

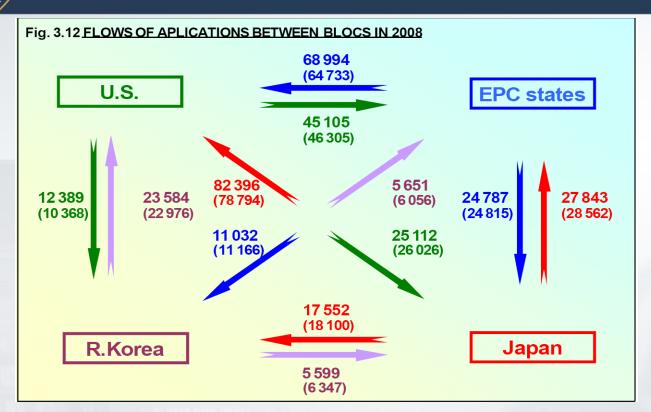
The Patent Prosecution Highway at the USPTO

FICPI Forum

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Work Sharing in Context



- Application flows in 2008 (China omitted)
- 2007 figures in parentheses for comparison



PPH Background

- Patent Prosecution Highway
 - Based on JPO concept
 - Intended to correct Paris Route timing imbalances
 - Final framework product of JPO-USPTO collaboration
 - Pilot USPTO-JPO PPH launch in 2006
 - First true, implemented work sharing framework



What is PPH?

 When claims are determined to be allowable in the Office of First Filing (OFF), a corresponding application with corresponding claims filed in the Office of Second Filing (OSF) may be fast-tracked for examination

What is the Purpose of PPH?

 OSF can utilize the search and examination results of the OFF thereby avoiding duplication of work and expediting the examination process in the OSF



- Corresponding Applications—Options
 - Paris Route PPH
 - Paris priority applications
 - PCT Bridge filings
 - Certain non-binding work product, e.g., EPO's EESR
 - PCT-PPH
 - Pilot launched January 29, 2010 among Trilateral
 Offices; other offices have subsequently been added
 - Positive WO/ISA, WO/IPEA or IPER



- A few more words about corresponding applications
 - Current Paris Route PPH has a built-in priority-based "one way valve"—reusable work can only flow from the office of first filing (OFF) to an office of second filing(OSF)
 - PCT-PPH slightly different, but similar concept—reuse of earlier international phase work in the national phase



- New approach: MOTTAINAI
- Expanded eligibility de-linking priority
 - Original PPH framework based on unidirectional work flow OFF → OSF
 - New approach:
 - Eligibility based on available work from a participating office on a patent family member, regardless of order of filing
 - Will give applicants greater flexibility and increase pool of potentially eligible applications
 - Some concerns, especially forum shopping
 - Pilot began July 15 with 7 other offices



Claim Correspondence

- All claims in the OSF application must "sufficiently correspond" to the allowable claims in the OFF application
- The participating offices recently agreed to the following definition and implementation of the claim correspondence requirement



- All claims on file, as originally filed or as amended, for examination under the PPH must sufficiently correspond to one or more of those claims indicated as allowable in the OFF.
- Claims are considered to "sufficiently correspond" where, accounting for differences due to translations and claim format, the claims in the OSF are of the same or similar scope as the claims in the OFF, or the claims in the OSF are narrower in scope than the claims in the OFF.
- In this regard, a claim that is narrower in scope occurs when an OFF claim is amended to be further limited by an additional feature that is supported in the specification (description and/or claims).
- A claim in the OSF which introduces a new/different category of claims to those claims indicated as allowable in the OFF is not considered to sufficiently correspond. For example, the OFF claims only contain claims to a process of manufacturing a product, then the claims in the OSF are not considered to sufficiently correspond if the OSF claims introduce product claims that are dependent on the corresponding process claims."
- (i) It is an option whether the narrower claims should be written as dependent claims. Each office can add the requirement to the proposed template.
- (ii) When the guideline does not explicitly refer to this point, it is regarded to allow the narrower claims are written as independent claims.



