

# PCT

## THE INTERNATIONAL PATENT SYSTEM >> TRENDS AND ANALYSIS

Quarterly Statistics Report

July-Sept. **2009**



WORLD  
INTELLECTUAL  
PROPERTY  
ORGANIZATION

## FOREWORD

The aim of this report is to provide users with the latest available statistics of PCT international applications. This report includes PCT applications statistics and a core set of indicators to provide information on the latest trends in PCT filings. The data used in this document, along with longer time series, are available for download from the PCT statistics website:

[www.wipo.int/ipstats/en/statistics/pct](http://www.wipo.int/ipstats/en/statistics/pct)

Statistics reported in this document are based on:

- PCT international applications that refer to patent applications filed under the Patent Cooperation Treaty (PCT). PCT filings and PCT applications are used interchangeably to refer to PCT international applications.
- The statistics include only the international phase of the PCT procedure (i.e. they do not include national/regional phase statistics).
- Counts are based on either the international filing date or the publication date. The selection of the reference date depends on the indicator and what the indicator attempts to measure.
- The statistics reported here cover the most recent quarters and yearly totals. Quarterly and yearly statistics from 2000 onwards are available for download from the PCT statistics web site. Statistics for year 2009 are provisional and incomplete.

### Useful links

PCT Statistics: PCT monthly, quarterly and yearly statistics - [www.wipo.int/ipstats/en/statistics/pct/](http://www.wipo.int/ipstats/en/statistics/pct/)

WIPO Industrial Property Statistics: Statistics on patents, utility models, PCT, trademarks, industrial designs, plant varieties and microorganisms - [www.wipo.int/ipstats/en/](http://www.wipo.int/ipstats/en/)

PATENTSCOPE<sup>®</sup>: WIPO's gateway to patent services and activities – [www.wipo.int/patentscope/en/](http://www.wipo.int/patentscope/en/)

PCT Resources - <http://www.wipo.int/pct/en/>

Contact: [ipstats.mail@wipo.int](mailto:ipstats.mail@wipo.int)

## TABLE OF CONTENTS

Trends in PCT Filings

PCT Filings by Medium of Filing

PCT Filings by Top 12 Countries of Origin

Long-term Trends in PCT Filings

PCT Applications by International Patent Classification (IPC): Top 25 IPC Subclasses

PCT Applications by Field of Technology

Relative Specialization Index: PCT Applications by Field of Technology (Top 6 Countries of Origin)

Focus on a Specific Technology: Biotechnology PCT Applications

International Searching Authorities Selected by Applicants and International Search Reports  
Established by International Searching Authorities

Methodological Information

Annex A1: Number of PCT Applications by International Patent Classification

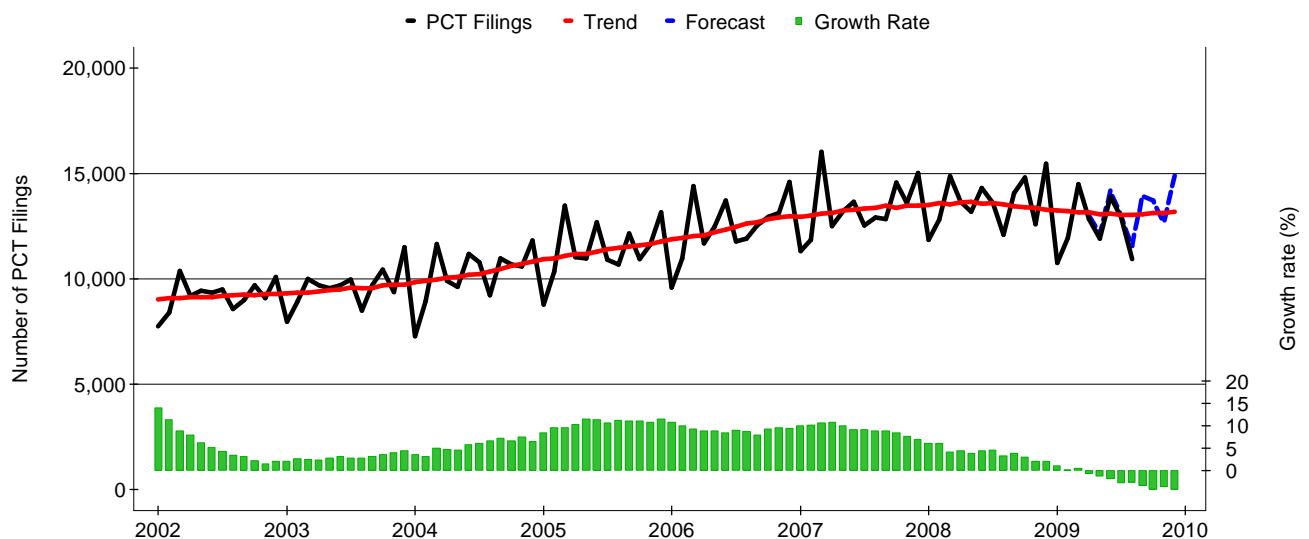
Annex A2: Number of PCT Applications by Field of Technology: Leading Countries

Annex A3: Biotechnology PCT Applications: Top 10 Countries of Origin

Annex A4: International Searching Authorities Selected by PCT Applicants and International Search  
Reports Established by International Searching Authorities

## Trends in PCT Filings

Figure 1: Trends in PCT Filings



Source: WIPO Statistics Database

Note: 2009 data are provisional and incomplete. The growth rate is the annualized growth rate based on the trend line. Counts are based on the international filing date. Trend line is based on moving average (MA) using six lagged terms, current observation and 5 forward terms.

### Trends in PCT Filings

Source: WIPO Statistics Database, November 2009

Note: 2009 data are provisional and incomplete. The growth rate is the annualized growth rate based on the trend line. Counts are based on the international filing date.

#### Number of PCT Filings

Year	Month												Total
	1	2	3	4	5	6	7	8	9	10	11	12	
2000	5,525	6,694	8,573	7,151	8,185	8,356	7,244	7,850	7,863	8,457	8,409	8,936	93,243
2001	7,494	8,654	10,616	8,554	9,684	9,368	8,769	8,638	8,586	9,490	9,176	9,207	108,236
2002	7,746	8,392	10,383	9,183	9,449	9,340	9,487	8,560	9,002	9,687	9,093	10,081	110,403
2003	7,971	8,896	9,982	9,685	9,563	9,672	9,953	8,511	9,680	10,433	9,371	11,489	115,206
2004	7,280	8,926	11,653	9,902	9,620	11,179	10,789	9,220	10,967	10,697	10,596	11,805	122,634
2005	8,792	10,340	13,466	11,023	10,956	12,692	10,900	10,699	12,159	10,942	11,622	13,163	136,754
2006	9,592	10,958	14,392	11,680	12,466	13,721	11,773	11,902	12,528	12,935	13,123	14,594	149,664
2007	11,302	11,843	16,025	12,483	13,200	13,649	12,535	12,914	12,827	14,541	13,586	15,040	159,945
2008	11,830	12,793	14,880	13,648	13,191	14,308	13,574	12,092	14,052	14,812	12,582	15,472	163,234
2009 (to date)	10,756	11,940	14,504	12,835	11,899	13,895	12,927	10,944					99,700

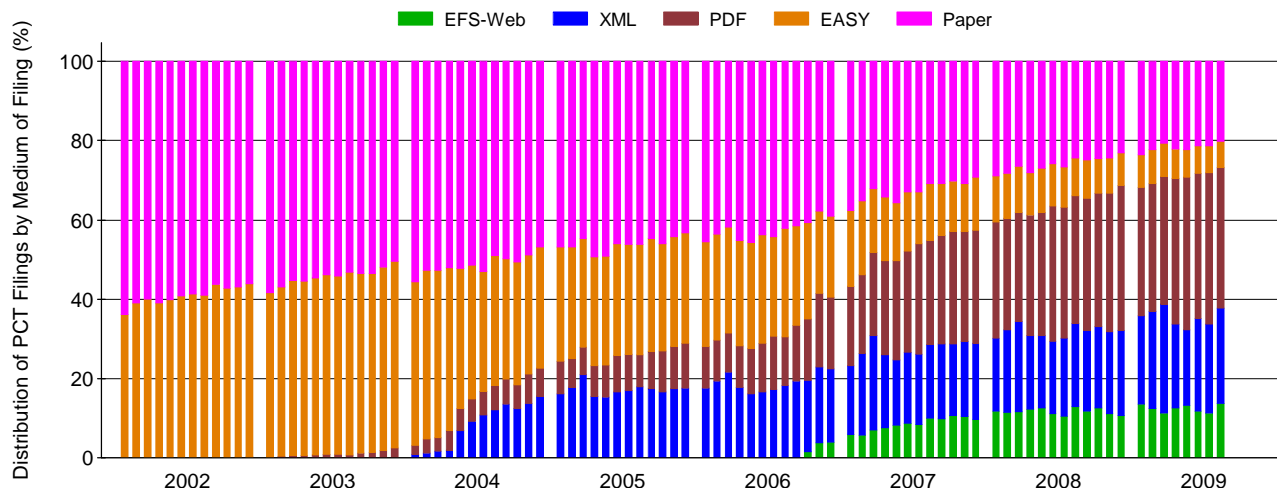
#### Annualized Growth Rate of PCT Filings (based on trend line)

Year	Month												Total
	1	2	3	4	5	6	7	8	9	10	11	12	
2000	34.0	28.3	15.4	16.0	18.3	18.0	17.4	20.3	20.2	21.4	22.1	22.1	22.1
2001	23.5	24.0	24.2	24.2	22.8	21.5	22.3	20.6	19.9	18.7	17.7	16.1	16.1
2002	13.9	11.4	8.8	8.0	6.1	5.1	4.2	3.4	3.1	2.3	1.4	2.0	2.0
2003	2.0	2.7	2.5	2.4	2.7	3.1	2.8	2.8	3.1	3.6	3.9	4.4	4.4
2004	3.5	3.1	5.0	4.7	4.6	5.7	6.0	6.6	7.1	6.7	7.5	6.4	6.4
2005	8.4	9.6	9.6	10.4	11.5	11.3	10.6	11.2	11.0	11.0	10.7	11.5	11.5
2006	10.8	10.0	9.2	8.8	8.8	8.3	8.9	8.6	7.9	9.2	9.5	9.4	9.4
2007	10.0	10.2	10.6	10.7	10.0	9.2	9.0	8.8	8.8	8.4	7.6	6.9	6.9
2008	6.0	6.0	4.1	4.4	3.9	4.3	4.5	3.3	3.9	3.0	2.1	2.1	2.1
2009 (to date)	1.1	-0.1	0.4	-0.7	-1.4	-1.9	-2.8	-2.7					

- Between January and August 2009, around 99,700 PCT international patent applications were filed under the Patent Cooperation Treaty (PCT), representing a 6.2% decrease from the previous year (January-August, 2008).
- The annualized growth rate of PCT filings show a decrease in monthly PCT filings for the most recent months (figure 1), reflecting the global economic crisis. The total number of filings in 2009 (year total) is expected to be lower than the 2008 total. This represents a negative growth in filings for the first time since the establishment of the Patent Cooperation Treaty.
- There has been a continuous increase in the share of PCT filings submitted in electronic format (PDF, XML and EFS-Web). In August 2009, 73.2% of total PCT filings were submitted in electronic format (figure 2). PDF (35.5%) is the most commonly used format for PCT filings, followed by XML (23.9%).

# PCT Filings by Medium of Filing

## Figure 2: PCT Filings by Medium of Filing



Source: WIPO Statistics Database

Note: 2009 data are provisional and incomplete. Counts are based on the international filing date. EASY (Electronic Application System) and EFS-Web (Electronic Filing System).

### Trends in PCT Filings by Medium of Filing (Paper, EASY, PDF, XML and EFS-Web)

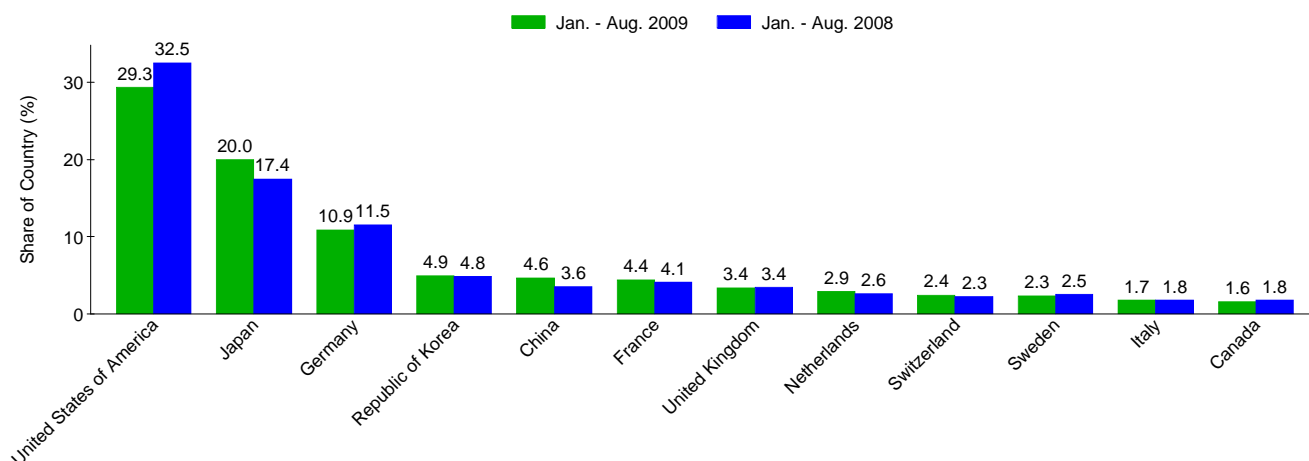
Source: WIPO Statistics Database, November 2009

Note: 2009 data are provisional and incomplete. Counts are based on the international filing date. EASY (Electronic Application System) and EFS-Web (Electronic Filing System).

		Number of PCT Filings by Medium of Filing						Share of PCT filings by Medium of Filing (%)				
Year	Month	Total	Paper	EASY	PDF	XML	EFS-Web	Paper	EASY	PDF	XML	EFS-Web
2004	-	122,634	62,713	42,582	6,724	10,615		51.1	34.7	5.5	8.7	
2005	-	136,754	62,936	38,050	12,123	23,645		46.0	27.8	8.9	17.3	
2006	-	149,664	63,478	37,738	19,695	27,495	1,258	42.4	25.2	13.2	18.4	0.8
2007	-	159,945	52,186	23,587	40,246	30,207	13,719	32.6	14.7	25.2	18.9	8.6
2008	-	163,234	42,508	16,515	52,375	32,723	19,113	26.0	10.1	32.1	20.0	11.7
2009	-	99,700	21,691	7,453	35,175	22,992	12,389	21.8	7.5	35.3	23.1	12.4
2006	9	12,528	5,197	3,149	1,763	2,419		41.5	25.1	14.1	19.3	
2006	10	12,935	5,259	3,149	1,997	2,332	198	40.7	24.3	15.4	18.0	1.5
2006	11	13,123	4,956	2,740	2,424	2,512	491	37.8	20.9	18.5	19.1	3.7
2006	12	14,594	5,705	2,978	2,628	2,714	569	39.1	20.4	18.0	18.6	3.9
2007	1	11,302	4,260	2,155	2,257	1,977	653	37.7	19.1	20.0	17.5	5.8
2007	2	11,843	4,177	2,205	2,345	2,447	669	35.3	18.6	19.8	20.7	5.6
2007	3	16,025	5,148	2,580	3,368	3,803	1,126	32.1	16.1	21.0	23.7	7.0
2007	4	12,483	4,275	2,020	2,948	2,299	941	34.2	16.2	23.6	18.4	7.5
2007	5	13,200	4,717	1,939	3,277	2,175	1,092	35.7	14.7	24.8	16.5	8.3
2007	6	13,649	4,496	2,054	3,472	2,433	1,194	32.9	15.0	25.4	17.8	8.7
2007	7	12,535	4,135	1,640	3,493	2,204	1,063	33.0	13.1	27.9	17.6	8.5
2007	8	12,914	3,998	1,849	3,378	2,394	1,295	31.0	14.3	26.2	18.5	10.0
2007	9	12,827	3,963	1,676	3,512	2,421	1,255	30.9	13.1	27.4	18.9	9.8
2007	10	14,541	4,402	1,843	4,127	2,618	1,551	30.3	12.7	28.4	18.0	10.7
2007	11	13,586	4,201	1,626	3,777	2,561	1,421	30.9	12.0	27.8	18.9	10.5
2007	12	15,040	4,414	2,000	4,292	2,875	1,459	29.3	13.3	28.5	19.1	9.7
2008	1	11,830	3,416	1,380	3,466	2,172	1,396	28.9	11.7	29.3	18.4	11.8
2008	2	12,793	3,612	1,457	3,598	2,657	1,469	28.2	11.4	28.1	20.8	11.5
2008	3	14,880	3,955	1,713	4,105	3,365	1,742	26.6	11.5	27.6	22.6	11.7
2008	4	13,648	3,847	1,452	4,149	2,517	1,683	28.2	10.6	30.4	18.4	12.3
2008	5	13,191	3,572	1,448	4,103	2,402	1,666	27.1	11.0	31.1	18.2	12.6
2008	6	14,308	3,706	1,520	4,886	2,606	1,590	25.9	10.6	34.1	18.2	11.1
2008	7	13,574	3,633	1,375	4,466	2,679	1,421	26.8	10.1	32.9	19.7	10.5
2008	8	12,092	2,947	1,162	3,881	2,531	1,571	24.4	9.6	32.1	20.9	13.0
2008	9	14,052	3,508	1,342	4,694	2,855	1,653	25.0	9.6	33.4	20.3	11.8
2008	10	14,812	3,645	1,294	4,986	3,026	1,861	24.6	8.7	33.7	20.4	12.6
2008	11	12,582	3,082	1,112	4,385	2,605	1,398	24.5	8.8	34.9	20.7	11.1
2008	12	15,472	3,585	1,260	5,656	3,308	1,663	23.2	8.1	36.6	21.4	10.7
2009	1	10,756	2,539	892	3,481	2,378	1,466	23.6	8.3	32.4	22.1	13.6
2009	2	11,940	2,666	1,027	3,830	2,930	1,487	22.3	8.6	32.1	24.5	12.5
2009	3	14,504	3,008	1,223	4,667	3,962	1,644	20.7	8.4	32.2	27.3	11.3
2009	4	12,835	2,852	945	4,719	2,708	1,611	22.2	7.4	36.8	21.1	12.6
2009	5	11,899	2,662	825	4,584	2,253	1,575	22.4	6.9	38.5	18.9	13.2
2009	6	13,895	2,982	959	5,073	3,235	1,646	21.5	6.9	36.5	23.3	11.8
2009	7	12,927	2,763	869	4,934	2,908	1,453	21.4	6.7	38.2	22.5	11.2
2009	8	10,944	2,219	713	3,887	2,618	1,507	20.3	6.5	35.5	23.9	13.8

