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SUBJECT: Statistics 2017

SUBMITTED BY: President of the European Patent Office

ADDRESSEES: Budget and Finance Committee (for information)

SUMMARY

Annual compendium of statistics on the activity at the EPO and at the member state offices in 2017.

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aa)	Netherlands	46
bb)	Norway	47
cc)	Poland	48
dd)	Portugal	49
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I. STRATEGIC/OPERATIONAL

1. Operational

II. RECOMMENDATION

2. To take note

III. MAJORITY NEEDED

3. n.a.

IV. CONTEXT

4. Information to the BFC

V. RECOMMENDATION FOR PUBLICATION

5. Yes.

6. As its previous versions, this document has been compiled with the support of the National Offices of the Contracting states. Following the decision taken in 2015, subsequent editions of the document have been published. It is recommended to publish the current version as well.

VI. ANALYSIS

7. In the different phases of the patent procedures, the development is expressed in percentage change compared to the previous year. Where appropriate, numbers have been rounded.

A. KEY RESULTS

8. The key results for 2017 are:

- Increase by 4.6% of the number of applications to ca 166 600.
- More than 105 600 published European patents (+10%).
- Stable development in national applications in the member states.

- 64% of all applications filed in the EPC area (EPO and National Offices) originated from the member states.
- 2% decrease in national patents granted in the member states.

B. EUROPEAN PATENT APPLICATIONS FILED

9. See Annex 1.A
10. European patent applications are either direct European applications or PCT international applications entering the regional phase during the reporting period.
11. Based on the information available in June 2018, some 166 590 applications were filed for European patents in 2017. This was 4.6% above the latest 2016 figure.
12. Less than half of the applications (47.2%, -0.7% pts) originated from the EPC Contracting States. The combined share of the three leading Asian countries remained stable at 22%. The share of the U.S. (25.5%) grew marginally by 0.4% pts.
13. In 2017, EPC residents filed about 136 200 first filings in the EPC area (at EPO and at National Offices). Of these 79% were filed at the national office of the applicant's residence, 17% where filed at the EPO and 4% were filed at another EPC national office.
14. The first filings made by EPC residents at the EPO accounted for 29% of all the applications filed by EPC residents at the EPO.

C. GRANT PROCEDURE

15. See Annex 1.B.a
16. The grant procedure has been completed for 93% of all applications for a European patent filed up until the end of 2012. For these applications the grant rate was 56%. Of those applications filed since the beginning of 2012, 21.1% of the procedures have been completed.
17. The number of published granted patents increased by 10.1% to 105 635 in 2017 (see Annex 1.C).

18. On average (median), the examination was completed 22.1 months after the examination was validly filed with the EPO (23.3 in 2016).
19. On average (median) the patents were granted within 44.0 months in 2017 (45.4 in 2016) and 38% were granted within 3 years (37% in 2016) from filing at the EPO to publication of the patent.

D. OPPOSITION PROCEDURE

20. See Annex 1.B.b
21. The number of patents for which the opposition period expired in 2017 increased to 99 721 by 35% and 3.7% of these patents were eventually opposed (4.0% in 2016). Considering that multiple parties can oppose the same patent, the average number of oppositions filed per opposed patent was 1.24 in 2017 (1.24 in 2016).
22. As shown in the annexed tables, the opposition rate varies among technologies and according to the country of residence of the patentees.
23. In 2017, 73% of the granted patents were maintained (as granted or in amended form) and 27% were initially revoked by the opposition divisions (28% in 2016).

E. APPEAL PROCEDURES

24. See Annex 1.B.c
25. The number of decisions to refuse a patent for which the appeal period expired in 2017 increased by 15% compared to 2016 to 6 281. Of these decisions to refuse a patent 1 141 (+15%) were appealed, leading to a stable ex parte appeal rate of 18% (18% in 2016).
26. The number of opposition decisions open for appeal increased by 3.8% to 4 104. The number of decisions appealed increased by 18% to 2 053 leading to an increase of the inter partes appeal rate to 50% (44% in 2016).
27. Statistics on the outcome of the appeal procedures are available on the home page of the EPO (epo.org/law-practice/case-law-appeals/annual-report.html).

F. VALIDATION AND MAINTENANCE

28. See Annex 1.D
29. The figures presented in the annexes are based on the data available in the Post Grant Data System of the EPO and reflect the information provided by the national offices of the member states. They represent the situation as at the end of 2017 with respect to the validation and the maintenance of European granted patents in the member states as available in June 2018. A patent is considered as maintained until its abandonment is legally recorded and transmitted to the EPO.
30. The EP patents validated are maintained on average (median) up to 13 years. About 21% of the validated rights are maintained up until the expiration of the 20th patent-year.
31. As a consequence of the increase in granted patents in 2016, the number of those which were validated in 2017 increased. The number of patents granted by the EPO and still in force in the Contracting States at the end of the year increased by 15% in 2017. Approximately 5.7 million patent rights granted by the EPO were in force at the end of 2017.
32. There are substantial differences in validation and patent maintenance rate between the designated member states.

G. NATIONAL PROCEDURE

33. See Annex 2
34. National patent applications are either direct national applications or for member states where it is possible PCT international applications entering the national phase during the reporting period.
35. Based on the data provided by the National Offices by August 2017 and on estimations for 2 member states for which data are missing, it is estimated that 154 000 applications for a national patent were filed in the member states in 2017. This represented a small decrease compared to 2016 (-0.6%).

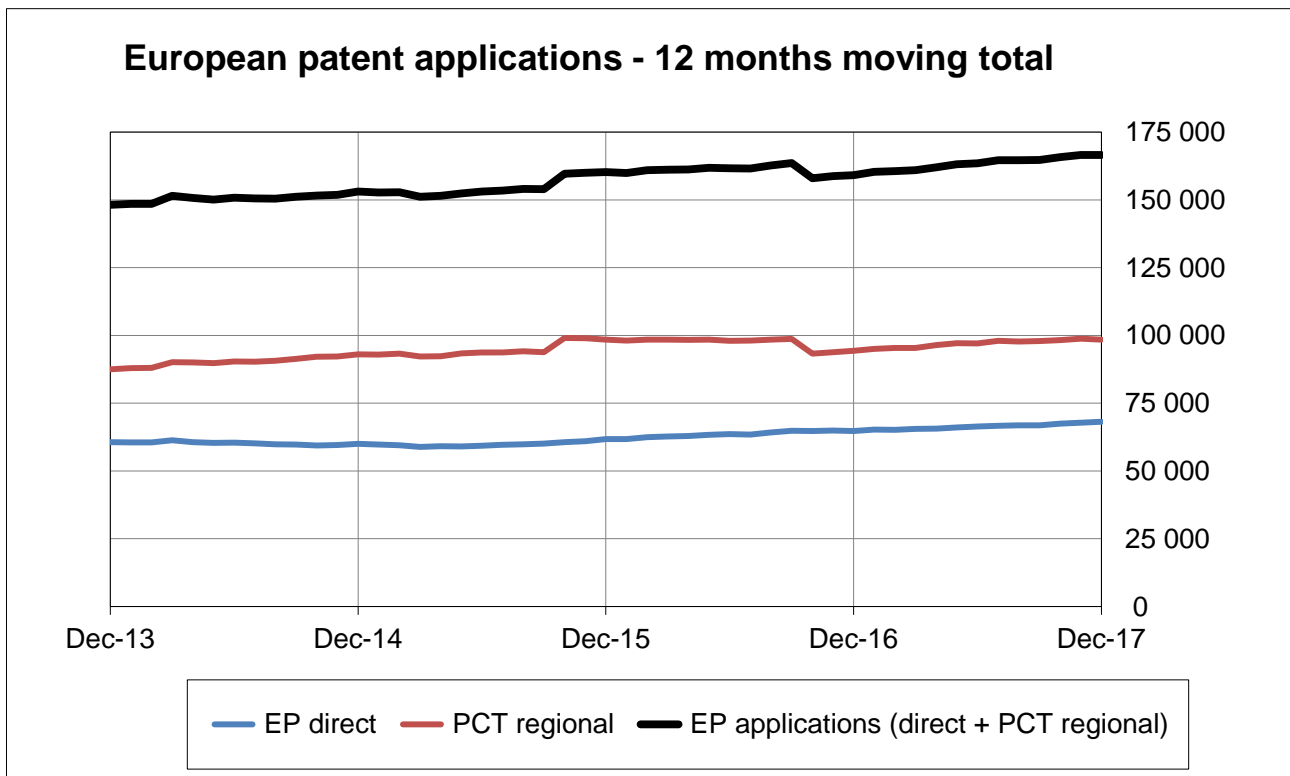
36. About 76% were filed by residents of the respective countries (76% in 2016), and 29% of the foreign applications were filed by residents of other EPC Contracting States. Together 83% of the national patent applications in the EPC states were filed by residents of the EPC states (83% in 2016).
37. In 2017, overall 93% of the national applications filed by residents of the EPC member states at their home office were first filings.
38. It is calculated (estimating missing data) that about 131 250 national grant procedures were completed in 2017. Of these, 59 420 resulted in a granted patent. This is 2% lower than the number of patents granted by the National Offices in 2016.

ANNEX 1 EUROPEAN PATENT PROCEDURES STATISTICS

A. EUROPEAN PATENT APPLICATIONS FILED

a) Filing route in 2017

Category	Budget 2017	Previous year 2016	Actual 2017 Status June 2018	Deviation to budget		Deviation to previous year	
				Number	%	Number	%
Euro-direct	62 870	64 739	68 155	5 285	8.4%	3 416	5.3%
PCT regional	98 110	94 597	98 438	328	0.3%	3 841	4.1%
Total applications	160 980	159 336	166 593	5 613	3.5%	7 257	4.6%



b) Origin and growth over 2016 (%)

Country of origin		EP direct ¹		PCT regional ¹		EP applications	
Albania	AL	0		0		0	
Austria	AT	1 285	14.2%	937	2.7%	2 222	9.1%
Belgium	BE	1 299	-4.3%	858	0.7%	2 157	-2.4%
Bulgaria	BG	14	16.7%	17	142.9%	31	63.2%
Switzerland	CH	4 282	0.1%	3 003	0.9%	7 285	0.4%
Cyprus	CY	19	35.7%	33	43.5%	52	40.5%
Czech Republic	CZ	100	0.0%	104	15.6%	204	7.4%
Germany	DE	14 314	4.5%	11 241	-0.2%	25 555	2.4%
Denmark	DK	1 155	14.8%	967	11.9%	2 122	13.5%
Estonia	EE	40	60%	14	-26.3%	54	22.7%
Spain	ES	1 008	13.9%	670	-2.8%	1 678	6.6%
Finland	FI	855	24.3%	969	-14.1%	1 824	0.4%
France	FR	4 605	2.2%	6 021	0.6%	10 626	1.3%
United Kingdom	GB	1 891	4.2%	3 446	2.3%	5 337	3.0%
Greece	GR	50	78.6%	52	10.6%	102	36.0%
Croatia	HR	2	-33.3%	8	-38.5%	10	-37.5%
Hungary	HU	32	-3.0%	65	-13.3%	97	-10.2%
Ireland	IE	311	-17.3%	295	-4.8%	606	-11.7%
Iceland	IS	9	50.0%	47	42.4%	56	43.6%
Italy	IT	2 124	6.7%	2 235	3.2%	4 359	4.9%
Liechtenstein	LI	200	0.0%	180	2.9%	380	1.3%
Lithuania	LT	8	-11.1%	16	-5.9%	24	-7.7%
Luxembourg	LU	222	-7.1%	337	2.1%	559	-1.8%
Latvia	LV	7	75.0%	8	0.0%	15	25.0%
Monaco	MC	12	-25.0%	16	-11.1%	28	-17.6%
F Y R of Macedonia	MK	0	-100.0%	0		0	-100.0%
Malta	MT	40	-13.0%	61	35.6%	101	11.0%
Netherlands	NL	3 817	1.1%	3 219	4.4%	7 036	2.6%
Norway	NO	164	3.1%	368	0.5%	532	1.3%
Poland	PL	284	15.9%	171	14.8%	455	15.5%
Portugal	PT	54	-5.3%	95	-6.9%	149	-6.3%
Romania	RO	39	143.8%	13	-13.3%	52	67.7%
Serbia	RS	3		7	600.0%	10	900.0%
Sweden	SE	1 186	3.9%	2 597	7.9%	3 783	6.6%
Slovenia	SI	55	3.8%	42	-30.0%	97	-14.2%
Slovakia	SK	26	-7.1%	15	0.0%	41	-4.7%
San Marino	SM	0	-100.0%	2	-60.0%	2	-80.0%
Turkey	TR	549	187.4%	362	10.4%	911	75.5%
EPC contracting states		40 061	5.0%	38 491	1.4%	78 552	3.2%
P.R. China	CN	1 998	17.9%	6 628	22.8%	8 626	21.6%
Japan	JP	6 686	3.9%	15 073	3.6%	21 759	3.7%
Republic of Korea	KR	2 795	-13.3%	3 661	6.0%	6 456	-3.3%
United States of America	US	13 148	8.5%	29 398	5.3%	42 546	6.3%
Other countries	xxx	3 467	10.5%	5 187	-2.7%	8 654	2.2%
Non EPC		28 094	5.6%	59 947	5.8%	88 041	5.8%
TOTAL		68 155	5.3%	98 438	4.1%	166 593	4.6%

(1) 2017 Euro-direct and PCT regional - EPASYS status May 2018

c) First filings at the EPO

Number of Euro-direct first filings and percentage out of total applications filed, and change of this percentage to the latest 2016 figures.

Country of origin		2017		2017 / 2016
Albania	AL	0	-	-100.0%
Austria	AT	764	34.4%	26.5%
Belgium	BE	912	42.3%	-4.3%
Bulgaria	BG	9	29.0%	50.0%
Switzerland	CH	3 262	44.8%	0.2%
Cyprus	CY	5	9.6%	-44.4%
Czech Republic	CZ	33	16.2%	-10.8%
Germany	DE	7 184	28.1%	5.7%
Denmark	DK	843	39.7%	8.8%
Estonia	EE	25	46.3%	177.8%
Spain	ES	785	46.8%	22.7%
Finland	FI	597	32.7%	46.7%
France	FR	2 066	19.4%	0.1%
United Kingdom	GB	759	14.2%	12.6%
Greece	GR	33	32.4%	153.8%
Croatia	HR	2	20.0%	0.0%
Hungary	HU	20	20.6%	0.0%
Ireland	IE	152	25.1%	-22.8%
Iceland	IS	4	7.1%	0.0%
Italy	IT	546	12.5%	16.2%
Liechtenstein	LI	188	49.5%	3.3%
Lithuania	LT	2	8.3%	100.0%
Luxembourg	LU	104	18.6%	-11.9%
Latvia	LV	4	26.7%	0.0%
Monaco	MC	1	3.6%	-66.7%
F Y R of Macedonia	MK	0	-	-100.0%
Malta	MT	27	26.7%	-34.1%
Netherlands	NL	3 052	43.4%	0.4%
Norway	NO	96	18.0%	12.9%
Poland	PL	152	33.4%	10.9%
Portugal	PT	22	14.8%	37.5%
Romania	RO	33	63.5%	312.5%
Serbia	RS	2	20.0%	-
Sweden	SE	829	21.9%	2.3%
Slovenia	SI	23	23.7%	64.3%
Slovakia	SK	10	24.4%	-16.7%
San Marino	SM	0	-	-100.0%
Turkey	TR	445	48.8%	383.7%
EPC states		22 991	29.3%	6.9%
P.R. China	CN	212	2.5%	61.8%
Japan	JP	379	1.7%	11.8%
Rep. Korea	KR	50	0.8%	-24.2%
United States of America	US	1 237	2.9%	3.7%
Other countries		374	4.3%	-10.7%
Non EPC		2 252	2.6%	4.8%
TOTAL		25 243	15.2%	6.7%

B. EUROPEAN PROCEDURES

a) Grant procedure

Fate of 100 applications filed from 1978 to 2012.

