attaining
12 that freedom of action.

13 In the case of that particular "L" that's been
14 mentioned by my colleagues, the issue is there really
15 can't be a balancing payment per se because there is no
16 counterassertion capacity.

17 And those are the ones when we have clients who
18 ask us how can you help us? In those instances, the only
19 answer is we can help you by ensuring that you're getting
20 a fair return on your own investment so that if and when
21 you get these kind of assertions and, in fact, there's
22 infringement, at least you have something to pay for it
23 with. It's a very difficult problem.

24 MS. DeSANTI: Are you seeing increasing numbers of
25 this? I'm asking because some of what we heard in

1 Berkeley was a concern that as some companies have folded
2 there are more patent assets on the table to be acquired
3 and therefore it's easier to find that there are
4 companies who are building a business around patent
5 assertion in that kind of nontrading situation. And so
6 I'm interested in your views on this. Well, this is
7 going to be good.

8 MR. McCURDY: That's a good question.

9 MS. DeSANTI: Why don't we just go around the
10 table. We'll start with Rosemarie and work our way
11 around.

12 MS. ZIEDONIS: I just have a surprising-to-me-at-
13 least fact. When I was doing this work for the National
14 Academies where I had this list of about 136 companies, I
15 was like, "Oh, what lawsuits, what patent lawsuits have
16 they been involved with that have been filed in the
17 United States?" Well, when I actually looked the patents
18 over, I think a third of the lawsuits that have been
19 filed were about intellectual property that had not
20 originated from the company itself -- for example, the
21 old Mostek patents that became acquired by ST
22 Microelectronics that then ST Micro enforces against and
23 uses as basically licensing revenues quite successfully.

24 Or another example, when a company like Seeg sold
25 off its particular production line with intellectual

1 property with that to I believe it was Atmel. I could be
2 wrong about that. But then that company uses those
3 assets to enforce those rights against a market rival.
4 And my understanding is that a lot of these acquisitions
5 of the physical assets are far more valuable if you are
6 able to use that to exclude a rival that you didn't have
7 those patents yourself.

8 So I was just -- on the face of it, two-thirds of
9 those cases were about patents that the companies
10 themselves had generated through internal R&D and a third
11 of those cases, a third of the lawsuits, were about
12 externally generated R&D which I personally found, one,
13 surprising and, two, indicative of this kind of trade for
14 patents that's emerged or become more developed, should I
15 say, in the last ten years.

16 MR. THURSTON: I agree and I think we have seen,
17 and believe I have before joining TSMC in private
18 practice, a significant increase in this area. We
19 represented in the law firm several companies that were
20 approached by nonoperational companies of that nature
21 that were just trolling for patents.

22 Currently, we have, I think, eight matters that
23 are pending at TSMC. Four of them are by companies.
24 Now, two of them are Lemelson-related that don't have any
25 business, any operations rather, other than generating

1 revenue.

2 So I think it has been on the rise as companies
3 have been demised through economic inefficiencies or what
4 have you, there a number of increasing companies out
5 there buying portfolios. We as a company are looking at
6 it and have several relationships to acquire portfolios
7 from companies that are going under as well as with
8 universities to try to improve our patent position
9 vis-a-vis other companies.

10 I'd also like to add another point with respect
11 to the licensing picture. Again, based on industry
12 characteristics cross-licensing may not be all that
13 effective and certainly for us as a process manufacturer,
14 cross-license does not give us the ability to take that
15 other company's portfolio and apply it against another
16 company or a dozen companies that come after us.

17 So what we may be looking at increasingly and
18 what we are looking at increasingly is, again, somewhat
19 related to patent pooling, but joint development, joint
20 research programs where we go in we go in with major IDMs
21 that have patent portfolios.

22 As we help them to develop, we are the leader in
23 developing those new technologies, then there is this
24 cross sharing of portfolios and the ability for us to
25 take a portfolio and to apply that vis-a-vis some other

1 company. So its not just the traditional cross-licensing
2 approach, that may, in fact, develop as a trend in
3 certain aspects of industry but not all industries.

4 MR. WOLIN: I think the answer to your question is
5 an absolute yes. There are more people out there not in
6 the industry trying to assert patents. And it's become
7 sort of a cottage industry by itself.

8 And not only are people trying to do that on the
9 assertion side, what we're seeing quite a bit is a lot of
10 companies coming to us with portfolios and patents trying
11 to sell them which sometimes is a thinly veiled threat --
12 "Hey, buy them. This way you won't have to face them
13 later." And sometimes it's, "Look at all the money we
14 can make you if you buy this portfolio." So I think if
15 you go back a number of years in the semiconductor
16 industry, patents were the result of R&D and then
17 licensing became a way of freedom of action and with a
18 little luck some return on your investment. Now, it's
19 almost getting to the point where patents are becoming
20 the industry themselves, separate form the technology
21 part of the game.

22 MR. BARNETT: George.

23 MR. BRUNT: I think we'll probably see more. At
24 least during recessionary times like this what happens is
25 the markets move out and so venture capitalists have to

1 make a decision about whether they're going to keep a
2 company alive for an additional two years while they wait
3 for the market to develop or sell off the patent
4 portfolio and cut their losses and go on.

5 And you're going to see a lot of that in our
6 current -- like I said, there's a lot of innovation
7 that's out there in small startup venture capital-funded
8 companies that apply for and receive some very good
9 patents. But the only way the VCs are going to be able
10 to recoup their investment is through a patent licensing
11 program, either selling the patents or exploiting them.

12 MR. McCURDY: I think just one follow up to that.
13 In our company we have had a lot of interest by companies
14 of the ilk, smaller companies, bankrupt companies, and so
15 on, who said, "Gee, we heard about your company. Can you
16 help us?" And the answer in general is no, we can't.
17 Again, sometimes for very practical reasons.

18 The reason that we are able to help companies
19 extract some value from their portfolio is that they tend
20 to be very significant innovators. If you end up with a
21 portfolio that's two or three or five or ten patents, the
22 licensing discussion is extraordinarily hard because what
23 a licensee wants to get to, ultimately, is they want to
24 feel that they are getting value. And they want to
25 effectively develop a relationship so that this freedom

1 of action is achieved. And they like the fact that they
2 are dealing with someone who is a significant innovator
3 and will continue to innovate.

4 So, if you end up with a company that only has a
5 few patents or a bankrupt company, yes, it's true that
6 there will be people in the industry who might pick them
7 up, but I would contend that you're much more likely to
8 see those end up in court, in litigation, than what I
9 call the higher level set of discussions where you have
10 significant and continuing innovators who are spending
11 billions of dollars a year and can establish these kinds
12 of relationships at a business level. So that's going to
13 be the issue.

14 MR. THURSTON: I was going to make really kind of
15 the same point. I agree with Dan in that comment, and on
16 the VC side we did see, and as I was advising a number of
17 VC firms, a significant increase in the late '90s and the
18 last several years of filing UCC 1s, et cetera, against
19 the patents, intellectual property.

20 But the problem that those companies had, the
21 VCs, they're not in the business of managing portfolios.
22 There is limited criticality of mass and a lot of times
23 it just costs too much more just to even maintain those
24 portfolios.

25 So I think they've gotten a little bit away from

1 that, but there are a number of companies out there that
2 have lined up with some key VC firms that are obtaining
3 those intellectual property rights, the conduit through.
4 So I think it is an issue to address but I think Dan's
5 point is a much better one.

6 MR. BARNETT: Gary.

7 MR. ZANFAGNA: I just had a quick comment. We
8 obviously vigorously enforce our intellectual property
9 rights against others we think are infringing. It's an
10 active program.

11 But the conversation that may be indicative of
12 the different entries that we play in, but I'm not
13 familiar that we are trading in intellectual property
14 rights and in entire patent portfolios.

15 In fact, I don't believe that we engage,
16 regularly in any case or typically, in the sale of
17 cross-licensing patent portfolios as I think we
18 selectively cross-license where we feel we need to.

19 I could be wrong, but I don't believe we trade
20 like it might just be an industry issue, that we don't
21 play in these markets where it's becoming a commodity
22 almost, is what you're saying. I just thought I would
23 add that. It seems to be a little bit of a different
24 scenario for Honeywell.

25 MR. BARNETT: That brings up maybe a follow up

1 that I might want to ask Harry. Harry mentioned how
2 patents started. He recalled how patents used to be more
3 of a tool for freedom of access and then they shifted
4 almost to a product of themselves. Where do you see the
5 motivation behind the change in the role of the patents
6 in that sense?

7 MR. WOLIN: I think you have to look at it from
8 two different perspectives. The first perspective is
9 those within the industry. The second perspective is
10 those who are really not industry participants but are
11 basically asserting patents for money. The Lemelson
12 Foundation and a number of others. Frankly, a lot of the
13 change outside started with Lemelson Foundation. I think
14 they came onto the picture in the mid- to late-'80s if I
15 remember right and had this huge portfolio and read it on
16 all sorts of things and were very successful.

17 When others saw that model, all of a sudden if
18 you went into the patent office things were very
19 different. You had hoards and hoards of people sitting
20 there going through the files looking for patents that
21 some obscure inventor had that they could go buy and it
22 was almost a get rich quick scheme.

23 In the industry, I think, things changed. If you
24 look back mid-'80s, prior, I think there was a lot of
25 freedom of action and everybody just competed and it was

1 the same group of players. After that you have seen a
2 lot of growth in the industry and you have seen a lot of
3 new companies come in.

4 And I think the focus turned more from making a
5 reasonable amount of money and moving forward with your
6 business that was going to be there for 50 years to a new
7 group of CFOs coming in saying, "I'm going to make money
8 off of every asset I have," and patents became one more
9 asset that we had to generate a return from. So, '85,
10 '87, somewhere in there is sort of where I saw the
11 changes go in.

12 MR. BRUNT: I think in the same time frame there
13 has been a lot of globalization that's occurred, too, and
14 that's increased the cost of maintaining that and so CFOs
15 have also looked at and said, "Wait a minute, are we not
16 deriving revenue from this? This is taking large amounts
17 of revenue. If it's an asset that has value, we need to
18 be recovering some revenue from that asset."

19 MR. WOLIN: Yeah. I think one quick follow up.
20 The other thing that happened around that same time frame
21 is what Dick mentioned earlier. That is where TI was
22 going underwater and their way to save their company was
23 to license patents.