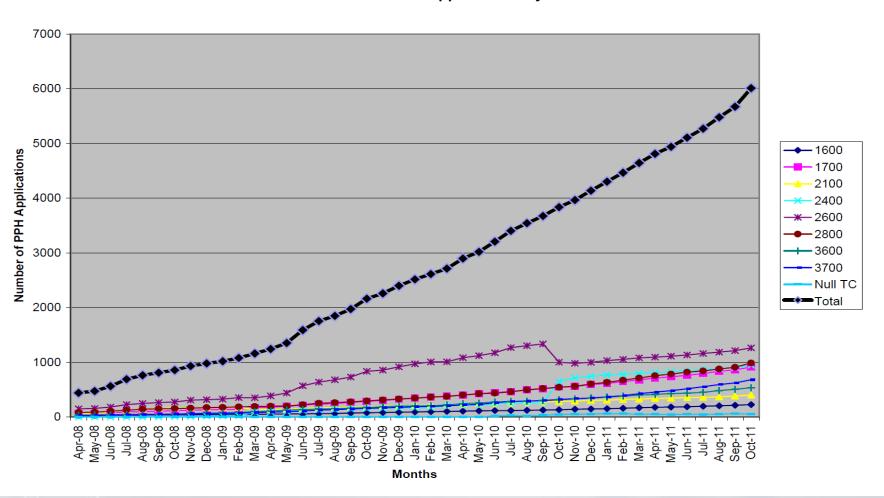
PPH Stats—Paris Route (Select Offices)

First Office	Start Date	Requests (as of October 31, 2011)	TOTAL NUMBER OF REQUESTS
JPO	July 2006	4464 278 (Pilot) 4186 (Full)	
KIPO	Jan. 2008	811 134 (Pilot) 677 (Full)	
UKIPO	Sept. 2007	189	Total—All Offices
CIPO	Jan. 2008	98	6013
IPAU	April 2008	97	
EPO	Sept. 2008	178	
DKPTO	Nov. 2008	89	
DPMA	April 2009	59	
NBPR	July 2009	19	
НРО	July 2010	1	
Rospatent	Sept. 2010	6	
SPTO	Oct. 2010	0	
APO	Oct. 2010	0	