Fate of applications by filing route

Procedural phase		Euro-direct applications	PCT regional phase	Total
Before examination	Refused	0	0	0
	Withdrawn	19	8	15
Forwarded for examination		81	92	85
Examination	Refused	3	3	3
	Withdrawn	22	32	26
	Granted	56	56	56
Total		100	100	100

Fate of 100 PCT international filings 1978-2012.

Not pursued in the EPO regional phase	43	
Entered the European procedure	57	
Before examination	Refused	0
	Withdrawn	5
Forwarded for examination		52
Examination	Refused	2
	Withdrawn	18
	Granted	32
Total	100	

Fate of applications filed from 2013 to 2017

Fate of applications by filing route

Euro-direct		2013	2014	2015	2016	2017
Applications filed		60 657 100.0%	60 047 100.0%	61 770 100.0%	64 739 100.0%	68 155 100.0%
Before examination	Refused	480 0.8%	267 0.4%	310 0.5%	178 0.3%	45 0.1%
	Withdrawn	18 555 30.6%	18 907 31.5%	18 496 29.9%	12 998 20.1%	3 737 5.5%
	Not yet forwarded for examination:					
	Search completed	341 0.6%	106 0.2%	129 0.2%	8 764 13.5%	14 732 21.6%
	Search not completed	601 1.0%	206 0.3%	96 0.2%	171 0.3%	27 021 39.6%
Examination	Forwarded	40 680 67.1%	40 561 67.5%	42 739 69.2%	42 628 65.8%	22 620 33.2%
	Refused	622 1.0%	418 0.7%	141 0.2%	6 0.0%	0 0.0%
	Withdrawn	5 309 8.8%	3 842 6.4%	1 785 2.9%	412 0.6%	12 0.0%
	Granted	16 973 28.0%	14 291 23.8%	9 409 15.2%	1 989 3.1%	7 0.0%
	Examination not yet completed:	17 776 29.3%	22 010 36.7%	31 404 50.8%	40 221 62.1%	22 601 33.2%
PCT with supplementary search		2013	2014	2015	2016	2017
Applications filed		40 878 100.0%	43 958 100.0%	47 108 100.0%	44 815 100.0%	46 695 100.0%
Before examination	Refused	12 0.0%	16 0.0%	5 0.0%	3 0.0%	0 0.0%
	Withdrawn	7 356 18.0%	5 772 13.1%	5 892 12.5%	2 904 6.5%	353 0.8%
	Not yet forwarded for examination:					
	Search completed	389 1.0%	22 0.1%	73 0.2%	1 779 4.0%	612 1.3%
	Search not completed	669 1.6%	17 0.0%	87 0.2%	2 232 5.0%	36 274 77.7%
Examination	Forwarded	32 452 79.4%	38 131 86.7%	41 051 87.1%	37 897 84.6%	9 456 20.3%
	Refused	379 0.9%	295 0.7%	64 0.1%	5 0.0%	0 0.0%
	Withdrawn	4 338 10.6%	4 263 9.7%	1 774 3.8%	297 0.7%	7 0.0%
	Granted	10 212 25.0%	10 027 22.8%	5 525 11.7%	755 1.7%	2 0.0%
	Examination not yet completed:	17 523 42.9%	23 546 53.6%	33 688 71.5%	36 840 82.2%	9 447 20.2%
PCT without supplementary search		2013	2014	2015	2016	2017
Applications filed		46 620 100.0%	49 041 100.0%	51 338 100.0%	49 780 100.0%	51 743 100.0%
Before examination	Refused	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%
	Withdrawn	63 0.1%	46 0.1%	64 0.1%	52 0.1%	71 0.1%
	Not yet forwarded for examination:					
	Search completed	3 0.0%	6 0.0%	6 0.0%	10 0.0%	49 0.1%
	Search not completed	0 0.0%	0 0.0%	0 0.0%	0 0.0%	0 0.0%
Examination	Forwarded	46 554 99.9%	48 989 99.9%	51 268 99.9%	49 718 99.9%	51 623 99.8%
	Refused	469 1.0%	321 0.7%	136 0.3%	11 0.0%	0 0.0%
	Withdrawn	9 576 20.5%	7 870 16.0%	5 598 10.9%	2 447 4.9%	527 1.0%
	Granted	22 281 47.8%	19 285 39.3%	14 768 28.8%	6 006 12.1%	154 0.3%
	Examination not yet completed:	14 228 30.5%	21 513 43.9%	30 766 59.9%	41 254 82.9%	50 942 98.5%
Total applications		2013	2014	2015	2016	2017
Applications filed		148 155 100.0%	153 046 100.0%	160 216 100.0%	159 336 100.0%	166 593 100.0%
Before examination	Refused	492 0.3%	283 0.2%	315 0.2%	181 0.1%	45 0.0%
	Withdrawn	25 974 17.5%	24 725 16.2%	24 452 15.3%	15 954 10.0%	4 161 2.5%
	Not yet forwarded for examination:					
	Search completed	733 0.5%	134 0.1%	208 0.1%	10 553 6.6%	15 393 9.2%
	Search not completed	1 270 0.9%	223 0.1%	183 0.1%	2 403 1.5%	63 295 38.0%
Examination	Forwarded	119 686 80.8%	127 681 83.4%	135 058 84.3%	130 245 81.7%	83 699 50.2%
	Refused	1 470 1.0%	1 034 0.7%	341 0.2%	22 0.0%	0 0.0%
	Withdrawn	19 223 13.0%	15 975 10.4%	9 157 5.7%	3 156 2.0%	546 0.3%
	Granted	49 466 33.4%	43 603 28.5%	29 702 18.5%	8 750 5.5%	163 0.1%
	Examination not yet completed:	49 527 33.4%	67 069 43.8%	95 858 59.8%	118 317 74.3%	82 990 49.8%

b) Opposition procedure

Opposition rate and oppositions field according to fields of technology

Technology	Patents which could be opposed	Opposed patents	Oppositions filed	Opposition rate	Opposition ratio
Electrical engineering	24 062	292	340	1.2%	1.16
Electrical machinery, apparatus, energy	7 100	162	186	2.3%	1.15
Audio-visual technology	2 277	44	45	1.9%	1.02
Telecommunications	2 898	25	32	0.9%	1.28
Digital communication	5 955	22	26	0.4%	1.18
Basic communication processes	577	1	1	0.2%	1.00
Computer technology	3 557	28	39	0.8%	1.39
IT methods for management	102	2	2	2.0%	1.00
Semiconductors	1 596	8	9	0.5%	1.13
Instruments	16 848	428	515	2.5%	1.20
Optics	2 118	24	25	1.1%	1.04
Measurement	4 349	86	95	2.0%	1.10
Analysis of biological materials	708	14	14	2.0%	1.00
Control	1 112	43	46	3.9%	1.07
Medical technology	8 561	261	335	3.0%	1.28
Chemistry	24 329	1 444	1 954	5.9%	1.35
Organic fine chemistry	4 437	183	241	4.1%	1.32
Biotechnology	3 215	147	220	4.6%	1.50
Pharmaceuticals	3 121	240	449	7.7%	1.87
Macromolecular chemistry, polymers	2 559	160	188	6.3%	1.18
Food chemistry	987	140	180	14.2%	1.29
Basic materials chemistry	2 657	218	268	8.2%	1.23
Materials, metallurgy	2 036	114	131	5.6%	1.15
Surface technology, coating	1 499	75	86	5.0%	1.15
Micro-structural and nano-technology	174	4	4	2.3%	1.00
Chemical engineering	2 219	94	107	4.2%	1.14
Environmental technology	1 425	69	80	4.8%	1.16
Mechanical engineering	26 245	1 142	1 328	4.4%	1.16
Handling	3 313	176	206	5.3%	1.17
Machine tools	2 744	129	152	4.7%	1.18
Engines, pumps, turbines	4 272	173	211	4.0%	1.22
Textile and paper machines	1 741	113	145	6.5%	1.28
Other special machines	3 654	181	201	5.0%	1.11
Thermal processes and apparatus	1 852	79	87	4.3%	1.10
Mechanical elements	2 652	113	129	4.3%	1.14
Transport	6 017	178	197	3.0%	1.11
Other fields	8 219	341	403	4.1%	1.18
Furniture, games	2 084	72	86	3.5%	1.19
Other consumer goods	2 515	133	149	5.3%	1.12
Civil engineering	3 620	136	168	3.8%	1.24
Not classified	18	0	0	0.0%	-
Total	99 721	3 647	4 540	3.7%	1.24

Opposition rate and oppositions field according to proprietor origin

Country of residence of the patent proprietor	Patents which could be opposed	Opposed patents	Oppositions filed	Opposition rate	Opposition ratio
AL Albania	0	0	0	-	-
AT Austria	1 413	81	90	5.7%	1.11
BE Belgium	1 152	61	73	5.3%	1.20
BG Bulgaria	17	0	0	0.0%	-
CH Switzerland	4 015	262	345	6.5%	1.32
CY Cyprus	22	2	2	9.1%	1.00
CZ Czech Republic	97	3	3	3.1%	1.00
DE Germany	19 256	1 118	1 355	5.8%	1.21
DK Denmark	1 065	92	118	8.6%	1.28
EE Estonia	10	0	0	0.0%	-
ES Spain	774	18	18	2.3%	1.00
FI Finland	1 117	51	59	4.6%	1.16
FR France	7 173	229	288	3.2%	1.26
GB United Kingdom	2 948	123	150	4.2%	1.22
GR Greece	41	2	5	4.9%	2.50
HR Croatia	6	0	0	0.0%	-
HU Hungary	64	2	2	3.1%	1.00
IE Ireland	423	8	8	1.9%	1.00
IS Iceland	28	2	2	7.1%	1.00
IT Italy	3 220	130	149	4.0%	1.15
LI Liechtenstein	147	6	6	4.1%	1.00
LT Lithuania	18	0	0	0.0%	-
LU Luxembourg	290	10	21	3.4%	2.10
LV Latvia	16	0	0	0.0%	-
MC Monaco	12	0	0	0.0%	-
MK FYRO Macedonia	1	0	0	0.0%	-
MT Malta	40	2	2	5.0%	1.00
NL Netherlands	2 980	153	189	5.1%	1.24
NO Norway	351	11	17	3.1%	1.55
PL Poland	194	5	6	2.6%	1.20
PT Portugal	61	5	6	8.2%	1.20
RO Romania	15	0	0	0.0%	-
RS Serbia	0	0	0	-	-
SE Sweden	2 739	97	110	3.5%	1.13
SI Slovenia	91	7	11	7.7%	1.57
SK Slovakia	17	0	0	0.0%	-
SM San Marino	5	0	0	0.0%	-
TR Turkey	275	12	14	4.4%	1.17
EPC states	50 093	2 492	3 049	5.0%	1.22
CN P.R. China	2 629	22	26	0.8%	1.18
JP Japan	16 289	225	261	1.4%	1.16
KR Rep. Korea	3 579	40	40	1.1%	1.00
US United States of America	22 798	758	994	3.3%	1.31
Other	4 333	110	170	2.5%	1.55
Total	99 721	3 647	4 540	3.7%	1.24

Outcome of the opposition procedures completed in 2017 (examiner decisions)

According to the field of technology

Technology	Opposition rejected		Patent revoked		Patent amended		Total	
	Count	%	Count	%	Count	%	Count	%
Electrical engineering	105	28%	111	30%	157	42%	373	100%
Electrical machinery, apparatus, energy	40	24%	48	28%	82	48%	170	100%
Audio-visual technology	12	27%	22	49%	11	24%	45	100%
Telecommunications	9	29%	8	26%	14	45%	31	100%
Digital communication	18	31%	16	28%	24	41%	58	100%
Basic communication processes	3	60%	1	20%	1	20%	5	100%
Computer technology	18	43%	7	17%	17	40%	42	100%
IT methods for management	0	0%	1	100%	0	0%	1	100%
Semiconductors	5	24%	8	38%	8	38%	21	100%
Instruments	171	30%	149	26%	255	44%	575	100%
Optics	5	16%	9	29%	17	55%	31	100%
Measurement	37	38%	18	18%	43	44%	98	100%
Analysis of biological materials	7	25%	7	25%	14	50%	28	100%
Control	13	21%	23	38%	25	41%	61	100%
Medical technology	109	31%	92	26%	156	44%	357	100%
Chemistry	474	30%	480	31%	612	39%	1 566	100%
Organic fine chemistry	66	36%	54	29%	64	35%	184	100%
Biotechnology	39	24%	51	31%	74	45%	164	100%
Pharmaceuticals	56	22%	92	36%	108	42%	256	100%
Macromolecular chemistry, polymers	61	26%	72	31%	98	42%	231	100%
Food chemistry	29	27%	35	32%	44	41%	108	100%
Basic materials chemistry	72	36%	60	30%	70	35%	202	100%
Materials, metallurgy	50	34%	43	30%	52	36%	145	100%
Surface technology, coating	37	37%	32	32%	30	30%	99	100%
Micro-structural and nano-technology	0	-	0	-	0	-	0	-
Chemical engineering	50	40%	28	23%	46	37%	124	100%
Environmental technology	14	26%	13	25%	26	49%	53	100%
Mechanical engineering	430	34%	285	23%	536	43%	1 251	100%
Handling	67	37%	42	23%	74	40%	183	100%
Machine tools	52	36%	27	19%	64	45%	143	100%
Engines, pumps, turbines	55	31%	45	25%	77	44%	177	100%
Textile and paper machines	49	34%	35	24%	59	41%	143	100%
Other special machines	93	42%	43	19%	86	39%	222	100%
Thermal processes and apparatus	19	41%	17	37%	10	22%	46	100%
Mechanical elements	38	29%	34	26%	60	45%	132	100%
Transport	57	28%	42	20%	106	52%	205	100%
Other fields	133	39%	69	20%	137	40%	339	100%
Furniture, games	43	46%	17	18%	33	35%	93	100%
Other consumer goods	38	35%	23	21%	47	44%	108	100%
Civil engineering	52	38%	29	21%	57	41%	138	100%
Total	1 313	32%	1 094	27%	1 697	41%	4 104	100%

Status: May 2018

c) Appeal procedures

Refusals by the examining divisions and appeals in 2017

Technology	Decisions to refuse	Appealed decisions	
Electrical engineering	3 991	675	17%
Electrical machinery, apparatus, energy	183	32	17%
Audio-visual technology	672	102	15%
Telecommunications	269	37	14%
Digital communication	402	66	16%
Basic communication processes	50	6	12%
Computer technology	1600	271	17%
IT methods for management	670	141	21%
Semiconductors	145	20	14%
Instruments	865	188	22%
Optics	104	20	19%
Measurement	235	45	19%
Analysis of biological materials	27	2	7%
Control	251	64	25%
Medical technology	248	57	23%
Chemistry	965	186	19%
Organic fine chemistry	148	24	16%
Biotechnology	183	39	21%
Pharmaceuticals	190	41	22%
Macromolecular chemistry, polymers	33	7	21%
Food chemistry	52	7	13%
Basic materials chemistry	115	27	23%
Materials, metallurgy	65	11	17%
Surface technology, coating	21	3	14%
Micro-structural and nano-technology	3	0	0%
Chemical engineering	76	18	24%
Environmental technology	79	9	11%
Mechanical engineering	326	62	19%
Handling	50	16	32%
Machine tools	27	6	22%
Engines, pumps, turbines	48	10	21%
Textile and paper machines	13	1	8%
Other special machines	46	4	9%
Thermal processes and apparatus	31	2	6%
Mechanical elements	35	6	17%
Transport	76	17	22%
Other fields	133	30	23%
Furniture, games	63	13	21%
Other consumer goods	28	4	14%
Civil engineering	42	13	31%
Unclassified	1	0	0%
Total	6 281	1 141	18%

Decisions by the opposition divisions and appeals in 2017

Type of decision	Total cases	Appealed cases	
Opposition rejected	1 313	534	41%
Patent revoked	1 094	462	42%
Patent amended	1 697	1057	62%
Total	4 104	2 053	50%

d) Processing times

Early Certainty

The statistics on processing times describe the progress towards the early Certainty objectives for the European patent procedures.