24 And other companies out there -- I was at
25 Motorola at the time -- we had always licensed patents

1 is going to happen as a result of that activity.

2 MS. ZIEDONIS: Just to highlight that, the largest
3 body of work that I'm aware of on that very effort is at
4 NYU with Baruch Lev. I know that he's been organizing a
5 series of conferences on that very topic and has been
6 doing a series of studies also in conjunction with the
7 SEC.

8 The other point that I just wanted to clarify or
9 perhaps contribute to, one, I echo what Harry said about,
10 well, what happened there around '85 or to the '87 time
11 frame. And I think the importance of TI really paving
12 this way that, well, the value of patents can be
13 separated from the product market, and that there is
14 money on the table was an important demonstration for
15 companies in managing intellectual property but also for
16 the same independent inventors like Jerome Lemelson and
17 the like.

18 So, I think that lesson was learned across patent
19 owners regardless of whether you're a company or a
20 university or an independent inventor.

21 The other important demonstration event that
22 happened around that same period, however, is, of course,
23 the shutting down of Kodak's facility. Well, not only do
24 we have this potential upside, but now if I'm investing
25 the what I now hear is \$4 billion in a facility being

1 concerned about the threat of holding production for two
2 weeks when that facility is going to last you, what, five
3 years?

4 MR. THURSTON: If.

5 MS. ZIEDONIS: That's a large sum in multiple
6 millions of dollars so there's a real cost/benefit
7 analysis that is really driving, perhaps, patenting from
8 both sides.

9 MS. DeSANTI: Is the implication of what you're
10 saying that there's more defensive patenting as a result
11 of the Kodak-type demonstrations?

12 MR. WOLIN: I think there's more patenting,
13 period. Offensive, defensive, you name it.

14 MS. ZIEDONIS: To answer your question, I would
15 agree with that. I mean, the lesson then that I would
16 learn from that was that you can see why there would be
17 an incentive to patent for more defensive reasons, but
18 you can also see why from the business perspective you
19 would also want to pay more attention to patenting from
20 the offensive or the market share or just revenue stream.

21 It's going to be interesting to see how exactly
22 you're going to be able to disentangle value of
23 intangible assets from potential products that might be
24 coming down the road five, seven years from now where
25 that value's not going to be really revealed in the

1 product form, and is a highly risky, uncertain thing.
2 But I'll leave that to the accountants.

3 MR. WOLIN: Being that we're back on quantity I
4 think there's one point I'd like to make. In the
5 semiconductor industry, as much as quantity is picked up
6 I don't think it can all be related to improving your
7 patent portfolio. I think a lot of it has really come in
8 for other reasons.

9 It became a great incentive for engineers, the
10 number of patents that we issue end up in our marketing
11 materials. I actually went in at one point and said we
12 should file less and I'll give back some of my budget.
13 And I was basically kicked out and they said, "We'll tell
14 you what you spend. You just go get us patents."

15 It wasn't improving the portfolio. Management
16 understood that these incremental patents weren't
17 improving the portfolio, but at the same time it was
18 great press releases and it was great incentive to hire
19 new engineers and it was great incentive to retain
20 employees. So for that reason it was worth spending the
21 incremental dollars to management.

great press releases -6great press releaseabTjng -68.20

1 competition, the role of competition, in relation to
2 innovation in this industry?

3 And I would just give you, Harry, an opportunity
4 to bring in any points related to your standard-setting
5 issues that you raised that may be implicated when you
6 talk about competition and the reliance, the need for
7 compatibility and standard-setting in order to innovate
8 to the next level, next generation.

9 MR. WOLIN: Well, as we know, I think, general
10 antitrust concerns and the general patent laws go head to
11 head. So the question is where do we find that happy
12 medium and how do we effectively create no monopoly while
13 keeping in effect the patent monopoly? And I sure wish I
14 had an answer.

15 MS. DeSANTI: We were expecting one from you.

16 MR. WOLIN: But I just think you have to have the
17 patent right. You have to be able to innovate and I
18 think a lot of the concern really comes in -- you can't
19 give that right, that patent right when it's -- it
20 doesn't give you the ability to circumvent the antitrust
21 laws.

22 And I think it really has to be looked at on a
23 case-by-case basis and standards of, certainly, who has
24 the market power comes into it. But I just don't know
25 and I don't think there can be any hard and fast rule on

1 how we address this. Sorry for all that enlightenment.

2 MS. DeSANTI: Rosemarie.

3 MS. ZIEDONIS: This is an equally maybe -- oh my
4 goodness -- "interesting issue, but who knows the answer
5 to it" type of comment. I noticed Hal Wegner in the room
6 and he was kind enough to let me sit in on his
7 international property law class here at GW probably ten
8 years ago and one of the interesting twists in the tone
9 of this debate is that at that time we would have been
10 sitting in this room really being the large portfolios of
11 Japanese firms and how that was going to be a barrier to
12 the small innovative U.S. companies or companies that
13 lacked experience in Japan.

14 And that's actually how I got in this funny path
15 was doing some work on behalf of a congressional
16 committee on that type of topic. With that kind of
17 background I find it interesting that we really aren't
18 questioning to any real extent, I don't see people being
19 concerned about the role of these portfolios with the
20 large firm versus a small firm.

21 Like, is the lack of a large portfolio a problem
22 for entry into the industry or for competing with the
23 incumbent firms? And I'll just offer an observation that
24 from what I understand with semiconductors, part of this
25 may have just been fueled because the side effect of

1 strengthening patent rights has been that we're able to
2 raise venture capital and we're competing in areas that
3 are truly like the input/output devices or even AT cards
4 and then get acquired by an incumbent firm.

5 The other thing is that we know that the
6 technological opportunities have been continuing at a
7 pretty impressive rate in this industry. It's unclear
8 how this dynamic of competition is going to change if we
9 reach an era where those technological opportunities
10 aren't continuing to expand. And thankfully even with
11 this downturn, I don't think that people are projecting
12 that in the next five to ten years given the impressive
13 accomplishments in the industry.

14 MR. BARNETT: That brings maybe a different
15 question that I want to ask. It reminds me of your
16 comment on Japanese firms and whatnot. I know that Dick
17 Thurston has quite a bit of experience dealing with
18 foreign countries, and I'm just wondering if the
19 experience is the same in other countries as we're
20 experiencing here as far as increasing proliferation of
21 patents. I wonder if you have any thoughts?

22 MR. THURSTON: I think it is. And I think that's
23 an area that U.S. companies, all companies, need to be
24 really increasingly concerned about. And I, a number of
25 years ago, had a very interesting discussion with Bruce

1 our industry in the United States, a lot of companies are
2 ignoring that potential.

3 So as you look at potential for litigation and of
4 course manipulation in that country of IP to advantage
5 despite the WTO, that's where I see tremendous concern
6 and we need to be really on our guard. And these issues
7 just magnify and are exponentially increased once you
8 cross the ocean.

9 MR. ZANFAGNA: Two follow-up points real quick.
10 One to Susan's question, I'll just redirect my point from
11 before. At least as far as Honeywell is concerned it is
12 competition that's driving innovation. We don't hire
13 engineers to hire engineers. We innovate because we feel
14 we need to to stay ahead in our marketplace.

15 Innovation is driven by competition in all of our
16 markets. That's how we maintain our positions. That's
17 how we maintain our competitiveness. That's how we keep
18 our customers. That's how we please our customers. It's
19 through innovation. It's through new products. It's
20 obviously through service and so forth as well but it is
21 the continuous ability to innovate, to provide new
22 technology and new products that makes us a strong
23 company. It's through competition absolutely. On the
24 international point, I'm not exactly sure what the
25 overall question was but I'll make two observations.

1 One, our portfolio is very international. We have over
2 10,000 patents internationally, I think 5,000
3 domestically and we don't just focus on patenting
4 technology and products in the United States. We
5 proliferate our portfolio globally. We have a global
6 sales presence and it is critical that we are able to
7 propagate to affect our portfolio around the world.

8 Another observation that I am told is that there
9 is a gigantic increase in foreign ownership or foreign
10 filing in the United States. There's a lot of foreign
11 ownership of U.S. patent rights. That is a whole new
12 evolution that U.S. companies have to be aware of and
13 that affects how the patent system works in our country.

14 MR. BARNETT: It looks like we're starting to run
15 short on time. We started a little late but I would like
16 to invite anyone to make any closing comments or any
17 remarks that they might have before we finish.

18 MR. BRUNT: Just a two second summary on that
19 issue. I think that competition drives innovation.
20 Limited exclusivity pays for it.

21 MR. BARNETT: Very good. Well, maybe on that note
22 we will end this hearing. I'd like to thank our
23 participants very much. So thank you.

24
25

1 AFTERNOON SESSION

2 (1:37 p.m.)

3 MS. DeSANTI: Good afternoon. My name is Susan
4 DeSanti and I'm Deputy General Counsel for Policy Studies
5 at the FTC. Thank you so much for coming this afternoon.
6 We particularly thank all of our speakers for coming this
7 afternoon.

8 Unfortunately, I have to begin with a couple of
9 people who were not able to make it. Dean Alderucci from
10 Walker Digital is sick today, unfortunately, but we will
11 be hearing from Walker Digital later on in the hearings.
12 And also Andrew Steinberg from Travelocity.com is not
13 able to be with us today for business reasons but we're
14 also going to try to get another shot at getting him to
15 come and speak with us on another panel. So we're very
16 glad to have the people we do have.

17 And what I wanted to just start with is a brief
18 introduction to the topics of the panel. This is
19 "Business Perspectives on Patents: Software and the
20 Internet." It's the second panel to address this topic.
21 The other one was held at Berkeley in February. And as
22 with the morning panel we will be covering a wide range
23 of issues relating to patents and competition and how
24 they spur or discourage innovation. Before we get any
25 further let me introduce the other government

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1 participants today. To my right is Matthew Bye who is a
2 wonderful attorney in my shop who has worked very long
3 and hard in getting in touch with the people for this
4 panel and talking with them about the issues that they
5 were most interested in addressing.

6 To my far right is Frances Marshall, the amazing
7 person at the antitrust division of the Department of
8 Justice who is organizing and implementing all of these
9 hearings from their perspective. To my left is Bob Bahr
10 from the PTO who we're very grateful to have here. And
11 that sort of rounds out the government participants for
12 today.

