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Public Hearing on the Study)
of International Patent)
Protection for Small Businesses)
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Public Hearing on the Study of
International Patent Protection
for Small Businesses at University
of Southern California Gould
School of Law, 699 Exposition
Boulevard, Los Angeles, California
90089 Law School Building, Room 3,
Tuesday, November 1, 2011.
9:00 a.m. to 12:00 p.m. before
Laurie A. Schmidt, CSR No.
12719.

1 APPEARANCES:

2

3 U.S. Government Panel:

4

5 Stuart Graham, Chief Economist and International Patent
6 Protection Study Leader, United States Patent and
7 Trademark Office.

8

9 Martin Selander, Regional Manager, Export Solutions
10 Group, Office of International Trade, United States
11 Small Business Administration.

12

13 Edward Elliott, Expert Advisor, Office of the
14 Administrator for Policy and External Affairs, United
15 States Patent and Trademark Office.

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17 Saurabh Vishnubhakat, Attorney Advisor, Office of Chief
18 Economist, United States Patent and Trademark Office.

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1 Scheduled Testimony:

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3 Bassil Dahiyat, CEO, Xencor.

4 Scheduled Testimony telephonic appearance:

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6 Christopher Palermo, Partner, Hickman Palermo Troung &

7 Becker.

8

9 Jay Kesan, Professor & Director of the Program in

10 Intellectual Property & Technology Law, University of

11 Illinois College of Law.

12

13 Vern Norviel, Partner, Wilson Sonsini Goodrich & Rosait

14

15 Philip McGarrigle, General Counsel and Chief IP Officer,

16 Nodality, Inc.

17

18 Audience speaker:

19

20 Matt O'Malley, Chief Intellectual Property Officer of

21 Cenoplex.

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1 LOS ANGELES, CALIFORNIA

2 TUESDAY, NOVEMBER 1, 2011

3

4 STUART GRAHAM: So, good morning, and thank you,
5 everyone, for taking the time to attend this important
6 public hearing on International Patent Protection for
7 Small Businesses, and the accompanying study, the United
8 States Patent and Trademark Office is conducting to
9 weigh the tools available to such companies looking to
10 compete in markets overseas.

11 Allow me first to thank our host, the Gould
12 School of Law at the University of Southern California,
13 with particular thanks to Professor Jonathan Barnett,
14 and everyone here who helped to make this hearing
15 possible.

16 I'd also like to take just a quick moment to
17 introduce the panel today of government participants.

18 I am Stuart Graham, I'm the Chief Economist at
19 the United States Patent and Trademark Office. I am
20 also the lead on this study of international small
21 business patenting.

22 Next to me is Martin Selander. Martin is joining
23 us from the Small Business Administration. And I will
24 allow him to introduce himself in his own comments just
25 following mine.

1 Edward Elliott is a Special Expert to the United
2 States Patent and Trademark Office to the Administrator
3 for Policy and External Affairs.

4 And all the way on my left is Saurabh
5 Vishnubhakat. Saurabh is an Attorney Advisor in the
6 Administrator's Office of Policy and External Affairs at
7 the USPTO.

8 As the USPTO director, David Kappos, and the
9 entire USPTO team is working diligently toward implementing
10 various provisions of the historic America Invents Act,
11 and ongoing dialogue with our user community is vital,
12 not only for us to remain transparent in the process of
13 enacting the new law, but also to ensure that your input
14 helps guide and shape how new provisions in the patent
15 system will play out.

16 That's why this study, like the other six studies
17 mandated by Congress under the law, focuses intently on
18 gathering the concerns, your experiences, and your
19 expectations in enforceable IP protection abroad.

20 And, of course, we are grateful to those who are
21 offering their testimony today, Christopher Palermo,
22 Bassil Dahiyat, Jay Kesan, Vern Norviel, and Philip
23 McGarrigle.

24 And for those that didn't preschedule to present
25 testimony, we still welcome all of you to chime in and

1 share your thoughts or reactions that you may have, to
2 encourage a thoughtful and well-rounded discussion.

3 Imbedded in the social contract between a patent
4 and the rest of the society is an acknowledgement that
5 the American marketplace awards hard work, innovation,
6 and creativity. But when we take a moment to examine
7 the way countries are doing business in the 21st
8 century, there is no question that information and
9 commerce are cutting across global borders with
10 increasing speed. And as innovators seek to tap into
11 markets abroad, it is imperative that the International
12 Patent System provide a consistent, cost-effective way
13 to obtain reliable patent rights in multiple
14 jurisdictions.

15 Without adequate education on the importance of
16 foreign IP protection, or what tools are available to
17 them to enforce patents overseas, small businesses are
18 often unable to defend their inventions against foreign
19 lawsuits, increasing uncertainty in the patent system,
20 and the increasing probability of copying, stealing, and
21 pirating content. That's why alongside the SBA, our
22 partners, this critical study gives us a chance to
23 earnestly evaluate your business practices with
24 intellectual property rights overseas, and to see how we
25 can devise a system that empowers manufacturers to more

1 readily acquire protections globally.

2 By reflecting on current work sharing models
3 offered through the Patent Cooperation Treaty and the
4 Patent Prosecution Highway being championed at the
5 USPTO, we can assess how existing tools can be shaped to
6 best help small businesses and independent inventors.

7 Moreover, your testimony today will shed light on
8 how financing these programs or general costs for
9 overseas filings impact upon your bottom lines and the
10 ability to develop your products.

11 This qualitative and quantitative data will allow
12 USPTO, the Small Business Administration, and all of you
13 to determine whether grants, subsidies, loan agreements,
14 or new work sharing models all together can best enhance
15 a small business's ability to compete in the 21st
16 century in our global economy.

17 Several components of the America Invents Act
18 were formulated with an eye specifically toward our
19 independent inventor and small enterprise users. From
20 discounts on prioritized examination tools, to pro bono
21 assistance programs, the America Invents Act firmly
22 acknowledges that small businesses, your businesses,
23 account for two out of three of all new American jobs
24 and are the life blood of our economic growth.

25 So the USPTO is working aggressively to ensure

1 that the small business community has the tools to
2 continue bringing technologies from the lab to the
3 marketplace as efficiently and effectively as possible.

4 That's why we're making a vocal effort to invite
5 our global trading partners to engage in serious global
6 patent harmonization talks, an effort aimed at promoting
7 a more standard set of patenting practices across all
8 regional jurisdictions that will cut down on costs and
9 redundant work for patent offices globally, as well as
10 to make it easier for businesses of all sizes to
11 participate in the global arena.

12 We have an important challenge ahead of us in
13 guiding the implementation of the Act. And while we're
14 making excellent headway, sharing your experiences and
15 thinking on international patent protections will enable
16 the USPTO to continue preparing the most accurate and
17 well-informed report possible, and to empower the USPTO
18 to build a balanced and effective innovation of
19 architecture that's the envy of the world.

20 So in summation, I encourage you not to hold anything
21 back, because we genuinely do look forward to your
22 insights today, and in the days to come.

23 Thank you.

24 And now for comments from the SBA, I turn it over
25 to Martin Selander.

1 MARTIN SELANDER: Thank you.

2 I want to thank you, Stuart. Thank you for the
3 kind invitation, and thanks to the USPTO. And
4 Dr. Barnett, thank you for hosting us.

5 I just have a few brief comments.

6 Again, I'm Martin Selander. I'm from the United
7 States Small Business Administration. I'm the Regional
8 Manager of our International Trade Office in Orange
9 County, here in Southern California.

10 So, just a few brief comments.

11 Small businesses are vital to our economy. They
12 represent over 99 percent of all firms in this country,
13 and over 50 percent of the workforce. And Stuart, as
14 you mentioned, they represent over 66
15 percent, two out of three, net new job growth over the
16 past 15 years.

17 Our agency, the SBA, supports small business
18 through capital contracting and counseling programs.
19 And this past year was an all-time record for our
20 agency. We assisted over 60,000 small businesses with
21 over \$30 billion in loan guarantees. And my office in
22 particular, the SBA International Trade Office, we
23 approved loans for over 1,500 exporters, totaling over
24 \$918 million.

25 Entrepreneurs and high-growth firms are

1 particularly different and important. They drive nearly
2 all net new growth job -- job growth each year. And
3 we're here today for the critically important task of
4 discussing methods for support of businesses like these.

5 As part of the America Invents Act, we are trying
6 to identify the best ways to support international
7 patent protection for small businesses.

8 This protection is a vital safeguard to support
9 innovation and entrepreneurship and for growth and
10 expansion, and also would help us to reach the
11 President's goal, the National Export Initiative goal of
12 doubling exports by the year 2014 to support two million
13 new jobs.

14 Exporting is certainly on an upward trend.
15 Exports increased in the year 2010 by over 20 percent.
16 And in the first calendar eight months of this year
17 through August, so far up 18 percent. Almost
18 \$1 trillion in exports through eight months,
19 \$988 billion.

20 So, I thank all of you for being here today for
21 sharing your thoughts on international patent
22 protection, specifically as we evaluate the need for a
23 loan program or grant program of subsidies to help
24 defray international patent protection costs. And I
25 look forward to participating and hearing your

1 invaluable thoughts and ideas.

2 Thank you, Stuart.

3 STUART GRAHAM: Great. Thank you, Martin.

4 The team here of government people not only want
5 to welcome you today, but also to offer you some
6 comments about the broader opportunities for
7 participation in the America Invents Act.

8 And I now ask Edward Elliott to chime in on those
9 issues.

10 EDWARD ELLIOTT: Thanks, Stu.

11 I'm here to tell you all about some of our
12 process for the studies that we're conducting under
13 AIA.

14 Congress has mandated the USPTO to conduct six
15 additional studies in addition to the International
16 Patent Protection Study that we're here to discuss
17 today.

18 These studies address prior user rights, genetic
19 testing, misconduct before the office, satellite
20 offices, virtual marking, and implementation of the
21 America Invents Act.

22 The USPTO will follow the same protocol for all
23 of these studies, will publish a Federal Register notice
24 seeking written comments, along with a public hearing to
25 receive oral testimony.

1 After collecting public input, the USPTO will
2 prepare its report and publish it for Congress. The
3 USPTO will also make its report available on the AIA
4 microsite for the public.

5 The prior User Rights study is running in
6 parallel with the International Patent Protection study.
7 Both of those have due dates four months from the date
8 the AIA was enacted. We held hearings last week for the
9 prior User Rights study and for this International
10 Patent Protection study at USPTO headquarters in
11 Virginia.

12 Between the two hearings we received testimony
13 from eleven witnesses. A record of those hearings is
14 available on the AIA microsite.

15 The USPTO will soon be turning to the Genetic
16 Testing study, publishing our Federal Register notice in
17 January 2012, and our report in June 2012.

18 The remaining studies will not be due until 2013
19 or later. So, please monitor the AIA microsite for more
20 information on how to get involved with these various
21 studies.

22 And with that, I would like to turn it over to
23 Saurabh Vishnubhakat, Attorney Advisor at USPTO.

24 Saurabh will provide more details about the
25 protocol for today, and the scope of the International

1 Patent Protection study.

2 SAURABH VISHNUBHAKAT: Thanks, Edward.

3 Thank you. I'm Saurabh Vishnubhakat. I am an
4 Attorney Advisor at the USPTO. And our office has been
5 given the responsibility to lead the study. And I'm
6 happy to be here, along with our colleagues from SBA, to
7 take testimony today.

8 In our request for information, which was posted
9 on October 7th in the Federal Register and in this
10 hearing today, we're seeking comments and information on
11 how best to address issues of international patent
12 protections for small businesses, and whether a Federal
13 program should be established for that purpose.

14 Recent economic research supported by the Ewing
15 Marion Kauffman Foundation has shown that nearly all net
16 job creation in the United States, present companies
17 less than five years old. Still other evidence from
18 research conducted at U.C. Berkeley shows that
19 entrepreneurs in technology sectors, from biotechnology,
20 to medical devices, to IT hardware and software, rely on
21 patenting to win competitive advantage, and to attract
22 capital so they may grow and create new jobs.

23 But the economy is often sent evidence concerning
24 the importance of international patenting to young
25 companies. It makes sense to all of us that if the

1 entrepreneur in the kitchen with a good idea today is
2 going to grow into the Facebook of tomorrow, actually
3 does better by preserving the options to grow into
4 global markets.

5 We know that we now live in an increasingly
6 global economy, and that internationalization strategies
7 with exporting, franchising, foreign direct investment,
8 are important pathways to job creation and growth.
9 But we know too little about the role played by
10 effective international patenting and enforcement. It's
11 supporting such internationalization and growth of the
12 youngest, most embryonic companies.

13 We are, therefore, pleased to have an excellent
14 set of speakers today to help us learn more about the
15 issues facing young companies, and as regard to their
16 international patenting, and whether and under what
17 circumstances a Federal program to support such
18 patenting may be useful.

19 As stated previously, the legislation interacts
20 with USPTO to investigate and report on at least two
21 options. One is to establish a revolving fund to loan
22 program, and the other is to establish a grant program
23 to small businesses, both to defray the cost of
24 international patent applications, maintenance and
25 enforcement, and related technical assistance.

1 Ideally, our report to Congress will include at
2 least the following information.

3 First, what role does the international patent
4 protection of patents play for small businesses? It is
5 a significant factor in helping small businesses to
6 internationalize and grow.

7 Are there certain circumstances or certain
8 industries and sectors in which that protection is more
9 or less important?

10 Second, what Federal programs already exist or
11 may be created to help small businesses with
12 international patent protection?

13 How can different Federal agencies, whether the
14 USPTO or the Small Business Administration, or other
15 agencies, better enable the small business entrepreneurs
16 who are seeking help, to actually get it?