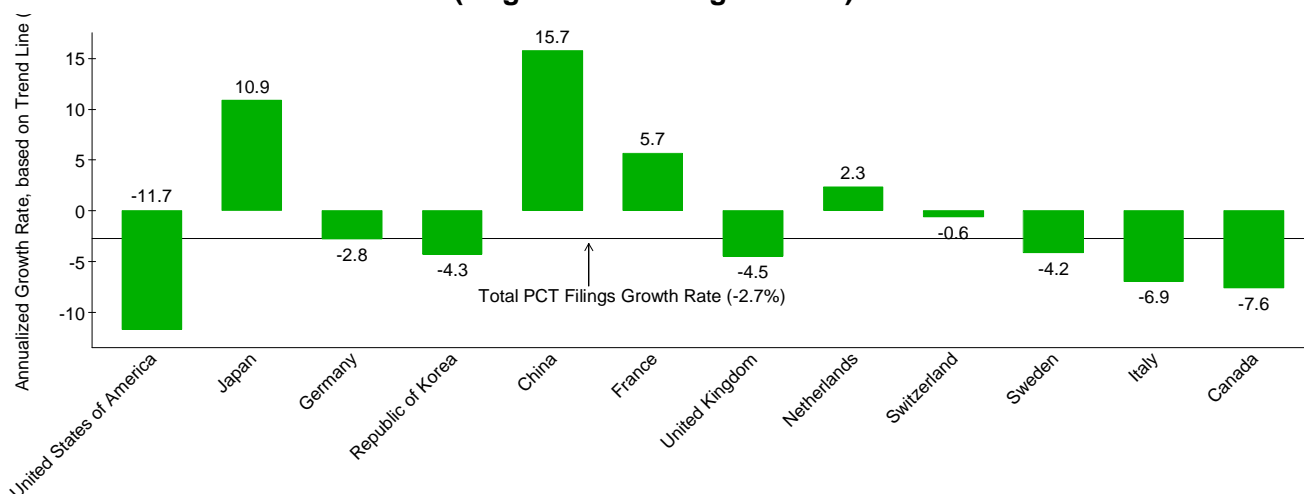
## PCT Filings by Top 12 Countries of Origin

**Figure 3a: Share of Country in Total PCT Filings: Top 12 Countries of Origin**



**Figure 3b: Annualized Growth Rate of PCT Filings: Top 12 Countries of Origin**

(August 2008 – August 2009)



Source: WIPO Statistics Database

Note: 2009 data are provisional and incomplete. The growth rate is the annualized growth rate between August 2008 and August 2009. Counts are based on the international filing date and the country of residence of the first named applicant.

- Figure 3a represents the country share of the top twelve countries of origin. Those twelve countries accounted for 88.5% of total PCT filings for the January-August 2009 period. Between 2009 and 2008 (January-August) the share of the United States of America (US) decreased by 3.2 percentage points, however, the US still accounts for the largest share of total PCT filings. The reduction in US PCT filings is expected considering that the US economy was hit hardest by the global economic downturn. The share of PCT filings originating from Japan has increased from 17.4% to 20.0% over the same period.
- Figure 3b shows the annualized growth rate of PCT filings for August 2009. Compared to 2008 (August), PCT filings originating from the United States of America has declined by 11.7%. Canada and Italy also had a notable decrease in PCT filings. PCT filings originating from China and Japan have increased significantly over the same period.
- The global economic crisis adversely affected the number of PCT filings originating from the US, as reflected by the continuous decrease in the annualized monthly growth rate since August 2008 (see table 1). So far, PCT filings originating from China and Japan have been immune from the impact of economic crisis. Both countries had positive growth rates in PCT filings over the past 12 months (see table 1).

**Table 1: Trends in PCT Filings: Top 12 Countries of Origin**

**PCT Filings by Country of Origin**

Source: WIPO Statistics Database, November 2009

Note: 2009 data are provisional and incomplete. Counts are based on the international filing date and country of residence of the first named applicant.

**Number of PCT Filings**

Origin_Name Year / Month	2005	2006	2007	2008	2009	2007	2007	2007	2007	2007	2008	2008	2008	2008	2008	2008	2008	2008	2008	2008	2008	2008	2009	2009	2009	2009	2009	2009	2009	
	-	-	-	-	to date	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8
Total	136,754	149,664	159,945	163,234	99,700	12,914	12,827	14,541	13,586	15,040	11,830	12,793	14,880	13,648	13,191	14,308	13,574	12,092	14,052	14,812	12,582	15,472	10,756	11,940	14,504	12,835	11,899	13,895	12,927	10,944
Canada	2,319	2,572	2,843	2,908	1,626	243	235	270	254	248	248	225	260	274	268	230	218	176	247	238	224	300	153	170	234	246	221	232	217	153
China	2,505	3,927	5,437	6,109	4,630	519	490	393	469	828	485	331	494	478	464	519	514	515	505	467	472	865	452	366	646	640	558	628	614	726
France	5,748	6,260	6,568	7,064	4,384	340	523	665	515	767	472	518	559	574	504	732	670	322	613	658	548	894	443	467	623	602	546	704	726	273
Germany	15,985	16,732	17,820	18,820	10,836	1,569	1,478	1,635	1,503	1,455	1,354	1,494	1,466	1,647	1,427	1,627	1,729	1,493	1,687	1,689	1,705	1,502	1,073	1,356	1,457	1,400	1,304	1,375	1,608	1,263
Italy	2,348	2,702	2,943	2,883	1,731	152	232	260	232	304	189	220	271	250	252	270	293	149	233	253	192	311	184	209	257	225	223	208	264	161
Japan	24,866	27,023	27,745	28,783	19,916	2,269	2,219	2,292	2,208	2,332	1,882	2,444	3,279	2,149	2,113	2,142	2,370	2,167	2,639	2,657	2,203	2,738	2,139	2,746	3,714	2,208	1,846	2,795	2,328	2,140
Netherlands	4,498	4,544	4,421	4,342	2,859	341	334	402	402	486	291	300	374	385	342	398	368	285	276	391	389	543	270	287	371	391	415	423	398	304
Republic of Korea	4,689	5,946	7,064	7,901	4,909	531	567	698	691	898	600	592	610	669	602	784	607	641	649	693	621	833	479	506	675	662	571	677	750	589
Sweden	2,883	3,333	3,654	4,136	2,344	191	295	326	373	450	325	320	344	358	323	388	332	249	316	364	346	471	240	271	316	353	380	408	199	177
Switzerland	3,291	3,613	3,813	3,749	2,417	360	301	339	333	395	222	262	370	320	298	364	313	261	302	334	304	399	237	311	319	299	313	332	353	253
United Kingdom	5,086	5,086	5,528	5,488	3,359	414	442	520	467	409	401	462	524	478	404	514	436	427	486	521	377	458	384	440	435	386	421	466	499	328
United States of America	46,830	51,242	53,965	51,519	29,202	4,586	4,284	5,070	4,496	4,717	4,076	4,187	4,684	4,437	4,523	4,568	4,050	3,991	4,266	4,791	3,627	4,319	3,400	3,436	3,955	3,886	3,695	3,963	3,525	3,342

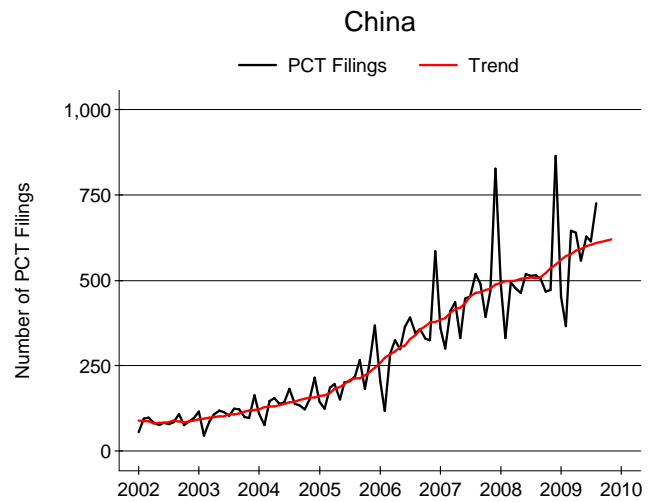
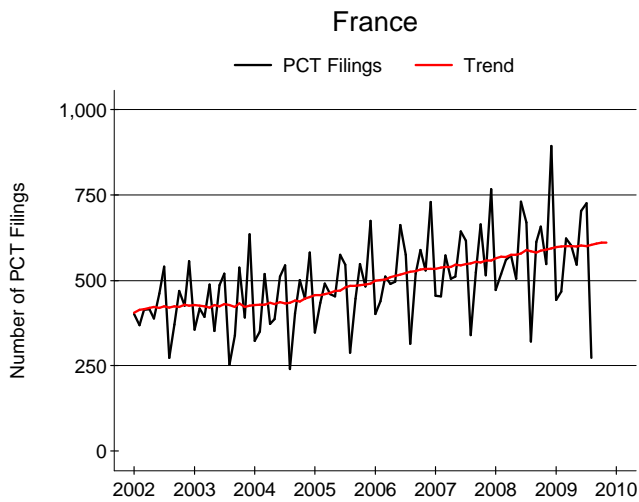
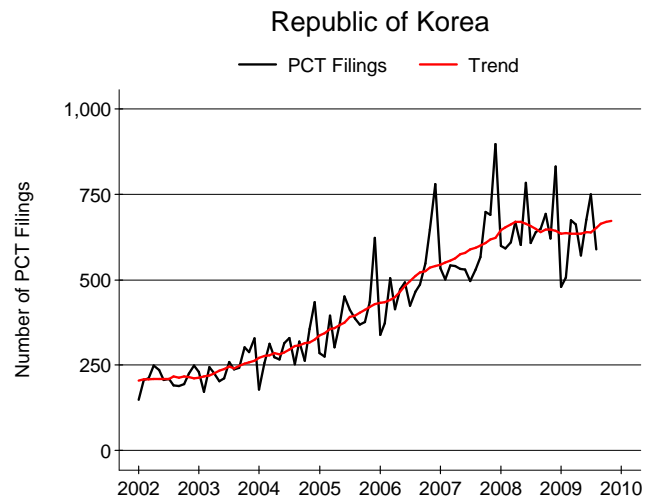
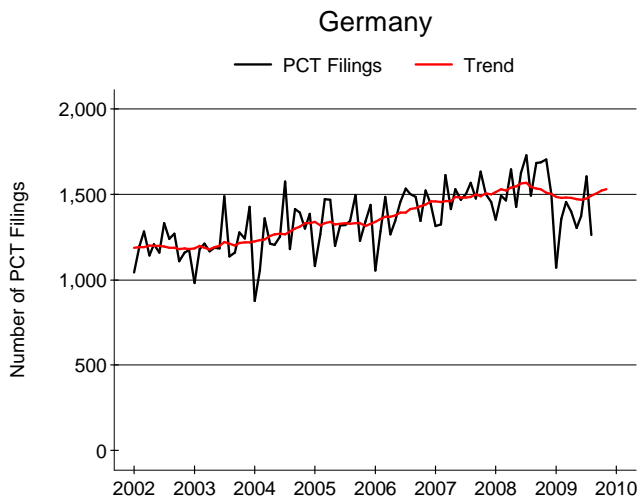
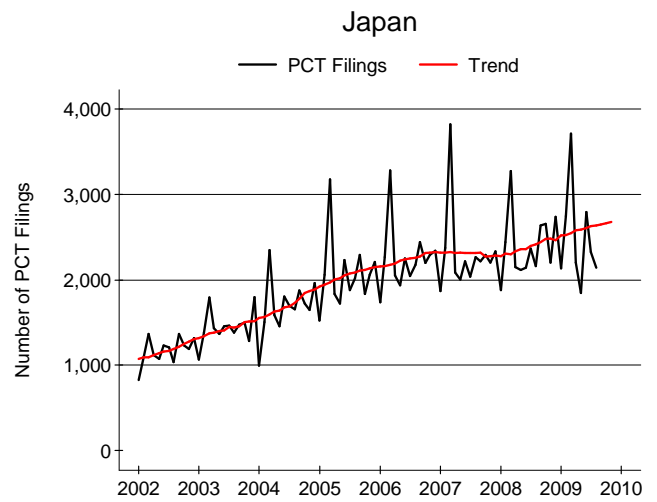
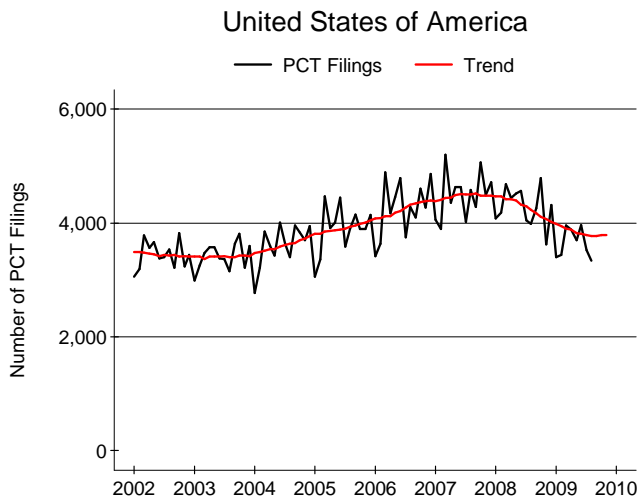
**Share of Country in Total PCT Filings by Country of Origin (%)**