1 development of the university's new Internet study
2 center. Professor Burk has held appointments at Seton
3 Hall University, Stanford Law School and George Mason
4 University. Dan.

5 MR. BURK: I'm very pleased to be here and I want
6 to applaud the leadership of the staff, both the FTC and
7 the DOJ, for holding these hearings which is being
8 watched with great interest by all of us in the research
9 community.

10 My personal interests are innovation policy and
11 how patent law is developed and shapes the nation's
12 policy. I'm very interested to see what's said today and
13 what's said at the other hearings.

14 MS. DeSANTI: We'll go to Dan's right to Ed Black.
15 Ed has been the President and Chief Executive Officer of
16 the Computer and Communications Industry Association
17 since 1995. Prior to this, Ed served as Vice President
18 and General Counsel at CCIA. He has had responsibility
19 over a wide range of legislative policy and regulatory
20 areas for CCIA and its member companies specializing in
21 international trade, competition policy and intellectual
22 property. And I will note that Ed was with us in our
23 1995 hearings and we're glad to welcome him back today.

24 MR. BLACK: Thank you. It's a pleasure to be
25 here. A little bit about CCIA. We have been around for

1 30 years, represent a cross-section of companies,

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1 workplace innovation. Scott.

2 MR. SANDER: And I'm very glad to be here because
3 since that time I got together -- I'll tell you a little
4 story about it later when we get into the more formal
5 remarks. But I'm really here to talk not about myself or
6 even our company, SightSound Technologies, but I'm very
7 specifically here on behalf of an inventor named Arthur
8 Hair who also happens to be my best friend. And together
9 we built a company on intellectual property that
10 specializes in the download sale of movies and music via
11 the Internet and other networks.

12 MS. DeSANTI: Thank you. To Scott's left is Mark
13 Webbink. Mark is the Senior Vice President, General
14 Counsel and Secretary for Red Hat, Inc. Prior to joining
15 Red Hat he practiced intellectual property at Moore and
16 Van Allen. Mark also spent 20 years in corporate finance
17 before entering the practice of law holding senior
18 management positions with several Research Triangle-area
19 companies. Mark.

20 MR. WEBBINK: I would probably be remiss if I
21 didn't say I was probably bringing a little different
22 perspective to the issue than some folks today given that
23 our company is probably the leading open source software
24 company in the country today. And part of what I'll talk
25 about is the impact of intellectual property protection

1 on open source.

2 MS. DeSANTI: Thank you. Finally, at the end of

1 kernel.

2 While we hold copyrights on our software, which
3 is sort of the old traditional way of protecting software
4 other than trade secrets, we do not hold trade secrets in
5 our software and in fact we make not only the binary code
6 but also the source code available to customers of our
7 software.

1 particular piece of technology has hit the marketplace
2 before it is evident that it, in fact, it is covered by a
3 form of patent protection.

4 We've got additional concerns around the fact
5 that for years in the industry there was no patent
6 protection for computer software or for that matter,
7 business methods.

8 A tremendous body of prior art exists but not in
9 a well established database like you have with the other
10 arts to where professionals such as Lewis can go and
11 manage a search that is going to ferret out pre-existing
12 technology that may very well invalidate the patent.

13 You then put that process of issuing patents
14 that, for arguments sake, I will say are perhaps less
15 valid than what you might find in the other arts out in
16 the marketplace, backed then by big money, and all of a
17 sudden you have got a situation where the smaller
18 entrants into the market, the new entrants into the
19 market, are at a tremendous disadvantage in terms of
20 being able to compete.

21 And one of the critical questions that I get on a
22 repeated basis from companies that are looking at
23 adopting open source software is where is my warranty
24 against infringement?

25 Of course, I have now tongue-in-cheek started

1 pointing them to take a look at their own license to
2 Microsoft Office and invite them to point out to me
3 Microsoft's warranty for noninfringement in their license
4 agreement which, if you haven't looked, you won't find.

5 But this is a big issue for them. And it's
6 perceived to be a direct and imminent threat to the open
7 source community and the adoption of open source
8 software.

9 Now, people can look at open source and say,
10 "Well, by its very nature is open source truly
11 innovative? Isn't Linux, for example, nothing but
12 another rehash of UNIX?" And there are a lot of
13 different forms of innovation. Not all of them are
14 technical.

15 Innovation can also come in the form of reducing
16 the cost of a product and the manner in which it can be
17 used. And what we found is that not only are we able to
18 reduce costs to the consumer but in fact we have been
19 able to produce a technically superior product, one that
20 has performed extraordinarily well in benchmarks against
21 the more established operating systems and have done so
22 without the protection of issued patents. We have done
23 it in a collaborative manner working with people both
24 within our company and outside our company by sharing
25 technology and making the technology freely available.

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1 And so I participate today as perhaps not a voice
2 crying in the wilderness but one saying, let's not forget
3 why our intellectual property laws were established in
4 this country. They were established to protect the
5 people and to protect society at large. Ideas such as
6 fair use are quite critical to the general public in
7 protecting the rights of the general public. And I would
8 invite discussion with the rest of the panel to look at
9 some of those issues.

10 MS. DeSANTI: Thank you, Mark. I have a number of
11 questions I already feel like asking you but I'll hold
12 off and we'll go to the next presentation -- Scott
13 Sander.

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1 find ourselves in today with the movie studios and record
2 labels. Let me start by giving you that background and
3 say in the mid-1980s my friend, a young engineer named
4 Arthur Hair, saw the future of movies and music. And
5 Arthur invented a method and system for selling digital
6 audio and video files over networks like the Internet.
7 He was convinced back then that if the record labels and
8 movie studios would embrace his invention that they would
9 be spared a future of rampant piracy powered by computers
10 connected to the Internet.

11 Arthur's father, an engineer from Pittsburgh, had
12 patented a process for strengthening steel and he gave us
13 a prophetic piece of advice. He said, get a patent to
14 protect yourself so the big companies don't just steal
15 your ideas.

16 We decided to start a company that would
17 revolutionize the entertainment industry, which is no
18 small feat for a couple of guys from Pittsburgh. And we
19 were going to do it with a distribution method that was
20 better, faster and cheaper than anything they had seen
21 before.

22 In 1993, based upon Arthur's father's advice, we
23 received our first patent. Now, up to today, let's bring
24 ourselves back to the future, if you will. Last month
25 James Rogan, Director of the U.S. PTO said, in these

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1 And they broke him up as a monopoly.

2 You want to control everything. You want to have
3 a hospital and a funeral home so when they die in the
4 hospital you move them right over to the funeral home
5 next door. When they're born you got them; when they're
6 sick you got them; when they die you got them." He said
7 "The game is over when they break you up, but in the
8 meantime you play to win. And you know you've won when
9 the government stops you."

10 Fortunately for us, another Ted, Teddy Roosevelt,
11 once said the only way to meet a million dollar
12 corporation is by invoking the protection of a hundred
13 billion dollar government.

14 Arthur Hair sought that protection and we value
15 it in our patent rights. The fact that these patents
16 ultimately expire fills us with impatience and forces us
17 to continue to innovate. And the ultimate beneficiary of
18 our impatience and our innovation is the American
19 consumer. Thank you.

1 I would start my presentation by sharing with you some of
2 the research that I mentioned in my introduction.

3 This is some research that's currently ongoing in
4 conjunction with Professor Mark Lemley at the University
5 of California at Berkeley who testified on the West Coast
6 hearings a few weeks ago.

7 We have been specifically looking at the question
8 as to whether patent law is technology specific. What do
9 we mean by that? Well, we have in the United States a
10 patent system which, for the most part, is directed to
11 all kinds of technologies.

12 There are a few exceptions to that. There's
13 Section 103 and elsewhere where Congress has specifically
14 legislated rules with regard to a particular technology.
15 But for the most part we have a patent system that covers
16 software, biotechnology, mechanical devices, and all the
17 other sorts of innovations that we talked about in these
18 hearings.

19 And so that law has to be very flexible, has to
20 be very adaptable, has to be designed to meet the needs
21 of these different industries. But recently we have
22 noticed a trend towards becoming technology specific in
23 the patent law. And the best examples of this are in the
24 area of software patents and also in the area of
25 biotechnology patents which there was some testimony on

1 yesterday.

2 Now, what are we seeing specifically when we
3 analyze the cases coming out of the United States Court
4 of Appeals for the Federal Circuit which, as you know, is
5 the court that Congress has vested with authority to deal
6 with patent law.

7 We find in the area of software patents that
8 we're focusing on here today that two very interesting
9 things are beginning to happen. One of the purposes of
10 the patent system that we haven't heard about so far
11 today is to put information in the hands of the public
12 not only to protect the property rights of the inventor
13 and create that incentive for further innovation that we
14 just heard about but also to disclose that invention so
15 that when the patent expires everyone has that
16 information to build upon.

17 And in the area of software patents we are
18 finding, as we look at the cases that have been decided,
19 that the Federal Circuit tells us that essentially there
20 is no disclosure requirement for software.

21 In cases that have come before that court where
22 there has been a question about disclosing code or even a
23 flowchart or some other indications of how software
24 works, the Federal Circuit tells us that's not necessary,
25 that once you decide what you want to do, be it a

1 split-sheet or a compiler or some other type of software,
2 that writing the code is mere clerical work. Anybody
3 with average skill in the art can write that.

4 Now, I suspect that some of the folks who do
5 programming, and some of them are here today, will tell
6 you it's a little bit more difficult than that to
7 actually write code that works. And we'll have a chance
8 to talk about that, I hope, during the discussion period.

9 On the other side we don't give a patent to just
10 anyone who has discovered something. We only want to
11 give patents to significant technology advances so we
12 have a requirement of obviousness. You can't get a
13 patent if your invention would be obvious in light of the
14 prior art.

15 And the Federal Circuit there has indicated that
16 there is going to be a very high threshold with regard to
17 obviousness, that most software patents for most software
18 inventions they are going to consider to be obvious.

19 Now, that is connected to this idea of disclosure
20 as I'll mention in a moment but they are simply the flip
21 side of one another. If anybody as a matter of mere
22 clerical work can do some programming, let you know what
23 function you want to have happen, that also suggests that
24 it should be very, very obvious how to do that and so it
25 ought to be very difficult to get a patent on software.