17 And third, what role does the cost of
18 international patent protection play in small
19 businesses' willingness to take advantage of that
20 protection? Are there particular reasons why small
21 businesses need a different kind of program to enable
22 them to do what is in their best interest? And what are
23 the circumstances in which a revolving fund or loan
24 program would be appropriate? Is one approach or even
25 some different approach clearly better for accomplishing

1 the goals of supporting the internationalization and the
2 growth of small entities?

3 These three issues are the basis for the set of
4 questions specified in the Federal Register notice. And
5 we encourage those here today and anyone listening
6 through our live stream to consider responding and
7 offering information at sme patenting@uspto.gov. That is
8 [sme patenting](mailto:sme patenting@uspto.gov), all one word, @uspto.gov.

9 In the meantime, let's turn the program over to
10 live comments from several members of the public and
11 representatives of organizations who have expressed an
12 interest in these issues, and willingness to give
13 testimony.

14 To guide that process I will describe the
15 protocol here today for our hearing this afternoon. We
16 will invite each witness to come to the podium and give
17 testimony. On the agenda, we have provided each witness
18 25 minutes for testimony and questions, but we are not
19 pressed. So each witness should feel free to take as
20 long as appropriate.

21 After each person's testimony we will open the
22 floor for questions from the panel as well as the
23 audience. If you are a member of the audience and would
24 like to ask a question or make commentary, please come
25 to the microphone in the center aisle right here, please

1 state your name followed by any entity you may
2 represent.

3 So with that, I will turn it back to Stu to
4 introduce our panelists.

5 STUART GRAHAM: Thanks, Saurabh.

6 So without further ado, let me turn it over to
7 members of the public who have voiced an interest in
8 making scheduled testimony.

9 The first of these people who should be arriving
10 by phone is Mr. Christopher Palermo.

11 Christopher, are you with us?

12 (Telephonic appearance by Christopher
13 Palermo.)

14 CHRISTOPHER PALERMO: Yes, I am. Good morning.

15 STUART GRAHAM: Good morning.

16 Christopher is a partner at Hickman, Palermo,
17 Troung & Becker, and practices in prosecution, licensing
18 and technology development, including an active practice
19 in Europe, Japan, and China. He has over 20 years of
20 experience in IP law, primarily advising networking
21 telecommunications and software firms.

22 Christopher, we now look forward to hearing your
23 comments.

24 CHRISTOPHER PALERMO: Thank you for the
25 opportunity to participate today. And I regret not

1 being able to be there in person.

2 I'd like to begin by noting that my frame of
3 reference is somewhat narrow. My practice has been
4 almost entirely in Silicon Valley working with
5 applicants in the software networking and computer
6 technologies. And therefore, my comments are
7 essentially biased by that type of practice. And there
8 may be other speakers whose perspectives are quite
9 different.

10 Most of the start-ups with which I work do not
11 express significant interest in foreign patent filings
12 at the early stages of the business. But some do, and
13 for them the cost of the process is material and
14 daunting. Because of the costs, most of them defer
15 filing as long as possible.

16 They use the entire Paris Convention priority
17 year to defer these costs. They also view PCT
18 essentially as a fee deferral system, mainly because the
19 international search reports prepared for their
20 technologies result in a limited amount of useful
21 information, and because examining standards for
22 IT-related subject matter differ greatly around the
23 world, making centralized amendments. And through the
24 PCT system it is not particularly useful. They prefer
25 to wait for a national stage prosecution.

1 These SMEs also tend to see foreign patents as a
2 lower priority in the early stages of the business.

3 Their priorities tend to be finalizing product
4 design, and marketing and sales, to result in winning in
5 the marketplace, and obtaining a U.S. patent position in
6 the first -- as a first priority, taking advantage of
7 the U.S. grace period.

8 Venture Capitalists and other early-stage
9 investors in the IP businesses that I have worked with
10 tend to view patent exclusivity as a secondary factor
11 because the real problem that they face first is
12 competing in the market against established larger
13 companies on the merits of product features and
14 functions.

15 Patents, however, including overseas patents,
16 become much more important in years three and later of
17 the business when the future is more apparent. Second
18 -tier investors have entered if a funding source or a
19 revenue stream exists.

20 And before addressing the merits of Government
21 grants or loan programs, which are the subject of part
22 of the Federal Register notice, I think we need to
23 review the context of all sources of the high cost of
24 patent filings. I've identified at least five
25 components of this high cost that I think are good to

1 bear in mind as we consider the situation.

2 The first is official fees. Official fees for
3 filing are higher in most foreign jurisdictions than the
4 U.S., and there are no small entity discounts typically.

5 In the European Patent Office, excess claims fees
6 are particularly high.

7 The second component is official annuities or
8 taxes. Pre-grant annuities or taxes can be considerable
9 and can represent a serious unanticipated cost over time
10 if the examining backlog of the patent office is long.

11 For an example, for an SME considering filing in
12 the European Patent Office, the prospect of paying a tax
13 of \$500.00 to \$1,000.00 per year for eight to ten years,
14 which is a common examining backlog in the EPO, in the
15 IT space, can be a serious deterrent to filing.

16 Stated another way, the time involved, the
17 backlogs involved represent a source of costs to SMEs in
18 the foreign patent process.

19 A third component is translation costs. SMEs
20 typically cannot negotiate for discounts with
21 translators overseas. They're almost always based on
22 volume, and an SME may not have enough to justify a
23 discount.

24 A fourth component is U.S. outside counsel, if
25 they are used. Some applicants, of course, file

1 directly on their own. Some U.S. attorneys provide
2 discounts in working with SMEs, recognizing that they
3 add value in counseling and management, rather than just
4 the mechanics of filing. But other firms see foreign
5 filing as a profit center and price it accordingly.

6 And finally, a cost component is foreign outside
7 counsel used as filing agents for foreign patents.
8 Discounts for SMEs are rare overseas, if they're
9 available at all. Fixed costs and hourly rates for
10 attorneys in places like London or Tokyo are perceived
11 to be significantly higher than those of their U.S.
12 counterparts. And foreign law firms and agents
13 typically don't have the kind of culture that we find in
14 California, and in particular for serving small
15 entities, and seeing them as an opportunity for future
16 prosperity or benefit.

17 Procurement costs, which I've just reviewed, also
18 need to be seen as only a portion of total overseas
19 patent costs. The cost of enforcement is significant.
20 And I would encourage the panel to keep in mind whether
21 a program results in increased patent procurement will
22 really be a true benefit to an SME if that entity is not
23 in a position to spend much higher costs involved in
24 enforcement in, say, the courts of Germany or England.

25 Now, finally -- well, the inability of an SME to

1 procure patents at reasonable costs is also not the only
2 foreign patent issue that SMEs face.

3 For example, some SMEs may have an interest in
4 opposing or invalidating the foreign patents or
5 applications of others in order to obtain greater
6 freedom of action. I would suggest that the panel
7 should also bear in mind that a funding or grant program
8 might be more beneficial if it also provides a funding
9 source for SMEs to attack applications or patents of
10 others rather than merely procuring them.

11 It's very hard to judge whether the social
12 benefit to an SME is greater in procurement or in
13 removing applications of others that pose barriers to
14 entry.

15 Now let's turn to the mechanism for addressing
16 some of these high costs. The Government loan or grant.

17 One of the issues I think some would have with a
18 loan or grant program if it's funding from taxpayer
19 dollars, is whether the movement of taxpayer dollars
20 into the foreign patent offices to benefit SMEs
21 represents good policy overall.

22 A cynic's view of certain overseas patent offices
23 is that they appear to offer somewhat less value than
24 the USPTO does.

25 The backlogs in the European Patent Office in

1 particular are very difficult for Americans to
2 understand, and for fast-moving Silicon Valley SMEs in
3 particular.

4 The perception is that EPO examiners are working
5 fewer hours and have overall less productivity, and also
6 have very generous government-based benefit schemes.
7 And so from a policy perspective, Congress may have to
8 justify to the American taxpayer why it's beneficial to
9 move tax money into those benefit schemes on an indirect
10 basis.

11 In addition, a policy challenge posed by a loan
12 to grant program is how to choose which SMEs should
13 qualify. My experience is that a material percentage of
14 SMEs in Silicon Valley and elsewhere are going to fail
15 or have management who may be poorly positioned to grow
16 a company or pursue products. And it may be very
17 difficult for government to separate SMEs deserving of a
18 loan or grant from those that are mechanically not going
19 anywhere.

20 And finally, as a policy matter, it seems
21 appropriate to ask whether at least some of the burden
22 of financing SME patents overseas ought to fall on large
23 entities. Large entities tend to dominate the patent
24 system because of their ability to pay high official
25 fees, file large numbers of cases, and wait out the

1 resulting backlog periods involved in foreign patenting.
2 One could ask reasonably whether the large-volume filing
3 by large entities is a contribution to the cost faced by
4 SMEs in the system.

5 So for all of these reasons I tend to disfavor a
6 Government loan to grant program. But I do have a
7 couple of alternatives to offer, and then I'll conclude
8 my remarks, and would welcome questions, or just the
9 next speaker.

10 One alternative is a tax credit approach.
11 Government and Congress could consider establishing a
12 research development tax credit that provides a
13 dollar-for-dollar credit against either investors,
14 capital gains taxes, realized at the exit of an SME
15 investment or against SME corporate income taxes
16 credited for every dollar that is proved to be spent on
17 foreign patent activities.

18 And in this context, foreign patent activities I
19 think should include spending on both invalidation and
20 opposition, as well as procurement.

21 The second possibility is that the USPTO could
22 establish a new line item fee surcharge, such as \$5.00
23 applied to every new margin to the application filing,
24 or \$1.00 applied to each filing of the paper by a large
25 entity, and then grants or a loan, those collective fees

1 to SMEs for foreign patent activities. This would
2 reduce some of the -- or eliminate some of the policy
3 challenges involved in using taxpayer funds and place
4 the burden of funding SME foreign patents on large
5 entities who tend to dominate filings overseas. It also
6 increases transparency and awareness of the program, as
7 filers will see the surcharge each time that they use,
8 for example, EFS-Web to complete a submission.

9 Third, I suggest that there should be some effort
10 to use existing funds to try to communicate with
11 overseas patent offices. The key ones: EPO, JPO, CIPO
12 in China, KIPO in Korea, are the top filing
13 jurisdictions directed to achieving a discount scheme
14 for official fees charged to SMEs that are similar to
15 the U.S. small entity system. One can reasonably ask
16 why the U.S. stands alone in having a small entity
17 discount system. Now, these countries need to see that
18 fostering SME growth will have benefits downstream.

19 And finally, some sort of similar outreach could
20 be directed to overseas providers of legal services,
21 translations, and annuity payment services. You will
22 remember that we identified these as some of the
23 component costs for high SME overseas patent costs. One
24 could envision, for example, a sort of SME support
25 pledge that these providers could sign, perhaps a banner

1 for their websites indicating an endorsement of a
2 reduced cost approach for SMEs. All of these approaches
3 might contribute to improving the situation for small
4 enterprises seeking foreign patents.

5 That concludes my prepared remarks, and I welcome
6 any questions, or the next participant.

7 Thank you very much.

8 STUART GRAHAM: Thank you, Christopher, for those
9 excellent comments.

10 This is Stu Graham. I have a couple questions,
11 then I'll open it up both to my Government colleagues on
12 the panel here, and also to the audience.

13 I'm very intrigued by your alternatives, and I
14 would like to ask you a couple questions about them.

15 In terms of your recommendation for some sort of
16 tax credit mechanism, it dovetails on another issue that
17 was brought up at the hearing last week. One of the
18 members of the public who had experience in
19 entrepreneurship had mentioned that help in patenting is
20 much more important upfront when the company is
21 cash-constrained for the initial set of fees, and much
22 less important for things later on, such as -- and these
23 came from the testimony of that person -- enforcement
24 and maintenance fees.

25 So, I wondered how that maps onto your

1 recommendation for a tax credit, particularly as regards
2 your suggestion that possibly the tax credit could be
3 used against investors' realization of income, because
4 of course in the early running of these small companies,
5 precisely at the time that they're most
6 cash-constrained, won't have the income against which to
7 enjoy such tax credits.

8 Any thoughts about that?

9 CHRISTOPHER PALERMO: Yes. Very valid point.
10 However, I think, in my experience, at least, is that
11 the bulk of the costs incurred in foreign patenting
12 occurred well after the first year. Initial application
13 fees are not small, you know, \$5,000.00 to \$10,000.00,
14 perhaps, per application. But the annuities, and that's
15 due to the prosecution costs, which are typically
16 encountered four, five, eight years later, are much
17 greater than that; typically three to four times. So
18 the overall cost of obtaining a patent, say, in Europe,
19 I would guess that the initial application fees and
20 costs are on the order of 25 percent, perhaps 30 percent
21 of the total cost. So I think that the credit approach
22 wouldn't be attractive for that 70 percent that's
23 incurred in much later years.

24 STUART GRAHAM: Thank you.

25 Any other questions from the panel?

1 SAURABH VISHNUBHAKAT: Mr. Palermo, this is
2 Saurahb Vishnubhakat.

3 You mentioned a delay from waiting until the
4 national stage was significant in the international
5 arena, and then also delay from international backlogs
6 was significant in terms of getting from filing to grant
7 overseas.

8 I was wondering if you could comment on which is
9 more significant, whether waiting for the national stage
10 is really all that meaningful in light of the seven-,
11 eight-, ten-year backlog that's already waiting. And
12 also if waiting till the national stage because of IP
13 standards can be managed somehow through work sharing
14 and the Patent Prosecution Highway and other
15 initiatives?

16 CHRISTOPHER PALERMO: Yes, that's an excellent
17 point. I think there is a dearth of knowledge among
18 SMEs, typically about those acceleration mechanisms and
19 their benefits. And we can do better in the private bar
20 in educating SMEs about opportunities to use PPH in
21 particular.