Origin_Name Year / Month	2005	2006	2007	2008	2009	2007	2007	2007	2007	2007	2008	2008	2008	2008	2008	2008	2008	2008	2008	2008	2008	2008	2009	2009	2009	2009	2009	2009	2009	2009
	-	-	-	-	to date	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8
Canada	1.7	1.7	1.8	1.8	1.6	1.9	1.8	1.9	1.9	1.6	2.1	1.8	1.7	2.0	2.0	1.6	1.6	1.5	1.8	1.6	1.8	1.9	1.4	1.4	1.6	1.9	1.9	1.7	1.7	1.4
China	1.8	2.6	3.4	3.7	4.6	4.0	3.8	2.7	3.5	5.5	4.1	2.6	3.3	3.5	3.5	3.6	3.8	4.3	3.6	3.2	3.8	5.6	4.2	3.1	4.5	5.0	4.7	4.5	4.7	6.6
France	4.2	4.2	4.1	4.3	4.4	2.6	4.1	4.6	3.8	5.1	4.0	4.0	3.8	4.2	3.8	5.1	4.9	2.7	4.4	4.4	4.4	5.8	4.1	3.9	4.3	4.7	4.6	5.1	5.6	2.5
Germany	11.7	11.2	11.1	11.5	10.9	12.1	11.5	11.2	11.1	9.7	11.4	11.7	9.9	12.1	10.8	11.4	12.7	12.3	12.0	11.4	13.6	9.7	10.0	11.4	10.0	10.9	11.0	9.9	12.4	11.5
Italy	1.7	1.8	1.8	1.8	1.7	1.2	1.8	1.8	1.7	2.0	1.6	1.7	1.8	1.8	1.9	1.9	2.2	1.2	1.7	1.7	1.5	2.0	1.7	1.8	1.8	1.8	1.9	1.5	2.0	1.5
Japan	18.2	18.1	17.3	17.6	20.0	17.6	17.3	15.8	16.3	15.5	15.9	19.1	22.0	15.7	16.0	15.0	17.5	17.9	18.8	17.9	17.5	17.7	19.9	23.0	25.6	17.2	15.5	20.1	18.0	19.6
Netherlands	3.3	3.0	2.8	2.7	2.9	2.6	2.6	2.8	3.0	3.2	2.5	2.3	2.5	2.8	2.6	2.8	2.7	2.4	2.0	2.6	3.1	3.5	2.5	2.4	2.6	3.0	3.5	3.0	3.1	2.8
Republic of Korea	3.4	4.0	4.4	4.8	4.9	4.1	4.4	4.8	5.1	6.0	5.1	4.6	4.1	4.9	4.6	5.5	4.5	5.3	4.6	4.7	4.9	5.4	4.5	4.2	4.7	5.2	4.8	4.9	5.8	5.4
Sweden	2.1	2.2	2.3	2.5	2.4	1.5	2.3	2.2	2.7	3.0	2.7	2.5	2.3	2.6	2.4	2.7	2.4	2.1	2.2	2.5	2.7	3.0	2.2	2.3	2.2	2.8	3.2	2.9	1.5	1.6
Switzerland	2.4	2.4	2.4	2.3	2.4	2.8	2.3	2.3	2.5	2.6	1.9	2.0	2.5	2.3	2.3	2.5	2.3	2.2	2.1	2.3	2.4	2.6	2.2	2.6	2.2	2.3	2.6	2.4	2.7	2.3
United Kingdom	3.7	3.4	3.5	3.4	3.4	3.2	3.4	3.6	3.4	2.7	3.4	3.6	3.5	3.5	3.1	3.6	3.2	3.5	3.5	3.5	3.0	3.0	3.6	3.7	3.0	3.0	3.5	3.4	3.9	3.0
United States of America	34.2	34.2	33.7	31.6	29.3	35.5	33.4	34.9	33.1	31.4	34.5	32.7	31.5	32.5	34.3	31.9	29.8	33.0	30.4	32.3	28.8	27.9	31.6	28.8	27.3	30.3	31.1	28.5	27.3	30.5

**Annualized Growth Rate (%) of PCT Filings (based on trend line as reported in figures 4a and 4b)**

Origin_Name Year / Month	2005	2006	2007	2008	2009	2007	2007	2007	2007	2007	2008	2008	2008	2008	2008	2008	2008	2008	2008	2008	2008	2008	2009	2009	2009	2009	2009	2009	2009	2009
	-	-	-	-	-	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8
Total	11.5	9.4	6.9	2.1	-	8.8	8.8	8.4	7.6	6.9	6.0	6.0	4.1	4.4	3.9	4.3	4.5	3.3	3.9	3.0	2.1	2.1	1.1	-0.1	0.4	-0.7	-1.4	-1.9	-2.8	-2.7
Canada	10.2	10.9	10.5	2.3	-	7.9	9.8	10.7	13.3	10.5	11.8	12.4	12.5	14.7	13.0	10.7	11.2	7.6	7.1	3.7	0.4	2.3	-3.6	-6.2	-7.5	-9.8	-11.0	-9.4	-10.0	-7.6
China	46.8	56.8	38.5	12.4	-	42.3	42.5	38.5	40.1	38.5	36.2	31.1	29.2	27.0	29.0	28.3	27.9	23.2	20.2	20.2	16.9	12.4	9.3	9.3	10.3	12.4	11.9	13.4	14.5	15.7
France	10.9	8.9	4.9	7.6	-	7.0	5.7	6.3	5.3	4.9	4.3	5.1	3.8	4.7	4.3	6.0	6.2	5.5	6.8	5.5	6.2	7.6	6.8	5.0	6.2	5.6	6.4	5.6	5.0	5.7
Germany	5.1	4.7	6.5	5.6	-	6.8	6.8	7.8	6.5	6.5	5.1	5.8	4.1	4.6	2.9	3.7	5.1	4.3	5.6	4.1	5.4	5.6	3.8	2.1	2.9	0.2	0.2	-1.7	-3.4	-2.8
Italy	7.3	15.1	8.9	-2.0	-	4.1	5.5	6.9	6.8	8.9	7.1	7.1	4.5	6.0	7.1	6.9	5.3	4.4	3.1	1.1	-0.5	-2.0	-1.8	-2.5	-1.7	-3.5	-4.4	-6.4	-6.6	-6.9
Japan	22.7	8.7	2.7	3.7	-	6.9	5.5	4.4	3.2	2.7	2.2	2.1	-1.9	-1.8	-1.7	-1.8	-0.6	-1.3	1.0	2.0	2.3	3.7	4.6	5.4	9.1	9.1	7.7	10.5	9.6	10.9
Netherlands	5.0	1.0	-2.7	-1.8	-	2.2	-0.6	-1.2	-1.6	-2.7	-0.2	1.1	-1.2	1.7	-0.8	0.3	-1.4	-3.7	-3.4	-4.0	-3.6	-1.8	-3.1	-4.1	-3.2	-4.4	-1.7	-0.9	0.4	2.3
Republic of Korea	31.9	26.8	18.8	11.8	-	26.1	24.9	23.8	20.0	18.8	16.1	15.1	15.5	15.2	15.2	18.5	18.8	19.3	19.1	16.4	14.7	11.8	9.1	6.6	6.5	4.6	3.3	-1.4	-2.5	-4.2
Sweden	1.1	15.6	9.6	13.2																										

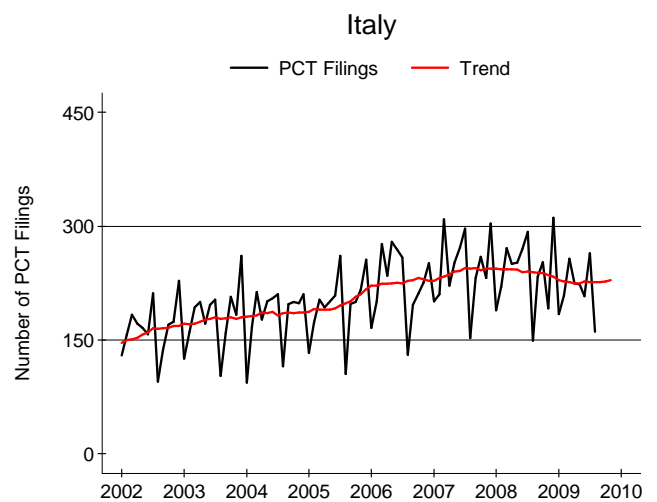
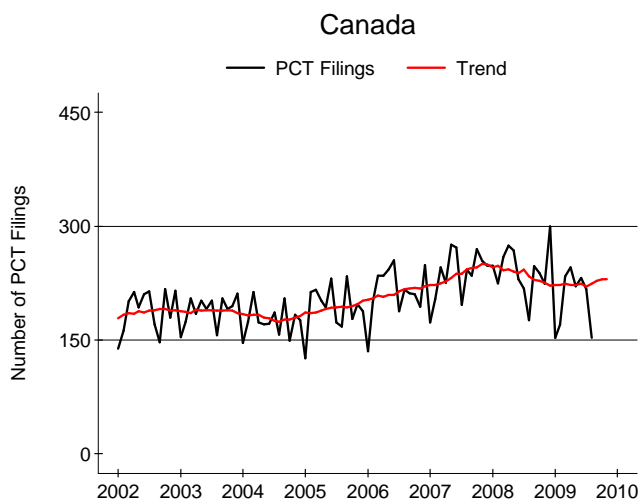
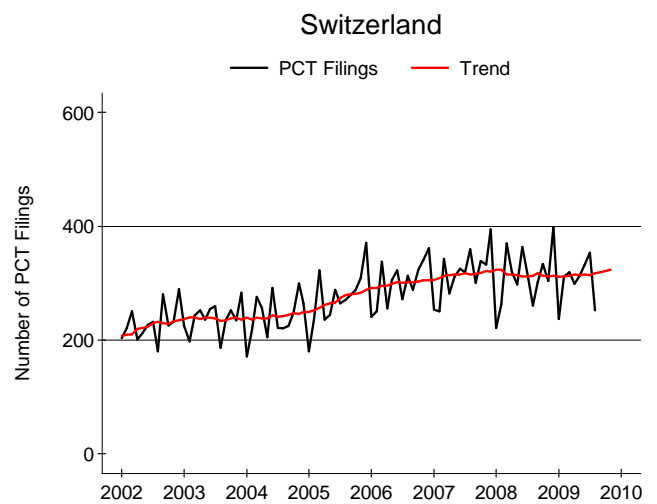
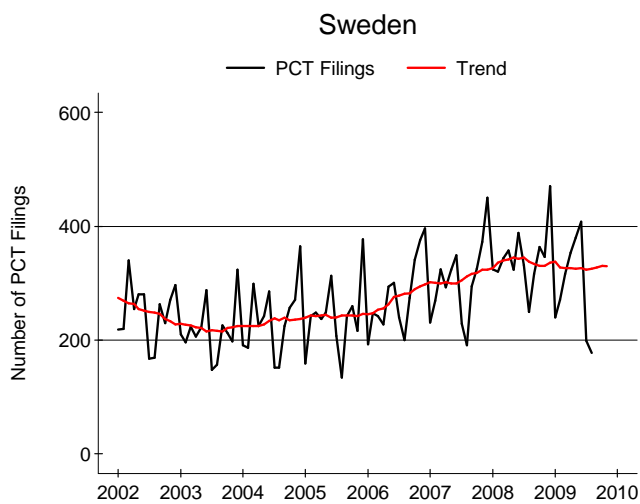
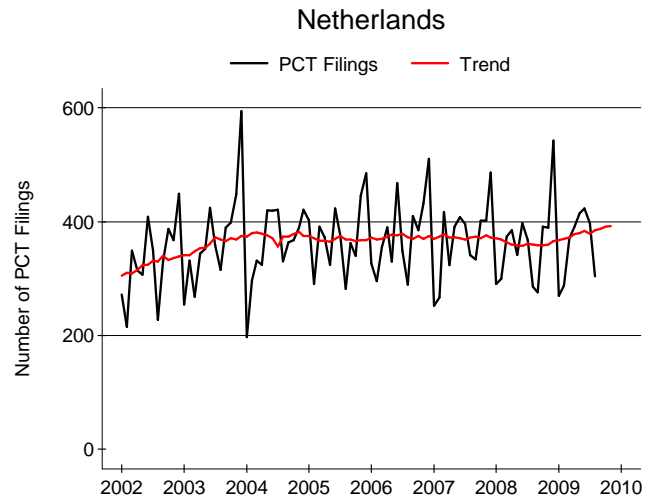
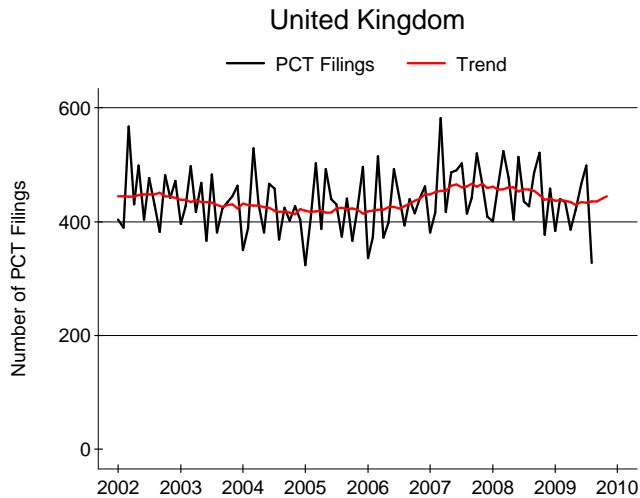
**Figure 4a: Long-term Trends in PCT Filings: Top 12 PCT Countries of Origin  
(Monthly Data)**



Source: WIPO Statistics Database

Note: Counts are based on the international filing date and the country of residence of the first named applicants. Trend line is based on moving average (MA) using six lagged terms, current observation and 5 forward terms.

**Figure 4b: Long-term Trends in PCT Filings: Top 12 PCT Countries of Origin  
(Monthly Data)**

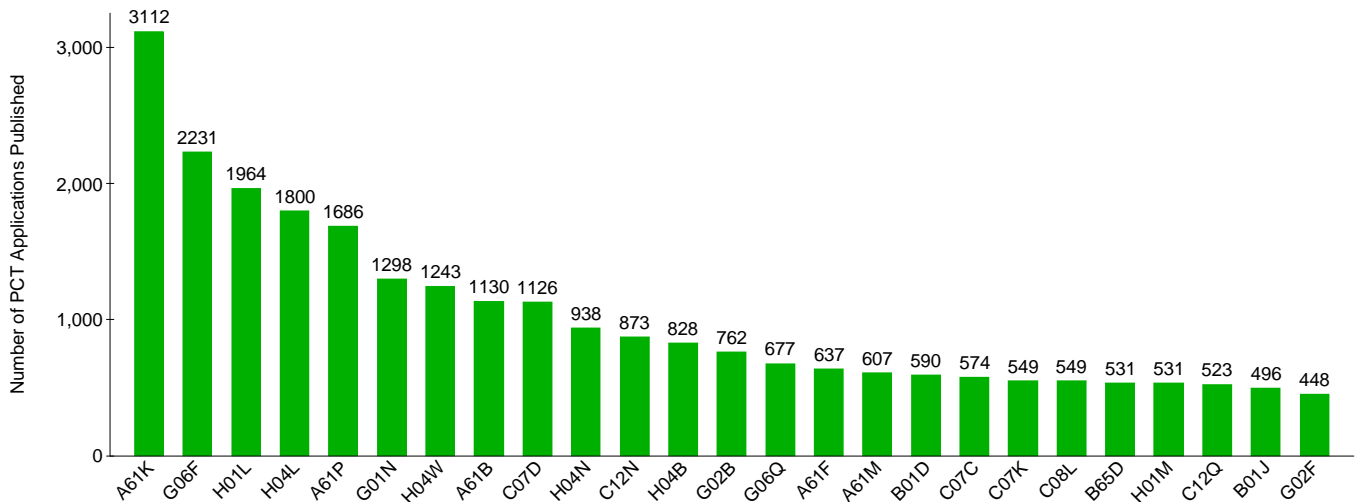


Source: WIPO Statistics Database

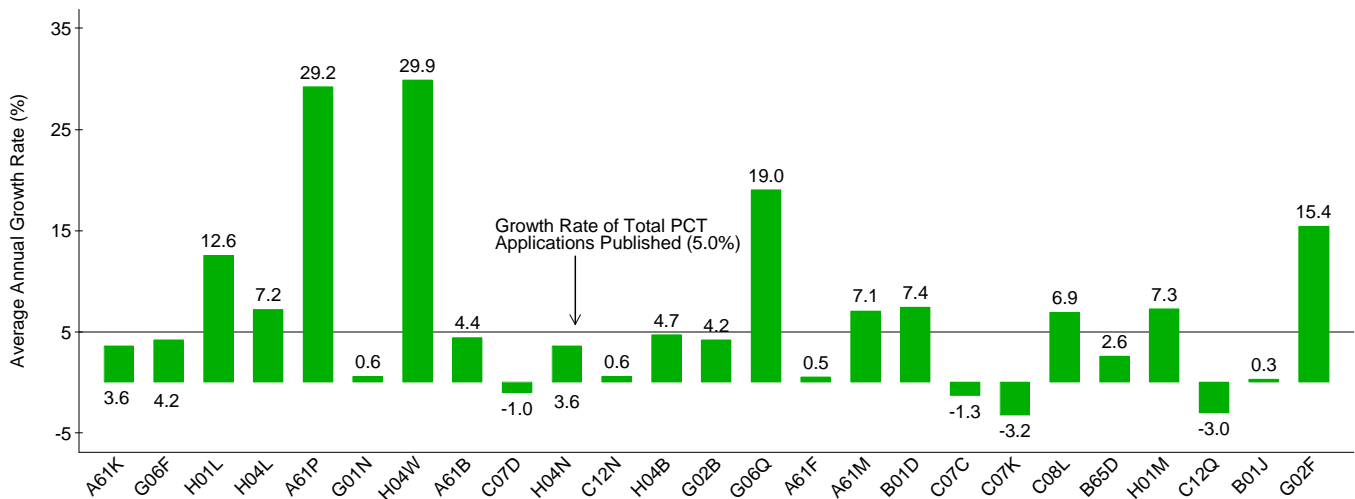
Note: Counts are based on the international filing date and the country of residence of the first named applicants. Trend line is based on moving average (MA) using six lagged terms, current observation and 5 forward terms.