1 Let me just mention in contrast to that -- we
2 have already heard in these hearings about biotechnology
3 yesterday but the situation has become exactly the
4 opposite in biotechnology.

5 The Federal Circuit has told us that we have very
6 stringent disclosure requirements in biotech. If you're
7 going to try and patent a biotech molecule, you need to
8 give us the sequence. Simply knowing how to get that
9 sequence is not enough. But there's a very, very low
10 obviousness threshold and essentially anybody who
11 discovers a molecule is going to be able to get the
12 patent on it.

13 Now, we suspect that as a matter of innovation
14 policy this is exactly backwards, that if you look at the
15 character of the two industries that we're studying,
16 software where development is typically incremental has
17 relatively short development times, relatively low cost
18 development, compared to many other industries.

19 We suspect that we should actually have a more
20 stringent disclosure requirement and a relatively low
21 obviousness threshold which would lead to more and
22 narrower software patents. I'll come back to that in a
23 moment.

24 And in biotech by contrast, just to give you a
25 sense of what another industry would look like, we have

1 long and very expensive development times that we should
2 have less of a disclosure requirement, higher obviousness
3 threshold, leading to fewer and broader biotechnology
4 patents.

5 Now, some people cringe when we suggest that what
6 may be needed in software is a different standard that
7 would give you more and narrower patents because there
8 are many complaints already that we have too many
software patents. Let me note that we're talking here

1 developing standards that might have applied 5, 10, 15 or
2 even 20 years ago, but probably don't meet the needs of
3 the industry today.

4 And so one of the problems here is working from
5 facts that are no longer appropriate to what the industry
6 needs. So with that I will close my presentation and
7 look forward to engaging the other panelists in a
8 discussion of the issues that they raised and the issues
9 raised by this research. Thank you.

10 MS. DeSANTI: Thank you very much, Dan. We
11 already have a lot out on the table to discuss and now
12 we're going to get even more. Lew Gable.

13 MR. GABLE: Thank you. My comments this afternoon
14 will reflect really my career in terms of preparing and
15 prosecuting patent applications before the patent office.
16 I can sympathize very greatly with Scott in his problem
17 of enforcing his patent, even valid patents.

18 If you do not have a patent, you really have no
19 protection and someone can come along and take and steal
20 your idea and you have no recourse to that taking, that
21 stealing of your intellectual property.

22 Most of my clients are small clients and they use
23 their software patents in order to attract capital. And
24 so it's not like perhaps a large company that has
25 thousands of patents and the life of the large company

1 does not depend on one or two whether they are issued,
2 whether they're valid or whether they can be enforced.
3 But if you talk with most of my clients the first thing
4 they are interested in is in terms of using their patents
5 in order to get capital so that they can develop and
6 market their invention. Literally, patents are the
7 lifeline of this company that will keep it going until it
8 can either make it or break it really in the marketplace.

9 One of the things I wanted to talk about, and
10 most of my career has been in dealing with computer and
11 now method of doing business patent, I wanted to go over
12 some of the standards we have in terms of securing
13 patents and to give you my feel on which are the most
14 important which have been settled.

15 As you are aware there is at least two basic
16 standards, Section 101 of the patent code, and this deals
17 with what kind of inventions may be patentable. We have
18 been operating now for 30 years with security protection
19 for patents.

20 There has always been at least a basic question,
21 can you patent software? Can you patent methods of doing
22 business? And over this 30 or so years of time there has
23 perhaps been 55 decisions of the Federal Circuit and the
24 Court of Custom and Patent Appeals.

25 In addition, in I believe it was '96, the patent

1 office issued its software guidelines on how to prepare
2 computer applications. And it's gone further. It has
3 provided very definite and very meticulously detailed
4 teachings of how to prepare claims that will pass 101
5 muster.

6 And so we come down to the point now in 2002 and
7 we have a very well-defined standard. It is the
8 practical application standard. If your invention,
9 whether it's a method of doing business or whether it's
10 software, if it has a practical application in the
11 technological arts, then it is patentable.

12 State Street said this; AT&T reinforced State
13 Street. The Supreme Court has refused to hear these on
14 cert. And so this aspect of the patent law and the way
15 it looks at software is very well settled, at least in
16 the patent office, at least in the Federal Circuit.

17 But there are other issues, the issues involved
18 in Sections 102 and 103. And this is the area where we
19 get into in terms of what it takes to be patentable.

20 How much do you have to be different from the
21 prior art in order to be awarded a patent? And it's in
22 this area that we seem to have more difficulty and, as
23 other people have alluded to, the problem comes up when
24 you don't find the most pertinent reference.

25 And the patent office has been justifiably

1 criticized for examining patents and issuing them without
2 the best art, the best technology cited against them.

3 The down side of this, of course, is that if you
4 miss the most pertinent references you have seriously
5 undermined the presumption of validity of your patent.

6 How do you do this? Well, how do you find better
7 prior art? It's tough. There are some built-in problems
8 that you have. Probably the first is just the very
9 nature of the technology we're looking at.

10 I can remember when patents were just starting
11 out a long, long time ago, someone gave me the project of
12 trying to determine whether a certain piece of technology
13 was infringed or not. And what I got was a box of object
14 code and someone said, "Tell me whether this infringes my
15 patent." That's almost a no-brainer. I mean, there's no
16 way you can do it.

I said, "Fine, would you like to spend maybe

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1 is going to do.

2 The other problem we've had -- and we've had it
3 in the '80s with software patents and we're having it now
4 with method of doing business patents -- and that is we
5 have had a rush of creativity and patenting. In the
6 early '80s there were no patents on how to program your
7 computers.

8 There was very little out there that could be
9 used as prior art references so the patent office was put
10 in the position -- "We have no references so we have to
11 issue this."

12 It's similar now with methods of doing business.
13 Methods of doing business, if you want to have a birth
14 date for these kinds of patents you might take it as
15 December '97. This was the first time that the patent
16 office issued a set of classification, their word. I
17 think there was a handful, maybe 800- 900 patents at that
18 point that were issued. And that's when they started to
19 classify it and put it into a particular class.

20 Well, since then, since '97 and you go from year
21 to year to year, there has been a 40 percent increase in
22 the number of patents that are issued. But unfortunately
23 in terms of prior art, most of these are not of much
24 value because it's now taking two to four years to
25 successfully examine such patents in technology center

1 2100, which is the group of examiners that examines
2 business method patents.

3 Right now in that center the pendency for an
4 application has gone from two or two-and-a-half years to
5 three years in order to get your first examination. So
6 you might be looking at four to five years before you
7 would actually get the patent issued. And when that
8 happens and it's happened with methods of doing business
9 type of technology, you have nothing to recheck them
10 with.

11 The examiner is sitting there trying to find a
12 reference. And there's no reference because everything
13 is being held in secrecy. It's an application -- the
14 technology is described in a lot of applications but the
15 examiner cannot use them to recheck the new applications
16 that are coming in. So you do have a problem.

17 But in part, some of these problems are
18 self-correcting. In the '90s, after we have literally a
19 decade of incredible amount of patent and creativity in
20 terms of software, you could go in and you can find prior
21 art without much more difficulty than you can in any
22 other technology.

23 And we're also seeing now in methods of doing
24 business, we're starting to see the first basic patents
25 issue. And they, of course, being the basic patents, I'm

1 sure, will be good ammunition for patent examiners to
2 apply against applications that are just now being filed.
3 There's other things that are happening that can affect
4 the problem of whether or not you have the best prior
5 art. Almost a year ago now, the patent office has begun
6 to publish not issued patents but pending applications
7 even before they are allowed.

8 In a single year, and I just checked this with
9 Robert because I wasn't sure, but somewhere between
10 50,000 and 55,000 published applications have now been
11 published in the span of one year.

12 This is going to give a tremendous resource to
13 the examiners and to the patent bar to know not only what
14 inventions are patentable under 102 and 103, but also are
15 there patents out there that are of potential
16 infringement interest?

17 One of the big things of the lack of technology
18 or lack of patents is that you're trying to advise a
19 client who's coming in and saying, "Can I enter this
20 field and are there third-party patents out there that I
21 will infringe?" If these patents are sitting in the
22 patent office there's no way you can legally look at
23 them. There's no way to find out whether your client
24 will be just walking into an infringement problem.

25 And the thing that often happens, and it's sort

1 of tragic for the individual small inventor. They put a
2 lot of money and a lot of effort into this process and
3 two or three years down the line, typically, in the
4 course of the prosecution of their own patent they found
5 out another patent has issued that covers their invention
6 and they're barred from using it. Hopefully, the present
7 publication of references will go a long way to do that.

8 The patent office is to be applauded in many ways
9 for how they have handled a very difficult situation.
10 The office is criticized for not finding references and
11 certainly that has to improve, but certainly they have
12 done a lot to solidify and explain what the definition of
13 statutory subject matter is.

14 In terms of what the patent office is now doing
15 with methods of doing business, they have taken special
16 procedures with this kind of invention, particularly in
17 technology center 2100. They're doing a number of
18 things. One of the things they're doing is they're
19 encouraging their examiners to use the Internet.

20 If you're going to examine an Internet patent,
21 where the best source of information is on the Internet.
22 And so you go; you search and find the Web sites and get
23 a disclosure of what's happening.

24 The other thing that is happening is that once
25 the application has been allowed, a senior examiner,

1 typically someone from quality review in the patent
2 office, will come in and before that is actually issued,
3 the notice is set, the experienced examiner will take a
4 look at that and will give it his or her blessing. So
5 you do get a second review of these applications before
6 they come out.

7 The other thing that is being done is that they
8 want to make sure that each application is thoroughly
9 searched. And so the group directors of 2100 have set up
10 a set of fields of search so that if you have a
11 particular technology, you will have to search a
12 particular set of subclasses, particular databases.

13 For example, how about if you're patenting a
14 method of encryption of credit card data? There is a
15 particular subclass and there's a related subclass that
16 deal with that technology in Class 703. According to the
17 instructions that are given to those examiners, they have
18 to search all of those subclasses and they have to search
19 through related databases of technology.

20 And this has helped to ensure that to the extent
21 possible -- you can at least in a particular technology
22 center -- you will have the increased shortness of the
23 examination in the hope that you have really found all
24 the most pertinent technology. But to the extent that
25 the patent office has done that there's other things, I

1 think, the patent office can do.