22 So, I think that is very valid.

23 I think what they seek to defer is simply the
24 national filing. The national official fees for filing
25 in multiple jurisdictions will represent a significant

1 cash outlay, and that's what they're seeking to defer.

2 But I agree, the PPH and similar mechanisms can
3 be very effective, and we need to do a better job about
4 educating SMEs on the use of those.

5 SAURABH VISHNUBHAKAT: Thank you.

6 STUART GRAHAM: Thank you very much.

7 Edward Elliott.

8 EDWARD ELLIOTT: Hi, Christopher.

9 I have a question about your idea for funding a
10 small entity program based on a surcharge to higher
11 entities when they file at the patent office.

12 What is the policy rationale behind that? Is it
13 the idea that larger companies oftentimes benefit down
14 the road from these filings by smaller entities, because
15 they buy out the company directly, or they somehow
16 license or acquire the technology?

17 CHRISTOPHER PALERMO: No. It's actually -- and I
18 can't say it's based in evidence. It would need study.
19 It's based on the perception that large entities, to
20 some extent, are responsible for the backlogs, and
21 therefore, the high costs that SMEs face in the overseas
22 patent offices, simply because large entities file more
23 cases, and because, frankly, the overseas patent
24 offices, can charge the high official fees that they do
25 because they can get them from large entities. So if

1 large entities are the indirect cause of those high
2 costs, then the policy rationale is that they ought to
3 support almost a rebate scheme, if you will, for SMEs.

4 But your point is actually very interesting to
5 me. And the more I think about it, it is a valid
6 additional policy justification to say that it's in the
7 interest of large entities to have an ecosystem of small
8 businesses that are innovative, having access to the
9 system and developing strong portfolios that will be
10 valuable in later acquisitions. I think that's a very
11 attractive rationale.

12 EDWARD ELLIOTT: Okay. Thank you.

13 STUART GRAHAM: Thank you.

14 Any members of the audience have a question for
15 Mr. Palermo?

16 (No questions from the audience)

17 All right. Seeing none, Christopher, I thank you
18 very much for your testimony. And I encourage you to
19 stay on and listen, although I know that with your
20 business, you have a lot of activities.

21 CHRISTOPHER PALERMO: Thank you for the
22 opportunity.

23 STUART GRAHAM: Absolutely. Thank you.

24 Okay. Next on the schedule of testimony is
25 Dr. Bassil Dahiyat.

1 Dr. Dahiyat is the cofounder and CEO of Xencor,
2 and a developer of the Protein Design Automation
3 technology.

4 Dr. Dahiyat is an inventor of over 60 patents and
5 patent applications. And I invite him to stand up in
6 person and offer his testimony.

7 DR. BASSIL DAHIYAT: Thanks, Stu.

8 This is a topic that I'm coming to you from the
9 outside. I'm not a lawyer, I'm not a practitioner, but
10 my company pays a lot for patent protection and we spend
11 a lot of time on patent activity.

12 So a little bit of background.

13 I'm a biophysicist at Xencor. That's the company
14 I work for. And I'm the CEO of Xencor. It was founded
15 about 14 years ago as a spinout from Caltech in
16 Pasadena, California. We are a biotechnology company.
17 We create new pharmaceuticals. We use our technology to
18 redesign old pharmaceuticals and design new ones that
19 have more effects, to last longer, and to be more
20 beneficial to patients.

21 Currently we have five of our molecules being
22 tested and used in clinical trials. As an example,
23 international and pharmaceutical businesses. We're a
24 very small company with 30 employees. We do a lot of
25 outsourcing of our workload, but it's all in the United

1 States. But of those five clinical trials, two are
2 taking place outside of the United States, about half of
3 our revenue. And we are about a break-even company now,
4 so we spend well over \$10 million a year on clinical
5 development work, and we bring in similar kinds of
6 revenue, half of that's coming from outside the United
7 States from pharmaceutical or other biotechnology
8 companies that are licensing our technology or accessing
9 our tools.

10 The basis for our business is that we do have a
11 strong intellectual property portfolio, and obviously
12 the international component of that is a critical
13 driver. So I'm going to give some perspective about how
14 biotech companies do work, and how I think now, with
15 some retrospect, I think they ought to work.

16 So, international protection is critically
17 important because it is completely an international
18 business. There's no such thing as a national
19 pharmaceutical company anymore, in any developed country
20 at least. So, having foreign intellectual property
21 protection is pivotal. You have to establish that at
22 the outset of your company. And that's a mistake that
23 some companies I think still do make, is that at their
24 founding they don't see international protection as
25 worth the money, because the costs that were outlined by

1 the last speaker I think were spot on. I think he does
2 discount that the largest single cost is lawyer time. I
3 don't know how you're going to fix that one. Maybe
4 that's not a Government problem. But certainly the
5 translation costs, the foreign filing fees, and the
6 annuities do add up.

7 Everything that the first speaker said about what
8 happens in the software industry is slightly changed,
9 and put a twist on the pharmaceutical industry, because
10 our product development cycles are very, very slow,
11 because we have to test our products on human beings,
12 and there's very heavy regulatory enforcement of the law
13 with that testing. So a company that's seven or eight
14 years old in the biotech industry could just be getting
15 into its critical clinical trials after four or five
16 years of prior development to refuse early clinical
17 testing. And they would have had to have raised
18 enormous amounts of money to do that. So, for example,
19 Xencor, my company, a relatively small company, has
20 raised over \$140 million in venture capital investment
21 over the years to fund our work. And we brought in more
22 than that in money from partners and from licensing, and
23 it was all spent on developing products.

24 So the extra time lag that you have is obvious
25 that it's sort of contrasted with needing to be able to

1 access the capital sources and the partnership in
2 markets all over the world, which means you have to
3 really get into the foreign patent files. And the real,
4 the rubber hits the road, and everything the prior
5 speaker said about using the PCT timelines, and all
6 that, is like a delaying tactic. Right? If you file
7 nationally, you get 30 months, and all that other stuff.
8 It does hit, and it hits right at the worst times for
9 small biotechs. And it particularly hurts the companies
10 that are not as well in the mainstream of the
11 biotechnology industries that are trying to often bring
12 new or different ideas, or are not operating in either
13 Silicon Valley or Cambridge, Massachusetts, and that
14 have the access to the venture capitalists. And so
15 you'd end up in a situation where companies are sort of
16 just ignoring some of their future by not prosecuting
17 their patents foreign, or at year four they just go, "I
18 just can't afford to pay, you know, \$20,000.00 for
19 translation fees for EP."

20 And similarly for companies like Xencor, we often
21 prune our patent tree a little more aggressively than we
22 would, because we have to prioritize and say, in these
23 cases, we're going to go national, we're going to file
24 the translation fees. Or even, you know, we just had a
25 case allowed in Europe by the EP for a pivotal piece of

1 technology that existed in three of our molecules that
2 are in clinical testing, two of which were partners
3 whose downstream payments to us depend on patents being
4 issued in the various countries. And we simply didn't
5 pay the final fee for allowance as biotranslation of
6 claim into some of these major European markets because
7 it was too damn expensive. And this is year seven of
8 that patent; right. So these are real problems that
9 have an impact not just for the tiniest companies, but
10 even for a little bigger company like us. And it's
11 because our product timelines are too long, and
12 certainly different from the software companies.

13 So, you know, the trick for us is how do we get
14 our product candidates to the point where somebody's
15 willing to pay significant money for them and, therefore
16 take over the development costs, maybe the patent costs.
17 Or by taking over development costs allows us to protect
18 our IP portfolio more effectively, or for an even
19 littler guy to really do it. And it's that sort of
20 valley of death between sort of year three or four when
21 the money really starts to have to get spent on foreign
22 prosecution, and you know, for biotech companies, maybe
23 year seven or eight, or even out beyond that.

24 And so, you know, the mistakes that people make
25 by not foreign filing do end up cutting into you. Like

1 I said, you know, half of our revenues are from
2 overseas. Our third largest investor is a foreign
3 pharmaceutical company. So that's the background of how
4 a biotech might differ a little bit. And the
5 pharmaceuticals generally, I would say, not just
6 biotech, but from broader pharmaceuticals, we differ
7 from software. Venture capital investors and large
8 companies that you have to work with in pharmaceutical
9 industry are very sophisticated in international
10 patents, and they value them very highly. And they
11 discount you if you don't have it. Right. They just
12 simply will discount a program if you don't have
13 international protection. "Well, this is a U.S.
14 product, why should I pay all that money if can't meet
15 two thirds of the marketplace, or if I can, but some
16 other joker can come in and just, you know, generic me."
17 Right. Because in pharmaceuticals, patents are real and
18 they're important. And they don't just lose sight. And
19 the largest pharmaceutical in the world is Lipitor. It
20 was invented 20 years ago. It doesn't happen in
21 software. Who has a 20-year-old software? So
22 that's a perspective shift that our industry really
23 needs.

24 And so, going on to specific points that were
25 raised in the RFC. I'll try to, quickly

1 address them and not be too redundant.

2 So the first question was, are international
3 patents important. And again, from my little
4 myopic world view of the pharmaceutical industry, yes,
5 they are, for the reasons I just stated.

6 It's an international business, and it's a
7 necessity to get partnerships to fund other
8 pharmaceutical companies, and continue funding in the
9 pharmaceutical industry. You just can't bootstrap your
10 way into developing new drugs. It doesn't happen. And
11 we're about as bootstrapped a company as you can
12 possibly have, and we've been about 50/50, and that's
13 because we generate technologies we can license, we're
14 not just a product. And we're lucky in that regard.

15 So I think questions 2 and 3 are related to that
16 in terms of timing. Right away you need to
17 start filing foreign in the pharmaceutical industry.
18 VCs and the pharmaceutical companies who are licensed
19 are very strict about that. But you get a freebee for
20 three or four years, because of the timing of it. And
21 that national phase is where the money is, by the way.
22 That's when you get the list of translation costs and
23 filing fees. And it's a little list you get from your
24 lawyers. EP is \$12,000.00; Japan, \$19,000.00; you know,
25 Jakarta in Indonesia, all these ones, and you just

1 triage it. And so that's when it really, really hits,
2 and that's when it starts really getting troublesome.

3 So, you know, if you make a bad decision there,
4 it really, really, really hurts you. And I know this
5 from retrospect from my own experience. The value of
6 the equation is reducing and negotiating leverage with
7 the companies you need for further development of your
8 products, and to ultimately market your products.

9 A specific instance where being able to have
10 foreign patent rights is critical in the pharmaceutical
11 industry is -- one of the most effective business
12 strategies for a small company in our industry is to
13 segment the international rights of a product by region.
14 And it makes a lot of sense. There's different
15 regulatory authorities. So in Japan versus the European
16 Union versus America, a product's going to have a bit of
17 a different lifecycle of time, right. Yours is going to
18 get approved sooner in America and later in Japan, or
19 whatever. And so you can sell the rights to your
20 product for the Japanese markets, and generally
21 significant funding, and also get support to help you
22 drive forward the U.S. development and, therefore,
23 advance the product, increase its value, and get a much
24 better partnership with a lot more money, a lot more
25 ability to grow your company, and keep funding the stuff

1 you've got behind it, by, having somebody pay
2 in a sense for you to build in America, because they
3 wanted what you had for Japan. Very common strategy,
4 very effective strategy. It's widely used. Because,
5 again, in pharmaceuticals, if it's not patented, people
6 will laugh at you. Because a Teva and a Mylan will just
7 make it off patent and sell it for a tenth of the price,
8 because they didn't have any development costs to worry
9 about.

10 So without having foreign patent rights, you
11 can't do one of the most successful and important
12 strategies for a growing biotech company that wants to
13 develop products.

14 One of the things the Federal Government can do,
15 to go to the next point, and this is coming from, again,
16 my myopic perspective, my experience in how my company
17 has dealt with U.S. and foreign filings, is it in some
18 ways to have more cooperation. And to get
19 multi-jurisdiction bang for the buck you're spending in
20 one jurisdiction will be extremely valuable. To be able
21 to have a European search report, or an international
22 search report be useable for the United States, or vice
23 versa, to have that -- you know, for one dollar you pay
24 to get not just the low direct costs of the
25 jurisdiction, but to get some certainty sooner, not

1 having to wait.

2 In contrast to the prior speaker, in our
3 particular area, our particular subsection of biotech,
4 the U.S. Patent Office is slower, it is lower quality,
5 and it is less consistent than the EP, the Koreans, and
6 the Chinese Patent Office. And I can see that in direct
7 experience. And I don't know whether that's just bad
8 luck on our part, or if that's a general pattern, but as
9 a result we had to actually leverage foreign prosecution
10 to demonstrate the value of our patent portfolio and
11 give potential partners confidence that we're going to
12 have worldwide coverage.

13 But having programs like the Patent Prosecution
14 Highway, which in theory sounds awesome, and I know my
15 company is looking very hard on how to use that, that's
16 a terrific thing to do, to get more bang for your
17 buck.

18 I'll be honest, I talk to a lot of different
19 people, not just my patent lawyers, other patent
20 lawyers, friends of mine from grad school who are now
21 patent lawyers, there's an enormous amount of skepticism
22 that the PPA will ever amount to anything, because
23 there's just this kind of, attitude that,
24 well, they actually got to make it work, and
25 there's no way in hell the patent office is ever going

1 to cede control to somebody else, to look at somebody
2 else's search. I don't know whether that's true or not,
3 but that skepticism is widely shared by many. I hope
4 it's not true. But that kind of program can really make
5 a difference. If the Europeans would take the
6 American examiner's take on things, and you could have
7 suddenly your patents, boom, all at once go, or vice
8 versa, that would be fantastic. You wouldn't have to
9 spend money doing that. So I think somehow finding ways
10 to further harmonize and simplify how the international
11 system works relative to the U.S. system would be
12 fantastic.