# PCT Applications by International Patent Classification (IPC): Top 25 IPC Subclasses

**Figure 5a: Top 25 IPC Subclasses (2009, Third Quarter )**



**Figure 5b: Average Annual Growth Rate of Top 25 IPC Subclasses (2005-2009, Third Quarter )**



Source: WIPO Statistics Database

Note: Counts are based on the publication date. The growth rate is the average annual growth rate between third quarter of 2005 and third quarter of 2009. See annex A1 for definition IPC subclasses.

- Figures 5a and 5b show the breakdown of PCT applications published by IPC subclass (top 25 subclasses, where rank is based on the 2008 year total). In the third quarter of 2009, the largest number of PCT applications was in IPC subclass A61K (preparations for medical, dental, or toilet purposes). It is the only IPC subclass with more than 3,000 PCT applications (see figure 5a). A large number of PCT applications was also filed in IPC subclass G06F (electric digital data processing), IPC subclass H01L (semiconductor devices) and IPC subclass H04L (transmission of digital information).
- Between 2005 and 2009 (third quarter), PCT applications published in IPC subclass A61P (therapeutic activity of chemical compounds or medicinal preparations) and IPC subclass H04W (wireless communication networks) increased by around 30% per year (see figure 5b). Ten IPC subclasses had average annual growth rates above that of the total PCT applications published (5.0%). Over the same period, four IPC subclasses (C07C, C07D, C07K, and C12Q) had negative growth rates in the number of PCT applications published.

# PCT Applications by Field of Technology

## Table 2: PCT Applications by Field of Technology

### Table 2: PCT Applications Published by Field of Technology

Source: WIPO Statistics Database, November 2009, based on the WIPO IPC-Technology concordance table

Note: Counts are based on the publication date. Multiple IPC classes are recorded in patent documents, therefore, the total number of PCT applications published reported by field of technology is greater than the total number of PCT applications published by the International Bureau (IB). Share (2009, third quarter) is calculated on the basis of the total number of PCT applications published (i.e. number of PCT applications published in a given technology divided by the total number of PCT applications published by the IB). The growth rate (2008/09) is the growth rate between the third quarter of 2008 and the third quarter of 2009.

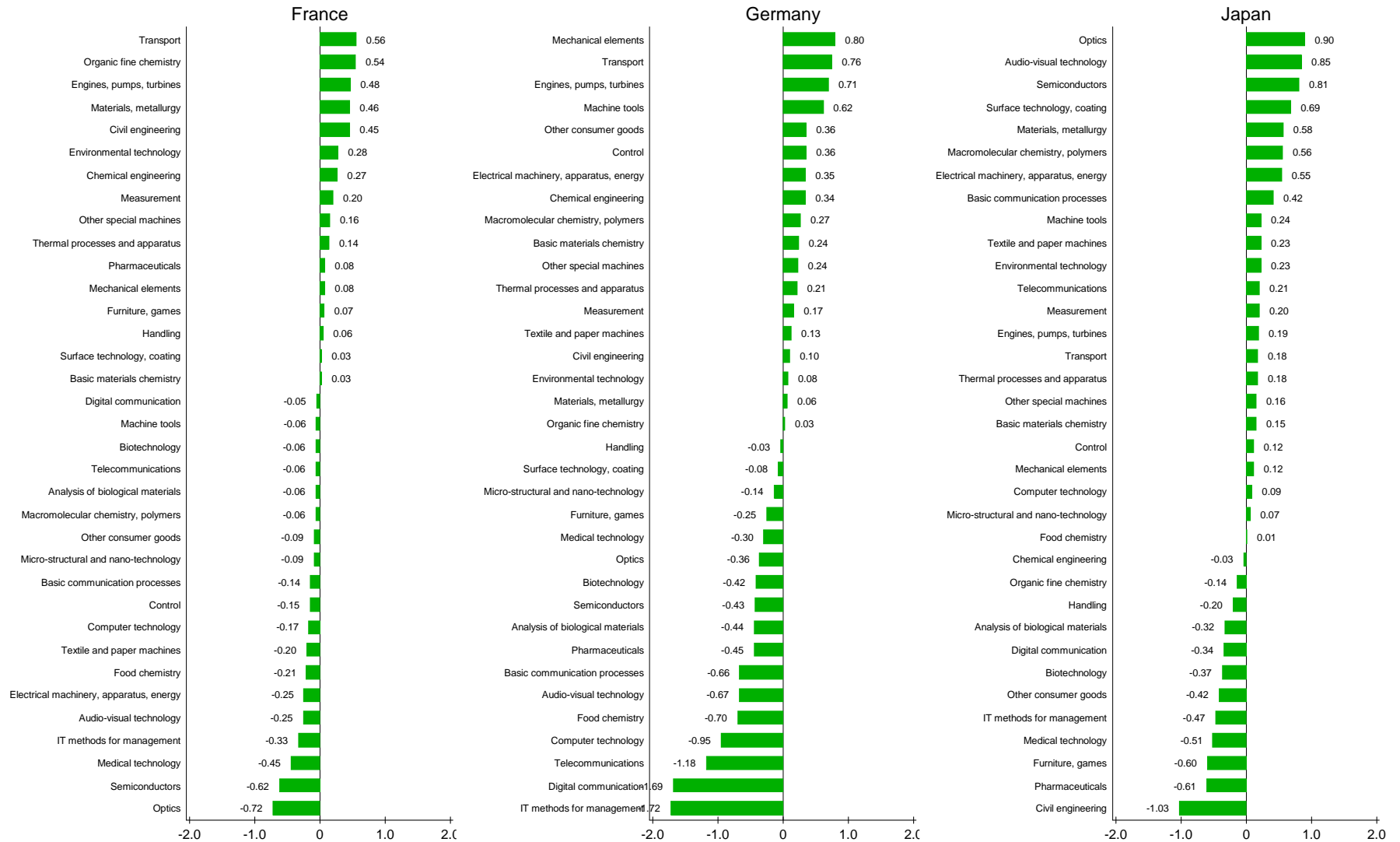
Sector of Technology / Field of Technology / Year / Quarter	2005	2006	2007	2008	2009 to date	2007 3	2007 4	2008 1	2008 2	2008 3	2008 4	2009 1	2009 2	2009 3	Share (%) 2009-Q3	Growth 2008/09
<b>Electrical engineering</b>																
Electrical machinery, apparatus, energy	7,937	9,056	10,130	11,359	8,404	2,413	2,823	2,652	2,758	2,644	3,305	2,549	2,962	2,893	7.4	9.4
Audio-visual technology	6,108	6,631	6,852	6,777	4,675	1,564	1,816	1,651	1,685	1,508	1,933	1,422	1,678	1,575	4.1	4.4
Telecommunications	7,430	8,564	9,625	10,297	7,276	2,266	2,552	2,343	2,512	2,614	2,828	2,432	2,524	2,320	6.0	-11.2
Digital communication	6,533	7,362	9,037	10,286	7,562	2,210	2,471	2,415	2,612	2,644	2,615	2,062	2,694	2,806	7.2	6.1
Basic communication processes	1,582	1,735	1,781	1,901	1,382	462	446	454	466	466	515	434	497	451	1.2	-3.2
Computer technology	10,548	12,256	13,564	14,078	9,228	3,332	3,544	3,375	3,488	3,374	3,841	2,941	3,143	3,144	8.1	-6.8
IT methods for management	1,555	2,081	2,413	2,964	1,977	600	686	626	688	753	897	629	671	677	1.7	-10.1
Semiconductors	4,675	5,961	6,430	6,938	5,538	1,499	1,746	1,486	1,648	1,690	2,114	1,701	1,875	1,962	5.0	16.1
<b>Instruments</b>																
Optics	5,152	5,925	6,089	6,450	4,599	1,451	1,639	1,510	1,594	1,573	1,773	1,375	1,655	1,569	4.0	-0.3
Measurement	7,125	8,141	8,845	9,238	6,574	2,233	2,350	2,084	2,374	2,166	2,614	2,117	2,339	2,118	5.4	-2.2
Analysis of biological materials	3,115	3,068	2,965	3,047	2,159	711	793	728	776	715	828	665	788	706	1.8	-1.3
Control	3,013	3,382	3,554	3,644	2,608	896	955	851	991	847	955	858	867	883	2.3	4.3
Medical technology	9,792	11,355	12,268	12,884	8,713	2,986	3,498	3,044	3,327	3,070	3,443	2,711	3,138	2,864	7.4	-6.7
<b>Chemistry</b>																
Organic fine chemistry	8,949	9,694	9,671	9,749	6,493	2,283	2,479	2,399	2,469	2,262	2,619	2,063	2,185	2,245	5.8	-0.8
Biotechnology	7,677	7,548	7,588	7,807	5,454	1,790	2,083	1,708	1,854	1,942	2,303	1,764	1,912	1,778	4.6	-8.4
Pharmaceuticals	10,846	12,972	13,104	13,286	8,998	3,035	3,449	3,163	3,327	3,188	3,608	2,934	3,165	2,899	7.5	-9.1
Macromolecular chemistry, polymers	4,105	4,838	4,839	5,021	3,659	1,090	1,320	1,220	1,298	1,144	1,359	1,156	1,257	1,246	3.2	8.9
Food chemistry	2,009	2,341	2,350	2,442	1,710	553	612	556	574	615	697	539	594	577	1.5	-6.2
Basic materials chemistry	5,420	6,325	6,987	7,483	5,315	1,759	1,833	1,686	1,928	1,742	2,127	1,741	1,827	1,747	4.5	0.3
Materials, metallurgy	3,239	3,749	4,027	4,347	3,108	987	1,101	1,013	1,054	1,040	1,240	976	1,035	1,097	2.8	5.5
Surface technology, coating	3,733	4,393	4,328	4,453	3,098	974	1,235	1,026	1,138	1,020	1,269	961	1,093	1,044	2.7	2.4
Micro-structural and nano-technology	247	362	434	533	414	91	113	97	144	142	150	137	128	149	0.4	4.9
Chemical engineering	4,812	5,424	5,620	6,077	4,298	1,423	1,477	1,439	1,476	1,401	1,761	1,437	1,380	1,481	3.8	5.7
Environmental technology	2,162	2,569	2,952	3,358	2,408	745	810	736	798	809	1,015	827	772	809	2.1	0.0
<b>Mechanical engineering</b>																
Handling	4,319	4,867	5,109	5,098	3,556	1,184	1,439	1,207	1,271	1,164	1,456	1,217	1,214	1,125	2.9	-3.4
Machine tools	3,355	3,596	3,755	4,278	2,934	931	1,001	1,025	1,030	1,045	1,178	989	996	949	2.4	-9.2
Engines, pumps, turbines	3,474	3,956	4,556	5,207	3,924	1,077	1,242	1,166	1,302	1,295	1,444	1,242	1,361	1,321	3.4	2.0
Textile and paper machines	3,087	3,473	3,147	3,237	2,245	775	815	717	813	794	913	715	813	717	1.8	-9.7
Other special machines	4,900	5,417	5,501	6,072	4,335	1,275	1,498	1,331	1,524	1,491	1,726	1,373	1,592	1,370	3.5	-8.1
Thermal processes and apparatus	1,933	2,177	2,501	2,842	2,208	663	672	667	697	728	750	667	775	766	2.0	5.2
Mechanical elements	4,169	4,781	5,178	5,908	4,178	1,296	1,362	1,331	1,537	1,388	1,652	1,323	1,539	1,316	3.4	-5.2
Transport	5,656	6,142	6,844	7,668	5,679	1,660	1,742	1,674	2,037	1,857	2,100	1,754	2,102	1,823	4.7	-1.8
<b>Other fields</b>																
Furniture, games	3,667	4,198	4,490	4,448	2,996	1,039	1,219	1,068	1,141	1,046	1,193	1,032	1,019	945	2.4	-9.7
Other consumer goods	3,257	3,729	3,877	4,152	2,876	893	1,052	983	1,006	1,052	1,111	922	997	957	2.5	-9.0
Civil engineering	3,957	4,417	4,752	5,335	3,992	1,128	1,332	1,181	1,292	1,306	1,556	1,276	1,377	1,339	3.4	2.5
<b>Total Number of PCT Applications Published by the International Bureau</b>	127,674	141,290	152,620	163,843	116,696	36,851	40,966	37,604	40,876	39,753	45,610	36,974	40,839	38,883	-	-2.2

Note: The IPC-technology concordance table used to distribute PCT applications by field of technology is available at: [www.wipo.int/ipstats/en/statistics/patents/](http://www.wipo.int/ipstats/en/statistics/patents/)

- In the first third quarter of 2009, the largest number of PCT applications published was in the field of computer technology (8.1%), followed by pharmaceuticals (7.5%) and electrical machinery, apparatus, energy technology (7.4%).
- Between the third quarter of 2008 and 2009, the largest increase in the number of PCT applications published was in semiconductors (16.1%); electrical machinery, apparatus, energy (9.4%); and Macromolecular chemistry, polymers (8.9%). There was a significant decrease in the number of PCT applications published in telecommunications (-11.2%) and IT methods for management (-10.1%).

# Relative Specialization Index: PCT Applications by Field of Technology (Top 6 Countries of Origin)

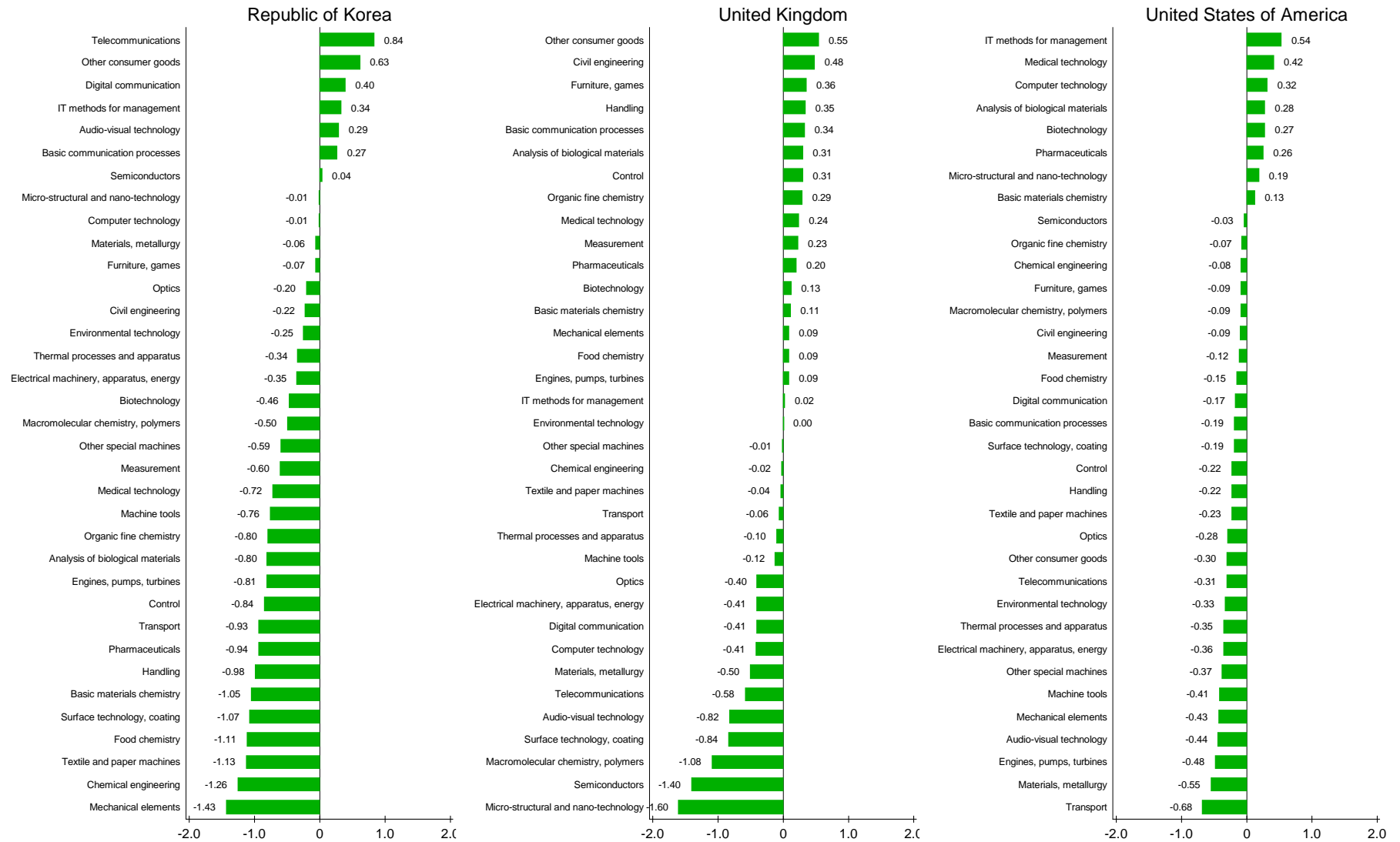
## Figure 6a: Relative Specialization Index (2009, Third Quarter): PCT Applications by Field of Technology



Source: WIPO Statistics Database

Note: Counts are based on the publication date and the country of the residence of the first named applicant. Relative specialization index (RSI) is calculated using the following formula:  $\log$  of the country's share in PCT applications published in a specific technology minus  $\log$  of the country's share in total PCT applications published. A positive RSI value for a particular technology implies that the country has a relatively high share in PCT applications published in that technology. Similarly, a negative RSI value implies that the country has a relatively low share in that technology.