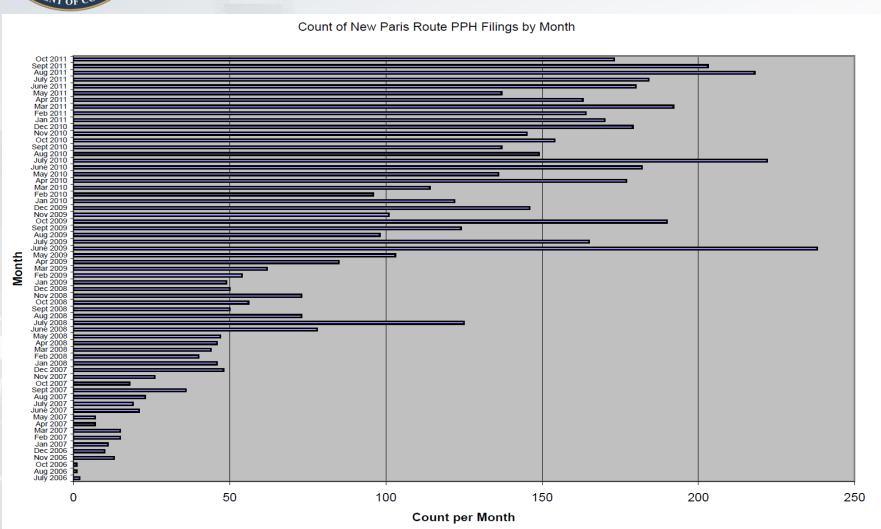
PPH Stats—Paris Route

Cumulative Paris Route PPH Applications By TC and Month





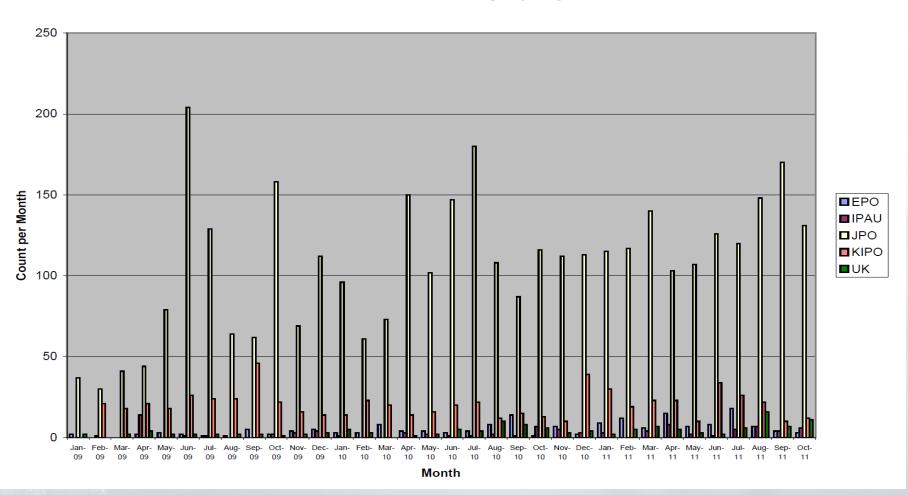
PPH Stats—Paris Route





PPH Stats—Paris Route

Count of New Paris Route PPH Filings by Region and Month





Other Data—Paris Route

Overall Statistics for Paris Route Patent Prosecution Highway Programs

· Statistics for PPH requests filed in the USPTO under Paris Route PPH programs

As of: 10/31/2011

Number of requests to participate in the PPH Program

6,013

Number of these requests that are not eligible because a first action on the merits was mailed before the requests were considered, or cannot be granted because the request has been dismissed twice.

347

Breakdown of applications and application data by Tech Center

	Number of Requests Filed	Days from PPH Request to Grant	Days from PPH Grant to First Action
Technology Center 1600	227	117.65	205.96
Biotechnology and Organic Chemistry			
Technology Center 1700	913	66.39	103.56
Chemical and Materials Engineering			
Technology Center 2100	402	70.15	108.93
Computer Architecture Software and Information Systems			
Technology Center 2400	946	67.99	127.20
Multiplex, Networking, Cable TV, Computer Security			
Technology Center 2600	1,263	59.95	140.34
Communications			
Technology Center 2800	988	58.19	74.16
Semiconductors and Electronic Circuits and Components			
Technology Center 3600	537	48.08	89.46
Mechanical Engineering			
Technology Center 3700	681	25.42	122.62
Mechanical Engineering			
Applications undergoing Pre-Exam without a Technology Center assignment	56	0.00	0.00

Eligible requests 5,666
Requests granted 5,180
Requests dismissed once and awaiting further action 71
Requests not acted upon 415



Other Data—Paris Route

Overall Statistics for Paris Route Patent Prosecution Highway Programs

• Statistics for PPH requests filed in the USPTO under Paris Route PPH programs

			Percent w/
PPH requests received by the USPTO		6,013	First Action
	Total	4,781	79.51%
	First Action Allowance	1,232	25.77%
FAs	First Action Quayle	84	1.76%
	First Action Rejection*	3,097	64.78%
	(- art rejections)**	2,671	86.24%
	(- non art rejections)	426	13.76%
	First Action Restriction	368	7.70%
PPH requests for accelerated examination rejected			
for not satisfying PPH requirements		347	
Average period from request to FA		185.4 days	

* First Action !	Rejections	subsequent	ly allowed:
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** Art Rejections where U.S. Patent documents used:

1,610 out of 2,483 out of

3,097 times 2.671 times

Grant Rate (Allowances / Total number of Disposals)

87.47%



PPH Stats—PCT Route (Select Offices)