13 Regarding the specific nature of a program to
14 assist small companies, I don't understand how a grant
15 program versus a loan program would play in terms of
16 political support or for anything like that, or even be
17 easy to implement and execute. But I could say that the
18 feature of a program needs to be sustainable. If
19 there's no confidence that it's going to be there in two
20 or three years, it won't be used, and it won't help.
21 Certainly our timelines for prosecution patent and
22 product development are a decade long. So it has to be
23 sustainable. It can't be seen as risky or short-term,
24 regardless of the funding mechanism. And so that means
25 when I read it, grants for a loan program, my skepticism

1 radar went up. A new guy gets elected to chair, and
2 it's gone. So what's the good of it? So that's a fear
3 factor for me. And the prior speaker's comments on
4 perhaps some kind of additional surcharge or fee for
5 large entities, that can be in a transparent way used to
6 fund some of program, I think that would be great. And
7 I thought the policy points that were raised by him were
8 exactly spot on.

9 Large companies do add the majority of the load
10 to the system. And without that, everything would be a
11 lot faster.

12 I think also there has to be some competitiveness
13 to a process if there's limited dollars to support the
14 most commercial viable technologies. But it should
15 allow for longer timeline technologies to compete. So
16 I've been involved in lots of different scenarios with
17 either investment groups or business point competitions,
18 and one of the issues always is, let's make
19 revenue a criteria. Okay. So some software company is
20 selling a new search widget for your desktop and they
21 made \$3 million this year. A biotech company that might
22 have, something that's going to help treat,
23 patients with an intractable disease isn't
24 going to make revenue for another four years, or maybe
25 even they won't ever make revenue. They'll get bought

1 and face the clinical testing. You have to account for
2 that somehow, that different industries have different
3 criteria of interest. And biotech pharmaceuticals
4 shouldn't be left out.

5 You have to, of course, consider the nature and
6 strength of the applicant themselves. Without a strong
7 sponsor, no technology is going to succeed. And we
8 shall allow the companies that have received some kind
9 of partnering or capital, it shouldn't be just limited
10 to individual investors.

11 I think the idea of a tax credit, I'm skeptical
12 would make a difference. Again, most of the small
13 companies, certainly pharmaceuticals, but I'm betting
14 most software companies and technology companies can't
15 use a tax credit because they don't have income, just
16 like what Stu said. I think that the idea that you
17 could have investors apply to actually reduce their
18 capital gains taxes won't be helpful at all because it
19 doesn't affect tax flow, which is what it's all about.
20 So I'm skeptical that's going to be meaningful
21 at all. And even for a biotech company or a
22 pharmaceutical company, year seven and eight you're not
23 making revenue anyway, or you're making it at a loss.
24 We've got to spend every nickel we make
25 just to keep driving forward our programs, otherwise

1 what's the point of our company.

2 So I would leave that as my comments. I think
3 it's great that there's thought about how this might
4 happen. And maybe if there's ways to structure a
5 program for grants or loans that could be competitive,
6 fair, transparent, and not be, you know, subject to
7 political whim, it could be very effective, because this
8 is a big problem in certain ways.

9 So that's my comments.

10 If there's any questions, I'll be happy to
11 address them.

12 STUART GRAHAM: Thank you, Bassil.

13 I have a couple of questions.

14 So this is Stu Graham, for those on the phone.

15 A couple of questions about the way your company
16 born, and also some of your closing comments.

17 So, first is, I'm intrigued, and we actually
18 haven't heard anything yet about the university spin-off
19 licensee interface, and the way in which that might play
20 a role in this issue.

21 If you have any comments, and if you don't,
22 that's fine, but if you do have any comments about how
23 the universities, or maybe just in your particular
24 instance, have been working at understanding this global
25 patenting phenomenon, particularly for the small

1 companies that they're interacting with, I would be
2 interested in hearing that.

3 BASSIL DAHIYAT: Sure.

4 STUART GRAHAM: And secondly, I'm wondering, and
5 this always strikes me as, you know -- the economist in
6 me, I mean, I recognize there are a lot of market
7 failures in the markets for entrepreneurial capital.
8 But I'm wondering why it is that between years three to
9 seven, if you have any opinion, why isn't the market
10 working sufficiently? Why can't a company demonstrate
11 effectively that it will have -- you know, that it at
12 least has the prospect of earning revenues so that it
13 can collect the kind of capital that is necessary for it
14 to make the investments that are in its and its
15 investors best interests in foreign patenting.

16 BASSIL DAHIYAT: Right. So I will address the
17 second point first.

18 I think the markets work in the sense that
19 companies can get capital. I think it's always scarce,
20 it's never enough, it comes with a lot of strings, and
21 it's very expensive capital, and so therefore, it's
22 scarce. And so you use it, and you meter it out in very
23 small aliquots, because you don't know when you'll be
24 able to get more, and you don't know what kind of
25 business hiccup or technical hiccup will make it more

1 difficult for you to get more. Maybe your plan was
2 we're going to achieve, complete your phase for testing,
3 and that will allow us now with new data to generate
4 more investment interest and investor capital, and,
5 oops, something happened, we're delayed nine months in
6 the clinic. You're going to run out of money unless
7 you're very careful with that money. And facing, you
8 know, \$89,000.00 to advance patent prosecution of a case
9 is one of the things that gets chopped off the bottom,
10 at least in my business, and I'm suspecting in others.
11 So I think it's a matter of, it's hard to live
12 for the future when you don't know if you have one. So
13 long-term planning is really hard in the entrepreneurial
14 world. And I think that's why entrepreneurs do such a
15 good job at being innovative, because there's nothing that
16 motivates you like hunger, but you lose things along the
17 way. So I think that's why -- that's my discussion on
18 the industry.

19 Everything has gotten more difficult and tighter
20 over the last two or three years since the financial
21 crisis. It has impacted venture capitalists enormously
22 throughout all sectors. I think the predictions in
23 biotech are anywhere from 50 percent to 70 percent of
24 VCs won't exist after -- you know, the fallout takes a
25 few years. There's a time constant there. So I think

1 it's going to get harder.

2 So these extra things where you can get
3 non-diluted ways to deal with long-term problems, and in
4 particular, if the only way that you can use that
5 capital is to deal with a long-term problem, I think it
6 helps.

7 Now going to the university side. From my
8 experiences, not just of the founding of our company,
9 but we're constantly dealing with universities around
10 the country, and around the world, actually, licensing
11 in technology because, things keep advancing.
12 My perception is their general goal and
13 hope is they don't have to go international before they
14 license to somebody. They've got that time window, the
15 time frame to national phase to get it all done before
16 they have to spend a lot of money. And they won't do it
17 if they haven't found a licensee to pick up the burden
18 of the costs. They just simply won't do it. So
19 international protection will sort of go away. And what
20 ends up happening, then, is a lot of stuff gets dumped
21 into the public domain as a result from the university
22 transfer system.

23 STUART GRAHAM: Thank you.

24 BASSIL DAHIYAT: Again, that's my perception from
25 my dealing with and trying to purchase some license

1 technologies over the last, decade.

2 STUART GRAHAM: Other members of the panel?

3 SAURABH VISHNUBHAKAT: One quick question.

4 You spoke a little bit about the
5 relative quality that firms tend to perceive. I was
6 wondering if you could clarify, are you talking about
7 patent quality in terms of likelihood of being upheld in
8 litigation, or these costs they're being designed
9 around, or some other interests?

10 BASSIL DAHIYAT: So, I didn't mean patent
11 quality, I meant the examination quality, to be
12 specific. I meant the consistency of the examination
13 across, say, different examiners, or whatever the proper
14 term is before jurisdiction. I mean, let's see.
15 What's the best way? The quality of examination,
16 because the patent examination process might take three
17 or four years. During that time we try to do business
18 with other entities, investors, or companies that might
19 want to license that patent, when it gets
20 issued. So they're dealing with it. And these people
21 have sophisticated lawyers who have been in this
22 industry for many years who do due diligence on your
23 portfolio. And the ability to have sensible and
24 predictable results from a patent office that match with
25 what sort of a bunch of different companies might see as

1 what the law might be, is what I'm referring to. I
2 found that consistently in our arc area. We're the
3 monoclonal antibody drug arc area. The foreign patent
4 offices, in particular the EP, are just better, more
5 consistent, more logical, more in sync with what
6 sophisticated buyers that I'm selling to, want to have.
7 And so, you know, it's just better technical quality.
8 And so that predictability is enormously important in
9 raising capital and doing deals. And again, I have one
10 myopic window on the one or two arc units in an enormous
11 institution at the PTO.

12 STUART GRAHAM: Other questions?

13 Okay. A member of the audience. Can you please
14 identify yourself?

15 MATT O'MALLEY: Sure. Matt O'Malley, CIPO, with
16 Cenoplex. Just adding on to that exact same comment, if
17 I may.

18 You said that the EP is typically much better in
19 China or Japan on your particular arc unit. You are
20 using the U.S. as your receiving office, I assume, for
21 your PCT?

22 Okay. I guess that's kind of a commentary in and
23 of itself that the EP is actually beating the process in
24 terms of efficiency and speed.

25 BASSIL DAHIYAT: Yes. So, you know, the first

1 restriction is usually 30 months in our area in the
2 USPTO. And then you'll have some back and forth, and
3 things just get delayed and delayed and delayed. But
4 what happens is the biggest delays comes from an
5 examiner doing a bad job of not getting it, and simply,
6 you know, creating an enormous amount of additional work
7 for you to have to do in-person interviews and after
8 final kinds of actions, or RCEs. RCE is just the death
9 of a patent. The money goes through the roof. And the
10 biggest fees are the lawyers. The biggest fee is not --
11 the translation fees and the national filing fees
12 approach that, everything else is dwarfed by the legal
13 fees. That's the biggest fare of entry. But I think
14 what happens is you have bad examinations, and then they
15 go, "No, I just dont get it. I'm not going to allow
16 it." And you go, "ah." And it's that examiner who is
17 three doors down from you, allowed something from one of
18 our competitors that was very similar, with the same
19 facts. Let's try this again. And then two years later,
20 "Oh, okay. Fine." That's what I'm referring to.

21 MATT O'MALLEY: So the EP is actually --

22 BASSIL DAHIYAT: Much better.

23 MATT O'MALLEY: -- beating the speed of the U.S.
24 receiving office.

25 BASSIL DAHIYAT: It's because of the quality of

1 the examination. It's the quality of the examination.
2 The slowest thing in patent prosecution is a bad
3 examiner. And there's no system in place at the U.S.
4 Patent Office to deal with that, aside from, let's
5 appeal and then in 30 months we will hear from the
6 board.

7 MATT O'MALLEY: And the ombudsman --

8 BASSIL DAHIYAT: And the ombudsman has no power
9 to do anything. So I think that the patent quality is
10 just not -- and maybe this is for another whole other
11 session. But I found that you can even expect
12 consistency and actually unity of the view. I mean, a
13 Chinese examiner, it's remarkable how consistent they
14 are with the EP in the viewpoints, and the legal
15 standards they're applying, and the outcome. Right.
16 Koreans, Australians, same thing.

17 So that's again, one area, one arc unit, a
18 handful of examiners; I might be completely out of the
19 case.

20 MATT O'MALLEY: As the inventor in a case like
21 these, it's not only the translation of that application
22 that goes in. As you have mentioned, Japan can be
23 \$19,000.00 for a rather large application. When you get
24 into the prosecution, and you get prior arcs sent back
25 that's in Japanese, well, guess what, you've got to pay

1 for the translation of all those pieces. It gets very
2 expensive, translation as well.

3 BASSIL DAHIYAT: It does.

4 MATT O'MALLEY: Yeah, very expensive.

5 BASSIL DAHIYAT: It does.

6 Anyway, thank you very much for the opportunity
7 to sort of show a viewpoint from a non-legal
8 perspective.

9 STUART GRAHAM: Absolutely.

10 Any other comments from the audience?

11 (No comments from the audience)

12 Seeing none, Bassil, thank you.

13 BASSIL DAHIYAT: Thank you very much.

14 STUART GRAHAM: Okay. So our next speaker is
15 Professor Jay Kesan.

16 Jay, are you on? Jay, are you on the telephone?

17 It might be just a tad early.

18 How about I suggest the following. Since we're
19 just a tad early for Jay Kesan, shall I suggest a
20 five-minute break, and we will return here in five
21 minutes, and pick up again on the hearing.

22 Thank you very much. And we will see you back
23 here in five minutes.

24 (Brief recess taken.)

25 STUART GRAHAM: So I think we should reconvene.

1 Our next speaker is on the telephone with us.

2 Jay? Jay, you're with us, yes?

3 JAY KESAN: Yes, I am.

4 STUART GRAHAM: Great.

5 Professor Jay Kesan is the Director of the
6 Program in Intellectual Property & Technology Law at the
7 University of Illinois College of Law. Jay's
8 scholarship includes intellectual property,
9 entrepreneurship, digital government, agricultural
10 biotechnology, and biofuels regulation.

11 Dr. Kesan also advises the University of Illinois
12 Office of Tech Transfer and the Office of Technology
13 Management, IP commercialization. So I'm sure Jay will
14 also have comments with us about the role of
15 international patenting protection in the context of
16 university entrepreneurship.

17 Please go ahead, Jay. Thank you.

18 (Telephonic appearance by Jay Kesan.)

19 JAY KESAN: Thank you very much, Stu. I
20 appreciate the invitation.

21 Good morning, everyone, and members of the
22 committee. And thank you very much for the opportunity
23 to speak to you about international patent protection
24 for small businesses.