The times indicated in the table below represent the median delays in months for the European search, the substantive examination and the opposition procedures. The delays are measured:

- European Search: from date of receipt at the EPO to end of search
- All searches: from date of receipt at the EPO to date of dispatch of the search report
- Examination: from valid request for examination (all formalities completed) to dispatch of the examiner's intention to grant
- Opposition: from expiry of the opposition filing period to the date of the opposition decision

The times are calculated for the applications for which the corresponding stage ended in the reporting year.

Procedure	2017
European Search	7.3
<i>All searches (incl. Nat. and PCT intern.)</i>	4.8
Examination	22.1
Opposition	22.3

C. PUBLICATIONS

Technology	Applications		Examination requests		Granted patents	
Electrical engineering	44 470	29%	44 082	30%	27 808	26%
Electrical machinery, apparatus, energy	9 522	6.3%	9 718	6.6%	7 774	7.4%
Audio-visual technology	3 804	2.5%	3 798	2.6%	2 478	2.3%
Telecommunications	3 462	2.3%	3 423	2.3%	3 274	3.1%
Digital communication	11 158	7.4%	11 013	7.5%	7 289	6.9%
Basic communication processes	1 007	0.7%	998	0.7%	550	0.5%
Computer technology	10 497	6.9%	10 348	7.0%	4 584	4.3%
IT methods for management	2 272	1.5%	2 127	1.4%	140	0.1%
Semiconductors	2 748	1.8%	2 657	1.8%	1 719	1.6%
Instruments	26 373	17.5%	25 521	17.3%	17 531	16.6%
Optics	3 374	2.2%	3 465	2.3%	2 256	2.1%
Measurement	7 299	4.8%	7 071	4.8%	4 776	4.5%
Analysis of biological materials	1 169	1%	1 060	1%	805	1%
Control	2 591	1.7%	2 553	1.7%	1 194	1.1%
Medical technology	11 940	7.9%	11 372	7.7%	8 500	8.0%
Chemistry	34 255	22.7%	32 660	22.1%	25 171	23.8%
Organic fine chemistry	5 191	3.4%	4 959	3.4%	4 458	4.2%
Biotechnology	4 850	3.2%	4 537	3.1%	3 505	3.3%
Pharmaceuticals	5 312	3.5%	5 037	3.4%	3 121	3.0%
Macromolecular chemistry, polymers	3 177	2.1%	2 992	2.0%	2 612	2.5%
Food chemistry	1 281	0.8%	1 218	0.8%	977	0.9%
Basic materials chemistry	3 787	3%	3 640	2%	2 714	3%
Materials, metallurgy	3 133	2.1%	2 993	2.0%	2 232	2.1%
Surface technology, coating	2 217	1.5%	2 128	1.4%	1 602	1.5%
Micro-structural and nano-technology	185	0.1%	174	0.1%	166	0.2%
Chemical engineering	3 409	2.3%	3 274	2.2%	2 254	2.1%
Environmental technology	1 713	1.1%	1 708	1.2%	1 530	1.4%
Mechanical engineering	35 167	23%	34 812	24%	26 586	25%
Handling	3 960	2.6%	3 717	2.5%	3 007	2.8%
Machine tools	3 491	2.3%	3 362	2.3%	2 758	2.6%
Engines, pumps, turbines	5 525	3.7%	5 814	3.9%	4 473	4.2%
Textile and paper machines	2 458	1.6%	2 350	1.6%	1 485	1.4%
Other special machines	5 137	3.4%	4 989	3.4%	3 853	3.6%
Thermal processes and apparatus	2 418	1.6%	2 470	1.7%	1 974	1.9%
Mechanical elements	4 054	2.7%	3 966	2.7%	2 812	2.7%
Transport	8 124	5%	8 144	6%	6 224	6%
Other fields	10 687	7.1%	10 608	7.2%	8 502	8.0%
Furniture, games	2 831	1.9%	2 706	1.8%	1 967	1.9%
Other consumer goods	3 508	2.3%	3 479	2.4%	2 445	2.3%
Civil engineering	4 348	2.9%	4 423	3.0%	4 090	3.9%
Unclassified	136	0.1%	131	0.1%	37	0.0%
Total	151 088	100.0%	147 814	100.0%	105 635	100.0%

D. VALIDATION AND MAINTENANCE OF EUROPEAN PATENTS

In the following pages, for each member state, the figures presented in the first table indicate the number of applications filed and designating the country, the number of those which have been granted by the EPO, the number of these grants which have been validated and entered into force in the country, and the number of European patents still in force at the end of 2017. The data cover the filing period 1998-2017 for which patents can still be in force.

As the patent term is 20 years, the figures cover the applications filed between January 1998 and December 2017.

Applications for a European patent are counted in the year of the international filing date. In the case of the PCT applications only those that entered the regional phase at the EPO are taken into account and they are counted in the year of the international filing date. The statistics reflect the current status of the designations in the EPO granting procedure.

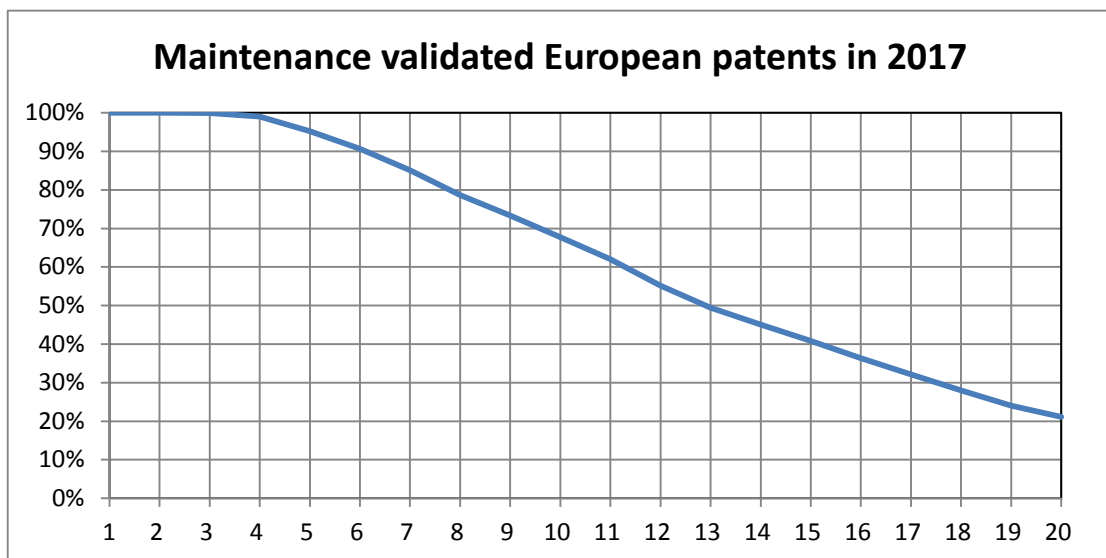
The second table indicate the proportion of granted European patents still in force at the end of each patent year. All data are extracted from the EPO database on the basis of data transmitted by the contracting states offices. A patent is considered as maintained until its abandonment is legally recorded and transmitted to the EPO.

The following table and chart give an overview of the fate of the resulting patent rights granted by the EPO.

Filing year	Applications filed	Granted patents	Validated patents	Patents still in force
Total counts of designated states				
Total filed: 1998 - 2017	72 792 115	22 941 841	9 652 426	5 672 100
Total filed: 1997 - 2016	67 020 748	19 474 538	8 577 487	4 941 190
<i>Growth: status end of 2017 over status end of 2016</i>	9%	18%	13%	15%

Due to the legal delay for paying the national renewal fees, the number of patents still in force at the end of 2017 is still provisional.

As shown in the chart below, EP patents validated are maintained on average (median) up to nearly 13 years. About 21% are maintained up until the expiration of the 20th patent-year.



a) Albania

Filing year	Applications filed	Granted patents	Validated patents	Patents still in force
1998				
1999				
2000				
2001				
2002				
2003				
2004				
2005				
2006				
2007				
2008				
2009				
2010	97 441	38 364	36 537	36 368
2011	146 488	52 869	52 215	52 044
2012	149 086	48 542	48 531	48 432
2013	152 204	36 956	36 956	36 920
2014	155 414	23 643	23 643	23 639
2015	152 835	8 895	8 895	8 894
2016	134 099	1 504	1 504	1 504
2017	60 098	3	3	3

Percentage of patents still in force at the end of the patent year

Filing year	Validated patent	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1998																			
1999																			
2000																			
2001																			
2002																			
2003																			
2004																			
2005																			
2006																			
2007																			
2008																			
2009																			
2010	36 537	100%	100%	100%	100%	100%	100%												
2011	52 215	100%	100%	100%	100%	100%													
2012	48 532	100%	100%	100%	100%														
2013	36 956	100%	100%	100%															
2014	23 643	100%	100%																
2015	8 895	100%																	
2016	1 504																		
2017	3																		

b) Austria

Filing year	Applications filed	Granted patents	Validated patents	Patents still in force
1998	42 841	20 943	12 247	2 089
1999	56 559	27 249	14 172	2 756
2000	74 471	35 844	16 589	3 329
2001	83 994	38 003	16 486	3 837
2002	86 637	38 606	15 839	4 279
2003	91 744	40 778	15 838	4 732
2004	99 143	43 239	16 217	5 304
2005	108 127	44 971	16 574	5 918
2006	114 999	47 347	17 106	6 648
2007	120 923	49 844	17 661	7 420
2008	131 031	55 017	18 691	8 268
2009	134 807	57 810	18 638	9 050
2010	142 930	57 563	18 829	9 790
2011	147 356	53 735	17 456	10 109
2012	149 809	49 261	15 667	14 587
2013	152 871	37 617	12 504	12 488
2014	155 821	24 037	9 022	9 019
2015	153 061	9 114	3 706	3 706
2016	134 155	1 557	739	739
2017	60 099	3	3	3

Percentage of patents still in force at the end of the patent year

Filing year	Validated patent	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1998	12 247	100%	99%	95%	88%	80%	73%	66%	61%	55%	47%	42%	38%	33%	29%	26%	22%	19%	17%
1999	14 172	100%	98%	91%	83%	76%	69%	63%	57%	50%	44%	40%	36%	32%	28%	25%	21%	19%	
2000	16 589	100%	96%	87%	79%	71%	64%	58%	50%	44%	40%	36%	32%	28%	25%	22%	20%		
2001	16 486	100%	95%	88%	79%	71%	65%	57%	51%	45%	41%	37%	33%	29%	25%	23%			
2002	15 839	99%	94%	86%	79%	71%	63%	57%	51%	46%	41%	37%	33%	29%	27%				
2003	15 838	99%	92%	84%	77%	69%	62%	56%	50%	45%	40%	36%	32%	30%					
2004	16 217	99%	91%	83%	75%	68%	61%	54%	49%	43%	39%	35%	33%						
2005	16 574	98%	89%	81%	73%	66%	59%	53%	48%	42%	38%	36%							
2006	17 106	98%	90%	90%	73%	66%	58%	52%	47%	41%	39%								
2007	17 661	98%	98%	98%	71%	63%	57%	51%	45%	42%									
2008	18 691	100%	100%	100%	68%	61%	54%	47%	44%										
2009	18 638	100%	100%	100%	67%	59%	51%	49%											
2010	18 829	100%	100%	100%	65%	55%	52%												
2011	17 456	100%	100%	100%	61%	58%													
2012	15 668	100%	100%	100%	93%														
2013	12 505	100%	100%	100%															
2014	9 022	100%	100%																
2015	3 706	100%																	
2016	740																		
2017	3																		

c) Belgium

Filing year	Applications filed	Granted patents	Validated patents	Patents still in force
1998	45 874	22 510	14 713	2 566
1999	57 926	27 975	17 052	3 262
2000	74 726	35 982	20 424	3 928
2001	84 199	38 159	20 361	4 563
2002	86 791	38 759	19 789	5 036
2003	92 114	41 038	20 407	5 756
2004	99 620	43 577	21 507	6 561
2005	108 702	45 456	22 379	7 476
2006	115 544	47 897	23 702	8 714
2007	121 576	50 459	24 955	9 877
2008	131 836	55 835	27 414	11 791
2009	136 008	59 024	29 265	13 916
2010	144 579	59 216	30 709	15 896
2011	149 079	55 459	31 001	17 838
2012	151 427	50 880	31 669	20 644
2013	153 736	38 486	27 848	20 917
2014	156 263	24 484	20 460	17 153
2015	153 071	9 125	8 376	7 625
2016	134 099	1 504	1 504	1 504
2017	60 099	3	3	3