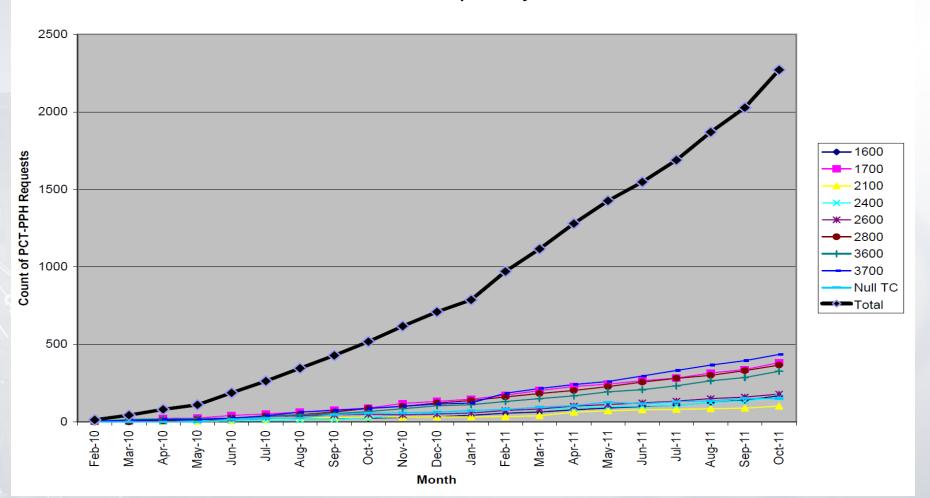
ISA	Start Date	Requests (as of August 31, 2011)	TOTAL NUMBER OF REQUESTS
JPO	Jan. 2010	473	
EPO	Jan. 2010	698	Total 2271
USPTO*	Jan. 2010	119	
KIPO	June 2010	851	
APO	Oct. 2010	7	
ROSPATENT	Oct. 2010	6	
SPTO	Oct. 2010	2	
NBPR	Jan. 2011	34	
IP Australia	Jan. 2011	69	
PRV	June 2011	9	

^{*} As part of the Trilateral PCT-PPH Pilot, each Trilateral Office implemented PPH for its own national/regional phase applications where it was the ISA/IPEA



PPH Stats—PCT Route

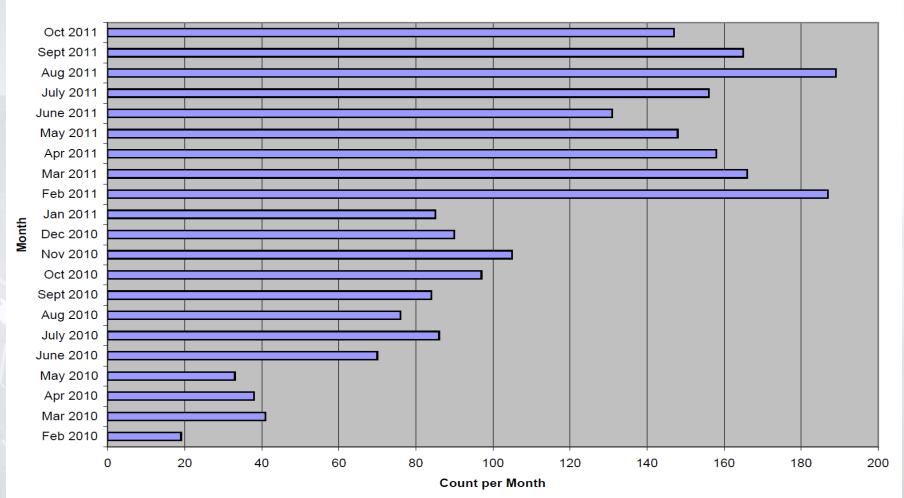
Cumulative PCT-PPH Requests By TC and Month