25 As Stu just mentioned, I am a professor at the

1 University of Illinois, and I am also a registered
2 patent attorney. And in the process of preparing for
3 this event, I'm grateful for the input I received from
4 various colleagues at the university and patent
5 practitioners.

6 So let me highlight about 15 points that I want
7 to mention in the short amount of time we have.

8 I have provided a written copy of what I'm going
9 to be discussing, and I have sent it over. I hope you
10 guys have had a chance to look at it, or you will have a
11 chance to look at it.

12 Point 1: International patent protection is
13 important for small businesses. And it really does
14 depend on the technology space that the small business
15 is working in.

16 And number 2, it also depends on the particular
17 innovation that is the focus of the patent or the focus
18 of the small business.

19 In our experience at the university, and in my
20 time in private practice, I noticed that there was a
21 difference between different industries. For example,
22 in the pharma and biotech industries, foreign patenting
23 is seen as being very important.

24 It is not at all uncommon at the universities to
25 find that a pharmaceutical company may not be interested

1 in an organic molecule, or something else that's been
2 developed by a small business that has been started by a
3 university professor, unless they have the option to
4 continue to pursue foreign protection, or unless foreign
5 protection has already been initiated. That's because
6 they view, say, the European market as being very large;
7 40 to 50 percent of the world market, and so on. And so
8 the pharma and biotech industry really cares a great
9 deal about foreign patent protection.

10 For a long time the computer software industry
11 cared about foreign protection, but in a more limited
12 way. It is not uncommon, even today, to find computer
13 software companies as saying that we want to protect our
14 inventions in the U.S., Canada, and Europe, but will
15 actually pursue national phase only in Germany, France,
16 the UK, and Japan, and then we'll just stop. And so
17 it's a limited protection.

18 However, more recently we're seeing that in the
19 case of -- this is not true for all the electronic arts.
20 In the wireless handset industry we're seeing vigorous
21 worldwide protection for handsets all over Asia and
22 Europe. And you may be aware of the litigation that is
23 taking place between Apple and Samsung, and how it's
24 played out in the Netherlands and in Europe. And some
25 of these disputes that are very heavily being pursued by

1 both parties underline the importance of things like
2 international patent protection for things like wireless
3 handsets much more so than what was the case in the past
4 of the electronic arts.

5 So in other words, I think a short way of
6 thinking about this is to say that the size and
7 distribution of the relevant U.S. and international
8 markets is what really matters to small
9 businesses as well.

10 This is an area where it's crying out for some
11 good empirical studies on seeing how international
12 patent protection matters in the context of various
13 technological arenas. It's also important from the
14 standpoint of the exit strategies that are pursued by a
15 small business. A large company may find in a buyout
16 situation that a small business that has preserved the
17 options to pursue international patent protection may,
18 in fact, be a better target than one that has sort of
19 given up its foreign rights. So I do think that
20 international patent protection can be important for
21 small businesses.

22 A point too, this whole issue of foreign patent
23 protection really comes to the fore, and this is a
24 practical point that I have often noticed, when the
25 small business actually tries to sell products and

1 services abroad. So even if a small business has not
2 thought about it up to that point, the moment they start
3 realizing that there is a market for their stuff outside
4 the U.S. and they want to take advantage of it, you
5 know, it really does become important in that stage.

6 Number 3: You know, what exactly are the dangers
7 if international patent protection is not sought.

8 The biggest danger is an obvious one. And that
9 is that if they delay pursuing foreign patent
10 protection, then they may very well find themselves
11 competing with their own inventions, and their own
12 patents, which may be used against them for rejecting
13 their new claims. And foreign patent offices may find
14 that their own inventions are a relevant prior art that
15 prevents them from pursuing foreign patent protection.

16 I want to announce that if -- these are sort of
17 largely high-level macro-comments, and I wanted to -- in
18 the time I have I want to drill down a little bit more
19 and talk some more specifics.

20 If you pursue international patent protection,
21 then you have five significant cost components, and it's
22 worth enumerating them so you can actually sort of --
23 when you are thinking of helping small businesses, I
24 think you really want to sort of focus on these
25 particular sources of costs.

1 Number one, you have the actual U.S. law firm
2 legal fees and costs that are being charged by the U.S.
3 patent attorneys.

4 Number two, you have foreign law firm associates,
5 their legal fees and costs.

6 Number three, you have the PCT filing fees, and
7 then you have the foreign filing fees when you
8 domesticate the PCT and they move to national phase,
9 then you have the foreign patent offices' filing fees.

10 Number four, once your patents have been issued
11 you have annuity payments, which are akin to our
12 maintenance fee payments. But you have these foreign
13 patent annuity payments that come due every year.

14 And number five, you have translation costs, and
15 depending on the country you're applying for, it can
16 also be very significant. So I'm going to address some
17 of these cost components at some length.

18 Point number 5: Focusing on filing fees.

19 Reduction in filing fees for small businesses for PCT
20 applications would help significantly.

21 I am thinking of something akin to a small
22 business entity reduction, akin to the U.S., a 50
23 percent reduction in filing fees that we currently have
24 in place. I'm not even talking about the micro entity
25 issue, which is an additional incentive for universities

1 and particular categories of small inventors in the
2 America Invents Act.

3 I am specifically talking about having something
4 that is akin to a reduction in filing fees for small
5 businesses for PCTs. In particular, if the PCT
6 application filing fee is lowered to a level that is
7 roughly equivalent to the typical search fee that might
8 be charged by a search firm for doing a patentability
9 search, then it becomes really worthwhile for the small
10 businesses to file a PCT, because they can obtain good
11 patentability search results from the PCT prior art
12 search.

13 A reduction in filing fees, particularly to a
14 level that the small business is indifferent, about filing
15 for a PCT or doing a private patentability search, would
16 be very helpful.

17 Point 6, even if the overall fee associated with
18 a PCT application cannot be reduced, the PCT should
19 consider at least reducing the PCT search fee. Today we
20 have two components to a PCT filing fee. We have
21 roughly a couple of thousand dollars for the search fee,
22 and then another couple of thousand dollars for the
23 application fee. So when we think of a new PCT filing,
24 it includes both components.

25 Today it is not at all uncommon for a patent

1 counsel to suggest to their clients that they go and get
2 their PCT search done elsewhere, like in Korea instead
3 of the U.S., because a search in Korea costs about half
4 as much as a U.S PCT search. A search in Korea costs
5 about \$1,000.00, compared to the \$2,000.00 that it costs
6 in the U.S. This is a significant issue for small
7 businesses. I would suggest that if the PCT -- I'm
8 sorry. If the PTO reduces this search fee, then they
9 may end up doing a lot more PCT search work, and
10 increase their volume of searches, because then their
11 fees become more competitive. So the volume of search
12 work would also increase, more than making up for any
13 shortfall in revenues if the PCT search fee were
14 reduced.

15 Now, of course, I've also heard other
16 practitioners say that you get what you pay for, that
17 the quality of the searches from countries that charge
18 less may not be as good. But, in fact, it's been my
19 experience that the searches in places like Korea are,
20 in fact, quite good. And a lot of practitioners do find
21 them to be quite good as well, but also quite a bit
22 cheaper.

23 Point 7: It would also be advantageous to have a
24 search report for a PCT application, say, within, like,
25 four to five months be completed in that period in all

1 our large areas. If a client can get a search report
2 from an international patent authority in a few months,
3 then that is akin to completing the patentability search
4 by private firms that I mentioned previously. Now, the
5 advantage here, of course, is that the small business
6 gets the benefit of having filed a PCT in the process,
7 but also they've now got a search as well, which is made
8 available to them in a reasonable period of time, making
9 it even more attractive to go down this option.

10 Number 8: It would be advantageous for small
11 businesses to coordinate the practice of filing a U.S.
12 application and a PCT application. So, for instance,
13 allowing a small business to file a U.S. patent
14 application and a PCT application in the same submission
15 would be beneficial.

16 This coordination would reduce some attorney
17 costs for small businesses. In addition, we should
18 consider charging a reduced fee for submitting both the
19 U.S. patent application and the PCT application
20 together.

21 There are other areas in this regard for
22 coordination and harmonization. It is not uncommon to
23 get different rejections for the same set of drawings
24 that are submitted to the USPTO and the PCT office.
25 This requires applicants to respond with two different

1 sets of corrections for the same drawings. These kinds
2 of costs may not be a big deal for a large company, but
3 they can be quite onerous if you're a small business.
4 And these kinds of costs can be mitigated by at least
5 having some procedure. So we can agree on a common
6 set of norms for things like drawings.

7 Point 9: The USPTO's web-based electronic filing
8 system for patent applications and document submission,
9 that we commonly refer to as EFS-Web, works very well.
10 However, if a small business is located outside the
11 U.S., and the inventors are not U.S. citizens, a PCT
12 application cannot be filed with a U.S. receiving office
13 by a U.S. patent practitioner.

14 In this situation, the patent attorney has to fax
15 the PCT submission to the International Bureau. In
16 fact, this scenario often arises when the foreign small
17 business has already filed a provisional patent
18 application in the U.S., and now they want to take it to
19 the next step and file a PCT within a year in various
20 countries, including the U.S. And, of course, you know,
21 then they can't do that through EFS-Web, and so it will
22 be extremely helpful if U.S. patent attorneys could use
23 the EFS-web system to submit a PCT application to the
24 International Bureau. Even if the PTO charges a fee for
25 this service, this is an area that would benefit

1 patentees and patent attorneys.

2 Again, thinking about the same scenario I just
3 mentioned, I want to now talk about certified priority
4 documents.

5 If a PCT application is filed directly with the
6 International Bureau, for example, it's filed at the
7 International Bureau, then certified priority paper
8 documents from the PTO have to be obtained and mailed to
9 the IB within four months of filing.

10 Commonly the PTO charges \$20.00 for these
11 certified priority documents. It might be great if
12 there could be a reduction in this fee for small
13 businesses, or for electronically transferring these
14 priority documents to the IB at a reduced cost, it could
15 be created, and that would also benefit small
16 businesses.

17 Some of these things might seem a little
18 nitpicky, but in fact all of these little costs do add
19 up if you are a small business.

20 Point 11 --

21 STUART GRAHAM: Jay?

22 JAY KESAN: Yeah.

23 STUART GRAHAM: Can I ask you to finish up in two
24 to three minutes just to keep us --

25 JAY KESAN: I will definitely finish up in about

1 two to three minutes.

2 STUART GRAHAM: Excellent. Thank you.

3 JAY KESAN: There is a need for an intensive
4 effort at educating small businesses about the process
5 and the benefits associated with foreign patenting.
6 Such an education of effort will be very desirable. The
7 PTO website, for example, could describe a few small
8 businesses in different arc areas, highlighting the
9 benefits and then highlighting the challenges associated
10 with international patent filings.

11 Point 12: Akin to our patent maintenance fees
12 there are annual annuity payments in foreign countries.
13 They are typically between \$500.00 to \$900.00 per year,
14 which are very significant. It would be helpful to
15 coordinate bilaterally -- I mean, diplomatically with
16 some countries, to mutually agree to some equal
17 percentage in reduction in these annuity payments for
18 small businesses that benefit both countries. There are
19 a number of developed and developing countries that come
20 to mind where such an effort is worth at least
21 initiating to seeing if it goes anywhere.

22 Point 13: Translation costs are very significant
23 when trying to obtain foreign patents. Translation
24 costs in both Europe and Japan cost several thousand
25 dollars for a national phase application. Studying how

1 these costs might be reduced or providing other forms of
2 support to reduce these costs for small businesses is a
3 real challenge, and one that is worth thinking about how
4 this might be done comprehensively.

5 In the U.S. it would also be helpful to permit
6 SBIR grant money to be used to pay for some of the
7 different costs associated with foreign patenting.
8 Using SBIR money to pay for foreign patenting obviates
9 the need for an additional review mechanism for deciding
10 which small businesses should receive a loan or a grant
11 that has been set aside specifically for international
12 patenting. So, in fact, using the SBIR process might
13 help in picking out those small businesses that might be
14 worthy of this kind of support.

15 Finally, loan programs or grant programs for
16 small businesses for international patenting are worthy
17 of careful study. Without such a study I'm concerned
18 that it might be easy to spend a lot of money creating
19 such programs with little results to show in the
20 long-run.

21 So I will stop here.

22 Thank you very much for your attention.

23 I'm also happy to answer any questions that the
24 panel or members of the committee have.

25 STUART GRAHAM: Thank you, Jay.

1 All well taken. And, of course, we do have your
2 written comments as well.

3 Let me open it to the members of the Government
4 panel to see if there are questions.

5 Edward Elliott's here from USPTO.

6 EDWARD ELLIOTT: Hi, Jay.

7 I wanted to ask about your point number 6.

8 You had said that the U.S. should consider
9 reducing their search fee to be more on par with Korea's
10 for a PCT search, but then you said later on that the
11 quality of the search that you get from Korea is
12 actually quite good. So what is the benefit to small
13 businesses of the USPTO reducing that fee?

14 JAY KESAN: I'm just suggesting that the USPTO
15 reduce the fee, then they could reduce it to make it
16 even more competitive than Korea, in which case they
17 actually would get, you know, the search done cheaper.

18 But also, you know, if the USPTO charged a more
19 competitive fee, then, you know, in fact, it might
20 result in more revenue for the USPTO, because the
21 searches going to Korea might actually go here.

22 And number two, you know, maybe those revenues
23 can then be used to further subsidize some of the fees
24 that are charged to small businesses.

25 Either way, it sort of seems like an opportunity

1 to try and get more competitive on a couple of different
2 levels.

3 Does that make sense?

4 EDWARD ELLIOTT: Yeah, I see what you're saying.
5 So, you're talking that it would be an indirect benefit
6 to small businesses if PTO could increase their revenues
7 through this mechanism.