Percentage of patents still in force at the end of the patent year

Filing year	Validated patent	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1998	14 713	100%	99%	95%	87%	78%	71%	65%	59%	53%	45%	40%	36%	32%	29%	25%	22%	19%	17%
1999	17 052	100%	97%	89%	80%	72%	65%	59%	54%	47%	42%	37%	34%	30%	26%	23%	20%	19%	
2000	20 424	100%	95%	85%	74%	67%	60%	53%	47%	41%	37%	33%	30%	26%	23%	20%	19%		
2001	20 361	99%	94%	85%	76%	67%	60%	52%	47%	42%	38%	34%	30%	27%	24%	22%			
2002	19 789	99%	92%	84%	74%	67%	58%	52%	47%	42%	38%	34%	31%	27%	25%				
2003	20 407	98%	90%	81%	72%	64%	58%	52%	47%	42%	38%	34%	30%	28%					
2004	21 507	98%	89%	79%	70%	62%	56%	50%	45%	41%	37%	32%	31%						
2005	22 379	98%	87%	77%	69%	62%	56%	50%	45%	41%	35%	33%							
2006	23 702	98%	88%	78%	69%	62%	55%	50%	45%	39%	37%								
2007	24 955	98%	87%	77%	68%	61%	56%	50%	42%	40%									
2008	27 414	98%	87%	76%	67%	62%	55%	46%	43%										
2009	29 265	97%	86%	75%	69%	61%	51%	48%											
2010	30 709	97%	87%	79%	69%	56%	52%												
2011	31 001	97%	90%	77%	62%	58%													
2012	31 670	98%	88%	71%	65%														
2013	27 849	96%	83%	75%															
2014	20 460	92%	84%																
2015	8 376	91%																	
2016	1 504																		
2017	3																		

d) Bulgaria

Filing year	Applications filed	Granted patents	Validated patents	Patents still in force
1998				
1999				
2000				
2001				
2002	43 882	19 937	2 480	1 201
2003	91 785	41 303	5 137	2 812
2004	99 891	44 298	4 470	3 416
2005	109 248	46 382	4 974	4 084
2006	116 738	49 392	5 983	5 188
2007	123 115	52 236	6 777	6 154
2008	132 997	57 085	8 518	8 026
2009	136 887	59 919	9 873	9 548
2010	145 724	60 362	11 971	11 686
2011	149 348	55 727	12 126	11 968
2012	152 404	51 858	13 958	13 873
2013	154 528	39 278	9 279	9 251
2014	157 021	25 242	4 364	4 359
2015	153 962	10 018	1 374	1 373
2016	134 734	2 137	644	644
2017	60 102	6	3	3

Percentage of patents still in force at the end of the patent year

Filing year	Validated patent	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1998																			
1999																			
2000																			
2001																			
2002	2 480	100%	100%	100%	77%	74%	73%	70%	67%	60%	58%	55%	52%	50%	48%				
2003	5 137	100%	100%	79%	77%	77%	74%	71%	67%	64%	61%	59%	56%	55%					
2004	4 470	100%	100%	99%	99%	97%	94%	88%	86%	83%	80%	77%	76%						
2005	4 974	100%	100%	100%	98%	96%	92%	90%	88%	85%	83%	82%							
2006	5 983	100%	100%	100%	98%	95%	94%	92%	90%	87%	87%								
2007	6 777	100%	100%	99%	98%	97%	95%	93%	92%	91%									
2008	8 518	100%	100%	99%	98%	97%	96%	95%	94%										
2009	9 873	100%	100%	99%	99%	98%	97%	97%											
2010	11 971	100%	100%	100%	99%	98%	98%												
2011	12 126	100%	100%	99%	99%	99%													
2012	13 958	100%	100%	100%	99%														
2013	9 279	100%	100%	100%															
2014	4 364	100%	100%																
2015	1 374	100%																	
2016	644																		
2017	3																		

e) Switzerland/Liechtenstein

Filing year	Applications filed	Granted patents	Validated patents	Patents still in force
1998	46 686	23 303	17 091	2 954
1999	59 238	28 975	20 532	3 878
2000	75 788	36 787	25 497	4 698
2001	85 148	38 926	28 219	5 519
2002	87 327	39 359	30 735	6 211
2003	92 842	41 512	34 691	7 289
2004	100 377	43 990	39 912	8 220
2005	109 289	45 613	44 240	9 420
2006	116 016	47 907	47 767	10 657
2007	121 529	50 103	50 102	12 247
2008	131 355	55 192	55 192	14 145
2009	134 850	57 829	57 829	16 023
2010	142 690	57 323	57 323	17 479
2011	147 043	53 422	53 422	18 787
2012	149 517	48 968	48 968	20 569
2013	152 490	37 239	37 239	19 740
2014	155 549	23 765	23 765	16 679
2015	152 849	8 900	8 900	8 898
2016	134 101	1 504	1 504	1 504
2017	60 099	3	3	3

Percentage of patents still in force at the end of the patent year

Filing year	Validated patent	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1998	17 091	100%	100%	95%	88%	81%	74%	69%	64%	58%	50%	45%	40%	35%	31%	27%	23%	20%	17%
1999	20 532	100%	100%	91%	84%	78%	72%	67%	61%	53%	46%	41%	36%	32%	28%	24%	21%	19%	
2000	25 497	100%	100%	89%	81%	75%	70%	63%	53%	46%	40%	35%	31%	27%	24%	21%	18%		
2001	28 219	100%	100%	90%	83%	78%	70%	59%	51%	44%	38%	33%	29%	25%	22%	20%			
2002	30 735	100%	100%	90%	85%	77%	65%	56%	48%	41%	35%	30%	26%	23%	20%				
2003	34 691	100%	100%	90%	82%	70%	61%	52%	44%	37%	32%	28%	24%	21%					
2004	39 912	100%	100%	87%	75%	65%	55%	47%	39%	33%	28%	24%	21%						
2005	44 240	100%	100%	80%	70%	60%	51%	42%	36%	30%	25%	21%							
2006	47 767	100%	100%	78%	67%	57%	47%	40%	33%	26%	22%								
2007	50 102	100%	100%	78%	66%	55%	46%	38%	29%	24%									
2008	55 192	100%	100%	76%	62%	51%	42%	32%	26%										
2009	57 829	100%	100%	72%	59%	47%	35%	28%											
2010	57 323	100%	100%	69%	55%	40%	30%												
2011	53 422	100%	84%	66%	48%	35%													
2012	48 968	100%	82%	58%	42%														
2013	37 239	100%	76%	53%															
2014	23 765	100%	70%																
2015	8 900	100%																	
2016	1 504																		
2017	3																		

f) Cyprus

Filing year	Applications filed	Granted patents	Validated patents	Patents still in force
1998	19 860	7 561	1 638	427
1999	47 090	21 017	2 721	832
2000	72 082	34 513	3 417	1 212
2001	81 559	36 932	3 493	1 678
2002	84 330	37 807	3 400	1 992
2003	90 776	40 357	3 862	2 742
2004	98 789	43 192	4 802	3 789
2005	108 107	45 243	5 518	4 643
2006	115 423	48 078	7 254	6 336
2007	122 099	51 224	8 960	8 188
2008	133 853	57 943	12 121	11 377
2009	138 301	61 333	14 801	14 500
2010	148 064	62 702	18 831	18 588
2011	150 421	56 801	21 966	21 840
2012	151 321	50 775	30 168	30 091
2013	152 671	37 422	31 671	31 621
2014	155 427	23 649	23 363	23 354
2015	152 839	8 895	8 895	8 894
2016	134 099	1 504	1 504	1 504
2017	60 099	3	3	3

Percentage of patents still in force at the end of the patent year

Filing year	Validated patent	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1998	1 638	99%	93%	92%	88%	84%	78%	71%	66%	60%	51%	46%	43%	39%	35%	32%	30%	28%	26%
1999	2 721	97%	97%	95%	91%	86%	79%	74%	68%	62%	52%	48%	44%	40%	37%	34%	32%	31%	
2000	3 417	100%	100%	97%	94%	88%	83%	76%	69%	61%	55%	52%	46%	43%	40%	37%	35%		
2001	3 493	100%	100%	98%	95%	91%	86%	80%	74%	69%	65%	60%	57%	54%	50%	48%			
2002	3 400	100%	100%	98%	96%	93%	88%	82%	78%	73%	69%	65%	63%	60%	59%				
2003	3 862	100%	100%	99%	97%	94%	89%	86%	83%	80%	78%	76%	73%	71%					
2004	4 802	100%	100%	99%	97%	93%	91%	88%	86%	84%	82%	80%	79%						
2005	5 518	100%	100%	99%	95%	94%	92%	90%	88%	87%	85%	84%							
2006	7 254	100%	100%	96%	95%	93%	92%	91%	90%	88%	87%								
2007	8 960	100%	97%	97%	96%	95%	94%	93%	92%	91%									
2008	12 121	97%	97%	97%	97%	96%	95%	95%	94%										
2009	14 802	100%	100%	99%	99%	99%	98%	98%											
2010	18 832	100%	100%	100%	100%	99%	99%												
2011	21 966	100%	100%	100%	100%	99%													
2012	30 169	100%	100%	100%	100%														
2013	31 672	100%	100%	100%															
2014	23 365	100%	100%																
2015	8 895	100%																	
2016	1 504																		
2017	3																		

g) Czech Republic

Filing year	Applications filed	Granted patents	Validated patents	Patents still in force
1998				
1999				
2000				
2001				
2002	43 129	19 596	3 256	1 598
2003	90 987	40 497	6 172	3 147
2004	98 802	43 096	6 509	3 639
2005	107 803	44 837	6 265	3 935
2006	114 786	47 348	6 630	4 572
2007	120 926	49 973	6 785	5 109
2008	131 297	55 341	7 339	6 011
2009	135 413	58 440	7 631	6 636
2010	143 948	58 585	8 249	7 543
2011	148 413	54 792	8 411	7 980
2012	150 917	50 371	8 667	8 450
2013	153 577	38 327	8 142	8 056
2014	156 219	24 441	6 929	6 904
2015	153 193	9 250	3 285	3 282
2016	134 115	1 517	967	966
2017	60 099	3	3	3

Percentage of patents still in force at the end of the patent year

Filing year	Validated patent	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1998																			
1999																			
2000																			
2001																			
2002	3 256	100%	100%	98%	96%	92%	85%	79%	74%	69%	64%	60%	56%	51%	49%				
2003	6 172	100%	99%	98%	95%	89%	84%	79%	74%	68%	63%	59%	54%	51%					
2004	6 509	100%	99%	97%	92%	88%	83%	78%	73%	68%	63%	59%	56%						
2005	6 265	100%	100%	97%	94%	90%	85%	81%	75%	70%	66%	63%							
2006	6 630	100%	99%	98%	95%	91%	87%	82%	78%	73%	69%								
2007	6 785	100%	99%	98%	96%	92%	88%	83%	79%	75%									
2008	7 339	100%	100%	99%	96%	93%	89%	85%	82%										
2009	7 632	100%	100%	98%	96%	94%	90%	87%											
2010	8 250	100%	100%	99%	97%	94%	91%												
2011	8 411	100%	100%	99%	97%	95%													
2012	8 668	100%	100%	99%	97%														
2013	8 143	100%	100%	99%															
2014	6 931	100%	100%																
2015	3 285	100%																	
2016	968																		
2017	3																		

h) Germany

Filing year	Applications filed	Granted patents	Validated patents	Patents still in force
1998	93 474	53 153	50 528	14 071
1999	102 151	55 809	53 170	18 012
2000	114 259	60 324	57 395	22 449
2001	121 695	61 374	59 007	26 445
2002	121 126	59 687	57 827	29 172
2003	126 536	60 670	59 193	33 340
2004	132 750	61 774	60 864	37 786
2005	140 945	62 880	62 384	42 050
2006	145 925	63 909	63 764	45 944
2007	145 521	63 312	63 221	48 549
2008	144 339	63 127	63 026	50 605
2009	137 144	58 935	58 844	49 640
2010	141 980	56 608	56 584	49 573
2011	146 502	52 894	52 894	48 245
2012	149 126	48 584	48 584	45 661
2013	152 223	36 978	36 978	35 530
2014	155 434	23 664	23 664	23 130
2015	152 829	8 891	8 891	8 777
2016	134 091	1 503	1 503	1 502
2017	60 097	3	3	3

Percentage of patents still in force at the end of the patent year

Filing year	Validated patent	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1998	50 528	100%	100%	100%	98%	96%	92%	88%	84%	79%	72%	65%	60%	56%	51%	45%	40%	34%	28%
1999	53 170	100%	100%	100%	98%	96%	92%	89%	84%	78%	71%	66%	61%	56%	51%	45%	40%	34%	
2000	57 395	100%	100%	99%	98%	95%	92%	88%	83%	76%	71%	66%	61%	56%	51%	45%	39%		
2001	59 007	100%	100%	99%	98%	96%	93%	88%	81%	77%	72%	67%	61%	56%	50%	45%			
2002	57 827	100%	100%	99%	98%	96%	92%	86%	82%	78%	73%	67%	62%	56%	50%				
2003	59 193	100%	100%	99%	98%	95%	90%	86%	82%	78%	72%	67%	62%	56%					
2004	60 864	100%	100%	99%	97%	93%	90%	86%	82%	77%	72%	67%	62%						
2005	62 384	100%	100%	99%	96%	94%	91%	87%	82%	78%	72%	67%							
2006	63 764	100%	100%	98%	96%	94%	91%	86%	82%	77%	72%								
2007	63 221	100%	99%	98%	97%	94%	90%	86%	82%	77%									
2008	63 026	100%	99%	98%	96%	93%	90%	85%	80%										
2009	58 844	100%	100%	98%	96%	93%	89%	84%											
2010	56 584	100%	99%	98%	95%	92%	88%												
2011	52 894	100%	99%	98%	95%	91%													
2012	48 584	100%	99%	97%	94%														
2013	36 978	100%	99%	96%															
2014	23 664	100%	98%																
2015	8 891	99%																	
2016	1 503																		
2017	3																		

i) Denmark

Filing year	Applications filed	Granted patents	Validated patents	Patents still in force
1998	38 112	17 478	6 960	1 683
1999	53 393	24 979	7 473	2 184
2000	72 432	35 017	8 189	2 663
2001	81 038	37 183	7 841	3 186
2002	84 120	38 012	7 410	3 468
2003	91 013	40 423	7 527	3 934
2004	98 641	42 899	7 452	4 439
2005	107 710	44 697	7 399	4 785
2006	114 527	47 018	7 714	5 441
2007	120 584	49 606	7 791	5 984
2008	130 819	54 856	8 202	6 732
2009	134 744	57 765	8 745	7 678
2010	143 042	57 675	9 352	8 594
2011	147 485	53 865	9 474	9 055
2012	149 876	49 330	9 717	9 516
2013	152 860	37 610	9 287	9 210
2014	155 782	24 002	7 903	7 894
2015	152 989	9 043	3 769	3 769
2016	134 112	1 514	1 138	1 138
2017	60 099	3	3	3