**Figure 6b: Relative Specialization Index (2009, Third Quarter): PCT Applications by Field of Technology**



Source: WIPO Statistics Database

Note: Counts are based on the publication date and the country of the residence of the first named applicant. Relative specialization index (RSI) is calculated using the following formula: log of the country's share in PCT applications published in a specific technology minus log of the country's share in total PCT applications published. A positive RSI value for a particular technology implies that the country has a relatively high share in PCT applications published in that technology. Similarly, a negative RSI value implies that the country has a relatively low share in that technology.

- The relative specialization index (RSI) is calculated to measure a country's degree of concentration of PCT filings (based on published applications) in a particular technology. The formula used for the Relative

Specialization Index is  $RSI = \log \left( \frac{F_{c,t} / \sum_c F_{c,t}}{\sum_t F_{c,t} / \sum_{c,t} F_{c,t}} \right)$  where F is the number of PCT applications in a given

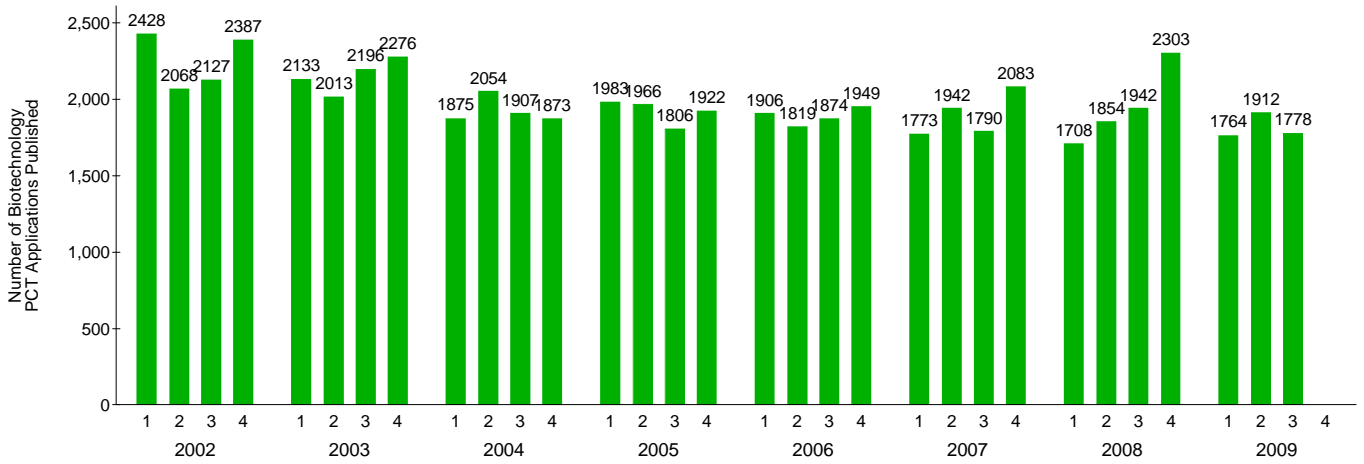
technology field and country of origin and c, t are indexes for the country of origin and technology field respectively.

- A positive RSI value for a particular technology implies that the country has a relatively high share of PCT applications in that technology (i.e. it has a higher share in PCT applications in this technology relative to its share in all technologies). Similarly, a negative RSI value implies that the country has a relatively low share of PCT applications in that technology.
- Figure 6a and figure 6b present the RSI values by field of technology for the top six countries of origin. Both France and Germany have a relatively high share of PCT applications in mechanical engineering (e.g. transport; mechanical elements; engines, turbines, etc.).
- Japan, on the other hand, has a relatively high share of PCT applications in technologies related to optics, audio-visual technology and semiconductors.
- Republic of Korea has a relatively high share of PCT applications in electrical engineering (e.g. telecommunications, digital communications, IT method for management) and other consumer goods.
- The United Kingdom has a relatively high share of PCT applications in technologies related to other consumer goods, and civil engineering.
- The United States has a relatively high share of PCT applications in IT methods for management, medical technology and computer technology.

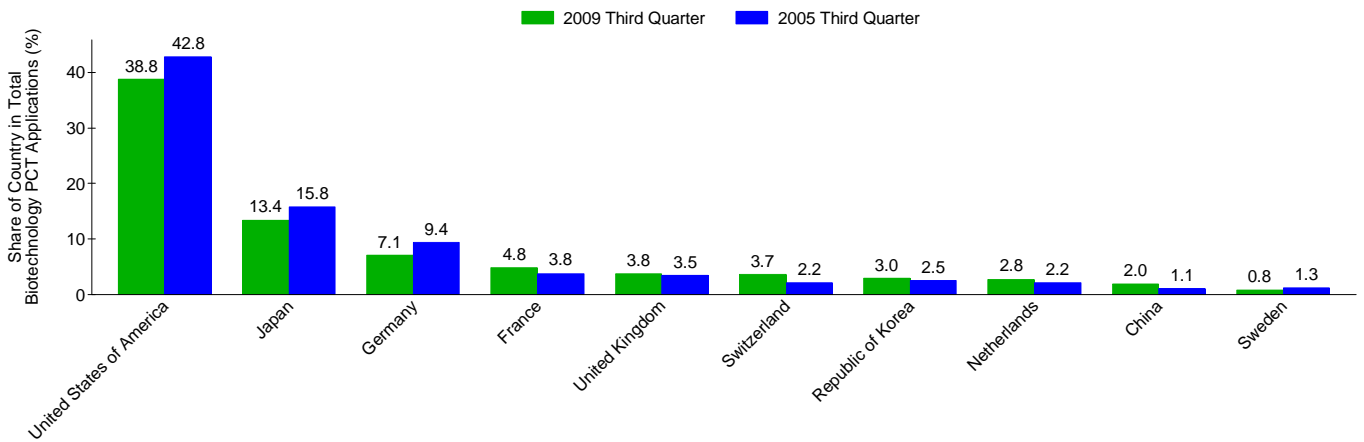
## Focus on a Specific Technology: Biotechnology PCT Applications

- Figures 7a, 7b and 7c provide a detailed breakdown of PCT applications published for biotechnology. In the third quarter of 2009, 1,778 biotechnology applications were published (figure 7a). The total number of biotechnology applications published in a year followed a downward trend from 2001 to 2004 and the trend has been stable from 2005 onwards.
- The majority of biotechnology applications published in the third quarter of 2009 originated from the United States of America (38.8%) and Japan (13.4%). The share of biotechnology applications originating from France, Switzerland and China increased between 2005 and 2009 (third quarter). While the combined share of the three large countries (United States of America, Japan and Germany) decreased from 68.0% in 2005 to 59.3% in 2009 (third quarter).
- Switzerland and the United States of America have the highest ratio of biotechnology PCT applications published relative to their respective total PCT applications published. Around 7% of all Swiss PCT applications published are in the field of biotechnology (figure 7c). Sweden and China, on the other hand, have a low share of biotechnology applications relative to their total PCT applications published.

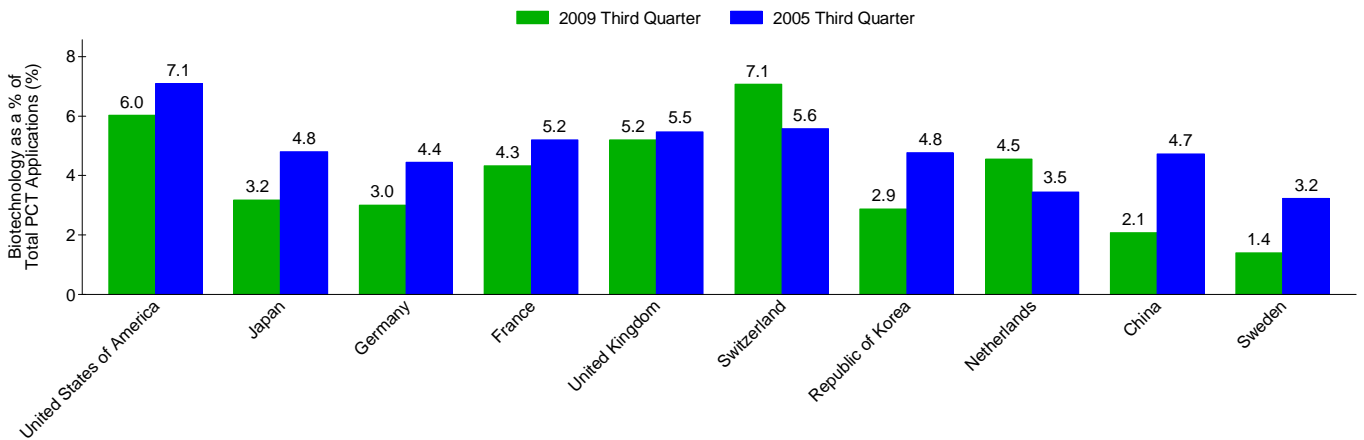
**Figure 7a: Number of Biotechnology PCT Applications (2002-09)**



**Figure 7b: Share of Countries in Biotechnology PCT Applications**



**Figure 7c: Biotechnology PCT Applications as a % of Total PCT Applications**

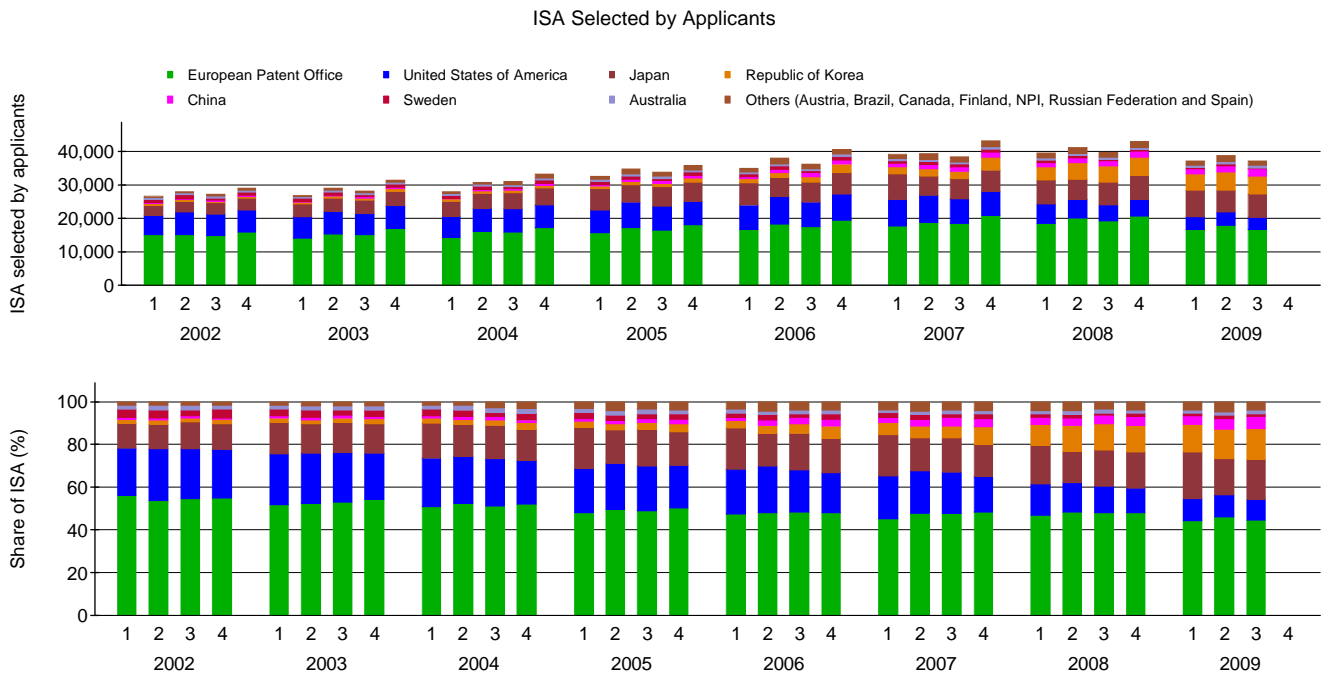


Source: WIPO Statistics Database

Note: Counts are based on the publication date and the country of residence of the first named applicant. Biotechnology is defined by the following IPC subclasses: C07G, C07K, C12M, C12N, C12P, C12Q, C12R, and C12S. For further information see WIPO's IPC-Technology Concordance table ([www.wipo.int/ipstats/en/](http://www.wipo.int/ipstats/en/)).

# International Searching Authorities (ISA) Selected by Applicants and International Search Reports (ISRs) Established by International Searching Authorities

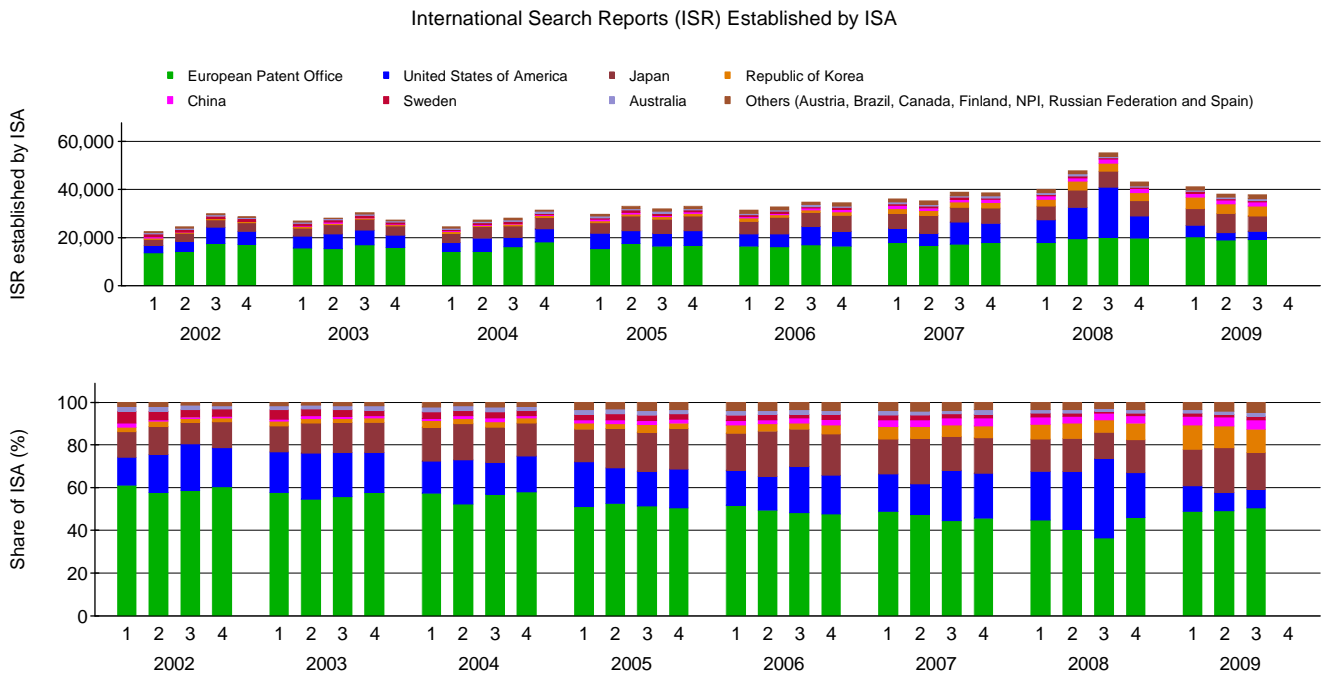
## Figure 8a: International Searching Authorities (ISA) Selected by PCT Applicants



Source: WIPO Statistics Database

Note: 2009 data are provisional and incomplete. Counts are based on the international filing date. NPI (Nordic Patent Institute).