8 JAY KESAN: Right. I mean, it's my understanding
9 that during -- and I noticed this, you know, when the
10 recession was in full force in the U.S., the PCT office
11 was returning searches literally in a month or two.
12 And previously it would sometimes take a year. And so,
13 you know, that gave me the impression, albeit
14 indirectly, I have no direct data on this, but
15 indirectly, you know, I was assuming that there were
16 just not that many people filing for PCTs, you know,
17 because of the recession. And so I think it picked up a
18 little bit, but even now searches are returning fairly
19 quickly. So I think there is a need to sort of look
20 into these issues. And you guys have, you know, better
21 data on all this.

22 STUART GRAHAM: All right. Thank you.

23 Any questions from the audience?

24 I have one quick one, Jay, just quickly as we end
25 this up.

1 So we have a representative today here from the
2 SBA, Martin Selander. And so I was quite interested in
3 your comments about the SBIR program.

4 JAY KESAN: Right.

5 STUART GRAHAM: And indeed it dovetails on
6 comments from our previous speaker, our speaker from the
7 public, Bassil Dahiyat, who suggested that there should
8 be some means in any program that would offer benefits,
9 some means of allowing for competition, some -- you
10 know, seemingly some quality measure that could be
11 imbedded in the way in which taxpayers' money or
12 ratepayers' money, as the case may be, would be
13 allocated to these companies.

14 In the end, though, SBIR is a reasonably small
15 program. Is there any way that you can think of that
16 such a selection mechanism could be ramped up
17 sufficiently so that all of the deserving companies with
18 prospects of actually growing into the Facebooks and the
19 Googles of tomorrow would actually have access to the
20 kind of help that they need?

21 JAY KESAN: I completely understand the point
22 that you're trying to make. And I dare say that
23 universities are in exactly the same position, you know,
24 just like a small business. And indeed a lot of small
25 businesses are started by university science and

1 engineering professors. And at a minimum, I'm being
2 really cautious here, at a minimum, what is worth
3 pursuing is filing the PCT so that you preserve your
4 ability to go national phase 30 months down the road, or
5 18 months after you've sort of filed your PCTs. And
6 very often those two-and-a-half years from the filing
7 of, say, something like a provisional, is sufficient
8 time for your invention to percolate, and for you to see
9 if there is foreign interest, and I mean, and if there
10 is other outside licensee interests who are interested
11 in foreign rights so that they can take over
12 prosecution. What I'm trying to say is that the initial
13 cost of preserving foreign rights until you are able to
14 work more on your technology, get more results, preserve
15 the option to keep your technology attractive to a point
16 further down the road, that is valuable. And that
17 doesn't cost that much.

18 STUART GRAHAM: Thank you.

19 JAY KESAN: Have I answered your question? Does
20 that make sense?

21 STUART GRAHAM: Absolutely. Thank you very much.

22 Okay. Thank you. Thank you, Professor Kesan.

23 I want to now move on to our next scheduled
24 member of the public in our hearing, Vern Norviel.

25 Vern, are you online?

1 JAY KESAN: Thank you very much.

2 STUART GRAHAM: Hello. Vern Norviel, are you
3 online?

4 Let me just ask as a possible. Phil? Phil
5 McGarrigle, are you online?

6 Okay. Maybe what we'll do here is we'll
7 entertain a bit of unscheduled commentary from a member
8 of the public.

9 I had a discussion with Matt O'Malley during the
10 break. And Matt is the Chief Intellectual Property
11 Officer at Cenoplex. And Matt said that he would like
12 to make a few unscheduled remarks. And we're happy to
13 entertain that.

14 Matt, if you would come up. It actually helps us
15 provide a bridge until Vern Norviel can join us.

16 MATT O'MALLEY: Thanks, Stuart.

17 A couple comments, I guess, on what's been said
18 specifically about the international patent protection
19 for small businesses, but also about small businesses
20 directly.

21 There's a great study that the SBA did a few
22 years back that talks about the quality of patents. I
23 don't know if you're familiar with this study. And it
24 took roughly 1,300 patent applications over a five-year
25 span. The qualifications for those patents were those

1 where companies had acquired 15 patent applications, or
2 grants, rather, and when they looked at those they were
3 surprised to see that 40 percent of those were actually
4 done by small businesses. But I think what's very
5 interesting is when you start to do the analysis, and
6 they'd look at impact, generality, originality, and
7 citations. And I'm sure you can't see this as members
8 of the audience, but this white bar, it's significantly
9 larger than the other two bars, are small businesses,
10 and the quality of the patents, and how often they're
11 cited in future applications.

12 The middle bar that's about two-thirds of that is
13 large business, and the very small gray bars are
14 universities.

15 So my point is that innovation is coming from the
16 small businesses. And if you follow that study on, it's
17 about a 63-page study, I encourage you to see it online,
18 it talks about, as it was mentioned earlier, that those
19 patents go on to be acquired by big business.

20 So a big impetus for me as, as Stuart mentioned,
21 CIPO, as a small start-up, also as somebody with well
22 over 20 patent applications that I filed U.S. and
23 worldwide, China, Korea, Japan, India, and soon to be
24 Canada, and certainly the EPO.

25 We talked about translation fees. If you've ever

1 had to go through this process -- earlier it was
2 mentioned by the earlier speaker that it was like
3 \$19,000.00 that he had to pay for his translation fees
4 in Japan. Realize that when you finally do get that
5 first office action from the JPO or China, Korea, or
6 where, that the office action has to be translated,
7 and now all that art that's been cited has to be
8 translated. And if you could imagine if there are five
9 pieces of prior art from three different countries and
10 each of those are worth 20K, well, now you're talking
11 \$300,000.00.

12 And it was asked earlier, a great question,
13 by year three, do you get a sense of the potential
14 revenue at that point. In some cases these investors
15 are still looking to see where your intellectual
16 property filings internationally have gone. So there's
17 some significant costs, not to mention you're probably
18 trying to maintain a R&D department for several software
19 developers through this time span.

20 If I may, just a little bit more about the
21 overall impact of the new changes coming down the pike.

22 STUART GRAHAM: Please.

23 MATT O'MALLEY: Okay. I think if you go to a few
24 of these events, listen to -- Silicon Valley has their
25 intellectual property group the L.A. and Ventura County.

1 I try to attend all of these. And it pretty
2 predominately is felt that this is going to favor big
3 business. It's certainly first to file, certainly
4 the fast track. And I'm concerned a little bit about
5 how punitive a lot of the situations are. If you listen
6 to pod cast from Judge Rader who talks about the
7 atomic bomb and how -- let's think about after somebody
8 has gone through all these years of expenses that I just
9 alluded to only to have the atomic bomb of invalidity of
10 some sort. And there's a whole range of those. I would
11 like to see some sort of effort put into helping small
12 businesses not run into those situations, dealing with
13 clarity on 103, and how do we help -- I mean, if it's
14 really about helping innovation, then let's look at it.
15 It's the small businesses.

16 Of the 219,000 grants last year, I think half of
17 those were international filers. Which if I read the
18 data correctly, 85 percent of those are big business,
19 and only 15 percent are small business, and of course
20 some of those are made up of actual independent
21 inventors like myself.

22 If that's truly where the innovation is coming, I
23 would like to even see, as we see comments today, a
24 database online where people can say -- I heard some
25 great comments from our last speaker about why isn't the

1 PCT and the U.S. application simultaneously being
2 prosecuted. I think that's a great idea.

3 You know, I heard a number of great ideas. But
4 boy, it could be great not just to get a feedback
5 mechanism online at the PTO, but maybe we start to
6 invoke some sort of social networking parameters where
7 you're scoring the feedback based on how many
8 applications that person has pending, how many he's had
9 granted, he or she, and you start to put some weight
10 behind it.

11 Sometimes I worry that too much of the impetus is
12 being driven by big business attorneys, which are very
13 important, of course, and the PTO. I like some of the
14 changes that I've seen Director Kappos has put in, some
15 great stuff. But anyway, that's it from a high level.

16 I also worry about the DIP proceedings that we
17 hear that are going to potentially come down the line, and how
18 costly some of these things are going to be. But in the
19 end we'll see where this goes on the international
20 filings. But there are significant costs that you run
21 into.

22 STUART GRAHAM: Thank you. Thank you very much.

23 Any members of the panel have a question for
24 Matt?

25 Members of the public?

1 VERN NORVIEL: By the way, this is Vern. I was
2 able to get in now.

3 STUART GRAHAM: Thank you, Vern. We'll get to
4 you in a moment.

5 Matt, if I can just follow up on one issue.

6 You did say that help for small businesses,
7 particularly as it relates to these issues of clarity,
8 How do you foresee the best way in which the patent
9 office or other Government agencies could actually
10 provide that help to -- since you're here representing
11 small inventors, to small inventors?

12 MATT O'MALLEY: Well, I do hear about the new programs
13 Minnesota has a program that's being developed for those that are
pro se,
14 and I just heard about its launch, and I heard that at
15 the speech on Saturday, that pro se or pro bono work for
16 independent inventors.

17 The one thing that, after I heard how fantastic
18 the program was, and not to diminish this, but you had
19 to be almost at the poverty line to qualify. And a
20 comment was made from the audience, there's a big middle
21 ground that 95 percent of small businesses that would
22 benefit, not only from the pro bono program, but from the
23 educational program that they were going to develop.
24 And I think we might just like to see some more of that.

25 But I still go back to the PTO has really

1 got to get its hands around the 103 obvious rejection.
2 Especially among software. It is very difficult,
3 costly, very costly for inventors to get their hands
4 around it. It lacks clarity. I even wonder
5 sometimes why applications can go abandoned and why
6 can't you revive them? Internationally as well?

7 It was said early by our pharmaceutical company
8 that there were countries that years later that he had
9 wished he had been able to maintain it. Maybe there's a
10 fee that these countries would welcome to revive those
11 applications.

12 STUART GRAHAM: Thank you.

13 MATT O'MALLEY: Thank you.

14 STUART GRAHAM: Thanks very much.

15 Very good. Well, thank you.

16 Thank you, Vern Norviel for hanging in there and
17 trying again to get back online.

18 You are with us, yes?

19 (Telephonic appearance by Vern Norviel.)

20 VERN NORVIEL: Yes, I am. Thank you.

21 STUART GRAHAM: Thank you very much.

22 Let me introduce Vern Norviel.

23 Vern is a partner at Wilson, Sonsini, Goodrich &
24 Rosati. He leads the patents and innovation counseling
25 practice at Wilson, Sonsini. Mr. Norviel has more than

1 20 years of experience in corporate IP strategy and
2 represents firms and venture capitalists in diagnostics,
3 nanotechnology, genomics, and personalized medicine.

4 So with that, Vern, I welcome your comments.

5 VERN NORVIEL: Thanks very much. And I apologize
6 for the snafu when I was earlier dialing.

7 So as you said, my name is Vern Norviel. I'm a
8 partner at Wilson, Sonsini. I'm also, by the way, a
9 past member of the Patent Office Public Advisory
10 Committee, and as well, I'm a National Professor at the
11 University of California, Berkeley.

12 I have been involved intimately with some of the
13 early formation of many life science start-up companies,
14 many of which have grown and I believe today are
15 significantly impacting health care today.

16 With that, I'm pleased to have the opportunity to
17 present a perspective on the subject of international
18 patent protection for small businesses for the purposes
19 of the patent office preparing a report on the subject,
20 as I understand it's required to do.

21 I will be speaking today almost exclusively from
22 the point of view of a small life science start-up
23 company. I will not be representing any company or even
24 my firm specifically today, but I'm offering my personal
25 views based on my experience, in which the manner in

1 which the subject of foreign patent protection impacts a
2 small life science start-up.

3 I would like to specifically focus today on the
4 manner in which foreign protection could directly affect
5 the delivery of health care to patients.

6 Wilson, Sonsini is a Silicon Valley-based firm.
7 We have offices throughout the U.S., and we represent
8 companies from Genentech to Google.

9 I personally represent only life science
10 companies. I am incredibly proud of being a part of the
11 life science industry and the companies that I am
12 associated with. They represent technology that shows
13 huge promise in the main disease areas, including
14 cancer, therapeutics, interdiagnostics, blindness, Lou
15 Gehrig's disease, next-generation sequencing technology,
16 non-invasive prenatal diagnostics, treatments for
17 Parkinson's, and many others.

18 So the first question in the notice was, how
19 important is international protection to small
20 businesses.

21 And let me begin before I answer that question by
22 addressing what really is the major problem faced by a
23 life science start-up company today. That problem is
24 very specifically access to capital. As a result of
25 many factors, not the least of which is the economy,

1 venture capital has become more and more difficult to
2 access. In life science, a large fraction of the
3 companies that are formed are rights from
4 university-funded and NIH-funded research. Often these
5 research efforts are considered just too early today and
6 too risky for today's venture capital industry.

7 And just last week a forum was held in San
8 Francisco called the BIO Investor Forum. The last
9 session of the conference was, I believe, tellingly
10 called "Opportunity for Apocalypse? Prophecies for
11 2012."

12 As a result of the difficulty in raising capital
13 from venture capitalists, many young life science
14 companies have turned to a process by which they obtain
15 small investments. And by that I mean on the order of
16 less than \$1 million from so-called angel investors.
17 They then use this money to move their drug or
18 diagnostic technology forward to the point where it is
19 de-risked enough that they could actually still be
20 financed in a larger way by the venture capital
21 community, and move these technologies to the patient.

22 But there's another problem, and that problem in
23 the life science industry is it's in many ways very much
24 unlike high tech and software industry, in that the need
25 for patent protection is absolutely essential to obtain

1 venture capital investment.

2 Tufts University now projects that the cost of
3 developing a single significant drug is over \$1 billion.
4 And in my industry it is common knowledge that
5 essentially no drug is moved forward through this
6 process without strong patent protection.