PPH Stats—PCT Route

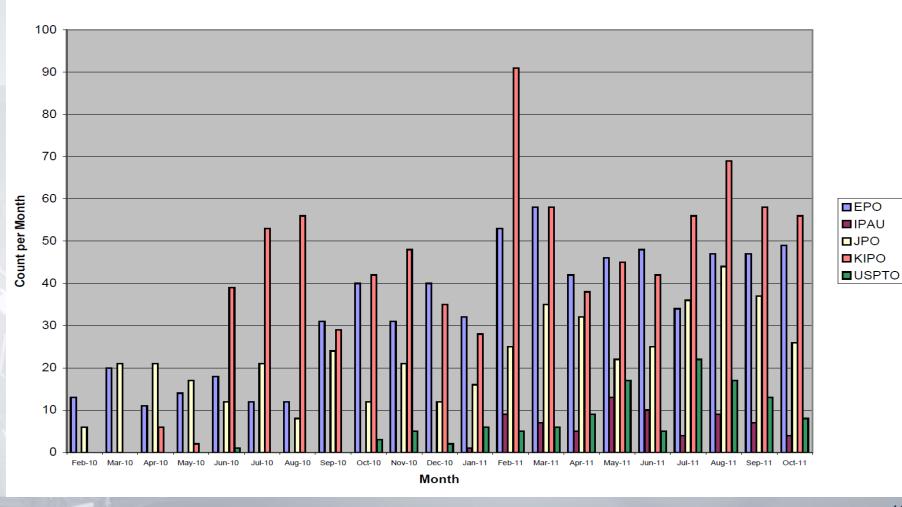






PPH Stats—PCT Route

Count of New PCT-PPH Filings by Region and Month





Other Data—PCT Route

Overall Statistics on the PCT-Patent Prosecution Highway Program

• Statistics for PPH requests filed in the USPTO under all PCT-PPH programs

- The PCT-PPH program started on January 29th, 2010

As of: 10/31/2011 2,271

Number of these requests that are not eligible because a first action on the merits was mailed before the requests were considered, or cannot be granted because the request has been dismissed twice.

106

Breakdown of applications and application data by Tech Center

	Number of Requests Filed	Days from PPH Request to Grant	Days from PPH Grant to First Action
Technology Center 1600	168	115.37	109.33
Biotechnology and Organic Chemistry			
Technology Center 1700	383	75.84	48.75
Chemical and Materials Engineering			
Technology Center 2100	102	68.33	63.04
Computer Architecture Software and Information Systems			
Technology Center 2400	159	71.86	89.45
Multiplex, Networking, Cable TV, Computer Security			
Technology Center 2600	180	66.23	94.63
Communications			
Technology Center 2800	367	65.22	62.71
Semiconductors and Electronic Circuits and Components			
Technology Center 3600	327	68.76	59.70
Mechanical Engineering			
Technology Center 3700	435	27.40	72.25
Mechanical Engineering			
Applications undergoing Pre-Exam without a Technology Center assignment	150	160.00	0.00

Eligible requests 2,165
Requests granted 1,546
Requests dismissed once and awaiting further action 73
Requests not acted upon 546



Other Data—PCT Route

Overall Statistics on the PCT-Patent Prosecution Highway Program

PPH requests received by the USPTO		2,271	Percent w/ First Action
	Total	1,199	52.80%
	First Action Allowance	226	18.85%
FAs	First Action Quayle	19	1.58%
	First Action Rejection*	755	62.97%
	(- art rejections)** (- non art rejections)	672 83	89.01% 10.99%
	First Action Restriction	199	16.60%
PPH requests for accelerated examination rejected for not satisfying PPH requirements		1	106
Average period from request to FA		122.6 days	

* First Action Rejections subsequently allowed:

208 640 out of

755 times 672 times

** Art Rejections where U.S. Patent documents used:

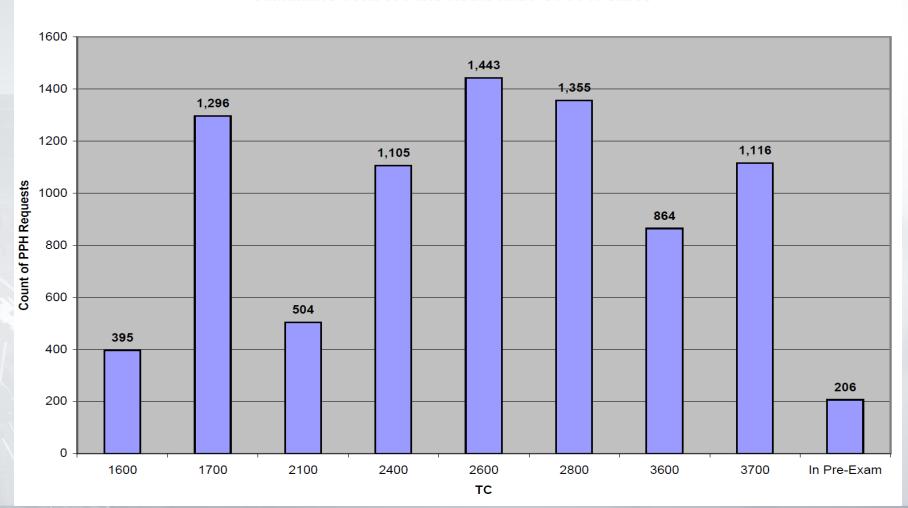
Grant Rate (Allowances / Total number of Disposals)