## Figure 8b: International Search Reports (ISR) Established by ISA



Source: WIPO Statistics Database

Note: 2009 data are provisional and incomplete. Counts are based on the establishment of international search report. NPI (Nordic Patent Institute).

- Figure 8a shows the number and distribution of International Searching Authorities (ISAs) selected by PCT applicants. In the third quarter of 2009, 44.5% of PCT applicants selected the European Patent Office (EPO) as their ISA. The Japanese Patent Office (JPO) and the Korean Intellectual Property Organization (KIPO) were selected as ISA by 18.7% and 14.3% of PCT applicants (figure 8a).
- Since 2002, the shares of PCT applicants selecting EPO and Sweden Patent Office as their ISA have followed a downward trend. For example, in 2009 (third quarter), 44.5% of PCT applicants selected EPO as their ISA, compared to 54.4% in 2002. In contrast, PCT applicants selecting JPO, KIPO and China as their ISA have followed an upward trend. For example, in 2009 (third quarter), 18.7% of PCT applicants selected JPO as their ISA, compared to 12.5% in 2002.
- In the third quarter of 2009, the total number of International Search Reports (ISRs) established by all ISAs amounted to 37,816 (figure 8b). The European Patent Office established approximately half of all ISRs established in 2009 (third quarter). The distribution of ISRs established by all ISAs is similar to that of the distribution of ISAs selected by PCT applicants.

## Methodological Information

### The Patent Cooperation Treaty (PCT)

The Patent Cooperation Treaty (PCT) is an international treaty administered by the World Intellectual Property Organization (WIPO). The PCT makes it possible to seek patent protection for an invention simultaneously in a large number of countries by filing a single "international application" with a single patent office (i.e. receiving Office). The PCT system simplifies the process of multi-national patent filings by reducing the requirement to file multiple patent applications for multi-national patent rights. The PCT international applications do not result in the issuance of "international patents" and the International Bureau (IB) does not grant patents. The decision on whether to confer patent rights remains at the discretion of the national and/or regional patent offices, and the patent rights are limited to the jurisdiction of the patent granting authority.

The PCT procedure consists of an international phase and a national/regional phase. The PCT international application process starts with the international phase and concludes with the national/regional phase. The timeline for the PCT procedure is illustrated below<sup>1</sup>. In most cases, the applicant tends to file a patent application at the national patent office in the first instance (date of the first filing is commonly referred to as the priority date), followed by a PCT international application within 12 months from the priority date. Within sixteen months from the priority date, one of the International Searching Authorities (ISA) will conduct an international search and establish an International Search Report (ISR) along with the written opinion of the ISA. The purpose of the international search is to identify all relevant prior art. The ISR lists all prior art documents considered to be relevant, the classification of the subject matter and an indication of the field searched. The ISA also establishes a preliminary and non-binding written opinion on the questions whether the invention appears to be novel, involves an inventive step and is industrially applicable. Both the ISR and the written opinion are transmitted to the applicant and the International Bureau.

The PCT international application, the ISR and any amendments are published by the IB after the expiration of the eighteen months from the priority date. At this point, the claimed invention is disclosed in the public domain.

The applicant has the option to request an international preliminary examination (IPE). The request for the IPE must be submitted within twenty-two months from the priority date. The main purpose of the IPE is to provide a preliminary non-binding opinion on the patentability (whether the invention is novel, involves an inventive step and has an industrial application) of the claimed invention. Within twenty-eight months from the priority date, one of the International Preliminary Examining Authorities (IPEA) will establish an international preliminary report of the patentability IPRP (Chapter II), which includes a statement on the patentability of the invention and the citation of the documents believed to support that statement.

If the applicant wishes to proceed to the national/regional phase, he must enter the national/regional phase within thirty months from the priority date. Once the application enters the national (regional) phase, it is subject to the formalities of the national (or regional) patent office. The application will be processed by the national (regional) patent office to decide whether to confer (or reject) patent rights for the claimed invention.

### PCT Terminology

**International Bureau (IB):** International Bureau of the World Intellectual Property Organization. In addition to its task as a receiving Office for applicants from all Contracting States, it handles certain processing tasks with respect to all international applications filed with all receiving Offices worldwide.

**International filing date:** The date of receipt of the international application by the receiving Office.

**International Preliminary Examining Authority (IPEA):** National patent office (or intergovernmental organization) appointed by the PCT Assembly to carry out the international preliminary examination procedure. IPEA establishes the international preliminary report on patentability (Chapter II of the PCT).

**International Preliminary Report on Patentability (Chapter II of the PCT):** Preliminary, non-binding opinion established by the International Preliminary Examining Authority at the request of the applicant, on the

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<sup>1</sup> It should be noted that the information and timeline relating to the PCT procedure outlined here are intended for statistical purposes. Only basic information (and terminology) about the PCT procedure is provided to aid readers to understand statistics reported in this document. For comprehensive details about the PCT procedure, please refer to PCT Resources on [www.wipo.int/pct/en](http://www.wipo.int/pct/en).

questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), and to be industrially applicable.

**International Searching Authority (ISA):** National patent office (or intergovernmental organization) appointed by the PCT Assembly to carry out international searches. It establishes International Search Reports (ISR) and the written opinion of the ISA.

**International Search Report (ISR):** Report established by the International Searching Authority containing citations of documents considered to be relevant, the classification of the subject matter of the invention and an indication of the fields searched.

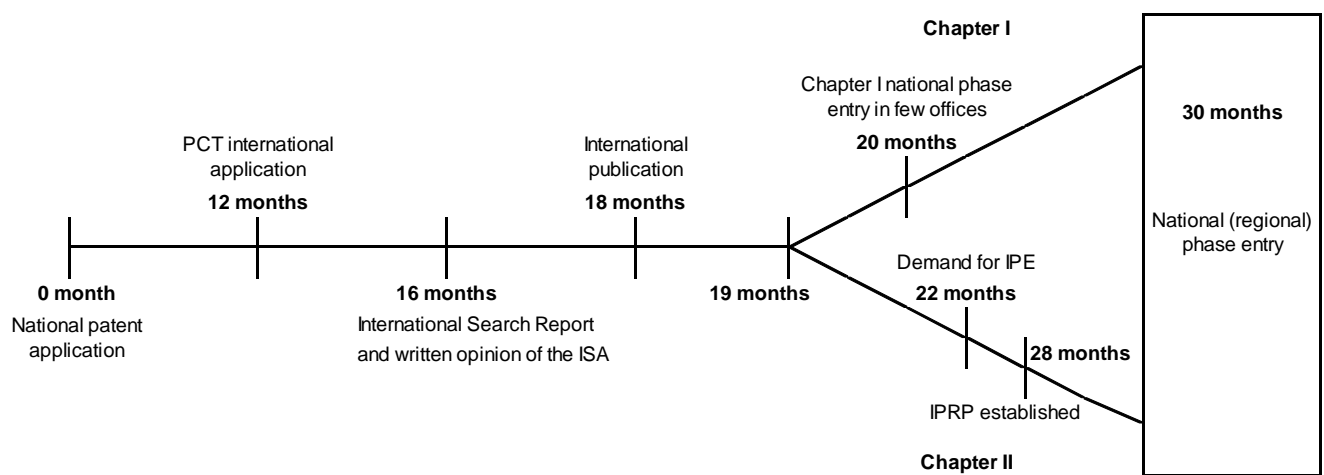
**Medium of filing:** Method used by the applicant to file PCT international application.

**Priority date:** The date of the first filing.

**Publication date:** The date on which the International Bureau (IB) publishes the international application.

**Receiving Office:** Patent office (national, regional, intergovernmental or international organization) with which the international application is filed.

## PCT Timeline



## Annex A1: Number of PCT Applications International Patent Classification (IPC)

Source: WIPO Statistics Database, November 2009

Note: Counts are based on the publication date. Multiple IPC classes are recorded in patent documents, therefore, the total number of PCT applications published reported by IPC subclasses is greater than the total number of PCT applications published by the International Bureau.

IPC Subclasses / Year / Quarter	2004 -	2005 -	2006 -	2007 -	2008 -	2009 to date	2004 1	2004 2	2004 3	2004 4	2005 1	2005 2	2005 3	2005 4	2006 1	2006 2	2006 3	2006 4	2007 1	2007 2	2007 3	2007 4	2008 1	2008 2	2008 3	2008 4	2009 1	2009 2	2009 3
A61K	9,558	11,507	13,803	13,956	14,071	9,580	2,040	2,370	2,540	2,608	2,758	2,774	2,705	3,270	3,490	3,440	3,349	3,524	3,389	3,635	3,248	3,684	3,370	3,558	3,349	3,794	3,108	3,360	3,112
G06F	5,421	7,560	8,622	9,745	10,168	6,513	1,077	1,342	1,434	1,568	1,660	1,776	1,896	2,228	2,106	2,329	2,021	2,166	2,362	2,386	2,442	2,555	2,402	2,497	2,465	2,804	2,085	2,197	2,231
H04L	5,049	5,611	5,960	7,255	8,149	5,604	1,083	1,353	1,340	1,273	1,354	1,383	1,364	1,510	1,408	1,514	1,466	1,572	1,613	1,888	1,781	1,973	1,895	2,067	2,045	2,142	1,796	2,008	1,800
A61P	484	2,321	6,528	6,845	7,036	5,148	52	93	154	185	205	261	605	1,250	1,591	1,641	1,592	1,704	1,689	1,848	1,514	1,794	1,646	1,785	1,701	1,904	1,593	1,869	1,686
H01L	3,958	4,675	5,961	6,430	6,938	5,540	803	990	1,096	1,069	1,019	1,069	1,220	1,367	1,424	1,508	1,417	1,612	1,618	1,567	1,499	1,746	1,486	1,648	1,690	2,114	1,701	1,875	1,964
G01N	4,575	5,206	5,434	5,514	5,637	4,044	1,066	1,169	1,211	1,129	1,204	1,259	1,266	1,477	1,402	1,269	1,314	1,449	1,327	1,364	1,331	1,492	1,310	1,440	1,351	1,536	1,295	1,451	1,298
A61B	3,422	3,795	4,499	4,777	5,157	3,414	658	905	895	964	837	918	950	1,090	1,068	1,121	1,044	1,266	1,111	1,160	1,132	1,374	1,147	1,339	1,259	1,412	1,072	1,212	1,130
C07D	4,286	4,633	5,087	5,047	4,978	3,303	978	1,033	1,102	1,173	1,095	1,145	1,173	1,220	1,307	1,307	1,229	1,244	1,280	1,288	1,171	1,308	1,236	1,234	1,157	1,351	1,017	1,160	1,126
H04N	2,611	3,110	3,530	3,999	4,055	2,808	525	669	758	659	697	697	814	902	897	939	825	869	914	1,080	931	1,074	961	1,006	917	1,171	919	951	938
C12N	3,261	3,510	3,764	3,798	3,774	2,620	773	815	838	835	835	849	852	974	945	973	918	928	934	986	855	1,023	793	911	975	1,095	856	891	873
H04B	2,139	2,492	3,029	3,383	3,688	2,642	477	581	554	527	568	558	689	677	754	751	736	788	823	867	772	921	812	944	965	967	869	945	828
G02B	2,004	2,432	2,865	2,880	3,080	2,265	467	477	487	573	540	556	646	690	676	714	709	658	744	682	796	709	760	786	825	662	841	762	
G06Q	1,900	1,555	2,081	2,413	2,964	1,977	428	509	486	477	431	412	338	374	510	523	499	549	532	595	600	686	626	688	753	897	629	671	677
H04W	1,660	1,862	2,010	2,525	2,829	2,489	358	407	471	424	442	497	436	487	439	509	505	557	532	674	605	714	682	742	793	612	384	862	1,243
A61F	2,013	2,352	2,629	2,842	2,749	1,861	417	514	555	527	488	572	625	667	663	616	628	722	696	690	697	759	698	679	671	701	548	676	637
C07C	1,937	2,325	2,351	2,471	2,524	1,766	413	479	530	515	528	620	604	573	606	601	551	593	635	592	622	622	639	623	581	681	596	596	574
C07K	3,226	2,794	2,544	2,588	2,517	1,728	887	890	734	715	785	737	625	647	639	600	658	647	595	688	650	655	561	627	595	734	586	593	549
B65D	1,696	2,133	2,444	2,506	2,464	1,597	355	401	464	476	480	535	479	639	599	673	541	631	611	637	551	707	610	642	544	668	532	534	531
B01D	1,601	1,644	1,990	2,213	2,433	1,739	351	418	440	392	363	380	444	457	517	498	478	497	545	543	542	583	543	642	602	745	593	556	590
C12Q	2,119	2,479	2,458	2,237	2,338	1,615	439	593	572	515	614	614	591	660	665	570	605	618	518	572	549	598	534	555	573	676	505	587	523
A61M	1,657	1,863	2,046	2,129	2,290	1,731	358	460	421	418	428	475	461	499	477	511	479	579	497	489	498	645	579	575	522	614	527	597	607
H01M	1,116	1,492	1,780	1,933	2,246	1,557	248	279	265	324	326	356	400	410	404	470	457	449	422	492	500	519	551	529	545	621	472	554	531
C08L	1,272	1,520	2,034	2,051	2,093	1,599	270	281	380	341	315	352	420	433	446	580	521	487	506	547	449	549	501	534	482	576	485	565	549
B01J	1,614	1,587	1,815	1,869	1,990	1,416	350	434	431	399	295	367	491	434	453	452	451	459	445	456	474	494	448	485	451	606	487	433	496
G02F	836	919	1,355	1,514	1,665	1,246	173	216	224	223	197	173	253	296	311	342	337	365	379	391	362	382	391	406	400	468	344	454	448

A61B: diagnosis; surgery; identification.

A61F: filters implantable into blood vessels; prostheses; devices providing patency to, or preventing collapsing of, tubular structures of the body,

A61K: preparations for medical, dental, or toilet purposes.

A61M: devices for introducing media into, or onto, the body; devices for transducing body media or for taking media from the body; devices for producing or ending sleep or stupor

A61P: therapeutic activity of chemical compounds or medicinal preparations

B01D: separation

B01J: chemical or physical processes, e.g. catalysis, colloid chemistry; their relevant apparatus

B65D: containers for storage or transport of articles or materials,

C07C: acyclic or carbocyclic compounds

C07D: heterocyclic compounds

C07K: peptides

C08L: compositions of macromolecular compounds

C12Q: measuring or testing processes involving enzymes or micro-organisms; compositions or test papers therefor; processes of preparing such compositions; condition-responsive control in microbiological or enzymological processes

G01N: investigating or analysing materials by determining their chemical or physical properties

G02B: optical elements, systems, or apparatus

G02F: devices or arrangements, the optical operation of which is modified by changing the optical properties of the medium of the devices or arrangements for the control of the intensity, colour, phase, polarisation or direction of light.

G06F: electric digital data processing

G06Q: data processing systems or methods, specially adapted for administrative, commercial, financial, managerial, supervisory or forecasting purposes;

H01L: semiconductor devices; electric solid state devices not otherwise provided for

H01M: processes or means, e.g. batteries, for the direct conversion of chemical energy into electrical energy

H04B: transmission

H04L: transmission of digital information

H04N: pictorial communication

H04W: wireless communication networks

## Annex A2a: Number of PCT Applications by Field of Technology: Leading Countries

Source: WIPO Statistics Database, November 2009, based on the WIPO IPC-Technology concordance table

Note: Counts are based on the publication date. Multiple IPC classes are recorded in patent documents, therefore, the total number of PCT applications published reported by field of technology is greater than the total number of PCT applications published by the International Bureau.