7 And since the U.S. market is now typically only
8 about half of the world market for most drugs, foreign
9 protection is also essential to obtain venture capital
10 investment in a drug.

11 So where this leads.

12 A new start-up with a promising, say, cancer drug
13 or another drug that could change the face of health
14 care is required to live on a few hundred thousand
15 dollars to conduct its experiments during the first
16 years of its existence.

17 But without the foreign protection at the end of
18 this initial phase, a start-up cannot get venture money
19 to continue to move the drug to the patient.

20 Moreover, the cost of foreign protection can
21 often be so high that most, or even sometimes maybe all
22 of an initial investment could be eaten up by foreign
23 patent filings.

24 So finally, the answer to the question of how
25 important is foreign protection in the life science

1 industry is, incredibly.

2 And to the extent -- and to answer the second
3 question, at what point do health care companies become
4 important, the answer is also blatantly simple. And the
5 answer is immediately, simply because the patent filings
6 are required early on to support the venture investment
7 to move the drug to the clinic.

8 Importantly, the consequence of these companies
9 not receiving adequate funding as a result of patent
10 protection is more than just a commercial impact. It
11 really will significantly impact health care.

12 Just as I was preparing my remarks today, I
13 worked on two such companies working on only angel
14 investor money. One has a drug that could dramatically
15 improve the efficacy of radiation treatment for cancer
16 victims. Another drug that could be the first real
17 treatment for blindness. Both were founded by an
18 incredible well-respected scientist, in this case at the
19 University of Colorado and MIT, and they have great
20 promise. And the victims of these health conditions
21 could be harmed significantly if these health
22 technologies are not translated to the clinic.

23 I know that others have submitted answers that
24 are colored differently than my answers today as to how
25 important and when patents become important in

1 international jurisdictions. And one might wonder why
2 our positions would be different.

3 I think I would agree with others, as to their
4 answers only apply to technology and software companies,
5 but the focus of my life really is on health care. And
6 that's probably why the answers are different.

7 Question 3 asks how prior user rights would
8 impact protection. And frankly this is not really a
9 question that is of concern to the health care industry,
10 at least for small businesses. And many companies have
11 to file early to get patents in Europe and Japan and
12 China. Again, without any patent there is no company,
13 and no drug is moved forward without it.

14 The other question, number 4, it asks what role
15 does the international patent protection play in the
16 successful internationalization strategies (such as
17 franchising).

18 Again, this is not really -- you know,
19 franchising is not relevant in the drug industry. So in
20 a sense, my answers above are the real answer.

21 Importantly, question 5 asks how can the USPTO
22 and other federal agencies best support small
23 businesses. How can they support regarding
24 international patents with regard to acquisition,
25 maintenance and enforcement.

1 Of course some of the other comments, I won't go
2 back into them, but I would agree that with the
3 coordination of efforts between countries to increase
4 the cost barriers, it would be incredibly helpful.

5 When the question was asked in number 6 about
6 what role should the federal government play in
7 assisting small businesses to defray the cost of filing
8 and maintaining international protection, and question 8
9 and 9 follows by, should that be by way of a loan or
10 grant program, I would like to address them kind of as a
11 group.

12 And I think what's probably buried within a lot
13 of people's concerns about this question is imbedded
14 concern about whether the government is in a good
15 position to decide when to give such grants and loans,
16 especially in light of recent events.

17 But specifically with respect to the life science
18 industry, there's a substantial amount of commercial
19 effort going around inventions where the government has
20 already conducted a peer-review process, and conducted
21 it outside of the government to determine whether --
22 what are most promising that the scientists found. And
23 this comes via the NIH or similar grant programs.

24 The cancer and blindness companies I mentioned
25 earlier have in-license patents that were developed

1 under NIH grants. These grants were peer-reviewed
2 before a board. And when a company has obtained some
3 financing at some level to support moving these health
4 care solutions to the clinic, there is at least some
5 independent validation that this science is commercially
6 translatable.

7 So whether the support is through grants or
8 loans, it would appear to me that many life science
9 start-up companies that would come under consideration
10 for such support have already accomplished a number of
11 things to make a government investment worthwhile.

12 First, it mentions already moving towards
13 treatment for important health care situations on the
14 company.

15 Second, outside peer review is validated if the
16 science is compelling.

17 And third, commercial validation is already seen
18 via the coming together of a team and the investment.

19 So, in these particular situations it seems
20 particularly compelling to me that start-ups that offer
21 these health care solutions can rationally be supported
22 via a grant or a loan program to support foreign filings
23 of patents, and thereby helping reach these, and having
24 health care solutions for the patients in the clinic.

25 As to whether a grant or a loan program is most

1 efficient, I'm not personally strongly of the opinion
2 one way or the other. Perhaps as a taxpayer I might
3 favor a loan or a loan guarantee program; either would
4 have a significant impact on translation of health care
5 from the labs and clinic.

6 I'll also just make a side observation that
7 matching programs often serve as strong validation if a
8 project is worthwhile, regardless of whether it's a
9 grant or a loan program. And in the case of health care
10 companies, it might be best that any grant or loan
11 program is made as a matching program to ensure that
12 someone else is putting skin in the game.

13 Thanks for the opportunity to submit a few
14 comments. And I'd be thrilled to answer any questions.

15 STUART GRAHAM: Great. Thank you, Vern.

16 This is Stu Graham, and I do have a couple of
17 questions for you.

18 One has to do with a comment that was -- that's
19 been revolving around a lot today among our speakers,
20 but it was most recently brought up by Professor Kesan.
21 And his suggestion at the end of his comments was that
22 essentially by providing a lower cost to access into the
23 PCT system, that young companies can, for all intents
24 and purposes, buy an option, buy an option to ultimately
25 go into the PCT signatory countries at 30 months.

1 In the context of the companies that you deal
2 with, since we do understand from Mr. Dahiyat and others
3 that development times and times to market tend to be
4 much longer. Is that sufficient time for the market to
5 catch up?

6 In other words, by the time we reach 30 months,
7 is there going to be enough demonstration for the firm
8 to be able to go into the capital markets and raise the
9 capital that they need, all other things not
10 withstanding, in terms of how much capital is available?

11 VERN NORVIEL: That's a great question. And the
12 PCT is not the barrier that I've been discussing today.
13 And it would be certainly helpful if the costs were
14 somehow made more manageable there. But incredibly, the
15 time line for developing a drug almost routinely, from
16 what I see, is such that the PCT is assumed, and often
17 the university has supported that. The problems that
18 I'm discussing come up at the 30-month stage, where to
19 get U.S., Europe, Japan, and China, which I would call
20 the standard check boxes these days. We're talking
21 \$50,000.00 to \$100,000.00, and that's where the problem
22 comes up. So it would be somewhat helpful to lower the
23 cost of the PCT, but it's a long time line for drug
24 development to prolong as early as the 30-month state,
25 to be honest.

1 STUART GRAHAM: Great. Thank you very much.

2 Other questions from the panel?

3 Edward Elliott.

4 EDWARD ELLIOTT: Hi, Vern.

5 I wanted to ask about your comment about matching
6 programs.

7 Are you aware of any particular matching programs
8 that we should consider looking at as models or examples
9 of how this type of system would work, especially
10 matching programs that take government funding and match
11 it with private investor funding?

12 VERN NORVIEL: Sure. There have been a couple
13 that actually I was thinking about when I said that.
14 One was, just frankly, IRS grant programming, which was
15 recently in place. It required a matching program,
16 matching money, and so you had to prove to somebody that
17 you really had something that was worthwhile to get
18 their money in order to get the government money.

19 And another one that I had in my mind is the
20 University of Colorado
21 where a small company
22 can get \$25,000.00 or \$50,000.00, but it has to be able
23 to match. And this makes it very clear to people that they
24 have to go out and get some money to prove, in a sense,
25 that what they're doing is worthwhile.

1 EDWARD ELLIOTT: All right. Thank you.

2 STUART GRAHAM: Great. Thank you.

3 Members of the audience?

4 (No questions from the audience.)

5 Okay. Without more questions, Vern, thank you
6 very much for arriving today from your busy practice and
7 being willing to put up with a little bit of slowness on
8 our part. And we're a little bit behind, but only
9 because we've had such good commentary today.

10 VERN NORVIEL: Well, it's wonderful that you
11 invited me. Thank you very much.

12 STUART GRAHAM: Thank you.

13 VERN NORVIEL: Take care.

14 STUART GRAHAM: You too.

15 All right. Thank you very much.

16 Our last speaker of the day is Phil McGarrigle.

17 Phil, are you online with us?

18 PHILIP MCGARRIGLE: Yes, I am.

19 STUART GRAHAM: Terrific. Thank you very much.

20 If I might introduce you to the people here
21 today.

22 Philip McGarrigle is General Counsel and Chief IP
23 Officer at Nodality, Inc. Phil has over 25 years of
24 experience in patent and biotechnology law. Before
25 joining Nodality, he served for ten years as Vice

1 President and Chief IP Counsel for Affymetrix. Since
2 the year 2000, he has also taught at the Santa Clara
3 School of Law.

4 Phil, please offer your comments.

5 (Telephonic appearance by Philip McGarrigle.)

6 PHILIP MCGARRIGLE: Thank you very much.

7 As you mentioned, I work at Nodality, and I've
8 worked in the San Francisco Bay Area in the
9 biotechnology area for about 20 years in
10 small-to-medium-size life science companies. I
11 appreciate it -- as Vern said, I appreciate the
12 opportunity to speak to you today regarding the
13 difficulties that a small company faces in protecting
14 its IP, and the possibility of providing assistance to
15 these companies.

16 My testimony will be presented from the
17 perspective of a small company in the life sciences
18 field. And I would like to draw some relevant examples
19 from my present company and prior companies to sort of
20 put it in perspective.

21 Nodality has about 40 employees, or actually less
22 than 40, and has done active research for about five
23 years. It's based on technology that originated in
24 Stanford University, which provides a researcher or a
25 clinician the ability to detect what's going on inside

1 cells, and to understand the specific biology behind a
2 disease, such as a cancer or some autoimmune disorders.
3 This approach allows a clinician to personalize a
4 patient's treatment, and a researcher can focus on a
5 selected patient population in a drug trial.

6 Understanding the biology behind the disease of
7 course saves a lot of time, and more importantly it
8 saves lives.

9 Applications for the technology arise in drug
10 screening as well as providing disease diagnosis and
11 prognosis, and it can also assist in selecting patient
12 populations who may benefit from a drug to provide a
13 personalized medicine approach to disease treatment.

14 I would like to say that
15 it's clear that foreign patent protection is extremely
16 important to small companies, as the bulk of their value
17 is in the IP, as I'm sure that other speakers have told
18 you, especially in life sciences companies. It's clear
19 that the only way a small entity can survive in an
20 environment with companies that have more resources is
21 via the patent system, so I'm happy to be able to
22 support that today.

23 Previous experience has shown me that the large
24 companies will act very aggressively, and can't seem to
25 capture their new markets that have been pioneered by

1 the small company. And patent protection's critical in
2 helping small companies protect themselves. I have seen
3 that in some of my prior companies in which we had
4 global patent litigation when we were the small company
5 and other companies were larger.

6 I'm sure that you've heard testimony regarding
7 expenses for foreign filing. I've heard a little bit of
8 what Vern said. And my numbers are slightly different,
9 but pretty much in the same ballpark. Total budget for
10 foreign filing in a moderate number of countries is
11 about \$150,000.00, which is a little bit larger than the
12 number of the small company, the smaller range that Vern
13 had put forth. But biopharmaceutical companies are
14 typically filing more broadly. And if they want to look
15 at a small company for either purchase or working
16 with them, then they'll want those small companies to
17 file more broadly as well, which increases costs. And
18 then after you get through the initial fee, then you
19 have the prosecution issuance fees, which can be
20 reasonably astronomical, and much more than the
21 \$200,000.00 you've already spent.

22 And since the U.S. is about a third of the world
23 market, then international protection becomes even more
24 important, and of course expensive. And the need for
25 cash comes even earlier under the America Invents Act.

1 Since the U.S. will be the first to file, U.S.
2 filings comes as soon as possible and the foreign filing
3 decisions needs to be stepped up as well.

4 Much like what Vern was saying with respect to
5 the 30-month date, things come later. You know, many of
6 the actual money-producing events come later. So your
7 foreign expenses and the U.S. expenses are going to be
8 earlier. Moving these expenses up early in the stages
9 within a small company's life is more difficult and the
10 probability increases that these early inventions are not
11 adequately protected, because small companies don't have
12 much available cash, which makes for paying foreign
13 filing expenses more difficult. They need to
14 periodically raise capital to fund their operations.
15 However, they don't typically want to raise too much
16 capital at once in the short-term because it requires
17 selling more equity than they'd want at a small price.
18 As you can imagine, they would sell stocks in groups,
19 and hopefully their stock price goes up, which means
20 they can get more money.

21 And of course capital is harder to raise now due
22 to the recession, and that's where my current company
23 finds itself. We're trying to both prove our
24 technology, and also to protect our inventions, and both
25 take a substantial amount of cash. In fact, in the last

1 year Nodality had to actually scrutinize costs, and we
2 made some rather conservative foreign filing decisions,
3 which we hope won't disadvantage us in the long-term.
4 But we're under those conditions where we would like to
5 have some assistance. And, in fact, we have another
6 decision coming up in less than a month in which we
7 probably will make a decision based strictly on the
8 basis of cost.

9 So deciding to terminate foreign coverage in our
10 own station company, it's probably the most damaging
11 time, because it's these early patents that are the most
12 fundamental, and provide the broadest coverage.
13 Everything else after certain periods is related to
14 improvements.