Percentage of patents still in force at the end of the patent year

Filing year	Validated patent	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1998	6 960	100%	100%	99%	96%	91%	84%	78%	73%	67%	58%	52%	48%	42%	37%	34%	30%	26%	24%
1999	7 473	100%	100%	98%	94%	90%	84%	79%	74%	66%	59%	53%	48%	44%	40%	35%	31%	29%	
2000	8 189	100%	100%	97%	94%	89%	84%	79%	70%	63%	58%	53%	47%	43%	38%	34%	33%		
2001	7 842	100%	100%	98%	95%	91%	86%	79%	73%	68%	62%	57%	52%	47%	43%	41%			
2002	7 410	100%	100%	98%	96%	92%	86%	80%	74%	69%	63%	58%	53%	49%	47%				
2003	7 527	100%	100%	98%	96%	91%	86%	81%	76%	70%	65%	60%	54%	52%					
2004	7 452	100%	100%	98%	94%	90%	86%	81%	76%	71%	66%	62%	60%						
2005	7 399	100%	100%	98%	95%	92%	87%	83%	77%	72%	67%	65%							
2006	7 714	100%	99%	98%	96%	92%	88%	84%	78%	73%	71%								
2007	7 791	100%	100%	98%	96%	92%	88%	84%	79%	77%									
2008	8 202	100%	100%	99%	96%	93%	89%	84%	82%										
2009	8 746	100%	100%	98%	96%	93%	89%	88%											
2010	9 353	100%	100%	99%	97%	94%	92%												
2011	9 474	100%	100%	99%	97%	96%													
2012	9 718	100%	100%	99%	98%														
2013	9 288	100%	100%	99%															
2014	7 905	100%	100%																
2015	3 769	100%																	
2016	1 139																		
2017	3																		

j) Estonia

Filing year	Applications filed	Granted patents	Validated patents	Patents still in force
1998				
1999				
2000				
2001				
2002	42 899	19 476	1 730	1 068
2003	90 750	40 427	3 230	2 066
2004	98 791	43 219	3 435	2 446
2005	107 971	45 132	3 453	2 684
2006	115 136	47 800	3 963	3 276
2007	121 450	50 574	4 281	3 762
2008	132 580	56 670	5 333	4 902
2009	136 868	59 900	5 904	5 652
2010	145 427	60 065	6 756	6 529
2011	150 467	56 846	7 633	7 538
2012	152 599	52 053	7 866	7 818
2013	154 621	39 371	7 357	7 325
2014	156 975	25 197	6 501	6 493
2015	153 427	9 484	3 144	3 143
2016	134 114	1 517	933	933
2017	60 099	3	3	3

Percentage of patents still in force at the end of the patent year

Filing year	Validated patent	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1998																			
1999																			
2000																			
2001																			
2002	1 730	100%	100%	99%	97%	94%	88%	85%	80%	75%	72%	68%	66%	62%	62%				
2003	3 230	100%	100%	99%	97%	93%	88%	84%	80%	77%	73%	70%	66%	64%					
2004	3 435	100%	100%	98%	95%	93%	89%	85%	82%	79%	75%	73%	71%						
2005	3 453	100%	100%	98%	96%	94%	91%	88%	85%	82%	80%	78%							
2006	3 963	100%	100%	99%	97%	95%	92%	90%	87%	84%	83%								
2007	4 281	100%	99%	99%	98%	96%	94%	92%	90%	88%									
2008	5 333	100%	100%	99%	98%	97%	95%	93%	92%										
2009	5 905	100%	100%	99%	99%	98%	97%	96%											
2010	6 757	100%	100%	100%	99%	97%	97%												
2011	7 633	100%	100%	100%	99%	99%													
2012	7 867	100%	100%	100%	99%														
2013	7 358	100%	100%	100%															
2014	6 503	100%	100%																
2015	3 144	100%																	
2016	934																		
2017	3																		

k) Spain

Filing year	Applications filed	Granted patents	Validated patents	Patents still in force
1998	54 294	28 648	18 325	4 432
1999	65 649	33 365	19 527	5 768
2000	79 709	39 932	20 833	6 822
2001	87 393	41 464	20 758	7 959
2002	89 668	41 648	20 076	8 859
2003	95 864	43 466	19 973	9 869
2004	103 091	45 652	19 795	10 966
2005	111 485	46 984	19 160	11 889
2006	117 878	49 013	18 811	12 883
2007	123 200	51 081	18 679	13 877
2008	132 092	55 550	18 611	14 962
2009	134 697	57 599	17 493	14 992
2010	142 522	57 152	16 121	14 598
2011	147 022	53 402	14 767	13 906
2012	149 517	48 970	13 317	13 008
2013	152 561	37 311	10 579	10 516
2014	155 637	23 857	7 037	7 004
2015	152 955	9 008	2 545	2 543
2016	134 148	1 550	558	558
2017	60 100	4	3	3

Percentage of patents still in force at the end of the patent year

Filing year	Validated patent	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1998	18 326	100%	99%	98%	96%	91%	85%	79%	73%	67%	58%	51%	46%	42%	37%	32%	28%	24%	24%
1999	19 527	100%	100%	99%	95%	91%	85%	79%	73%	64%	58%	53%	47%	42%	38%	33%	30%	30%	
2000	20 833	100%	100%	98%	95%	91%	85%	79%	70%	63%	57%	52%	46%	41%	37%	33%	33%		
2001	20 758	100%	100%	99%	95%	92%	86%	78%	71%	65%	59%	54%	49%	43%	39%	38%			
2002	20 077	100%	100%	98%	95%	91%	83%	77%	72%	66%	60%	55%	50%	45%	44%				
2003	19 974	100%	99%	97%	95%	89%	83%	78%	73%	66%	61%	55%	50%	49%					
2004	19 798	100%	99%	98%	93%	89%	84%	79%	73%	67%	61%	56%	55%						
2005	19 161	100%	99%	97%	94%	90%	85%	80%	74%	68%	63%	62%							
2006	18 811	100%	99%	98%	95%	91%	86%	81%	75%	69%	68%								
2007	18 707	100%	99%	98%	95%	91%	86%	81%	75%	74%									
2008	18 612	100%	100%	98%	95%	91%	87%	81%	80%										
2009	17 502	100%	99%	98%	95%	91%	86%	86%											
2010	16 121	100%	100%	98%	95%	91%	91%												
2011	14 767	100%	100%	98%	95%	94%													
2012	13 317	100%	100%	98%	98%														
2013	10 580	100%	100%	99%															
2014	7 038	100%	100%																
2015	2 545	100%																	
2016	559																		
2017	4																		

I) Finland

Filing year	Applications atled	Granted patents	Validated patents	Patents still in force
1998	36 720	16 703	6 166	1 470
1999	53 341	25 070	6 907	1 927
2000	73 248	35 584	7 605	2 391
2001	81 781	37 699	7 241	2 790
2002	84 709	38 403	6 725	2 938
2003	91 772	40 872	6 560	3 229
2004	99 356	43 369	6 320	3 549
2005	108 338	45 125	6 148	3 846
2006	115 227	47 453	6 148	4 126
2007	121 191	50 021	5 905	4 273
2008	131 285	55 277	6 062	4 728
2009	135 373	58 391	6 022	5 106
2010	143 797	58 432	5 936	5 246
2011	148 419	54 799	5 631	5 239
2012	151 089	50 542	5 177	4 967
2013	153 858	38 608	4 148	4 067
2014	156 684	24 907	2 767	2 757
2015	153 698	9 753	1 276	1 275
2016	134 422	1 825	382	382
2017	60 101	5	3	3

Percentage of patents still in force at the end of the patent year

Filing year	Validated patent	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1998	6 166	100%	100%	99%	96%	90%	84%	78%	73%	67%	58%	53%	48%	43%	39%	35%	31%	27%	24%
1999	6 907	100%	100%	98%	94%	89%	83%	79%	73%	64%	59%	53%	48%	44%	40%	35%	31%	28%	
2000	7 605	100%	100%	97%	94%	90%	85%	78%	70%	64%	57%	52%	47%	43%	38%	34%	31%		
2001	7 241	100%	100%	98%	96%	92%	87%	78%	73%	67%	61%	55%	50%	46%	42%	39%			
2002	6 725	100%	100%	98%	96%	92%	85%	79%	73%	67%	62%	56%	51%	47%	44%				
2003	6 560	100%	100%	98%	96%	91%	85%	80%	74%	69%	63%	58%	53%	49%					
2004	6 320	100%	100%	98%	94%	90%	85%	80%	74%	69%	64%	59%	56%						
2005	6 148	100%	99%	97%	94%	91%	86%	81%	75%	70%	66%	63%							
2006	6 148	100%	99%	98%	95%	92%	87%	82%	76%	71%	67%								
2007	5 905	100%	100%	98%	96%	91%	87%	81%	76%	72%									
2008	6 062	100%	100%	98%	95%	92%	87%	82%	78%										
2009	6 023	100%	100%	98%	95%	92%	88%	85%											
2010	5 937	100%	100%	98%	96%	92%	88%												
2011	5 631	100%	100%	99%	96%	93%													
2012	5 178	100%	100%	98%	96%														
2013	4 149	100%	100%	98%															
2014	2 769	100%	100%																
2015	1 276	100%																	
2016	383																		
2017	5																		

m) France

Filing year	Applications filed	Granted patents	Validated patents	Patents still in force
1998	88 214	49 834	44 748	10 391
1999	97 061	52 586	47 394	13 435
2000	109 527	57 410	51 248	16 422
2001	116 836	58 449	52 756	19 590
2002	116 648	57 087	52 496	21 793
2003	122 027	58 093	54 456	25 256
2004	128 421	59 335	56 844	28 832
2005	136 239	60 278	59 079	32 203
2006	140 864	61 089	60 887	35 671
2007	141 470	60 912	60 910	38 222
2008	141 290	61 123	61 123	40 314
2009	136 481	58 541	58 541	40 441
2010	142 040	56 670	56 670	41 186
2011	146 546	52 933	52 933	40 334
2012	149 193	48 646	48 646	39 329
2013	152 256	37 006	37 006	31 905
2014	155 469	23 684	23 684	21 592
2015	152 864	8 908	8 908	8 411
2016	134 101	1 506	1 506	1 505
2017	60 095	3	3	3

Percentage of patents still in force at the end of the patent year

Filing year	Validated patent	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1998	44 748	100%	100%	99%	97%	94%	90%	82%	77%	71%	62%	57%	52%	47%	42%	37%	32%	27%	23%
1999	47 394	100%	100%	99%	97%	93%	87%	82%	77%	69%	63%	58%	53%	47%	42%	36%	32%	28%	
2000	51 248	100%	100%	99%	96%	92%	87%	82%	74%	68%	63%	57%	51%	46%	40%	36%	32%		
2001	52 756	100%	100%	98%	96%	93%	88%	81%	74%	69%	63%	57%	51%	45%	41%	37%			
2002	52 496	100%	99%	98%	96%	92%	85%	79%	74%	68%	62%	56%	50%	45%	42%				
2003	54 456	100%	99%	98%	96%	89%	84%	79%	74%	66%	61%	55%	50%	46%					
2004	56 844	100%	99%	98%	93%	88%	83%	78%	71%	65%	59%	54%	51%						
2005	59 079	100%	99%	95%	91%	87%	82%	75%	70%	64%	58%	55%							
2006	60 887	100%	97%	94%	90%	86%	79%	74%	68%	63%	59%								
2007	60 910	100%	98%	94%	90%	84%	79%	73%	67%	63%									
2008	61 123	100%	97%	94%	88%	82%	76%	71%	66%										
2009	58 541	99%	97%	92%	86%	80%	74%	69%											
2010	56 670	99%	96%	91%	84%	78%	73%												
2011	52 933	99%	95%	89%	82%	76%													
2012	48 646	99%	95%	87%	81%														
2013	37 006	99%	93%	86%															
2014	23 684	97%	91%																
2015	8 908	94%																	
2016	1 506																		
2017	3																		

n) United Kingdom

Filing year	Applications filed	Granted patents	Validated patents	Patents still in force
1998	89 269	50 536	47 995	10 822
1999	97 713	52 839	50 040	13 532
2000	109 603	57 342	54 066	16 468
2001	116 757	58 090	55 084	19 512
2002	116 162	56 542	53 886	21 442
2003	121 183	57 264	55 120	24 382
2004	127 316	58 336	56 671	27 714
2005	135 215	59 354	58 575	30 778
2006	139 815	60 099	59 997	33 897
2007	140 385	59 949	59 948	35 827
2008	140 902	60 623	60 623	37 864
2009	136 266	58 323	58 323	37 853
2010	141 868	56 525	56 525	38 398
2011	146 381	52 807	52 807	37 710
2012	148 979	48 493	48 493	36 912
2013	152 113	36 907	36 907	31 932
2014	155 347	23 612	23 612	23 606
2015	152 800	8 890	8 890	8 882
2016	134 092	1 504	1 504	1 503
2017	60 099	3	3	3

Percentage of patents still in force at the end of the patent year

Filing year	Validated patent	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1998	47 995	100%	100%	99%	95%	91%	85%	80%	75%	68%	60%	54%	50%	45%	40%	36%	31%	25%	23%
1999	50 040	100%	100%	98%	94%	90%	85%	80%	74%	66%	59%	55%	50%	45%	40%	35%	30%	27%	
2000	54 066	100%	100%	97%	94%	89%	84%	78%	71%	64%	59%	54%	49%	44%	38%	33%	30%		
2001	55 084	100%	100%	98%	94%	90%	85%	77%	71%	65%	60%	54%	49%	43%	38%	35%			
2002	53 886	100%	100%	97%	94%	89%	82%	76%	71%	65%	60%	54%	48%	43%	40%				
2003	55 120	100%	100%	97%	93%	87%	81%	76%	70%	64%	59%	53%	47%	44%					
2004	56 671	100%	100%	96%	90%	85%	80%	75%	69%	63%	58%	52%	49%						
2005	58 575	100%	100%	94%	89%	84%	79%	73%	67%	61%	56%	53%							
2006	59 997	100%	100%	93%	88%	83%	77%	72%	66%	60%	56%								
2007	59 948	100%	100%	92%	87%	81%	75%	70%	64%	60%									
2008	60 623	100%	100%	91%	85%	79%	73%	66%	62%										
2009	58 323	100%	100%	89%	83%	76%	69%	65%											
2010	56 525	100%	100%	87%	80%	73%	68%												
2011	52 807	100%	100%	86%	77%	71%													
2012	48 493	100%	100%	83%	76%														
2013	36 907	100%	100%	87%															
2014	23 612	100%	100%																
2015	8 890	100%																	
2016	1 504																		
2017	3																		

o) Greece

Filing year	Applications filed	Granted patents	Validated patents	Patents still in force
1998	32 415	13 921	4 192	996
1999	50 228	23 026	4 868	1 393
2000	71 744	34 658	5 452	1 721
2001	80 519	37 025	5 265	2 031
2002	83 826	37 957	5 021	2 274
2003	90 960	40 545	4 836	2 558
2004	98 989	43 377	5 025	2 984
2005	108 054	45 186	4 814	3 124
2006	115 101	47 739	4 962	3 513
2007	121 273	50 377	4 753	3 615
2008	132 107	56 185	5 065	4 036
2009	136 456	59 485	5 276	4 569
2010	145 241	59 878	5 614	4 927
2011	149 838	56 218	5 407	5 116
2012	152 269	51 724	4 887	4 797
2013	154 589	39 340	3 710	3 677
2014	157 262	25 484	2 653	2 647
2015	153 988	10 044	1 414	1 413
2016	134 567	1 972	512	512
2017	60 101	5	3	3