Sector of Technology / Field of Technology / Year / Quarter	Country of Origin: France										Country of Origin: Germany										Country of Origin: Japan									
	2005	2006	2007	2008	2009	2008	2008	2009	2009	2009	2005	2006	2007	2008	2009	2008	2008	2009	2009	2009	2005	2006	2007	2008	2009	2008	2008	2009	2009	2009
	-	-	-	-	to date	3	4	1	2	3	-	-	-	-	to date	3	4	1	2	3	-	-	-	-	to date	3	4	1	2	3
<b>Electrical engineering</b>																														
Electrical machinery, apparatus, energy	306	380	409	392	276	96	101	60	100	116	1,135	1,246	1,532	1,939	1,434	468	531	490	502	442	2,409	2,810	3,078	3,439	2,756	785	1,069	827	960	969
Audio-visual technology	259	241	274	237	167	49	81	53	51	63	362	394	379	409	294	109	109	98	109	87	2,187	2,772	2,879	2,858	2,074	619	895	626	735	713
Telecommunications	333	377	469	448	319	94	134	96	111	112	497	443	414	374	245	84	88	73	95	77	1,410	2,059	2,047	2,134	1,721	552	628	578	589	554
Digital communication	340	418	549	507	389	117	141	106	146	137	561	485	514	482	239	111	89	78	105	56	845	1,081	1,084	1,257	848	340	358	187	273	388
Basic communication processes	59	48	63	75	57	15	23	22	15	20	152	151	142	156	96	35	48	36	35	25	367	453	456	532	414	163	127	123	158	133
Computer technology	373	407	467	452	363	104	134	104	123	136	786	669	637	607	492	152	132	172	189	131	1,732	2,311	2,171	2,366	1,750	552	772	526	554	670
IT methods for management	25	37	46	72	44	12	27	5	14	25	97	87	98	74	55	22	15	25	17	13	134	282	262	280	210	79	91	58	70	82
Semiconductors	112	143	133	135	126	40	47	32	40	54	508	523	504	538	434	111	162	130	167	137	1,700	2,569	2,747	2,877	2,352	728	910	725	772	855
<b>Instruments</b>																														
Optics	171	193	217	193	128	32	59	26	63	39	432	455	396	490	388	119	135	135	135	118	1,855	2,529	2,755	2,894	2,156	749	811	636	770	750
Measurement	309	370	383	391	363	81	103	103	127	133	1,028	1,091	1,262	1,347	1,030	294	367	351	408	271	1,331	1,560	1,854	1,912	1,401	433	607	452	447	502
Analysis of biological materials	97	109	106	121	104	27	34	37	33	34	485	271	230	224	179	40	52	58	72	49	459	510	443	381	293	97	89	92	102	99
Control	132	179	176	135	106	34	41	33	34	39	448	427	417	475	461	102	119	169	156	136	454	508	595	612	497	145	173	149	155	193
Medical technology	251	325	289	319	268	64	98	77	97	94	716	772	884	963	682	254	245	224	229	229	957	1,323	1,301	1,324	923	296	412	269	321	333
<b>Chemistry</b>																														
Organic fine chemistry	335	418	462	535	452	120	149	105	149	198	1,100	1,168	1,152	1,082	758	244	282	253	256	249	1,287	1,538	1,511	1,428	1,012	380	376	312	321	379
Biotechnology	275	276	246	272	228	61	76	65	77	86	689	573	519	550	408	146	153	145	137	126	1,067	1,147	1,170	886	652	226	254	194	219	239
Pharmaceuticals	335	421	478	505	406	121	151	112	133	161	817	948	876	845	589	177	223	208	181	200	1,309	1,633	1,447	1,397	877	379	364	266	305	306
Macromolecular chemistry, polymers	141	159	144	175	137	55	44	35	42	60	610	676	632	647	543	149	189	184	184	175	1,176	1,580	1,430	1,594	1,129	373	456	317	391	421
Food chemistry	68	87	86	97	65	25	25	17	24	24	112	137	149	167	100	51	42	38	31	31	434	504	471	475	290	124	136	80	97	113
Basic materials chemistry	160	167	201	235	206	68	63	63	51	92	818	883	1,019	1,029	787	239	301	256	292	239	1,017	1,406	1,543	1,565	1,149	374	507	348	407	394
Materials, metallurgy	197	187	196	233	205	68	61	55	61	89	447	516	523	601	425	119	166	150	149	126	902	1,175	1,300	1,347	985	327	407	284	322	379
Surface technology, coating	122	139	166	143	132	28	45	41	36	55	437	522	438	542	339	119	149	95	140	104	922	1,261	1,355	1,414	1,075	323	418	309	364	402
Micro-structural and nano-technology	18	17	23	15	14	4	3	1	6	7	20	25	34	42	47	10	13	16	17	14	66	114	115	118	82	36	35	29	22	31
Chemical engineering	232	269	251	289	232	74	86	67	66	99	669	752	850	923	618	202	246	210	184	224	764	940	1,064	1,103	788	283	340	279	231	278
Environmental technology	133	138	157	178	136	35	57	35	46	55	287	314	403	409	300	107	107	110	96	94	456	560	643	793	575	197	264	196	182	197
<b>Mechanical engineering</b>																														
Handling	184	225	228	219	153	42	70	45	47	61	526	523	598	654	409	155	194	142	150	117	601	746	768	792	590	166	235	207	204	179
Machine tools	123	164	176	163	114	35	50	24	44	46	705	717	757	867	626	198	252	213	223	190	577	751	776	958	694	227	281	237	224	233
Engines, pumps, turbines	151	223	275	326	281	66	93	79	93	109	984	1,059	1,146	1,188	975	292	332	328	359	288	645	802	876	1,138	847	305	323	272	266	309
Textile and paper machines	121	89	79	100	78	22	23	24	24	30	451	425	444	464	334	124	149	113	133	88	600	912	823	733	514	171	227	155	184	175
Other special machines	241	256	241	277	207	61	93	61	64	82	635	720	716	755	623	156	213	192	244	187	874	1,090	1,214	1,222	951	292	366	288	351	312
Thermal processes and apparatus	96	93	120	111	91	24	35	16	30	45	283	371	413	398	306	96	100	102	102	102	353	409	494	552	478	127	158	125	176	177
Mechanical elements	218	277	289	281	222	63	88	74	75	73	1,084	1,149	1,366	1,661	1,174	395	450	416	442	316	715	1,011	989	1,131	837	270	330	234	316	287
Transport	416	509	613	716	544	144	228	184	197	163	1,631	1,595	1,656	1,786	1,393	439	435	446	529	418	829	1,068	1,404	1,621	1,278	375	450	396	460	422
<b>Other fields</b>																														
Furniture, games	148	143	130	139	97	35	39	22	23	52	342	400	392	389	293	94	94	110	104	79	285	439	490	421	337	101	127	91	145	101
Other consumer goods	155	169	177	179	126	41	48	33	48	45	429	441	510	545	446	125	154	111	187	148	398	500	488	454	348	122	135	100	126	122
Civil engineering	204	220	211	251	259	61	88	55	96	108	508	562	528	600	467	152	146	146	161	160	282	356	350	320	284	69	96	86	105	93

## Annex A2b: Number of PCT Applications by Field of Technology: Leading Countries

Source: WIPO Statistics Database, November 2009, based on the WIPO IPC-Technology concordance table

Note: Counts are based on the publication date. Multiple IPC classes are recorded in patent documents, therefore, the total number of PCT applications published reported by field of technology is greater than the total number of PCT applications published by the International Bureau.

Sector of Technology / Field of Technology / Year / Quarter	Country of Origin: Republic of Korea										Country of Origin: United Kingdom										Country of Origin: United States of America									
	2005	2006	2007	2008	2009	2008	2008	2009	2009	2009	2005	2006	2007	2008	2009	2008	2008	2009	2009	2009	2005	2006	2007	2008	2009	2008	2008	2009	2009	2009
	-	-	-	-	to date	3	4	1	2	3	-	-	-	-	to date	3	4	1	2	3	-	-	-	-	to date	3	4	1	2	3
<b>Electrical engineering</b>																														
Electrical machinery, apparatus, energy	223	333	413	390	309	76	110	76	136	97	215	225	271	301	197	82	76	67	66	64	2,233	2,399	2,530	2,668	1,706	639	760	520	590	596
Audio-visual technology	376	273	336	380	301	73	103	84	117	100	143	145	166	129	87	23	38	22	42	23	1,404	1,403	1,440	1,497	891	386	359	289	302	300
Telecommunications	483	594	883	1,044	890	250	322	326	308	256	190	177	217	275	126	60	80	40	43	43	2,613	2,784	3,120	3,193	1,738	873	755	615	620	503
Digital communication	304	405	526	616	534	151	131	154	182	198	146	154	207	283	150	57	91	47	41	62	2,270	2,307	2,945	2,925	1,999	744	683	584	717	698
Basic communication processes	18	42	52	61	56	12	13	11	17	28	25	43	48	44	45	8	13	16	8	21	591	591	611	607	394	135	173	140	144	110
Computer technology	276	374	490	588	401	157	118	113	141	147	322	347	361	385	233	92	87	81	83	69	5,000	5,650	6,668	6,728	3,907	1,638	1,787	1,312	1,315	1,280
IT methods for management	60	107	137	139	133	32	54	42	46	45	42	59	68	130	61	33	33	16	22	23	911	1,012	1,287	1,574	984	409	476	316	327	341
Semiconductors	109	200	268	301	275	78	92	97	81	97	80	100	85	79	70	23	15	16	38	16	1,682	1,808	2,023	2,230	1,656	559	650	535	563	558
<b>Instruments</b>																														
Optics	151	149	168	239	169	68	66	47	61	61	138	132	167	134	82	21	39	22	25	35	1,605	1,630	1,540	1,541	1,029	371	394	318	363	348
Measurement	71	79	99	164	158	28	55	52	51	55	325	390	359	420	273	79	146	101	83	89	2,537	2,772	2,818	2,727	1,752	680	752	585	612	555
Analysis of biological materials	21	21	35	42	68	12	8	15	38	15	146	189	161	173	125	45	40	42	51	32	1,331	1,287	1,179	1,242	794	287	363	254	265	275
Control	37	52	64	78	61	16	22	15	28	18	130	158	148	182	105	43	53	32	33	40	1,083	1,288	1,302	1,286	686	304	300	248	230	208
Medical technology	111	122	185	237	167	55	64	54	47	66	429	418	436	483	352	89	137	119	112	121	4,810	5,409	6,034	6,067	4,003	1,546	1,574	1,264	1,457	1,282
<b>Chemistry</b>																														
Organic fine chemistry	132	157	188	242	151	66	70	43	60	48	490	480	481	480	346	88	138	104	142	100	3,475	3,428	3,110	3,178	1,856	719	852	640	598	618
Biotechnology	151	169	187	229	180	61	55	58	69	53	362	296	320	275	239	68	74	91	81	67	3,467	3,202	3,194	3,457	2,157	899	1,019	691	777	689
Pharmaceuticals	149	199	214	264	172	58	69	53	65	54	507	614	663	608	449	146	167	153	178	118	4,895	5,300	5,140	5,441	3,242	1,377	1,475	1,066	1,073	1,103
Macromolecular chemistry, polymers	85	118	135	139	89	42	32	27	26	36	88	96	77	90	48	12	22	16	18	14	1,335	1,516	1,588	1,437	1,023	323	406	339	348	336
Food chemistry	69	72	76	90	48	17	23	19	20	9	58	63	59	83	65	33	17	17	27	21	568	667	650	615	406	153	163	132	128	146
Basic materials chemistry	60	120	127	134	97	42	49	27	41	29	257	260	236	251	188	38	63	58	65	65	2,172	2,329	2,495	2,752	1,813	676	759	625	603	585
Materials, metallurgy	52	79	106	125	106	37	30	24	33	49	104	112	112	92	70	16	21	29	19	22	833	824	923	939	604	243	276	215	202	187
Surface technology, coating	44	54	67	81	49	23	24	19	13	17	84	98	103	112	52	32	21	16	21	15	1,544	1,615	1,457	1,367	865	329	363	300	311	254
Micro-structural and nano-technology	8	12	18	26	30	6	5	7	16	7	5	5	14	2	8						77	105	133	216	150	53	64	59	38	53
Chemical engineering	65	70	88	108	76	20	30	29	27	20	261	271	236	219	162	48	54	56	58	48	1,632	1,749	1,632	1,727	1,204	394	487	403	399	402
Environmental technology	68	84	80	80	69	17	25	22	17	30	103	127	120	131	92	27	32	33	32	27	609	675	763	874	589	223	263	222	195	172
<b>Mechanical engineering</b>																														
Handling	77	87	93	103	89	25	28	41	28	20	236	253	213	241	156	56	70	53	50	53	1,370	1,514	1,576	1,409	901	318	372	334	302	265
Machine tools	52	55	66	119	68	38	30	27	20	21	89	92	115	112	96	34	31	30	38	28	961	965	978	964	582	252	242	201	196	185
Engines, pumps, turbines	51	64	88	106	86	35	24	22	36	28	143	134	156	183	137	35	56	56	33	48	749	870	938	987	711	259	265	217	254	240
Textile and paper machines	57	69	65	66	41	16	18	22	8	11	86	90	90	96	68	31	23	19	26	23	992	962	850	881	577	220	241	201	208	168
Other special machines	104	128	110	129	113	35	36	38	39	36	201	174	175	193	150	37	46	54	51	45	1,436	1,554	1,387	1,632	993	465	426	343	372	278
Thermal processes and apparatus	75	93	128	211	122	68	31	39	57	26	60	76	79	75	60	13	27	18	19	23	522	514	476	560	425	160	148	127	139	159
Mechanical elements	53	55	65	81	45	22	25	12	18	15	171	178	171	222	159	47	58	51	60	48	1,025	1,042	1,091	1,178	725	296	312	231	242	252
Transport	75	106	106	149	112	34	44	33	45	34	217	187	215	259	167	54	64	57	53	57	1,190	1,309	1,293	1,422	871	371	387	267	331	273
<b>Other fields</b>																														
Furniture, games	132	202	208	237	154	61	74	54	58	42	230	247	253	262	160	65	69	62	53	45	1,397	1,560	1,578	1,372	870	316	341	318	297	255
Other consumer goods	154	296	272	360	267	81	89	95	87	85	180	154	205	202	174	44	59	58	61	55	1,032	1,073	1,015	1,085	674	307	263	231	234	209
Civil engineering	93	170	156	185	109	45	55	28	30	51	250	275	301	306	227	64	87	78	77	72	1,130	1,164	1,259	1,551	1,096	389	457	376	361	359

### Annex A3: Biotechnology PCT Applications: Top 10 Countries of Origin

Source: WIPO Statistics Database, November 2009, based on the WIPO IPC-Technology concordance table

Note: Counts are based on the publication date. Multiple IPC classes are recorded in patent documents, therefore, the total number of PCT applications published reported by field of technology is greater than the total number of PCT applications published.