15 Even though the life sciences industry focuses on
16 small numbers of patents to protect its business, they
17 still require some overlapping sets of patents to
18 adequately protect the main technology in the market.
19 More patents, of course, are required with additional
20 products in multiple ways to attempt to cover workarounds. And
21 this is very true with technology platforms like
22 we have had here at Nodality. So abandoning some IP
23 protection at the early stage is very damaging when you
24 have insufficient funding.

25 So, with that backdrop, I would like to stop and

1 answer and address some of the questions that were put
2 forth.

3 The first question being how important is
4 international patent protection to small businesses.

5 Well, I've said it a few times already, but I'll
6 say it again. International patent protection is
7 extremely important for the small life science
8 companies. It's just as important as filing in the
9 United States. Of course, the only impediment is simply
10 the expense.

11 And here at Nodality we file -- you know, we're
12 just, as I said, a small company. We file about a third
13 of our U.S. applications overseas. And one immediate
14 benefit is that we are talking to foreign-based
15 companies regarding some partnerships. And of course
16 the first thing they want to see is whether or not they
17 can see some protection for what their technology would
18 be in their home countries. And it enables us to
19 partner up with the various companies a little easier.

20 With respect to my previous experience, I have
21 seen that international protection's critical, of
22 course, to obtain and protect an IP. And, in fact, one
23 of my earlier companies, our efforts led to one of our
24 inventors getting the Inventor of the Year Award from
25 the European Patent Office, which was quite a coup,

1 because it was the first time they had given it. And it
2 was based on their previous ten years.

3 Additionally, having foreign patents in more than
4 one jurisdiction is important because litigation is
5 going more global. And if you're sued in some other
6 jurisdiction besides the United States, you'd want to
7 have a patent in that so jurisdiction that it would be
8 possible to countersue and even the playing field.
9 So not only is it important to encourage partners, it's
10 important to protect yourself when you're going to get
11 sued, and it's also important if you're going to seek
12 additional revenue throughout licensing.

13 So, question number 2: At what point does
14 international patent protection become important to the
15 small company.

16 I think, again, they are always important to the
17 life science companies I've been involved with. Our
18 technology was initially licensed in from Stanford, and
19 they had the foresight to foreign file their first
20 applications, so they even recognized the importance
21 before the company was formed. They were expecting the
22 company would be formed, and foreign application and
23 patent would be important for that formation.

24 We have continued to recognize the importance of
25 foreign filing early for our applications. And it seems

1 to be the same as other companies that I've been
2 involved with prior to Nodality, and a few others.

3 Question number 3 is what challenges interfere
4 with the growth and the competitiveness of small
5 companies if they don't seek international patents
6 early.

7 Of course, the first thing, which you've probably
8 heard many times, is that the valuation of a small
9 company is adversely affected without foreign patent
10 coverage. And small companies won't be able to protect
11 their market, and larger companies certainly will just
12 recognize what are the more lucrative markets that are
13 developed by some of the small companies, and enter
14 those markets if there's no patent protection to prevent
15 them.

16 Oftentimes, outside U.S. rights are an important
17 source of revenue for small companies because they will
18 out-license and get some licensing revenue, and then
19 fund their own research and development activities in
20 the U.S., and maybe even to product plans in the U.S.
21 for that particular molecule. It happens a lot in drug
22 companies. When they partner with another company they
23 can have the resources to bring a particular target
24 through clinical trials. That strategy won't be
25 possible without foreign protection. And of course if

1 it ever chose to, a foreign company would be more
2 enticed to purchase a small company if they're
3 successful.

4 Question number 4: What role does international
5 patent protection play in the successful
6 internationalization strategies.

7 I've mentioned several already. International
8 partners want to see local protection for the markets if
9 they want to collaborate with a small company before
10 investing in that company and purchasing it. It's
11 critical. As I mentioned, we're engaged with a couple
12 of partners right now, and that's what we're doing.

13 Question number 5: How could the USPTO and other
14 federal agencies best support small businesses.

15 Well, I have a couple of suggestions. And the
16 first one, again, you've probably heard some of this
17 already. I've had some conversations with other
18 colleagues, and one or two of them suggested things that
19 are similar, such as the USPTO could expedite small
20 company applications in their mechanisms in the PTO to
21 pick out and accelerate an application, and then
22 prosecute them to a point where they're allowable, then
23 use a mechanism like the Patent Prosecution Highway
24 to file, and issue, and enforce foreign
25 jurisdictions.

1 The Patent Prosecution Highway is already set up.
2 And it could be that if we can alleviate some of the
3 redundancy, then the costs for the initial filings would
4 be diminished. And with a search, the examination fees,
5 and typically for the European Patent Office it's
6 10,000, and in Japan it's probably about the same. And
7 other countries, I would imagine, and I don't remember
8 them off the top of my head, but they're about the same.

9 So this would limit that initial, set of fees
10 that you would have, and it would enable you as a small
11 company to postpone some of those larger expenses
12 further out. And those larger expenses hopefully could
13 be diminished as well. You have other costs such as the
14 translation costs, which is another separate issue that
15 I think that the USPTO would need to work with foreign
16 countries to seek this sort of country-to-country
17 resolution.

18 Another solution could be to allow small
19 venture-backed companies to compete for SBIR finance,
20 which it can't do currently.

21 I understand one member of the panel is from the
22 SBA. And Nodality had this issue come up in the last
23 few years. A legislative solution was attempted a few
24 years ago to allow SBIR grants to go to venture-backed
25 companies. And it was passed in the House. It was

1 H.R.2695. However, when it went to the Senate it got
2 stalled. That was Senate Bill 1223. And these types of
3 grants would have been really good in helping us, at
4 least, if we could have used them for foreign filing and
5 other fees.

6 And again, we had applied for an SBIR grant.
7 Actually we received a very high score on our grant. I
8 don't know if it was the highest that they give, but it
9 was very high. And when we spoke with the grant
10 examiner to talk to them about our status, corporate
11 status, the examiner was actually disappointed that they
12 couldn't award us the money. And of course those fees
13 could have covered the foreign filing costs, and it
14 would have been adequate for several years, even for the
15 extensive fees that you get when you issue a case.

16 It's my understanding, although I don't have
17 paperwork here, but it's my understanding that it still
18 may be coming up for passage again. And I don't have
19 the numbers for the House and the Senate bills, but that
20 would be helpful for us particularly, and other
21 companies.

22 Regarding question 5(b) and (c), I would just say
23 that the USPTO would work with foreign patent offices to
24 try to eliminate these redundancies that every country
25 seems to have to go through the same search and

1 examination. Again, try to eliminate translations which
2 tend to be the most expensive component to foreign
3 filing.

4 And then with respect to enforcement. That's
5 another very large expense for the small companies.
6 It's even prohibitive in most situations. But
7 harmonization, if we had it for a particular law with
8 respect to each country, it would open the door for a
9 more friendly environment for using foreign judgments in
10 different countries to be harmonized or brought into
11 another country.

12
13 I actually wrote an article about a dozen years
14 ago about that, and the prospects weren't very good.
15 But if the country's laws are the same, it seems like it
16 would be easier to enforce in other countries.

17 The next question was, what role should the
18 Federal Government play in assisting small businesses to
19 defray the costs of filing.

20 I suggest that it would be a little easier,
21 rather than setting up new organizations to administer
22 funds for foreign filing, it may be more straightforward
23 to have arrangements with other foreign patent offices
24 to reduce the redundancy and eliminate those costs
25 first, and then rely on the current grant-type systems

1 that we have in place, such as with the SBIR grants and
2 things through the NCI and NIH.

3 Oftentimes the entities who are small are seeking
4 these types of funds anyway, and so it might be easier
5 to rely on those formats, and also, the grants
6 might have been -- other grants might have been applied
7 for, and this would be similar to what have already been
8 seen.

9 Regarding question 7, I feel strongly that
10 assisting small companies with international expenses is
11 still an important idea, no matter which way it's
12 funded. I personally think that it would be better to
13 use existing frameworks in distributing funds. And I
14 don't have a lot of experience with respect to loans and
15 Federal loans. But I would just simply ask a couple of
16 questions such as, I heard the matching issue
17 come up with Vern, and I think that's a good idea.

18 And another question that I would have would be
19 how would one repay the loans, and whether they would be
20 subordinate to other debt, because that's an important
21 thing to a small company, and if they would be secured
22 by the IP the company owns.

23 I won't go over question 8 because it's more or
24 less embodied in some of the other responses.

25 And then regarding question 9, I would just

1 personally think that a grant program might be a little
2 easier to administer because a structure is already in
3 place for that.

4 So in summary, I would just like to say that
5 small entities deserve every opportunity to protect
6 their ideas in foreign countries, as their technology is
7 typically in its early and broadest stage. It's here
8 that it's most vulnerable. External funding is
9 difficult to get for these expenses, and an alternative
10 mechanism would be very welcomed, which mechanism can be
11 subject to debate, however, and all methods I would like
12 to see pursued.

13 Further harmonization with respect to patent laws
14 should be sought to avoid repeating the same tasks in
15 this country, and you get a fee reduction without any
16 extra structuring.

17 Existing organizations as the SBA and other
18 federal agencies can provide grant funding to small
19 companies in need, and they have the mechanism set up to
20 review the proposals and simply allow the grant money to
21 be used for that purpose.

22 So that's it for my comments. And I would just
23 like to say that I really appreciate the ability to
24 speak to you, and speak with a voice of a small life
25 science company, which I think really could use some

1 assistance in the way that you're suggesting.

2 STUART GRAHAM: Thank you, Phil.

3 This is Stu Graham. I do appreciate your
4 comments as well. It's very important for us to hear
5 from people who are working at companies who are facing
6 these issues day in and day out.

7 If I might just make a quick comment.

8 Yours and other members of the panel who -- your
9 comments concerning harmonization and increased
10 economizing in the work that patent offices do, that's
11 something that we are vigorously pursuing at the USPTO,
12 because we really do understand that this is one of
13 those few win-win-win situations in which patent offices
14 can enjoy some economies at the same time that users of
15 the system can as well.

16 It does seem like a theme. And indeed we're
17 pursuing it as a goal that has a lot of value imbedded
18 in it.

19 At the same time, though, I'm very intrigued by
20 some of your comments, and you may not want to share
21 this, some of your comments about having to make the
22 decision where the rubber meets the road about pursuing
23 patent protection as a zero-sum game.

24 So, if I might ask you, and if you're willing to
25 say, when you choose to pursue that foreign patent

1 filing, what does your small company give up? What
2 don't you do because you're having to use that money to
3 pursue what is very expensive protection overseas?

4 PHILIP MCGARRIGLE: Well, that's a good question.
5 And sometimes I think that there isn't a specific
6 one-to-one trade. However, we've had to cut costs about
7 a year ago and we had to let people go, and we had to
8 put people on part-time status, and that's a trade-off
9 right there.

10 Recently the board has looked at the legal
11 expenses, and has overshot the budget for this year, and
12 so multiple board members were concerned about that
13 coming up. And, you know, if we start to -- if we
14 continue to go through the year with this sort of
15 restructuring, this conservatism, then we would
16 certainly have to abbreviate the U.S. foreign -- excuse
17 me -- the U.S. filing plans that we have, and also some
18 of the foreign filing plans that we have too, which is
19 more like a one-to-one trade-off. And for every one
20 foreign filing application we go with, I would say that
21 that would cut out three or four different U.S.
22 applications, which of course is starting off the
23 invention themselves. And we're trying to come forward
24 with a single product, and we have that foreign file.
25 But for the subsequent products, you know, if we can't

1 file them in the United States now, and then follow them
2 through in foreign countries, then when we come out with
3 those products, we won't be protected for those. So it
4 would be a short-term gain, but a long-term loss.
5 So, what's the trade-off? The trade-off is
6 ultimately some of our U.S. cases, in the short-term it
7 means that we lay people off. So that was pretty
8 difficult to take.

9 STUART GRAHAM: Thank you. Thank you, Phil.

10 Other questions from the panel?

11 Any questions from the audience?

12 (Questions.)

13 All right, Phil. Let me just say thank you.

14 And let me say thank you to all our speakers
15 today. I very much appreciate the comments and the
16 testimony that was given.

17 I do thank you for what I found to be very
18 meaningful participation in giving testimony for the
19 International Patent Protection study.

20 I repeat how much your input is valued by the
21 agency. And it is our goal to make our report to
22 Congress as thorough and thoughtful as possible.

23 Before I formally end today, I did want to give
24 one more opportunity for anyone in the audience to make
25 comments on this issue.

1 (No comments.)

2 Very well.

3 So, as a final reminder, let me just state that
4 written comments for both the International Patent
5 Protection study and the prior User Rights study are
6 needed by November 8th, as our reports to Congress are
7 due in mid-January of 2012.

8 We do encourage those listening today, either if
9 you're in the audience or via teleconference, to
10 consider submitting input to the agency through written
11 comments. It is not too late.

12 I do close today by thanking our hosts here at
13 the University of Southern California for providing such
14 a great opportunity for us to come and speak with the
15 people in the California region.

16 And I do now officially close the International
17 Patent Protection Study Hearing. And I do wish everyone
18 here safe travels back to home or work.

19 Thanks.

20

21 (End of Public hearing on the Study of
22 International Patent Protection for Small Businesses.)

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25

1 COURT REPORTERS CERTIFICATE

2 STATE OF CALIFORNIA)
3)
4 COUNTY OF LOS ANGELES)ss.
5)
6 _____)

5

6 I, Laurie A. Schmidt , hereby certify:

7 I am a duly qualified Certified Shorthand
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9 Certificate Number CSR 12719 issued by the Court
10 Reporters Board of California and which is in full
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12 I am not financially interested in this
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14 of the parties, or of any of the parties.

15 I am the reporter that stenographically
16 recorded the testimony in the foregoing proceeding and
17 the foregoing transcript is a true record of the
18 testimony given.

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