Percentage of patents still in force at the end of the patent year

Filing year	Validated patent	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1998	4 192	99%	99%	98%	95%	90%	83%	77%	71%	66%	59%	51%	47%	42%	37%	34%	30%	27%	24%
1999	4 868	100%	99%	97%	95%	89%	84%	78%	74%	67%	59%	53%	48%	44%	39%	35%	32%	29%	
2000	5 452	100%	99%	97%	93%	88%	83%	78%	70%	63%	57%	52%	47%	42%	38%	34%	32%		
2001	5 266	100%	99%	97%	93%	90%	87%	80%	73%	67%	61%	55%	51%	46%	42%	39%			
2002	5 021	100%	98%	96%	94%	92%	87%	81%	75%	70%	63%	58%	53%	49%	45%				
2003	4 836	100%	99%	97%	96%	92%	87%	82%	78%	71%	65%	61%	56%	53%					
2004	5 025	100%	99%	98%	95%	92%	87%	83%	76%	71%	67%	63%	59%						
2005	4 814	100%	99%	98%	95%	92%	88%	81%	76%	72%	68%	65%							
2006	4 962	100%	100%	99%	97%	93%	87%	83%	78%	74%	71%								
2007	4 753	100%	100%	99%	97%	91%	87%	83%	79%	76%									
2008	5 065	100%	100%	99%	93%	90%	87%	84%	80%										
2009	5 276	100%	99%	95%	93%	92%	89%	87%											
2010	5 614	99%	94%	93%	92%	90%	88%												
2011	5 407	98%	98%	97%	96%	95%													
2012	4 887	100%	100%	99%	98%														
2013	3 710	100%	100%	99%															
2014	2 653	100%	100%																
2015	1 414	100%																	
2016	512																		
2017	3																		

p) Croatia

Filing year	Applications filed	Granted patents	Validated patents	Patents still in force
1998				
1999				
2000				
2001				
2002				
2003				
2004				
2005				
2006				
2007				
2008	132 420	56 532	3 897	3 411
2009	136 420	59 453	4 174	3 848
2010	144 445	59 081	4 207	3 951
2011	148 781	55 160	3 855	3 753
2012	150 824	50 279	3 204	3 134
2013	153 460	38 210	2 670	2 640
2014	156 328	24 550	1 962	1 956
2015	153 500	9 556	996	995
2016	134 376	1 779	344	344
2017	60 101	6	3	3

Percentage of patents still in force at the end of the patent year

Filing year	Validated patent	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1998																			
1999																			
2000																			
2001																			
2002																			
2003																			
2004																			
2005																			
2006																			
2007																			
2008	3 897	100%	100%	99%	97%	95%	93%	90%	88%										
2009	4 175	100%	100%	99%	98%	96%	94%	92%											
2010	4 208	100%	100%	99%	98%	96%	94%												
2011	3 855	100%	100%	99%	98%	97%													
2012	3 205	100%	100%	99%	98%														
2013	2 671	100%	100%	99%															
2014	1 964	100%	100%																
2015	996	100%																	
2016	345																		
2017	6																		

q) Hungary

Filing year	Applications filed	Granted patents	Validated patents	Patents still in force
1998				
1999				
2000				
2001				
2002				
2003	91 681	41 450	7 215	4 814
2004	99 975	44 347	8 296	6 050
2005	109 263	46 373	9 072	7 137
2006	116 647	49 217	10 572	8 858
2007	123 027	52 015	12 149	10 704
2008	133 952	57 986	15 291	14 071
2009	138 185	61 205	17 930	17 127
2010	146 243	60 880	20 643	19 958
2011	149 765	56 144	22 847	22 471
2012	151 299	50 753	26 195	25 987
2013	152 985	37 735	26 766	26 676
2014	155 676	23 897	20 636	20 628
2015	152 839	8 895	8 873	8 871
2016	134 102	1 504	1 504	1 504
2017	60 099	3	3	3

Percentage of patents still in force at the end of the patent year

Filing year	Validated patent	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1998																			
1999																			
2000																			
2001																			
2002																			
2003	7 215	100%	100%	99%	97%	93%	89%	86%	83%	79%	75%	72%	69%	67%					
2004	8 296	100%	100%	98%	95%	93%	90%	86%	83%	80%	77%	75%	73%						
2005	9 072	100%	100%	98%	96%	94%	91%	88%	85%	82%	80%	79%							
2006	10 572	100%	100%	99%	97%	95%	93%	90%	88%	85%	84%								
2007	12 149	100%	100%	99%	98%	96%	94%	92%	89%	88%									
2008	15 291	100%	100%	99%	98%	97%	95%	93%	92%										
2009	17 930	100%	100%	99%	99%	98%	96%	96%											
2010	20 643	100%	100%	99%	99%	98%	97%												
2011	22 847	100%	100%	100%	99%	98%													
2012	26 195	100%	100%	100%	99%														
2013	26 766	100%	100%	100%															
2014	20 636	100%	100%																
2015	8 873	100%																	
2016	1 504																		
2017	3																		

r) Ireland

Filing year	Applications filed	Granted patents	Validated patents	Patents still in force
1998	34 798	15 326	13 434	1 655
1999	51 942	23 964	18 749	2 139
2000	72 398	35 056	25 610	2 728
2001	81 130	37 296	27 497	3 318
2002	84 045	37 977	28 206	3 680
2003	91 035	40 411	30 594	4 345
2004	98 752	42 926	32 841	5 075
2005	107 685	44 619	34 651	5 632
2006	114 648	47 040	37 701	6 605
2007	120 737	49 634	41 371	7 737
2008	130 888	54 856	48 327	9 431
2009	134 664	57 671	54 401	11 135
2010	142 787	57 425	56 860	12 946
2011	147 270	53 650	53 648	14 767
2012	149 691	49 146	49 146	17 627
2013	152 561	37 312	37 312	18 079
2014	155 609	23 831	23 831	15 093
2015	152 916	8 973	8 973	6 666
2016	134 099	1 504	1 504	1 504
2017	60 099	3	3	3

Percentage of patents still in force at the end of the patent year

Filing year	Validated patent	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1998	13 434	100%	100%	95%	83%	71%	61%	52%	45%	39%	34%	30%	26%	23%	20%	18%	16%	14%	12%
1999	18 749	100%	98%	88%	75%	64%	54%	46%	40%	34%	29%	25%	22%	19%	17%	14%	13%	11%	
2000	25 610	100%	95%	84%	71%	59%	49%	42%	35%	30%	25%	21%	18%	16%	14%	12%	11%		
2001	27 497	100%	96%	85%	72%	60%	50%	42%	35%	30%	25%	21%	18%	16%	13%	12%			
2002	28 206	99%	94%	83%	71%	60%	51%	43%	36%	30%	24%	21%	18%	15%	13%				
2003	30 594	99%	93%	81%	70%	60%	51%	43%	36%	29%	24%	20%	16%	14%					
2004	32 841	99%	92%	81%	71%	61%	52%	43%	34%	28%	23%	18%	15%						
2005	34 651	99%	92%	82%	72%	61%	51%	40%	32%	26%	20%	16%							
2006	37 701	99%	92%	82%	72%	60%	47%	37%	29%	22%	18%								
2007	41 371	99%	92%	82%	69%	55%	43%	33%	24%	19%									
2008	48 327	99%	92%	79%	62%	49%	37%	26%	20%										
2009	54 402	98%	88%	70%	54%	41%	27%	20%											
2010	56 861	96%	82%	64%	48%	31%	23%												
2011	53 648	95%	81%	60%	39%	28%													
2012	49 146	95%	79%	51%	36%														
2013	37 312	93%	71%	48%															
2014	23 831	87%	63%																
2015	8 973	74%																	
2016	1 504																		
2017	3																		

s) Iceland

Filing year	Applications filed	Granted patents	Validated patents	Patents still in force
1998				
1999				
2000				
2001				
2002				
2003				
2004	18 946	8 451	908	860
2005	107 567	44 743	2 964	2 733
2006	114 597	47 263	3 431	3 362
2007	120 802	49 923	4 111	4 061
2008	131 369	55 464	5 141	5 096
2009	135 532	58 566	6 470	6 441
2010	143 846	58 484	7 322	7 294
2011	147 884	54 263	7 863	7 849
2012	150 167	49 621	8 768	8 760
2013	152 986	37 736	8 339	8 331
2014	155 767	23 989	5 517	5 516
2015	152 916	8 973	2 076	2 076
2016	134 127	1 530	617	617
2017	60 099	3	3	3

Percentage of patents still in force at the end of the patent year

Filing year	Validated patent	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1998																			
1999																			
2000																			
2001																			
2002																			
2003																			
2004	908	100%	97%	96%	95%	95%	95%	95%	95%	95%	95%	95%	95%						
2005	2 964	97%	96%	95%	94%	94%	94%	93%	93%	93%	93%	92%							
2006	3 431	100%	99%	99%	99%	99%	99%	99%	99%	99%	98%	98%							
2007	4 111	100%	100%	100%	100%	99%	99%	99%	99%	99%									
2008	5 141	100%	100%	100%	100%	100%	99%	99%	99%										
2009	6 470	100%	100%	100%	100%	100%	100%	100%	100%										
2010	7 322	100%	100%	100%	100%	100%	100%	100%	100%										
2011	7 863	100%	100%	100%	100%	100%													
2012	8 768	100%	100%	100%	100%														
2013	8 339	100%	100%	100%															
2014	5 517	100%	100%																
2015	2 076	100%																	
2016	617																		
2017	3																		

t) Italy

Filing year	Applications filed	Granted patents	Validated patents	Patents still in force
1998	71 468	39 579	29 111	6 249
1999	80 573	43 057	30 486	8 077
2000	92 212	47 791	32 079	9 645
2001	99 275	48 766	32 005	11 291
2002	100 531	48 387	31 153	12 438
2003	105 609	49 302	30 805	14 128
2004	112 173	51 064	30 630	15 640
2005	120 088	52 134	29 372	16 978
2006	125 567	53 632	28 399	18 742
2007	129 040	54 824	28 038	20 193
2008	134 821	57 475	27 473	21 337
2009	135 287	58 040	25 727	21 428
2010	142 367	56 995	24 512	21 731
2011	146 854	53 232	22 843	21 133
2012	149 395	48 849	21 463	20 651
2013	152 444	37 194	17 643	17 427
2014	155 555	23 772	12 701	12 701
2015	152 899	8 950	5 010	5 010
2016	134 113	1 514	1 154	1 154
2017	60 098	3	3	3

Percentage of patents still in force at the end of the patent year

Filing year	Validated patent	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1998	29 111	100%	100%	100%	100%	100%	87%	86%	76%	68%	59%	53%	48%	43%	38%	33%	29%	24%	21%
1999	30 486	100%	100%	100%	100%	92%	91%	81%	74%	65%	59%	53%	49%	43%	38%	33%	29%	26%	
2000	32 079	100%	100%	100%	96%	96%	87%	79%	70%	64%	58%	53%	47%	42%	37%	32%	30%		
2001	32 005	100%	100%	99%	99%	93%	85%	77%	71%	65%	59%	54%	49%	43%	38%	35%			
2002	31 153	100%	100%	100%	95%	88%	81%	76%	71%	65%	59%	53%	48%	43%	40%				
2003	30 805	100%	100%	97%	91%	86%	81%	76%	71%	65%	59%	54%	48%	46%					
2004	30 630	100%	99%	94%	90%	86%	81%	76%	70%	65%	59%	54%	51%						
2005	29 372	100%	97%	94%	91%	88%	84%	78%	73%	67%	61%	58%							
2006	28 399	100%	100%	98%	95%	91%	86%	81%	75%	69%	66%								
2007	28 038	100%	100%	98%	95%	91%	86%	81%	75%	72%									
2008	27 473	100%	100%	98%	95%	91%	86%	80%	78%										
2009	25 728	100%	100%	98%	95%	91%	86%	83%											
2010	24 512	100%	100%	98%	95%	91%	89%												
2011	22 843	100%	100%	98%	94%	93%													
2012	21 463	100%	100%	98%	96%														
2013	17 643	100%	100%	99%															
2014	12 701	100%	100%																
2015	5 010	100%																	
2016	1 154																		
2017	3																		

u) Lithuania

Filing year	Applications filed	Granted patents	Validated patents	Patents still in force
1998				
1999				
2000				
2001				
2002				
2003				
2004	10 336	4 740	670	582
2005	108 199	45 371	3 440	2 637
2006	115 453	48 118	3 857	3 135
2007	122 042	51 160	4 135	3 597
2008	133 393	57 484	5 110	4 657
2009	138 205	61 238	5 812	5 549
2010	147 210	61 848	6 511	6 290
2011	152 217	58 596	6 758	6 659
2012	154 402	53 856	6 152	6 114
2013	155 601	40 351	4 119	4 093
2014	157 376	25 598	2 627	2 621
2015	153 740	9 797	1 229	1 228
2016	134 289	1 695	281	281
2017	60 102	6	3	3

Percentage of patents still in force at the end of the patent year

Filing year	Validated patent	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1998																			
1999																			
2000																			
2001																			
2002																			
2003																			
2004	670	100%	100%	99%	98%	97%	95%	93%	91%	89%	88%	87%	87%						
2005	3 440	100%	100%	98%	96%	94%	90%	87%	84%	81%	78%	77%							
2006	3 857	100%	99%	99%	97%	95%	93%	90%	86%	83%	81%								
2007	4 135	100%	100%	99%	97%	96%	93%	92%	89%	87%									
2008	5 110	100%	100%	99%	98%	96%	95%	93%	91%										
2009	5 813	100%	100%	99%	99%	98%	96%	95%											
2010	6 512	100%	100%	99%	99%	98%	97%												
2011	6 758	100%	100%	100%	99%	99%													
2012	6 153	100%	100%	100%	99%														
2013	4 120	100%	100%	99%															
2014	2 629	100%	100%																
2015	1 229	100%																	
2016	282																		
2017	6																		

v) Luxembourg

Filing year	Applications filed	Granted patents	Validated patents	Patents still in force
1998	30 953	13 031	12 904	1 023
1999	49 500	22 600	22 355	1 445
2000	71 985	34 940	34 443	2 000
2001	81 009	37 496	36 628	2 581
2002	84 256	38 399	36 989	3 001
2003	91 500	41 102	38 677	3 740
2004	99 555	43 940	40 321	4 567
2005	108 816	45 946	40 704	5 390
2006	115 852	48 501	41 374	6 463
2007	121 997	51 106	41 347	7 613
2008	133 229	57 317	43 907	10 321
2009	137 719	60 748	43 154	12 792
2010	144 875	59 512	37 598	13 755
2011	148 208	54 588	34 117	14 938
2012	149 785	49 240	36 230	17 466
2013	152 570	37 321	32 942	18 473
2014	155 579	23 801	22 963	15 468
2015	152 897	8 953	8 953	6 917
2016	134 101	1 504	1 504	1 504
2017	60 099	3	3	3