2 And these may just be the pipe dream, but what I
3 would like to see them do is to give the initial
4 examination of each of these patent applications more
5 time. I have been an examiner in the patent office and
6 one of the things that you're really crunched with is the
7 time in order to make the first examination.

8 In the first examination you have to read the
9 application which may be 30 pages; it may be a hundred
10 pages. You have to search the prior technology and you
11 have to also write a report and the time you're typically
12 given for something that may be not too complex, you
13 might be given eight hours to do it. And that is tough
14 to do. It is very difficult. So it would be good if
15 they could give more time with the initial examination.

16 And the other suggestion -- these are not
17 anything new with me but certainly I endorse them -- and
18 that is to take steps to keep the experienced examiners.
19 There is a very significantly high turnover in the
20 examiners particularly, I understand, in the biotech area
21 as well as the software, method of doing business area.
22 So at least at one time in the last recent history, 50
23 percent of the examiners that were in examining software
24 had less than two or three years experience.

25 And if you're going to be able to examine well,

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1 you not only have to know the patent laws, you have to
2 know the technology. So the worst thing that could
3 happen for someone like myself is to get an examiner who
4 has just been in the office for six months because they
5 don't know the technology and the references they will
6 typically cite to me are not typically pertinent.

7 But the one thing, and I was just talking with
8 Robert, is that what this means is that you have to have
9 more examiners. You have to increase the number of
1 that ~~24~~ examiners understand yet this is going to be very, very

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1 Columbia delivered an *en banc* decision unanimously in the
2 U.S. v. Microsoft case and it responded in that case to
3 Microsoft's claim that their intellectual property rights
4 excuse conduct that would otherwise violate antitrust
5 laws.

6 "Microsoft's primary copyright argument borders
7 on the frivolous. The company claims an absolute and
8 unfettered right to use its intellectual property as it
9 wishes. If the intellectual property rights have been
10 lawfully acquired," it says, "then their subsequent
11 exercise cannot give rise to antitrust liability."

12 The court continues, "That is no more correct
13 than the proposition that the use of one's personal
14 property such as a baseball bat cannot give rise to tort
15 liability." The court wound up concluding that
16 intellectual property rights do not confer a privilege to
17 violate antitrust laws.

18 I would suggest this unanimous *en banc* decision
19 should be in the forefront of all of our consideration on
20 development issues in this area as well as focus here on
21 copyright. It generally does use the language of
22 intellectual property in the broadest sense.

23 It's that wise jurisprudence that we think should
24 guide us and that, while intellectual property rights are
25 absolutely essential to encourage innovation and

1 creativity, strong safeguards are also necessary to
2 prevent the abuse of those rights.

3 I'd like to briefly discuss a few points related
4 to one particular area, business method patents, which
5 have obviously been mentioned.

6 There's little debate that the mechanical process
7 in the offline world can be patented. However, in recent
8 years some patent applications have claimed patent rights
9 for taking a commercial process or business method that
10 has existed in the brick and mortar world and promulgated
11 it online. We believe that these kinds of patent claims
12 do not serve the purpose of the patents laws.

13 Some examples include Amazon's one-click purchase
14 patent, reverse auctions on the Internet and British
15 Telecom's hyperlinking patent. The experience with these
16 and other patents is illustrative of how the liberal
17 issuance of business method patents can create perverse
18 results.

19 PTO is clearly overburdened by the huge number of
20 patent applications and has lacked adequate resources and
21 we've had a good description of many of the problems that
22 exist to conduct a kind of thorough prior art review for
23 each application.

24 But unfortunately, the results therefore have
25 been predictable. In order to remedy the situation,

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1 Congress and the PTO needs to institute some basic
2 changes in procedures, as well as the resources necessary
3 to provide more meaningful opportunity for the affected
4 business community to challenge the validity of a
5 business method patent claim. We obviously have more
6 details in our written submission which lay out some of
7 this much further.

8 I think it's also hard to talk about software and
9 the Internet without talking about the international
10 Treaty and the DMCA law which has been implemented in
11 connection with that. And you have Section 201 at the
12 DMCA.

13 The anti-circumvention provisions of the DMCA we
14 are concerned and at the time of passage indicated that
15 we thought there were some fundamental flaws in that
16 construction.

17 Legitimate efforts to deliver new and innovative
18 products in the market and to consumers have been
19 thwarted or have been challenged as violations of the law
20 as amended by DMCA.

21 We recently have observed the rise of litigation
22 involving reverse engineering of the encryption
23 protecting digital versatile disks. This litigation
24 exemplifies the undue narrowness of the DMCA reverse
25 engineering process. We support very strongly a

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1 broadening of reverse engineering exception to facilitate
2 interoperability of any storage format with any operating
3 system or software platform.

4 The other thing I think when we talk about the
5 Internet and software is what it does in the world of
6 information and data flow. And we have seen the issue of
7 database protection has arisen.

8 And for several years Congress has wisely
9 declined to enact legislation to protect owners of
10 established databases from competition. Claiming to be
11 victims of database privacy or free-riding, large
12 publishing houses, largely foreign, and others now
13 advocate passage of legislation to provide novel legal
14 protection to databases.

15 Most others in the high technology, science and
16 academic community believe an entirely new regime of
17 intellectual property law is unnecessary, unwise and
18 could have serious negative results on the impact and
19 flow of important information on the Internet and in an
20 open society.

21 We believe a mere compilation of facts already in
22 the public domain in whatever form does not meet the
23 constitutional standard for intellectual property
24 protection unless there is a regional selection
25 coordination or arrangement in the compilation as

1 indicated in the Feist decision.

2 Both this Commission and DOJ has wisely voiced
3 objections to the Coble Bill in the House citing serious
4 Constitutional reservations and concerns about the effect
5 of this legislation. And we urge you to continue to do
6 so when asked or not.

1 We felt it was necessary to mention Microsoft
2 because they are the 800-pound gorilla in this world and
3 it would be impossible to have discussion of the

1 The relevant House committee and the PTO within
2 the Commerce Department have, I think, been overly

1 your commitment to strong competition and to participate
2 vigorously in interagency and inter-branch process on
3 behalf of competition rather than deferring to agencies
4 which may have substantial technical expertise, such as
5 PTO, but lack the ability to put in perspective all of
6 the relevant factors and maintain the proper balance.
7 Thank you very much.

8 MS. DeSANTI: Thank you, Ed. All right. I think
9 we're just going to take a ten-minute break to digest
10 everything that we have heard and then we'll come back
11 for an hour of discussion. So let's return at quarter of
12 3:00 please.

13 **(Whereupon, a short recess was**
14 **taken.)**

15 MS. DeSANTI: I wanted to begin, Dan, by asking
16 you a few questions about your presentation, and also you
17 mentioned that you had some questions on your mind. So I
18 want to let you follow up with those. But one question
19 that occurred to me is -- well, there are two questions.

One is wase

One is 2ase

One is 3ase

1 different? That's one question.

2 And the second question is why would you ever
3 want to talk about lowering the standard for disclosure?
4 We have heard a lot from people through all of the
5 sessions so far that the fundamental pact involves a
6 period of property exclusivity in return for a disclosure
7 that is in the public interest to foster innovation. So
8 those are two questions to start with.

9 MR. BURK: Sure. The analysis that we have
10 been doing, in particular these two sets of cases,
11 Federal Circuit cases dealing with software patents and
12 the Federal Circuit cases dealing with biotechnology, as
13 you say indicates that in the abstract we have a one size
14 fits all system. We say, well, we have these legal

1 that the person of ordinary skill in the art in regard to
2 software knows a certain amount and that will determine
3 patentability, but the level in biotechnology might be
4 different." For example, the Federal Circuit has told us
5 that a person of ordinary skill in biotechnology is at
6 the Ph.D. level.

7 That is not necessarily the case in software. It
8 might be the teenage hacker in the garage might be the
9 person with ordinary skill in the art in software. So we
10 try to adapt it to the different industries and as we do
11 that we're discovering that we are essentially evolving
12 sort of subregimes of patentability so that the Federal
13 Circuit has articulated a very, very distinct and unusual
14 standard for biotechnology that says you must disclose a
15 DNA sequence to us in order to get a patent, but once you
16 do you are essentially assured of a patent, whereas in
17 software they say, "Oh, well, just tell us what you want
18 it to do."

19 And we figure that the person of ordinary skill
20 in the art in software, once you tell what you want to
21 have happen, they can always write the code. Writing the
22 code is no big deal. Now, in reality we suspect writing
23 code is a big deal -- getting the bugs out, getting it
24 developed and actually getting it to function.

25 So again, the articulation has been one size fits

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1 to develop something.

2 And so maybe if I know how to get the sequence,
3 even if I don't have the sequence in hand yet, it may be
4 appropriate to give that person a patent so that they can
4r.to actually get the venture capital to innovate, to actually

1 someone's product, can't do what I can do in the
2 copyright area with patent.

3 I wonder if the other panelists are seeing this
4 -- that because there's no fair use in patent law, it's
5 harder to create interoperability, harder to create
6 competing products?

7 MS. DeSANTI: Let me add just one additional part
8 to that question which is a question of when do you
9 choose copyright versus patent protection? When does it
10 make sense to choose copyright protection for software?
11 When does it make sense from a business perspective to
12 choose patent for software? Lew?

13 MR. GABLE: A lot of it depends on what's
14 commercially at risk. A patent in the software area may
15 cost you \$30,000- \$40,000 to file and prosecute.

16 MS. DeSANTI: Could you pull the microphone a
17 little closer? Thank you.

18 MR. GABLE: It will cost you \$30,000 or \$40,000 to
19 prepare and file and prosecute a run of the mill, 15-page
20 patent application protecting a particular application
21 program. In order to do that you have to justify that
22 expense.

23 And at that point if you do have that need to
24 protect that technology because the market is going to be
25 sufficient to support that kind of cost, then you

1 And I'm afraid that just in too many different
2 places it has lost its fundamental engine, which is it's
3 supposed to be the dynamo and the legal structure that
4 really promotes innovation.

5 And I'm just increasingly seeing that that's not
6 its core function, that the core function is business
7 strategy, gaming, squeezing players out, preventing
8 people from wanting to take risks -- some of which are
9 not relevant to innovation. Some are absolutely contrary
10 and counterproductive.