#### Number of Biotechnology PCT Applications by Country of Origin

Origin / Year /Quarter	2004	2005	2006	2007	2008	2009	2004	2004	2004	2004	2005	2005	2005	2005	2006	2006	2006	2006	2007	2007	2007	2007	2008	2008	2008	2008	2009
	-	-	-	-	-	to date	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1
Total	7,709	7,677	7,548	7,588	7,807	5,454	1,875	2,054	1,907	1,873	1,983	1,966	1,806	1,922	1,906	1,819	1,874	1,949	1,773	1,942	1,790	2,083	1,708	1,854	1,942	2,303	1,764
China	123	89	95	106	154	105	27	16	41	39	28	22	20	19	24	27	16	28	25	23	33	25	22	49	32	51	39
France	274	275	276	246	272	228	66	61	79	68	73	67	69	66	80	85	48	63	53	52	56	85	69	66	61	76	65
Germany	761	689	573	519	550	408	204	189	190	178	136	178	169	206	182	136	118	137	112	155	121	131	128	123	146	153	145
Japan	919	1067	1147	1170	886	652	222	208	245	244	226	256	285	300	263	299	297	288	305	303	267	295	207	199	226	254	194
Netherlands	177	158	210	207	203	154	34	59	45	39	45	35	39	39	26	53	88	43	39	63	52	53	46	50	42	65	47
Republic of Korea	119	151	169	187	229	180	34	32	22	31	25	47	46	33	54	29	50	36	30	53	50	54	51	62	61	55	58
Sweden	99	91	88	102	96	55	25	27	19	28	20	24	23	24	20	21	22	25	14	37	17	34	13	32	18	33	24
Switzerland	174	169	208	214	206	181	40	48	37	49	37	57	40	35	49	53	51	55	51	79	34	50	61	35	48	62	59
United Kingdom	417	362	296	320	275	239	121	132	79	85	98	101	63	100	80	76	71	69	80	83	69	88	66	67	68	74	91
United States of America	3377	3467	3202	3194	3457	2157	816	970	822	769	973	918	773	803	818	703	833	848	764	746	776	908	719	820	899	1019	691

#### Share of Countries in Total Biotechnology PCT Applications Published

Year	2004	2005	2006	2007	2008	2009	2004	2004	2004	2004	2005	2005	2005	2005	2006	2006	2006	2006	2007	2007	2007	2007	2008	2008	2008	2008	2009
Quarter	-	-	-	-	-	to date	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1
China	1.6	1.2	1.3	1.4	2.0	1.9	1.4	0.8	2.1	2.1	1.4	1.1	1.1	1.0	1.3	1.5	0.9	1.4	1.4	1.2	1.8	1.2	1.3	2.6	1.6	2.2	2.2
France	3.6	3.6	3.7	3.2	3.5	4.2	3.5	3.0	4.1	3.6	3.7	3.4	3.8	3.4	4.2	4.7	2.6	3.2	3.0	2.7	3.1	4.1	4.0	3.6	3.1	3.3	3.7
Germany	9.9	9.0	7.6	6.8	7.0	7.5	10.9	9.2	10.0	9.5	6.9	9.1	9.4	10.7	9.5	7.5	6.3	7.0	6.3	8.0	6.8	6.3	7.5	6.6	7.5	6.6	8.2
Japan	11.9	13.9	15.2	15.4	11.3	12.0	11.8	10.1	12.8	13.0	11.4	13.0	15.8	15.6	13.8	16.4	15.8	14.8	17.2	15.6	14.9	14.2	12.1	10.7	11.6	11.0	11.0
Netherlands	2.3	2.1	2.8	2.7	2.6	2.8	1.8	2.9	2.4	2.1	2.3	1.8	2.2	2.0	1.4	2.9	4.7	2.2	2.2	3.2	2.9	2.5	2.7	2.7	2.2	2.8	2.7
Republic of Korea	1.5	2.0	2.2	2.5	2.9	3.3	1.8	1.6	1.2	1.7	1.3	2.4	2.5	1.7	2.8	1.6	2.7	1.8	1.7	2.7	2.8	2.6	3.0	3.3	3.1	2.4	3.3
Sweden	1.3	1.2	1.2	1.3	1.2	1.0	1.3	1.3	1.0	1.5	1.0	1.2	1.3	1.2	1.0	1.2	1.2	1.3	0.8	1.9	0.9	1.6	0.8	1.7	0.9	1.4	1.4
Switzerland	2.3	2.2	2.8	2.8	2.6	3.3	2.1	2.3	1.9	2.6	1.9	2.9	2.2	1.8	2.6	2.9	2.7	2.8	2.9	4.1	1.9	2.4	3.6	1.9	2.5	2.7	3.3
United Kingdom	5.4	4.7	3.9	4.2	3.5	4.4	6.5	6.4	4.1	4.5	4.9	5.1	3.5	5.2	4.2	4.2	3.8	3.5	4.5	4.3	3.9	4.2	3.9	3.6	3.5	3.2	5.2
United States of America	43.8	45.2	42.4	42.1	44.3	39.5	43.5	47.2	43.1	41.1	49.1	46.7	42.8	41.8	42.9	38.6	44.5	43.5	43.1	38.4	43.4	43.6	42.1	44.2	46.3	44.2	39.2

#### Biotechnology PCT Applications as a % of Total PCT Applications

Year	2004	2005	2006	2007	2008	2009	2004	2004	2004	2004	2005	2005	2005	2005	2006	2006	2006	2006	2007	2007	2007	2007	2008	2008	2008	2008	2009
Quarter	-	-	-	-	-	to date	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1
China	8.9	5.2	3.6	2.5	2.7	2.2	9.5	5.0	11.1	9.7	7.2	5.5	4.7	3.7	4.1	4.1	2.7	3.4	2.4	2.3	3.2	2.3	1.7	3.5	2.4	3.3	2.8
France	5.6	5.3	4.6	3.8	4.1	4.3	6.5	5.1	5.4	5.7	5.8	5.5	5.2	4.8	5.0	5.4	3.4	4.3	3.3	3.1	3.7	5.2	4.5	4.0	4.1	3.8	4.4
Germany	5.2	4.3	3.6	3.0	3.0	3.0	6.4	4.9	4.9	4.8	3.6	4.3	4.4	4.9	4.4	3.3	3.1	3.4	2.6	3.8	2.9	2.9	2.9	2.7	3.4	3.1	3.2
Japan	4.9	4.8	4.4	4.4	3.2	3.1	6.1	4.8	4.7	4.4	4.6	5.2	4.8	4.8	4.2	4.8	4.7	4.2	4.8	4.7	4.0	4.1	3.4	3.0	3.3	3.0	3.0
Netherlands	4.0	3.6	4.8	4.7	4.5	4.9	3.9	5.0	3.7	3.3	3.9	3.2	3.5	3.6	2.4	4.1	9.2	3.9	3.6	4.2	6.5	4.9	4.3	4.0	4.2	5.4	5.1
Republic of Korea	3.7	4.1	3.3	3.0	3.0	3.2	5.3	4.1	2.7	3.3	2.9	5.3	4.8	3.5	4.3	2.6	3.6	2.6	2.3	3.1	3.1	3.4	3.2	3.1	3.3	2.7	3.2
Sweden	3.9	3.5	3.2	3.1	2.5	2.0	4.8	4.6	2.8	3.8	4.0	3.5	3.2	3.4	3.5	2.5	3.3	3.5	2.2	3.6	2.5	3.8	1.8	3.2	1.8	3.0	3.0
Switzerland	6.1	5.6	6.1	5.8	5.4	6.6	6.3	6.7	5.0	6.5	5.4	7.3	5.6	4.3	6.0	5.7	6.4	6.5	6.0	7.7	4.1	5.2	6.1	3.6	5.8	6.0	7.0
United Kingdom	8.2	7.2	5.9	6.0	4.9	6.0	10.6	10.3	5.9	6.4	7.7	8.2	5.5	7.4	6.2	5.6	6.3	5.5	6.2	6.2	5.8	6.0	4.7	4.7	5.3	4.9	6.9
United States of America	8.6	7.7	6.6	6.1	6.2	6.0	9.4	9.4	8.0	7.6	8.7	8.3	7.1	6.7	6.7	5.8	7.1	6.7	6.0	6.0	5.9	6.3	5.7	6.0	6.4	6.8	5.9

## Annex A4: ISA Selected by PCT Applicants and ISRs Established by ISA

Source: WIPO Statistics Database, November 2009

### International Search Authorities (ISAs) Selected by PCT Applicants

Note: 2009 data are provisional and incomplete. Counts are based on the international filing date.

#### ISA selected by applicants

ISA_Name Year / Quarter	2004	2005	2006	2007	2008	2009 to date	2006 3	2006 4	2007 1	2007 2	2007 3	2007 4	2008 1	2008 2	2008 3	2008 4	2009 1	2009 2	2009 3
Australia	2,503	2,735	2,754	2,811	2,755	1,933	688	777	581	700	760	770	621	716	719	699	563	684	686
Austria	825	916	1,097	1,171	1,192	1,094	277	310	261	293	310	307	298	263	308	323	347	388	359
Brazil						17													17
Canada	855	2,107	2,317	2,528	2,477	1,477	550	585	556	698	610	664	644	664	554	615	443	542	492
China	1,652	2,484	3,892	5,492	6,189	5,505	1,095	1,237	1,078	1,235	1,487	1,692	1,326	1,482	1,561	1,820	1,496	1,856	2,153
European Patent Office	63,202	67,118	71,527	75,409	77,913	50,890	17,435	19,438	17,609	18,756	18,268	20,776	18,392	19,908	19,048	20,565	16,464	17,838	16,588
Finland		426	642	718	660	652	130	173	177	241	108	192	131	205	119	205	204	296	152
Japan	18,696	23,020	25,146	25,947	27,117	21,613	6,181	6,418	7,540	5,953	6,061	6,393	7,202	6,025	6,723	7,167	8,147	6,518	6,948
Nordic Patent Institute					102	161							30	29	17	26	34	70	57
Republic of Korea	3,211	4,230	6,673	10,237	19,014	15,485	1,594	2,492	2,207	2,202	2,176	3,652	3,856	4,982	4,813	5,363	4,791	5,353	5,341
Russian Federation	617	723	806	854	895	493	197	240	182	215	186	271	214	235	236	210	188	161	144
Spain	772	987	1,064	1,142	1,201	908	254	282	296	298	215	333	285	362	245	309	273	358	277
Sweden	3,401	3,377	3,191	3,132	2,339	1,448	586	986	769	842	662	859	675	667	399	598	436	622	390
United States of America	26,897	28,622	30,552	30,505	21,388	11,465	7,216	7,714	7,914	7,899	7,433	7,259	5,828	5,610	4,981	4,969	3,830	4,000	3,635
Total	122,631	136,745	149,661	159,946	163,242	113,141	36,203	40,652	39,170	39,332	38,276	43,168	39,502	41,148	39,723	42,869	37,216	38,686	37,239

#### Distribution of ISA selected by the applicants (%)

ISA_Name Year / Quarter	2004	2005	2006	2007	2008	2009 to date	2006 3	2006 4	2007 1	2007 2	2007 3	2007 4	2008 1	2008 2	2008 3	2008 4	2009 1	2009 2	2009 3
Australia	2.0	2.0	1.8	1.8	1.7	1.7	1.9	1.9	1.5	1.8	2	1.8	1.6	1.7	1.8	1.6	1.5	1.8	1.8
Austria	0.7	0.7	0.7	0.7	0.7	1.0	0.8	0.8	0.7	0.7	0.8	0.7	0.8	0.6	0.8	0.8	0.9	1	1
Brazil						0.0													
Canada	0.7	1.5	1.5	1.6	1.5	1.3	1.5	1.4	1.4	1.8	1.6	1.5	1.6	1.6	1.4	1.4	1.2	1.4	1.3
China	1.3	1.8	2.6	3.4	3.8	4.9	3	3	2.8	3.1	3.9	3.9	3.4	3.6	3.9	4.2	4	4.8	5.8
European Patent Office	51.5	49.1	47.8	47.1	47.7	45.0	48.2	47.8	45	47.7	47.7	48.1	46.6	48.4	48	48	44.2	46.1	44.5
Finland		0.3	0.4	0.4	0.4	0.6	0.4	0.4	0.5	0.6	0.3	0.4	0.3	0.5	0.3	0.5	0.5	0.8	0.4
Japan	15.2	16.8	16.8	16.2	16.6	19.1	17.1	15.8	19.2	15.1	15.8	14.8	18.2	14.6	16.9	16.7	21.9	16.8	18.7
Nordic Patent Institute					0.1	0.1							0.1	0.1		0.1	0.1	0.2	0.2
Republic of Korea	2.6	3.1	4.5	6.4	11.6	13.7	4.4	6.1	5.6	5.6	5.7	8.5	9.8	12.1	12.1	12.5	12.9	13.8	14.3
Russian Federation	0.5	0.5	0.5	0.5	0.5	0.4	0.5	0.6	0.5	0.5	0.5	0.6	0.5	0.6	0.6	0.5	0.5	0.4	0.4
Spain	0.6	0.7	0.7	0.7	0.7	0.8	0.7	0.7	0.8	0.8	0.6	0.8	0.7	0.9	0.6	0.7	0.7	0.9	0.7
Sweden	2.8	2.5	2.1	2.0	1.4	1.3	1.6	2.4	2	2.1	1.7	2	1.7	1.6	1	1.4	1.2	1.6	1
United States of America	21.9	20.9	20.4	19.1	13.1	10.1	19.9	19	20.2	20.1	19.4	16.8	14.8	13.6	12.5	11.6	10.3	10.3	9.8

### International Search Reports (ISRs) Established by International Searching Authorities (ISA)

Note: 2009 data are provisional and incomplete. Counts are based on the date of establishment of ISR.

#### Number of ISR established by ISA

ISA_Name / ISA_Code Year / Quarter	2004	2005	2006	2007	2008	2009 to date	2006 3	2006 4	2007 1	2007 2	2007 3	2007 4	2008 1	2008 2	2008 3	2008 4	2009 1	2009 2	2009 3
Australia	2,363	2,657	2,606	2,796	2,770	1,912	711	646	729	613	696	758	614	749	705	702	596	586	730
Austria	788	783	843	937	942	1,185	187	178	270	248	198	221	253	273	209	207	298	376	511
Canada	99	2,112	2,117	2,310	2,496	1,548	572	558	522	568	668	552	608	640	738	510	513	456	579
China	1,319	2,148	3,109	4,954	5,890	4,821	836	954	1,177	1,132	1,302	1,343	1,283	1,419	1,667	1,521	1,630	1,543	1,648
European Patent Office	62,243	65,641	65,490	68,987	76,909	57,876	16,801	16,326	17,620	16,561	17,193	17,613	17,843	19,289	20,043	19,734	20,118	18,708	19,050
Finland		217	596	707	625	606	161	124	184	162	168	193	139	202	144	140	170	249	187
Japan	17,947	22,810	25,017	26,059	26,524	21,520	6,005	6,587	5,952	7,470	6,216	6,421	5,932	7,226	6,773	6,593	7,015	8,014	6,491
Nordic Patent Institute					68	130								25	24	19	28	36	66
Republic of Korea	2,931	3,657	4,766	8,347	13,004	12,895	1,004	1,402	2,118	1,969	2,079	2,181	2,818	3,573	3,250	3,363	4,711	3,991	4,193
Russian Federation	609	593	693	757	798	579	174	204	158	201	190	208	161	207	194	236	189	194	196
Spain	715	856	857	1,078	1,185	819	191	221	292	298	248	240	285	304	242	354	282	249	288
Sweden	3,114	3,411	2,957	2,980	2,824	1,687	592	818	799	805	668	708	790	825	660	549	659	500	528
United States of America	18,657	22,974	23,971	28,647	51,939	11,472	7,511	6,248	6,310	5,096	9,122	8,119	9,199	13,132	20,612	8,996	4,882	3,241	3,349
Total	110,785	127,859	133,022	148,559	185,974	117,050	34,745	34,266	36,131	35,123	38,748	38,557	39,925	47,864	55,261	42,924	41,091	38,143	37,816

#### Distribution of ISR established by ISA (%)

ISA_Name / ISA_Code Year / Quarter	2004	2005	2006	2007	2008	2009 to date	2006 3	2006 4	2007 1	2007 2	2007 3	2007 4	2008 1	2008 2	2008 3	2008 4	2009 1	2009 2	2009 3
Australia	2.1	2.1	2.0	1.9	1.5	1.6	2	1.9	2	1.7	1.8	2	1.5	1.6	1.3	1.6	1.5	1.5	1.9
Austria	0.7	0.6	0.6	0.6	0.5	1.0	0.5	0.5	0.7	0.7	0.5	0.6	0.6	0.6	0.4	0.5	0.7	1	1.4
Canada	0.1	1.7	1.6	1.6	1.3	1.3	1.6	1.6	1.4	1.6	1.7	1.4	1.5	1.3	1.3	1.2	1.2	1.2	1.5
China	1.2	1.7	2.3	3.3	3.2	4.1	2.4	2.8	3.3	3.2	3.4	3.5	3.2	3	3	3.5	4	4	4.4
European Patent Office	56.2	51.3	49.2	46.4	41.4	49.4	48.4	47.6	48.8	47.2	44.4	45.7	44.7	40.3	36.3	46	49	49	50.4
Finland		0.2	0.4	0.5	0.3	0.5	0.5	0.4	0.5	0.5	0.4	0.5	0.3	0.4	0.3	0.3	0.4	0.7	0.5
Japan	16.2	17.8	18.8	17.5	14.3	18.4	17.3	19.2	16.5	21.3	16	16.7	14.9	15.1	12.3	15.4	17.1	21	17.2
Nordic Patent Institute					0.0	0.1								0.1		0.1	0.1	0.1	0.2
Republic of Korea	2.6	2.9	3.6	5.6	7.0	11.0	2.9	4.1	5.9	5.6	5.4	5.7	7.1	7.5	5.9	7.8	11.5	10.5	11.1
Russian Federation	0.5	0.5	0.5	0.5	0.4	0.5	0.5	0.6	0.4	0.6	0.5	0.5	0.4	0.4	0.4	0.5	0.5	0.5	0.5
Spain	0.6	0.7	0.6	0.7	0.6	0.7	0.5	0.6	0.8	0.8	0.6	0.6	0.7	0.6	0.4	0.8	0.7	0.7	0.8
Sweden	2.8	2.7	2.2	2.0	1.5	1.4	1.7	2.4	2.2	2.3	1.7	1.8	2	1.7	1.2	1.3	1.6	1.3	1.4
United States of America	16.8	18.0	18.0	19.3	27.9	9.8	21.6	18.2	17.5	14.5	23.5	21.1	23	27.4	37.3	21	11.9	8.5	8.9

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