Percentage of patents still in force at the end of the patent year

Filing year	Validated patent	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1998	12 904	100%	99%	91%	75%	60%	49%	39%	33%	28%	22%	19%	16%	14%	12%	11%	10%	9%	8%
1999	22 355	100%	95%	80%	62%	49%	37%	30%	25%	20%	16%	13%	11%	9%	9%	8%	7%	6%	
2000	34 443	100%	92%	75%	58%	43%	33%	26%	20%	16%	12%	10%	8%	8%	7%	6%	6%		
2001	36 628	99%	92%	77%	59%	45%	35%	27%	21%	16%	13%	10%	9%	9%	8%	7%			
2002	36 989	99%	89%	74%	58%	46%	35%	28%	21%	16%	12%	11%	10%	9%	8%				
2003	38 677	98%	86%	70%	56%	44%	35%	27%	20%	15%	14%	13%	11%	10%					
2004	40 321	98%	85%	69%	55%	44%	34%	25%	18%	17%	16%	13%	11%						
2005	40 704	97%	83%	68%	54%	41%	30%	22%	21%	19%	16%	13%							
2006	41 374	97%	83%	67%	52%	38%	27%	25%	24%	19%	16%								
2007	41 347	97%	82%	64%	47%	33%	32%	30%	23%	18%									
2008	43 907	97%	81%	61%	43%	41%	39%	30%	24%										
2009	43 154	96%	77%	55%	53%	50%	37%	30%											
2010	37 598	93%	73%	70%	67%	49%	37%												
2011	34 117	93%	88%	84%	60%	44%													
2012	36 230	99%	94%	67%	48%														
2013	32 942	98%	80%	56%															
2014	22 963	90%	67%																
2015	8 953	77%																	
2016	1 504																		
2017	3																		

w) Latvia

Filing year	Applications filed	Granted patents	Validated patents	Patents still in force
1998				
1999				
2000				
2001				
2002				
2003				
2004				
2005	55 671	23 719	2 052	1 698
2006	115 774	48 443	3 868	3 173
2007	122 439	51 565	4 310	3 777
2008	133 560	57 652	5 059	4 632
2009	138 481	61 514	5 975	5 709
2010	147 162	61 800	6 356	6 138
2011	152 355	58 734	6 799	6 700
2012	154 704	54 158	6 363	6 324
2013	156 632	41 382	5 004	4 976
2014	158 705	26 927	3 612	3 603
2015	154 231	10 287	1 488	1 487
2016	134 811	2 216	721	721
2017	60 102	6	3	3

Percentage of patents still in force at the end of the patent year

Filing year	Validated patent	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1998																			
1999																			
2000																			
2001																			
2002																			
2003																			
2004																			
2005	2 052	100%	100%	99%	98%	96%	93%	91%	88%	86%	84%	83%							
2006	3 868	100%	100%	99%	97%	95%	93%	90%	87%	84%	82%								
2007	4 310	100%	100%	99%	97%	96%	93%	92%	89%	88%									
2008	5 059	100%	100%	99%	98%	97%	95%	93%	92%										
2009	5 976	100%	100%	100%	99%	98%	97%	96%											
2010	6 357	100%	100%	99%	99%	97%	97%												
2011	6 799	100%	100%	100%	99%	99%													
2012	6 364	100%	100%	100%	99%														
2013	5 005	100%	100%	99%															
2014	3 614	100%	100%																
2015	1 488	100%																	
2016	722																		
2017	6																		

x) Monaco

Filing year	Applications filed	Granted patents	Validated patents	Patents still in force
1998	25 463	9 695	9 451	545
1999	46 521	20 786	20 234	854
2000	71 417	34 471	33 361	1 192
2001	80 383	36 936	35 022	1 553
2002	83 621	37 806	34 570	1 739
2003	90 682	40 320	34 998	2 235
2004	98 638	43 062	35 026	2 785
2005	107 726	44 886	33 548	3 149
2006	114 707	47 372	31 971	3 877
2007	121 019	50 140	29 162	4 723
2008	131 545	55 637	26 107	6 021
2009	135 480	58 512	20 102	7 298
2010	143 720	58 358	13 647	8 734
2011	148 045	54 425	11 006	10 162
2012	150 464	49 919	12 274	12 185
2013	152 902	37 653	13 053	13 011
2014	155 799	24 021	12 201	12 190
2015	152 919	8 975	5 509	5 508
2016	134 100	1 505	1 495	1 495
2017	60 099	3	3	3

Percentage of patents still in force at the end of the patent year

Filing year	Validated patent	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1998	9 451	100%	99%	95%	73%	58%	45%	35%	28%	23%	18%	14%	12%	9%	8%	8%	7%	6%	6%
1999	20 234	100%	99%	77%	58%	43%	32%	24%	19%	15%	11%	8%	6%	6%	5%	5%	5%	4%	
2000	33 361	100%	91%	72%	53%	38%	28%	20%	15%	11%	8%	5%	5%	4%	4%	4%	4%		
2001	35 022	99%	91%	74%	55%	40%	29%	22%	15%	10%	7%	6%	5%	5%	5%	4%			
2002	34 570	99%	88%	70%	53%	39%	29%	20%	13%	7%	6%	6%	6%	5%	5%				
2003	34 998	98%	84%	66%	50%	37%	26%	17%	9%	8%	7%	7%	7%	6%					
2004	35 026	97%	81%	63%	49%	34%	22%	11%	9%	9%	8%	8%	8%						
2005	33 548	97%	79%	61%	43%	27%	14%	11%	10%	10%	10%	9%							
2006	31 971	96%	79%	56%	36%	17%	14%	13%	13%	13%	12%								
2007	29 162	96%	74%	48%	23%	18%	17%	17%	17%	16%									
2008	26 107	95%	67%	33%	25%	24%	24%	23%	23%										
2009	20 102	90%	49%	38%	37%	37%	37%	36%											
2010	13 647	81%	66%	66%	65%	65%	64%												
2011	11 006	94%	94%	94%	93%	92%													
2012	12 274	100%	100%	100%	99%														
2013	13 054	100%	100%	100%															
2014	12 203	100%	100%																
2015	5 509	100%																	
2016	1 496																		
2017	3																		

y) F Y R of Macedonia

Filing year	Applications filed	Granted patents	Validated patents	Patents still in force
1998				
1999				
2000				
2001				
2002				
2003				
2004				
2005				
2006				
2007				
2008				
2009	147 657	70 694	25 501	25 325
2010	156 288	70 927	29 030	28 823
2011	159 756	66 135	31 503	31 361
2012	158 159	57 614	32 113	32 027
2013	155 240	39 990	28 590	28 556
2014	156 233	24 455	21 118	21 115
2015	152 837	8 895	8 895	8 894
2016	134 101	1 504	1 504	1 504
2017	60 098	3	3	3

Percentage of patents still in force at the end of the patent year

Filing year	Validated patent	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1998																			
1999																			
2000																			
2001																			
2002																			
2003																			
2004																			
2005																			
2006																			
2007																			
2008																			
2009	25 501	100%	100%	100%	100%	100%	100%	99%											
2010	29 031	100%	100%	100%	100%	100%	100%	99%											
2011	31 503	100%	100%	100%	100%	100%													
2012	32 114	100%	100%	100%	100%														
2013	28 591	100%	100%	100%															
2014	21 120	100%	100%																
2015	8 895	100%																	
2016	1 504																		
2017	3																		

z) Malta

Filing year	Applications filed	Granted patents	Validated patents	Patents still in force
1998				
1999				
2000				
2001				
2002				
2003				
2004				
2005				
2006				
2007	102 848	42 394	9 828	9 551
2008	131 017	55 111	14 867	14 577
2009	135 029	58 063	19 126	18 950
2010	142 978	57 615	23 287	23 119
2011	147 289	53 668	28 261	28 177
2012	149 623	49 077	34 919	34 874
2013	152 453	37 203	32 471	32 445
2014	155 481	23 703	22 908	22 905
2015	152 840	8 895	8 895	8 894
2016	134 099	1 504	1 504	1 504
2017	60 098	3	3	3

Percentage of patents still in force at the end of the patent year

Filing year	Validated patent	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1998																			
1999																			
2000																			
2001																			
2002																			
2003																			
2004																			
2005																			
2006																			
2007	9 828	100%	100%	100%	99%	99%	98%	97%	97%	97%									
2008	14 867	100%	100%	100%	99%	99%	98%	98%	98%										
2009	19 127	100%	100%	100%	100%	99%	99%	99%											
2010	23 288	100%	100%	100%	100%	99%	99%												
2011	28 261	100%	100%	100%	100%	100%													
2012	34 920	100%	100%	100%	100%														
2013	32 472	100%	100%	100%															
2014	22 910	100%	100%																
2015	8 895	100%																	
2016	1 504																		
2017	3																		

aa) Netherlands

Filing year	Applications filed	Granted patents	Validated patents	Patents still in force
1998	54 373	27 857	16 043	3 438
1999	64 675	32 035	16 314	4 332
2000	78 652	38 858	17 152	5 217
2001	86 428	40 388	16 693	6 190
2002	88 472	40 393	15 760	6 545
2003	95 386	42 588	15 543	7 397
2004	102 881	44 898	15 719	8 589
2005	111 289	46 251	15 545	9 340
2006	118 117	48 536	15 855	10 452
2007	122 859	50 354	15 489	11 049
2008	131 804	55 041	15 806	12 297
2009	134 377	57 247	15 344	12 762
2010	142 218	56 856	14 814	13 047
2011	146 803	53 183	13 753	12 709
2012	149 464	48 918	12 700	12 033
2013	152 491	37 239	10 430	9 959
2014	155 557	23 777	7 101	6 734
2015	152 976	9 030	2 869	2 673
2016	134 116	1 520	637	635
2017	60 099	3	3	3

Percentage of patents still in force at the end of the patent year

Filing year	Validated patent	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1998	16 043	100%	100%	100%	98%	94%	88%	82%	76%	70%	62%	53%	48%	43%	39%	34%	28%	24%	21%
1999	16 314	100%	100%	99%	97%	93%	88%	82%	77%	69%	61%	55%	50%	46%	41%	34%	29%	27%	
2000	17 152	100%	100%	99%	97%	93%	88%	83%	75%	67%	61%	56%	51%	45%	38%	34%	30%		
2001	16 694	100%	100%	99%	97%	94%	90%	83%	75%	70%	64%	59%	53%	45%	40%	37%			
2002	15 760	100%	100%	99%	97%	94%	89%	82%	76%	70%	65%	59%	51%	45%	42%				
2003	15 543	100%	100%	99%	97%	93%	87%	82%	78%	72%	66%	57%	52%	48%					
2004	15 719	100%	100%	99%	96%	92%	87%	83%	78%	72%	63%	58%	55%						
2005	15 545	100%	100%	99%	96%	93%	89%	84%	79%	69%	64%	60%							
2006	15 855	100%	100%	98%	96%	93%	89%	84%	76%	70%	66%								
2007	15 489	100%	100%	99%	97%	94%	89%	81%	76%	71%									
2008	15 806	100%	100%	99%	97%	94%	87%	82%	78%										
2009	15 345	100%	100%	99%	97%	92%	87%	83%											
2010	14 815	100%	100%	99%	96%	92%	88%												
2011	13 753	100%	100%	98%	95%	92%													
2012	12 700	100%	100%	98%	95%														
2013	10 431	100%	99%	95%															
2014	7 102	100%	95%																
2015	2 869	93%																	
2016	637																		
2017	3																		

bb) Norway

Filing year	Applications filed	Granted patents	Validated patents	Patents still in force
1998				
1999				
2000				
2001				
2002				
2003				
2004				
2005				
2006				
2007				
2008	131 303	55 374	5 411	4 405
2009	135 611	58 641	5 748	4 966
2010	144 231	58 868	6 027	5 457
2011	148 821	55 200	5 868	5 474
2012	151 198	50 652	5 256	5 019
2013	154 018	38 767	4 293	4 205
2014	156 998	25 220	3 005	2 992
2015	153 688	9 743	1 311	1 310
2016	134 455	1 858	420	420
2017	60 101	6	3	3

Percentage of patents still in force at the end of the patent year

Filing year	Validated patent	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1998																			
1999																			
2000																			
2001																			
2002																			
2003																			
2004																			
2005																			
2006																			
2007																			
2008	5 411	100%	100%	99%	96%	93%	89%	84%	81%										
2009	5 748	100%	100%	99%	97%	93%	89%	86%											
2010	6 027	100%	100%	98%	96%	93%	91%												
2011	5 868	100%	100%	98%	95%	93%													
2012	5 256	100%	99%	98%	95%														
2013	4 293	100%	99%	98%															
2014	3 005	100%	100%																
2015	1 311	100%																	
2016	420																		
2017	3																		

cc) Poland

Filing year	Applications filed	Granted patents	Validated patents	Patents still in force
1998				
1999				
2000				
2001				
2002				
2003				
2004	85 332	37 021	7 245	4 367
2005	107 592	44 631	8 508	5 660
2006	114 510	47 021	9 011	6 435
2007	120 658	49 636	9 312	7 139
2008	130 808	54 803	9 820	8 151
2009	134 703	57 716	10 194	9 006
2010	142 781	57 417	10 332	9 540
2011	147 344	53 726	10 331	9 929
2012	149 801	49 254	10 162	9 990
2013	152 791	37 540	9 529	9 492
2014	155 769	23 990	7 838	7 835
2015	153 003	9 058	3 571	3 571
2016	134 111	1 514	1 032	1 032
2017	60 099	3	3	3

Percentage of patents still in force at the end of the patent year

Filing year	Validated patent	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1998																			
1999																			
2000																			
2001																			
2002																			
2003																			
2004	7 245	100%	100%	98%	94%	89%	85%	80%	75%	70%	65%	61%	60%						
2005	8 508	100%	100%	98%	94%	91%	87%	82%	77%	71%	67%	67%							
2006	9 011	100%	100%	98%	95%	91%	87%	82%	77%	72%	71%								
2007	9 312	100%	100%	98%	96%	92%	87%	82%	77%	77%									
2008	9 820	100%	100%	98%	96%	92%	88%	83%	83%										
2009	10 195	100%	100%	98%	96%	93%	88%	88%											
2010	10 333	100%	100%	98%	96%	93%	92%												
2011	10 331	100%	100%	99%	96%	96%													
2012	10 163	100%	100%	98%	98%														
2013	9 529	100%	100%	100%															
2014	7 840	100%	100%																
2015	3 571	100%																	
2016	1 033																		
2017	3																		

dd) Portugal

Filing year	Applications filed	Granted patents	Validated patents	Patents still in force
1998	34 508	15 443	7 552	1 269
1999	51 292	23 810	10 770	1 593
2000	71 354	34 552	14 360	1 996
2001	80 446	36 928	11 827	2 433
2002	83 625	37 712	8 061	2 679
2003	90 564	40 157	6 094	3 135
2004	98 329	42 692	6 122	3 793
2005	107 324	44 436	6 321	4 347
2006	114 124	46 752	6 850	5 150
2007	120 210	49 300	7 373	6 095
2008	130 582	54 646	8 786	7 746
2009	134 583	57 611	10 275	9 563
2010	142 792	57 429	12 053	11 548
2011	147 380	53 760	13 784	13 512
2012	149 813	49 267	15 165	15 025
2013	152 755	37 506	15 561	15 520
2014	155 864	24 085	14 323	14 317
2015	153 037	9 093	6 737	6 737
2016	134 102	1 505	1 486	1 486
2017	60 099	3	3	3