11 I can say positive things too -- I guess I'm
12 overemphasizing the negatives here, but they do seem to
13 stand out. And I think it's worth pointing out that I
14 haven't researched the year so I could be off, but
15 somewhere in the early '90s was the point at which
16 software patents really exploded.

1 that history to conclude that patenting of software is a
2 really valuable catalytic plus for innovation.

3 MS. DeSANTI: Let me just stipulate to clarify on
4 the record that when I say for business reasons, I assume
5 that innovating is a business reason. Scott?

6 MR. SANDER: Yeah. I wanted to say something that
7 Ed might be a little surprised at, but certainly will be
8 interested to hear, and that is that I didn't actually,
9 at first, respond to that question because it seemed to
10 be a question about patenting software or copyrighting
11 software.

12 And we have patents that have both method and
13 systems claims. We build a system to distribute the
14 movies and music of digital audio and video
15 electronically. We have patent protected many things
16 that we have done around there, but I'm not qualified to
17 answer the question because we, specifically, as a
18 business strategy since Day One never make software
19 because we live in America and patented or copyrighted it
20 doesn't really matter. There, that's my gift to you
21 today, Ed, because there is a reality called Microsoft
22 that puts us in a very different situation as a small
23 company trying to build a business.

24 So we only leverage the software that Microsoft
25 creates and then patent protect the method and system so

1 that we don't get Microsofted on our core business. So
2 that's a concession that we do neither because we just
3 bail before we even start because we don't do software.
4 And that's probably another area on the other side of
5 town.

6 MS. DeSANTI: Yes, exactly. And we're not
7 covering those issues today.

8 MR. BURK: Those are both very interesting
9 comments to me because I'm reminded of a story about a
10 close friend of mine who was a property attorney who
11 moved from a law firm to an in-house position with a new
12 Internet startup.

13 And his first day there he went down to see what
14 they were developing, what the engineers had come up
15 with. They showed him their latest product and being, of
16 course, an intellectual property attorney like Lew or
17 myself, said, "Gee, I wonder if we can patent that?" And
18 so they thought about it and they said, "No, it was too
19 obvious." They wouldn't be able to patent it.

20 And he said, "Well, maybe we can protect with
21 copyright." And they thought about that, the engineers,
22 and they decided no, copyright wasn't really very good
23 protection for that. And my friend said, "Well, what are
24 we going to do? We're going to lose the company." And
25 the engineers looked at him like he was insane. And they

1 said, "We're going to sell this for six months until our
2 competitors copy it and then we'll move on and sell
3 something else."

4 And that's what we do in this industry, which
5 tends to anecdotally support Ed's view that maybe when
6 you have a very, very short development time and very,
7 very short life for some of these products, some
8 intellectual property protections, as they now exist,
9 just are not terribly helpful in your business plan.

10 MS. DeSANTI: Mark, I have to ask you this
11 question. You mentioned that you do have copyrights and
12 I'm wondering as a corollary whether you can help us
13 understand if making money from protecting intellectual
14 property rights is not your business revenue model, what
15 is?

16 MR. WEBBINK: Well, maybe addressing that issue
17 first would be helpful. While we derive some income in
18 our company from the distribution of open source software
19 most of that income centers around, in terms of if you
20 think of a traditional boxed product, the fact that we
21 are delivering convenience at that point because the same
22 product that is in that box is freely downloadable from
23 our website. But if you are not on a T1 line, if you're
24 trying to download Red Hat Linux software with a 28K home
25 modem, if you don't have about six days of free telephone

1 time it might take you a while to do that.

2 And so it's there as a retail product to help
3 consumers be able to get it on a CD, get some technical
4 support, get some credit manuals, that sort of thing.
5 And the software itself is still fundamentally free.

6 So where do we derive the rest of our income? We
7 derive it from a variety of things. One, we have a very
8 robust training and education program around Linux and
9 other software related to open source software including
10 training on C++ and things like that which provides a
11 good deal of income for us.

12 We do derive some income from just pure technical
13 support, the kind of, "I need help. I'm trying to get
14 this software installed. I've looked at UNIX my whole
15 life and can you help me walk through this?" developer
16 support which is becoming an increasingly important thing
17 for us. I'll come back to that in just a second.
18 Engineering services, much of that's been focused on
19 embedded systems, but it's also been support of other
20 software vendors who are interested in porting their
21 products to run on Linux and need interfaces developed so
22 that the applications will run.

23 A growing portion of our business is in just pure
24 IT type consulting. Related to Linux again, you've got
25 large users that are looking to convert their operating

1 system and they don't have the internal resources to make
2 this migration. They need help. They need a migration
3 path defined for them. They need assistance in making
4 the migration. They may need some high-level software
5 that they use from other vendors ported in advance and so
6 we have consulting services built around that.

7 And so the vast majority of our income is derived
8 from services and almost nothing from what you would
9 traditionally think of as the sale of software. Going
10 back then to understanding where we are in our industry
11 and in areas of where we do compete and compete
12 effectively in areas where we have, for very rational
13 reasons, not competed against the company that has a 94
14 or 96 percent market share.

15 Where we have competed effectively is in the
16 server market, both in web servers and enterprise
17 servers. And there, the biggest gap we had to overcome
18 was not within the web server market but within the
19 enterprise -- large industry looking to adopt an
20 alternative operating system.

21 And there they needed, again, assistance in
22 convincing major ISVs, and those would include companies
23 like Oracle, IBM itself with its DB2, Lotus Notes and
24 products like that, Veritas. These are companies that
25 are providing software that is critical to large industry

1 and that software didn't run on Linux.

2 And so we had to bridge that chasm. We had to
3 get from the early adopters to a point where those ISVs
4 now saw that that's where the market was going and
5 started moving and wanting us to help carry them into
6 that marketplace. And that's where we have gotten to.

7 So some would say that, in fact, this is before
8 I joined the company I read the comment somewhere, Red
9 Hat was a successful IPO in search of a business plan.
10 And I would say that to some extent that might have been
11 true three years ago. But the company has very much
12 focused itself now.

13 We are in a business where we don't have the
14 ability to look and say, "Well, what did somebody else in
15 this industry do because there has not been an open
16 source company that's been built on open source
17 technology before." So we have had to take a few steps
18 forward and even once in a while take a step back and
19 say, "Okay, this is an area where it's working and this
20 is an area where it's not working." Where we found that
21 it does work though is built on a subscription model that
22 is fundamentally built around service and customer
23 convenience at very different levels. At the retail
24 level customer convenience was built on simply delivering
25 a CD rom. At the enterprise level customer convenience

1 is built around a system that we called Red Hat Network
2 which allows system updates and management to take place
3 at a very high level.

4 We touched earlier on the fact that there are
5 multiple regimes here that touch on software and this is
6 something that I don't think the average person
7 recognizes, that software is touched by virtually every
8 form of intellectual property regime, be it patent, be it
9 copyright, trademark, which is critically important to my
10 business, and also trade secret. They have all touched
11 on it at one point or another.

12 It's now at a point and I think in some respects
13 while maybe not totally unique, it is probably more
14 unique in that regard than other areas of intellectual
15 property. It's not something you see to the same degree
16 in chemical or mechanical items.

17 And it's that overlay to where you've got fair
18 use under copyright, but proprietary companies saying,
19 "But you can't reverse engineer my product." And their
20 product now contains patents that they're supposed to
21 have offered disclosures on, but you look at what's
22 available in terms of a disclosure and all you can look
23 at are claims that are extraordinarily broad.

24 And I recently got a very typical letter in the
25 patent industry from a law firm representing a company

1 Where do you strike the balance between what is, for lack
2 of a better term, true innovation, something that is
3 adding value, and something that is simply trying to
4 carve off a block a world and starts off with its first
5 claim is, "We claim all things existing within the solar
6 system operating around -- consisting of nine to ten
7 planets," and that's the first claim. And you go, geez,
8 I think somebody came up with that idea first.

9 Those are the sorts of things that we feel like
10 the system has gotten out of kilter in, where the area of
11 business methods, software patents is different from
12 other areas.

13 MS. DeSANTI: Well, let me follow up and ask
14 others, and Dan, you may have information on this, are
15 you seeing in the cases that you have looked at really
16 broad claims and to what extent do people around the
17 table feel that there is a problem with the quality of
18 software patents being issued? I know, Lew, you
19 mentioned a number of initiatives that the PTO has taken
20 to try to deal with this issue but maybe you can have
21 some reflections as well on where they are in those
22 steps.

23 MR. GABLE: There's a couple of thoughts. It is
24 very difficult when I hear something, especially in the
25 newspaper, that will say a patent covers this huge scope

1 was in private, that these claims were nonobvious when
2 they gave this the second look. And so no reexamination
3 process of the Amazon.com patent ever happened. But you
4 see how the Commissioner of patent or the Director, now,
5 of patents works that if there is a patent that is
6 getting severe press, and of course Amazon.com patent,
7 the patent office will consider whether it should on its
8 own initiative or not take a second look at it. And they
9 do.

10 In a number of situations, they do just without
11 outside party involvement at all, they will take a second
12 look. And in some cases they have significantly narrowed
13 the scope of patents that were issued.

14 MR. BURK: I think two or three thoughts on that.
15 The first is the one that's inherent in Mark's comments,
16 which is that the problem is not a patent with overbroad
17 claims or a few patents, but sort of a death by a
18 thousand cuts, that there are many, many of these
19 patents, that it's very difficult to determine which of
20 them are valid or not.

21 Looking at what the Federal Circuit says about
22 the standard, first of all, makes it difficult to
23 determine whether it's invalid because, as Mark
24 indicated, there's rarely disclosure on most of these.
25 So they're claiming a lot with minimal disclosure for you

1 to evaluate on and the Federal Circuit tells us that the
2 obviousness threshold is going to be very high.

3 So we would guess that many of these are going
4 eventually be found to be obvious, at least. But that is
5 several years and many thousands of billable hours down
6 the road before you get that determination. And so it's
7 the fear factor when you get this kind of delay the
8 market is talking about.

9 I think the second point to make in conjunction
10 with that is to ask ourselves what we think patents are
11 doing, because one of the assumptions that we typically
12 make and that we have been making in our discussions so
13 far is that patents exist to be licensed to provide an
14 incentive or payback on investment.