92.59%



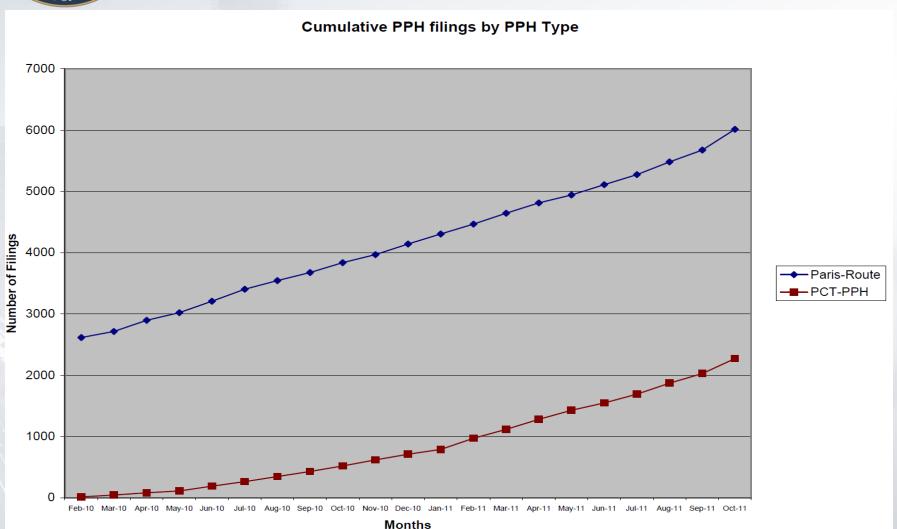
PPH Stats—Combined, by TC

Cumulative Total of Paris-Route and PCT-PPH Cases





PPH Stats, Cumulative





Comparison with PCT Growth

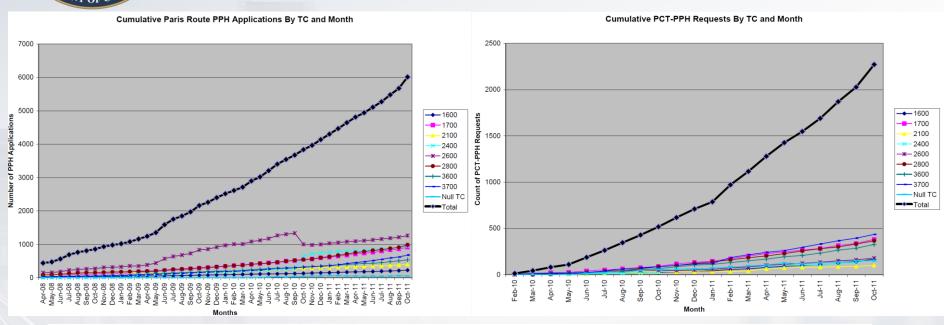


Figure 1.1. Trends in PCT Applications, 1978 - 2009

200,000
150,000
100,000
42.9
9.9 9.0 8.2 17.7 29.1 11.0 17.8 31.2 18.7 33.5 15.6 11.0 14.7 17.4 17.0 20.5 18.4 17.5 19.8 22.1 16.1 2.0 4.4 6.4 11.5 9.4 6.9 2.1 4.5

50,000
1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009

Annual Growth (in %) — PCT Applications



PPH Data—Processing

Higher Allowance Rates
 USPTO Allowance Rates

PPH Paris Route cases: 87.5%

PCT-PPH cases: 93%

All cases: 48% (incl. RCEs) (as of Sept. 2011)

 Fewer Communications Needed USPTO actions per disposal

PPH Paris Route cases: 2.13*

PCT-PPH cases: 1.61**

All cases: 2.51 (as of Sept. 2011)

* cumulative from July 2006-June 2011

** cumulative from Jan. 2011-June 2011



PPH Data—Processing

- Reduced rates of RCE filings
 - About 11% currently
 - Overall rate = about 31%