15 When you do R&D, you then have a piece of
16 intellectual property that you can license and collect
17 royalties on or sometimes infringement damages on.

18 But we note the vast majority of patents are
19 never litigated, never licensed, in more than 90 percent
20 of patents. Well, what are they doing out there? Why
21 are people spending money to get these things? We've
22 heard some of the things that they're used for, right?

23 They might be used to attract venture capital and
24 never licensed and never litigated. They might be used
25 in a situation where I'm simply being defensive. Mark

1 talked about that a little bit. I'm afraid of my
2 competitor who has big portfolio patents. One way to
3 protect myself is to develop big portfolio patents
4 myself, in case they ever decide to sue me, that I have
5 something to countersue with.

6 They might be used as negotiation chips in
7 various kinds of joint ventures. They might say, "Well,
8 you're bringing something to the table. I can bring this
9 portfolio of patents to the table."

10 So there are a lot of sort of nontraditional or
11 nonexpected uses of patents. And the question then
12 becomes how much examination, how valid do we want them
13 to be to be used for all kinds of purposes? Clearly, if
14 they're going to be used to ask you to license or ask you
15 not to develop a certain technology without paying a
16 royalty, we would want that to be very stringent and be
17 real sure that that's a good patent.

18 If they were being used to attract venture
19 capital or signal something about your business plan, it
20 may be less important, but to make sure that they're
21 really on solid legal footing. If they're being used as
22 sort of negotiation chips or for defensive posture, it
23 may be even less important.

24 So they're being used for different reasons than
25 maybe we had originally anticipated. And it's not clear

1 how much effort we need to put into those different types
2 of uses for them.

1 fulfill the transaction electronically. Well, I just say
2 that to give you the sense that we were both there doing
3 business already, precisely because we had raised venture
4 capital around our patents in 1995 before they even filed
5 for their one-click patent. And we were doing our
6 business based upon a filing from 1988 for a patent that
7 issued in '93.

8 And our first order of business in '93 was we
9 went around to all the record labels and movie studios
10 and said, "Here we are, a couple of guys, and have this
11 patent, and these are all of the other things that we
12 want to do. And we would like you to invest in our
13 company to get us started."

14 And they looked at us like a couple of guys that
15 had a patent on an internal combustion engine that ran on
16 seawater and we were at Exxon asking them to put up the
17 money. So we recognized after a while that we would
18 probably have to do a bunch of other innovation before we
19 could get the skeptical record label executives and movie
20 studio guys to come on board.

21 So we were able to raise and spend \$24 million
22 doing a whole bunch of other innovation that became the
23 basis for more patents and enabled us to shift from music
24 to movies and build the systems, do all of the stuff, but
25 we were doing it because we had the money from the

1 patents.

2 We went to the skeptical copyright holder. They
3 kept throwing higher and higher and higher burdens. We
4 kept getting over them. And finally, we came back. We
5 were like, "Okay, you want the broomstick of the wicked
6 witch of the west. We delivered it. Can we go to Kansas
7 now?" And they still -- that's a whole different story,
8 but you know they still are withholding the copyright.

9 So I think we are a case study in the initial
10 patent, which a lot of people piled on after us and tried
11 to get method patents or a particular way of doing
12 business electronically.

13 We were so many years before that that we were
14 already in the second generation with our patent process,
15 which was solving all of these other problems for them.
16 But the problem is we get all painted with the same
17 brush: one-click, two-click. That's a lot different than
18 years of solving each problem to try and get a skeptical
19 copyright holder to release their movie or their music
20 electronically.

1 using patents for nontraditional uses, or not the
2 traditional, "I'm going to license this and collect
3 royalty," use, if you're using it to convince skeptical
4 business partners or to bring something to the table in a
5 joint venture -- and the public has begun to lose
6 confidence in the patent system because they have heard
7 so much about what looked to them like ridiculous or
8 obvious or what should be unpatentable types of items --
9 that you begin to get this kind of reaction that Scott
10 experiences where you show up with something that's truly
11 innovative.

12 You have a patent on it and it no longer has any
13 currency because the public or investors no longer
14 believe that the patent office or the courts have done
15 their job so you have something that's actually valuable
16 to bring to the table in your business transaction.

17 MS. DeSANTI: That relates to a -- well, go ahead,
18 Mark.

19 MR. WEBBINK: I was just going to ask, having not
20 been involved in patent litigation directly myself at
21 this point, if one of the other panelists would just
22 speak, just for the record, about the cost of patent
23 litigation generally because I think that needs to be
24 well understood?

25 MR. GABLE: Ten million bucks.

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1 this kind of thing. That market indicator should tell
2 you how much money there is available for attorneys to
3 make which tells you how much the businesses are spending
4 on these kinds of suits.

5 MR. BLACK: And although I am an attorney, that's
6 not the way we want to build the economy.

7 MR. BURK: Well, the Japanese have a saying that
8 engineers make the pipe bigger whereas lawyers decide how
9 to divide it up.

10 MS. DeSANTI: Well, I guess that relates to a
11 question that we wanted to pose about the role of
12 uncertainty with respect to patents or with respect to
13 antitrust rules. Is there a role that uncertainty plays
14 in how the competition evolves in this industry, both
15 with respect to uncertainty about patents, patent
16 quality, patent validity, and other aspects of it?

17 MR. GABLE: I think the biggest question -- I had
18 a very interesting conversation with Scott -- is after
19 you have gone through and you have done the best job you
20 can in order to secure a valid patent that is patentable
21 over the closest prior art, you always fear, I think,
22 that there will be some new disclosure, some article,
23 some product that has been sold, perhaps just a piece of
24 software that has been sold, that has gotten no
25 disclosure at all that could be an effective reference

1 against your patent. And there is always that
2 uncertainty and I would like, perhaps, Scott to describe
3 his bounty approach to obtaining references.

4 MR. SANDER: We were subject to a new idea which
5 is pretty clever called Bounty Quest. And Bounty Quest
6 was -- I think it actually had some money from Jeff Bezos
7 as one of the investors if I'm correct. And they put out
8 a \$10,000 reward typically on these things, but for the
9 SightSound, for the Hair patents, the SightSound patents,
10 they put out their highest bounty ever of \$40,000. And
11 then it erroneously got into the media that this bounty
12 had been paid for our patents.

13 MS. DeSANTI: Can you just clarify for the record,
14 this is a bounty for people to come and say we have
15 invalidating prior art or whatever?

16 MR. SANDER: Yes, yes. So it uses the power of
17 the Internet to search the entire world to look for
18 anything that's allegedly prior art. And so they awarded
19 a \$10,000 reward on patents called the Kaplan patents, I
20 believe, or they're called the Intouch patents.

21 So they gave a reward of \$10,000 for somebody
22 that came up with something. That was patents on music
23 sampling. And the problem was that somehow there was
24 something wrong on their website or whatever and they
25 actually - - somebody got confused and thought that they

1 gave out the award for the Hair patents. They did not.
 2 The Hair patents survived the \$40,000, not the \$10,000
 3 Kaplan challenge, but the \$40,000 Hair challenge. And
 4 they actually issued a clarifying statement saying that
 5 the process of surviving this Bounty Quest -- and we're
 6 still on the island. We weren't voted off or whatever --
 7 that it actually served to strengthen the argument that
 8 our patents were valid.

9 And as an aside, the ones that lost -- we should
 10 have gone for the ten grand because the patents -- this
 11 goes exactly to what we're talking about today. The
 12 patents that were at issue and the bounty that was
 13 actually paid were filed for the year after we sold the
 14 first music, and when we sold that music there were 30-
 15 second free samples as part of the download.

16 So I think our business practice probably back in
 17 1995 existed as that prior art but you couldn't go back
 18 and re-create 1995 and nobody cared that we were selling

19 they actually m8 music to download for free. And Jeff Bazos wasn't Man of
 the Year as-ncl1995vg Tj -68.25 0 TD (18) Tj vpistedlrkE8.25ackr

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1 But we lived through an era where that's all we
2 were looking for, what's the deal? We have the patents.
3 We're trying to do the right thing. We're trying to play
4 by the rules. And there were two ways of doing the
5 business, our way where people got paid, and the whole
6 Napster, MP3.com, all of this craziness was going on at
7 the same time.

8 And Teddy Roosevelt once wrote, he said, "It's
9 absurd and much worse than absurd to treat the deliberate
10 lawbreaker as on exact par with the man eager to obey the
11 law whose only desire is to find out from some competent
12 governmental authority what the law is and then live up
13 to it."

1 And right now there's all these people just
2 pointing fingers at each other. And the American
3 consumer is, in our business, just stealing the stuff
4 because nobody will lay down their arms long enough to
5 start selling it to them.

6 So your help is appreciated and even if it's not
7 legislation, which I hope it's not, it's probably just
8 getting the media back on track through hearings like
9 this that there needs to be some rational thought about
10 these things.

11 MS. DeSANTI: Thank you. Ed.

12 MR. BLACK: On uncertainty, just, I think, from

1 Things can always disrupt it but the higher
2 degree of certainty, I think, is better, which arguably
3 says we should be shrinking, not trying to massively grow
4 that base of intellectual property. And I do think on
5 the competition side of the equation we have witnessed I
6 think some policy -- there's law and there's policy. And
7 we've got enforcement and we've got rules. And I do
8 think there is danger that wide swings in policy overlay
9 over the law helps to undermine the credibility and the
10 effectiveness of the law for everybody in terms of,
11 again, predictability.

12 And right now we're, I think, very concerned that
13 there seems to be, there had been -- just real quickly, I
14 think there had been a sense that in the '70s it got
15 overly regulated and detailed. In the '80s the pendulum
16 swung the other way and it kind of was anything goes.
17 '90s was the feeling that it was coming back into more
18 even keel and now it's, I'm afraid, we're sensing a real
19 sense that antitrust policy just lost its clout as a
20 credible, desirable policy outcome. And I think in
21 addition to disagreeing with that substantive outcome I
22 am unhappy about the swing pendulum aspect of policy
23 evolution.

24 MR. GABLE: One further thought that hasn't been
25 brought up so far, and Bob and I have discussed it a

1 little bit, and that is the possibility of an effective
2 reexamination procedure. What is the answer to the
3 clearly invalid annoying patent that is capable of great
4 mischief in this use?