- Reduced rates of appeal
 - About 0.3% currently
 - Overall rate = about 2.5%



PPH Data—Quality

- Internal USPTO study of 155 First-action Allowances
 - 98% New search recorded
 - 94% Additional art cited
 - 40% Examiner's amendment/interview

- All PPH cases in random annual review
 - Allowance error rate slightly better
 - Nearly all on subject matter eligibility issues



- Fewer office actions means fewer replies/amendments
- Assuming reply/amendment of minimal complexity

<u>Average Cost Savings per Action from Using PPH = \$2086</u>

(Source: AIPLA Report of the Economic Survey, 2011)

So-

For each non-PPH application: (\$2086/response x 2.51 actions) = \$5236 in costs For a Paris-route PPH application: (\$2086 x 2.13 actions) = \$4443 \rightarrow \$793 SAVINGS For a PCT-PPH application: (\$2086 x 1.61 actions) = \$3358 \rightarrow \$1836 SAVINGS

Notes:

- Does <u>not</u> include client overhead savings or local law firm fee savings for response to Action
- Does not consider fewer RCEs and Appeals (see later slide)
- Does <u>not</u> consider Fees/Costs for requesting PPH
 Assumes request fees are equal to savings of client overhead
- Assumes no government fee (USPTO eliminated fee)
- Assumes for foreign applicants that the total local <u>and</u> US attorney costs equal the above average of \$2086 per action
- Thanks to Hung Bui and Alan Kasper of AIPLA for compiling cost savings data



For replies/amendments of <u>relative</u> complexity

<u>Average Cost Savings per Action</u> = \$2978 - \$3889

So-

Non-PPH applications:

Min: $(2.51 \times 2978) = 7475

Max: $(2.51 \times 3889) = 9761

Paris-route PPH applications:

Min: $(2.13 \times 2978) = 6343

Max: $(2.13 \times 3889) = \$8284 \rightarrow \text{SAVINGS} = \$1132 - \$1477/\text{case}$

PCT-PPH applications:

Min: $(1.61 \times \$2978) = \4795

Max: $(1.61 \times $3889) = $6261 \rightarrow SAVINGS = $2620 - $3422/case$



Average Added Cost Savings for RCEs and Appeals from Fees Avoided

Relevant USPTO Statistics (from prior slide)

RCE filing rates: 11% for PPH vs. 31% for non-PPH Appeal rates: 0.3% for PPH vs. 2.5% for non-PPH

Applicable USPTO Fees

RCEs - \$810

Appeals - \$1000 (\$500 Appeal and \$500 Brief)

Cost savings – government fees only

RCEs – on average 20% (31% - 11%) of \$810 = \$162Appeals – on average 2.2% (2.5% - 0.3%) of \$1000 = \$22

<u>Total</u> added savings on average = \$184



Hypothetical <u>complex</u> case (assumes high end of cost savings (\$3889 per action) and avoided RCE/appeal filing)

Paris Route PPH Savings:

Savings on Action	\$ 1477
Savings on RCE fees	810
Savings on Appeal fees	1000
Savings on Appeal services	4931
(without oral argument)	

Total savings = \$8218 per application

PCT Route PPH

Savings on Action	\$3422
Savings on RCE fees	810
Savings on Appeal fees	1000
Savings on Appeal services	4931
(without oral argument)	

Total savings = \$10,163 per application



Future Plans

USPTO Action Plan to enhance PPH:

- target numerical goals
 - 4000 total requests by end of 2010 met
 - 8000 by end of 2011 exceeded!!
 - 400/month for 2012 ?
- Conduct PPH awareness campaigns, internationally and domestically



Future Plans

- Evolution of PPH "PPH 2.0"
 - Common framework to replace bilateral arrangements
 - Expanded eligibility (MOTTAINAI model)
 - Streamlines the PPH to make it more userfriendly, but not at the expense of work sharing benefits
 - Discussions underway



Useful Information

- Dedicated USPTO PPH web page (http://www.uspto.gov/patents/init_events/pph/index.jg sp) including links to:
 - FAQs
 - PPH "how-to" and informational video
 - Downloadable information brochure
 - Question and feedback e-mail inbox
- PPH information portal site with statistics and other information from all participating offices (http://www.jpo.go.jp/cgi/linke.cgi?url=/ppph-portal/index.htm)



Thank you!