5 One simple answer would be the reexamination
6 procedure. We do have such a procedure in the patent
7 office, but there are significant defects in it,
8 primarily that the person challenging the patent holder
9 is at a significant disadvantage procedurally. And if
10 you lose, if you're challenging a patent and you lose,
11 then you're barred, you are estopped with the result that
12 your device would infringe a certain patent.

13 If some small modifications could be made to the
14 present system whereas the field would be more level for
15 both the patent holder and the challenger of the patent
16 and if they both have equal access to review,
17 particularly to the Federal Circuit, such a procedure
18 would be a very effective, at least comparatively to the
19 \$12 million or \$1 million it would not cost that in order
20 to knock out these patents which are overly broad.

21 MR. BURK: Let me qualify that just a bit because
22 that's been the subject of some discussion, certainly in
23 the active research literature about broadening or
24 changing or extending the reexamination process.

25 And it's certainly an idea worth exploring but

1 some of the objections that have been raised to that is
2 we already have an overburdened patent office. And so at
3 least without making some real changes in the way things
4 are done, it doesn't seem to make a lot of sense to dump
5 back onto them again things that they have already looked
6 at once.

7 And maybe a less kind and less gentle objection
8 has been that there may not be much incentive for the
9 patent office to look as carefully as they might at
10 something that's already been through there once. There
11 may be some institutional moral hazard, you might say, in
12 looking at that.

13 So whichever way you want to take that, whether
14 its an overburdened patent office or some institutional
15 difficulties, that may not be the total solution. I
16 think Lew may have mentioned inadvertently another part
17 of the solution, which is he talked about misuse. And we
18 have essentially gutted the doctrine of patent misuse
19 over the past few years.

20 It may be that we will have to revisit that
21 penalty of nonenforcement for misusing of patents. It
22 might create a credible deterrent for trying to get and
23 enforce patents that shouldn't be enforced.

24 Notice, interestingly enough, that the
25 renaissance in misuse over the past few years has been in

1 the area of copyright of software where people have tried
2 to enforce or overreach with regard to their software in
3 the copyright context. It may make sense to relook at
4 the question of misuse of the patent software context as
5 well.

6 MS. DeSANTI: Thank you. As a follow up let me
7 ask if any of you have observations or insights or
8 experiences related to the burden that is put on the PTO
9 under the case law to justify the rejection of an
10 application? One would just think logically that if
11 there is a burden of proof to show that, in fact, the
12 application should be rejected, then that might prove to
13 be an additional hurdle, in close cases, as you say, Lew,
14 to ensuring that in fact patents that are of the proper
15 quality are issued.

16 This is an issue that's been raised by some and
17 I'm wondering whether any of you have observations or
18 thoughts related to it.

19 MR. GABLE: Maybe I can get a little
20 clarification. You mentioned cited case law. When you
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1 Under these internal guidelines of the office,
2 you need to state where each element in the claim that is
3 under examination is found in the prior art. And
4 typically, what you have is the cited patent shows and
5 then they take the claim that is being examined and try
6 to show in the asserted reference what element meets
7 that.

8 And if they can make a clear teaching that each
9 reference, each element of the claim, is met by the
10 reference then that patent is validly rejected. Of
11 course, then as a patent attorney we go back and take a
12 look, element by element by element, to see if there is a
13 clear teaching. And that is one of the very difficult
14 skills to teach the examiner.

15 There is fair application and there is
16 application, particularly of say a young examiner who
17 really has not gone through this process and is not
18 applying the reference element by element in a clear way.

19 MR. BAHR: I think the question you were asking
20 was under current Federal Circuit case law, the office
21 has the burden of establishing unpatentability of a claim
22 to reject a claim.

23 MS. DeSANTI: Correct.

24 MR. BAHR: And I think you were asking would
25 things be better if say the applicant had the burden of

1 establishing that a claim was patentable before we
2 allowed it?

3 MS. DeSANTI: Thank you, Bob. That was my
4 question.

5 MR. GABLE: Okay. I missed it.

6 MS. DeSANTI: That's okay. Well, Bob articulated
7 it better.

8 MR. BAHR: From Patent Office lingo.

9 MR. BURK: When we're thinking about procedure in
10 general, whether it's at the patent office or anywhere
11 else, we typically want to calibrate a burden of proof or
12 standard in such a way that the burden rests on the party
13 with the most information.

14 And my sense has been, at least in the areas I'm
15 most familiar with, and Lew or others can correct if this
16 is different in the software area, but the party applying
17 virtually always has more information than the patent
18 office does.

19 And given what we know about the burden on the
20 patent office and at least some studies indicate the
21 patent examiner spends a total of maybe 18 hours with an
22 application that is making its way through the patent
23 office.

24 It's unlikely the patent office is going to
25 develop better information than the party has. And so

1 from a policy standpoint you would think that we would
2 want to calibrate things in such a way that the burden be
3 on the party to produce the information rather than the
4 patent office to try and develop the information.

5 MR. GABLE: There is some procedure at the patent
6 office. I mean there's the duty of candor that the
7 applicant and applicant's attorney owes to the patent
8 office. And if you have some information, whether it's
9 prior art or anything else that would affect the validity
10 of the patent, as an attorney, as an inventor applicant,
11 you're under an obligation to disclose that. And if you
12 fail to do that, that of itself could invalidate your
13 patent. So usually most patent attorneys are very
14 scrupulous in citing everything they potentially can have
15 to the office.

16 MR. BURK: I think maybe part of what makes the
17 question is, under current Federal Circuit case law that
18 duty of candor is always completely toothless. You're
19 right. But if you aren't candid -- you're right; in
20 theory, it should invalidate the patent but virtually
21 never does. So there's no real penalty there for failing
22 to come forward or to be as diligent as you could be.

23 MS. DeSANTI: Another issue that has been raised
24 is that there is a duty of candor with respect to what
25 you know already, but there is no duty to search. And

1 we've been told by some companies during these hearings
2 that they go out of their way not to search because they
3 don't want to know about things and then be accused of
4 willful infringement subject to treble damages
5 subsequently. And any views on that?

6 MR. BURK: Just the same one I expressed a moment
7 ago that you want to put the burden -- I mean, always in
8 court, in an agency, anywhere -- on the party that has
9 the most information or has access to the most
10 information.

11 MR. GABLE: Well, there are some incentives that
12 are not written into the rules of the patent office of
13 the statutes. In talking with Scott here on his patent
14 application, one of the things that they did with the
15 results of their searching was to give it to the patent
16 office.

17 There were an extreme number of references
18 involved, but the reason you would do it, and it has
19 nothing to do with the rules, is that by putting this
20 much prior art into the record of examination, you
21 certainly probably have given the patent office the best
references theyBa8.25 -sD (cfy proi3.1.75 TD v25.18)ing ard 0Tj
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1 that's not included in the submission of the applicant to
2 the patent office.

3 And so, you can almost tell me to look at a
4 patent on the front page, how many references are cited
5 against it, I take it as a measure of the effort. If you
6 go a couple of pages of references, you have been very
7 diligent in bringing the prior art to the patent office.

8 MR. BLACK: I suppose I would think, though, that
9 if we wanted to put patents into different motivations
10 for getting patents, which is not that easy, it's
11 complex. But nevertheless, the attempt that some people,
12 they're getting in there. The rationale that I think
13 they came up with, we don't want to know too much, we can
14 use for leverage. We can use it for trading or we're big
15 enough to bargain and pressure people.

16 You get a different dynamic. I think what you

1 to process through the system.

2 MS. DeSANTI: Well, I'm not quite sure where the
3 siren sound came from, but I was wondering whether
4 someone had a timer on because we are coming to the end
5 and what I'd like to do is give everyone a chance to make
6 any closing statements, cover any thoughts you have that
7 haven't been raised so far. Mark.

8 MR. WEBBINK: Just to cover a few points and
9 Robert's been very patient listening to us rail to some
10 extent on the patent process. But I don't think any of
11 us look at it as something that is institutionalized
12 necessarily into the Patent and Trademark Office other
13 than as it is treated legislatively.

14 There are some curative measures and some of them
15 are legislative. Funding, which has been a sore spot for
16 any of us who have practiced in this area, the fact that
17 reported user fees are levied on people seeking
18 protection, intellectual property protection, logic would
19 dictate that those user fees should go to fund the
20 organization that's trying to prosecute and deal with
21 those matters. And yet those funds are diverted to the
22 general fund of the government and away from that office.
23 And then the office is considered overburdened. It seems
24 like we've got a disconnect there.

25 I think the issues of patent misuse need to be

1 revisited. The issues of disclosure, especially within
2 the area of software and business method patents, and
3 while we have a system that attempts to put the same shoe
4 on every foot regardless of technology one has to
5 question whether that ought to be the case, whether there
6 are different realities that exist for pharmaceutical
7 versus software, for chemical patents versus mechanical
8 patents. And should they, in fact, all be treated
9 differently or the same?

10 These are, in fact, legislative matters that need
11 to be dealt with and I don't see any groundswell. If
12 anything where we're seeing the groundswell of
13 legislation being pushed is for stronger and stronger
14 measures, criminalizing practices that have been
15 previously noncriminal practices, industries that have
16 great financial strength go into Congress and say there
17 is no technology that would allow me to safely download
18 my digital content so we need the government to take
19 action and step in on this matter.

20 Well, in fact, there is technology that would do
21 it. And they know that there is technology that would do
22 it. So there are a host of legislative issues. I then
23 look at the folks that we've got before us and I say, for
24 the rest of us, where's our protection? And it's with
25 the agencies that are sitting right here.

1 It's with the Department of Justice and it's with
2 the FTC, and asking you all to focus on these matters in
3 the manner that you have, but understand that there is a
4 reality out there that I'm not sure the average member of
5 the public understands about how business is being
6 conducted in this country right now.

7 MS. DeSANTI: Thank you. Scott?

8 MR. SANDER: I'd like to just finish up by saying

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C E R T I F I C A T I O N O F R E P O R T E R

CASE TITLE: HEARINGS ON COMPETITION AND INTELLECTUAL
PROPERTY LAW AND POLICY IN THE KNOWLEDGE-BASED ECONOMY
HEARING DATE: MARCH 20, 2002

I HEREBY CERTIFY that the transcript contained herein
is a full and accurate transcript of the notes taken by
me at the hearing oD4Iu4Clbove cause before Iu4CFEic