Percentage of patents still in force at the end of the patent year

Filing year	Validated patent	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1998	7 552	100%	100%	99%	98%	75%	59%	55%	51%	47%	41%	36%	32%	29%	26%	24%	21%	19%	17%
1999	10 770	100%	100%	99%	69%	49%	46%	43%	40%	36%	32%	28%	26%	23%	21%	19%	17%	15%	
2000	14 360	100%	100%	67%	42%	40%	38%	35%	32%	28%	26%	23%	21%	19%	17%	15%	14%		
2001	11 827	100%	77%	51%	50%	49%	46%	42%	38%	35%	32%	30%	27%	25%	23%	21%			
2002	8 061	93%	72%	71%	70%	68%	64%	59%	54%	50%	46%	42%	39%	36%	33%				
2003	6 094	95%	95%	94%	92%	89%	83%	79%	74%	68%	64%	59%	55%	51%					
2004	6 122	100%	100%	99%	96%	92%	88%	83%	78%	73%	69%	66%	62%						
2005	6 321	100%	100%	99%	96%	93%	89%	85%	81%	77%	72%	69%							
2006	6 850	100%	100%	99%	97%	94%	90%	87%	83%	79%	75%								
2007	7 373	100%	100%	99%	98%	95%	92%	89%	86%	83%									
2008	8 786	100%	100%	99%	98%	96%	94%	91%	88%										
2009	10 276	100%	100%	100%	99%	97%	95%	93%											
2010	12 053	100%	100%	100%	99%	98%	96%												
2011	13 784	100%	100%	100%	99%	98%													
2012	15 165	100%	100%	100%	99%														
2013	15 561	100%	100%	100%															
2014	14 323	100%	100%																
2015	6 737	100%																	
2016	1 486																		
2017	3																		

ee) Romania

Filing year	Applications filed	Granted patents	Validated patents	Patents still in force
1998				
1999				
2000				
2001				
2002				
2003	76 819	34 322	3 841	2 150
2004	98 672	43 099	4 813	2 830
2005	107 705	44 858	4 851	3 039
2006	114 628	47 283	5 390	3 527
2007	120 977	50 092	5 952	4 127
2008	131 575	55 656	6 875	4 831
2009	135 791	58 822	7 762	5 547
2010	144 106	58 744	8 727	6 121
2011	148 733	55 112	9 612	6 758
2012	151 007	50 461	9 826	7 092
2013	153 901	38 651	8 237	7 252
2014	156 569	24 791	6 799	6 727
2015	153 212	9 268	3 531	3 530
2016	134 110	1 513	1 152	1 152
2017	60 099	3	3	3

Percentage of patents still in force at the end of the patent year

Filing year	Validated patent	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1998																			
1999																			
2000																			
2001																			
2002																			
2003	3 841	100%	99%	98%	96%	92%	88%	83%	79%	75%	71%	62%	58%	56%					
2004	4 813	100%	99%	98%	95%	91%	88%	84%	80%	76%	64%	61%	59%						
2005	4 851	100%	99%	97%	95%	92%	88%	84%	81%	68%	65%	63%							
2006	5 390	100%	99%	98%	96%	93%	90%	87%	72%	68%	65%								
2007	5 952	100%	99%	99%	97%	95%	92%	74%	72%	69%									
2008	6 875	100%	100%	99%	97%	95%	75%	72%	70%										
2009	7 763	100%	100%	99%	98%	75%	73%	71%											
2010	8 728	100%	100%	99%	73%	71%	70%												
2011	9 612	100%	100%	72%	71%	70%													
2012	9 827	100%	73%	73%	72%														
2013	8 238	89%	88%	88%															
2014	6 801	99%	99%																
2015	3 531	100%																	
2016	1 153																		
2017	3																		

ff) Serbia

Filing year	Applications filed	Granted patents	Validated patents	Patents still in force
1998				
1999				
2000				
2001				
2002				
2003				
2004				
2005				
2006				
2007				
2008				
2009				
2010	41 032	17 148	2 413	2 373
2011	151 755	58 136	6 192	6 103
2012	154 430	53 885	6 079	6 036
2013	156 940	41 691	5 274	5 253
2014	158 499	26 721	3 435	3 431
2015	154 747	10 803	1 989	1 988
2016	134 662	2 064	569	569
2017	60 101	6	3	3

Percentage of patents still in force at the end of the patent year

Filing year	Validated patent	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1998																			
1999																			
2000																			
2001																			
2002																			
2003																			
2004																			
2005																			
2006																			
2007																			
2008																			
2009																			
2010	2 413	100%	100%	100%	100%	99%	98%												
2011	6 192	100%	100%	100%	99%	99%													
2012	6 080	100%	100%	100%	99%														
2013	5 275	100%	100%	100%															
2014	3 437	100%	100%																
2015	1 989	100%																	
2016	570																		
2017	6																		

gg) Sweden

Filing year	Applications filed	Granted patents	Validated patents	Patents still in force
1998	47 963	24 369	11 819	2 544
1999	60 414	29 839	12 320	3 252
2000	75 310	37 389	12 757	3 683
2001	84 571	39 674	12 449	4 389
2002	86 862	39 915	11 668	4 694
2003	93 474	42 065	11 319	5 200
2004	100 802	44 328	11 108	5 758
2005	109 579	45 885	11 038	6 337
2006	116 165	48 054	10 732	6 847
2007	121 559	50 165	10 204	7 112
2008	131 236	55 127	10 414	7 930
2009	134 769	57 754	10 053	8 340
2010	143 060	57 697	9 501	8 320
2011	147 674	54 054	8 889	8 167
2012	150 158	49 613	7 830	7 469
2013	153 074	37 825	6 249	6 137
2014	155 931	24 152	4 046	4 024
2015	153 203	9 258	1 620	1 613
2016	134 220	1 623	369	366
2017	60 100	4	3	3

Percentage of patents still in force at the end of the patent year

Filing year	Validated patent	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1998	11 819	100%	100%	99%	95%	90%	84%	78%	73%	66%	57%	51%	46%	41%	36%	32%	28%	24%	22%
1999	12 320	100%	100%	98%	94%	90%	84%	79%	72%	64%	58%	52%	47%	42%	38%	33%	29%	26%	
2000	12 757	100%	100%	98%	95%	90%	85%	79%	70%	63%	57%	51%	46%	40%	36%	32%	29%		
2001	12 449	100%	100%	98%	96%	92%	86%	78%	71%	65%	60%	53%	48%	43%	38%	35%			
2002	11 668	100%	100%	98%	96%	91%	84%	77%	71%	65%	60%	54%	49%	43%	40%				
2003	11 319	100%	100%	98%	95%	89%	83%	77%	72%	66%	60%	54%	49%	46%					
2004	11 108	100%	99%	98%	93%	88%	83%	78%	71%	66%	60%	55%	52%						
2005	11 038	100%	99%	97%	94%	90%	85%	79%	73%	67%	61%	57%							
2006	10 732	100%	99%	97%	95%	91%	86%	80%	74%	68%	64%								
2007	10 204	100%	99%	98%	95%	91%	85%	80%	74%	70%									
2008	10 414	100%	100%	98%	95%	90%	85%	80%	76%										
2009	10 054	100%	100%	98%	95%	91%	86%	83%											
2010	9 502	100%	100%	98%	95%	91%	88%												
2011	8 889	100%	100%	98%	95%	92%													
2012	7 831	100%	100%	98%	95%														
2013	6 250	100%	99%	98%															
2014	4 048	100%	99%																
2015	1 620	100%																	
2016	370																		
2017	4																		

hh) Slovenia

Filing year	Applications filed	Granted patents	Validated patents	Patents still in force
1998				
1999				
2000				
2001				
2002	7 910	3 611	481	329
2003	90 428	40 190	3 843	2 263
2004	98 524	42 957	4 121	2 780
2005	107 596	44 752	4 205	3 101
2006	114 599	47 250	4 842	3 871
2007	120 906	50 019	5 418	4 632
2008	131 565	55 643	6 491	5 855
2009	135 774	58 804	7 595	7 180
2010	144 174	58 811	8 981	8 647
2011	148 649	55 028	9 970	9 789
2012	150 926	50 380	11 581	11 502
2013	153 379	38 129	12 000	11 959
2014	155 999	24 221	11 363	11 357
2015	153 027	9 083	5 582	5 582
2016	134 100	1 505	1 484	1 484
2017	60 099	3	3	3

Percentage of patents still in force at the end of the patent year

Filing year	Validated patent	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1998																			
1999																			
2000																			
2001																			
2002	481	100%	100%	99%	97%	94%	89%	87%	84%	81%	77%	74%	71%	68%	68%				
2003	3 843	100%	99%	98%	96%	91%	87%	82%	78%	73%	70%	66%	61%	59%					
2004	4 121	100%	100%	98%	95%	92%	88%	84%	80%	76%	72%	69%	67%						
2005	4 205	100%	100%	98%	96%	93%	89%	86%	82%	78%	76%	74%							
2006	4 842	100%	100%	99%	97%	94%	92%	88%	85%	82%	80%								
2007	5 418	100%	100%	99%	97%	95%	92%	90%	87%	85%									
2008	6 491	100%	100%	99%	98%	96%	94%	92%	90%										
2009	7 596	100%	100%	99%	98%	97%	96%	95%											
2010	8 982	100%	100%	99%	98%	97%	96%												
2011	9 970	100%	100%	99%	99%	98%													
2012	11 582	100%	100%	100%	99%														
2013	12 001	100%	100%	100%															
2014	11 365	100%	100%																
2015	5 582	100%																	
2016	1 485																		
2017	3																		

ii) Slovakia

Filing year	Applications filed	Granted patents	Validated patents	Patents still in force
1998				
1999				
2000				
2001				
2002	42 804	19 454	2 223	1 255
2003	90 703	40 408	4 168	2 385
2004	98 789	43 195	4 443	2 890
2005	107 823	44 973	4 316	3 066
2006	114 880	47 529	4 746	3 580
2007	121 275	50 376	5 063	4 204
2008	131 969	56 047	5 829	5 100
2009	136 501	59 530	6 605	6 131
2010	145 093	59 729	7 290	6 919
2011	149 700	56 072	7 696	7 529
2012	151 915	51 363	7 950	7 860
2013	154 297	39 036	7 574	7 527
2014	156 633	24 844	6 511	6 499
2015	153 279	9 313	3 084	3 083
2016	134 277	1 516	944	944
2017	60 120	3	3	3

Percentage of patents still in force at the end of the patent year

Filing year	Validated patent	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1998																			
1999																			
2000																			
2001																			
2002	2 223	100%	100%	98%	96%	92%	86%	82%	77%	72%	68%	64%	61%	57%	56%				
2003	4 168	100%	99%	98%	96%	91%	86%	81%	77%	72%	68%	64%	59%	57%					
2004	4 443	100%	100%	98%	94%	91%	87%	82%	78%	74%	70%	67%	65%						
2005	4 316	100%	99%	97%	94%	92%	88%	84%	80%	76%	73%	71%							
2006	4 746	100%	99%	98%	96%	92%	89%	86%	81%	78%	75%								
2007	5 063	100%	99%	99%	97%	95%	91%	88%	85%	83%									
2008	5 829	100%	100%	99%	97%	95%	93%	90%	87%										
2009	6 606	100%	100%	99%	98%	96%	94%	93%											
2010	7 291	100%	100%	99%	98%	96%	95%												
2011	7 696	100%	100%	100%	99%	98%													
2012	7 951	100%	100%	99%	99%														
2013	7 575	100%	100%	99%															
2014	6 513	100%	100%																
2015	3 084	100%																	
2016	945																		
2017	3																		

jj) San Marino

Filing year	Applications filed	Granted patents	Validated patents	Patents still in force
1998				
1999				
2000				
2001				
2002				
2003				
2004				
2005				
2006				
2007				
2008				
2009	74 649	34 492	6 189	6 102
2010	153 091	67 729	13 961	13 740
2011	155 266	61 638	12 005	11 907
2012	155 214	54 662	10 115	10 053
2013	157 000	41 739	9 389	9 371
2014	157 548	25 759	6 909	6 908
2015	153 599	9 632	3 249	3 249
2016	134 278	1 517	932	932
2017	60 119	3	3	3

Percentage of patents still in force at the end of the patent year

Filing year	Validated patent	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1998																			
1999																			
2000																			
2001																			
2002																			
2003																			
2004																			
2005																			
2006																			
2007																			
2008																			
2009	6 189	100%	100%	100%	99%	99%	99%	99%											
2010	13 962	100%	100%	99%	99%	99%	98%												
2011	12 005	100%	100%	100%	99%	99%													
2012	10 116	100%	100%	100%	99%														
2013	9 391	100%	100%	100%															
2014	6 911	100%	100%																
2015	3 249	100%																	
2016	933																		
2017	3																		

kk) Turkey

Filing year	Applications filed	Granted patents	Validated patents	Patents still in force
1998				
1999				
2000	13 298	6 467	1 277	792
2001	81 090	37 570	6 909	4 052
2002	84 337	38 424	7 486	4 716
2003	91 357	40 941	8 296	5 754
2004	99 468	43 756	9 451	7 065
2005	108 498	45 571	10 350	8 311
2006	115 659	48 233	12 015	10 261
2007	121 778	50 828	13 668	12 241
2008	132 342	56 394	16 670	15 530
2009	136 573	59 595	19 287	18 563
2010	144 623	59 259	22 175	21 761
2011	148 374	54 748	27 178	26 999
2012	149 911	49 359	34 090	33 999
2013	152 365	37 106	33 085	33 049
2014	155 458	23 668	23 099	23 096
2015	152 862	8 896	8 896	8 895
2016	134 266	1 504	1 504	1 504
2017	60 120	3	3	3

Percentage of patents still in force at the end of the patent year

Filing year	Validated patent	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1998																			
1999																			
2000	1 277	100%	100%	100%	99%	99%	99%	94%	86%	83%	77%	73%	70%	66%	62%	62%	62%		
2001	6 910	100%	100%	100%	100%	99%	95%	87%	82%	76%	71%	67%	63%	59%	59%				
2002	7 486	100%	100%	100%	100%	96%	90%	86%	80%	76%	71%	67%	63%	63%	63%				
2003	8 296	100%	100%	100%	98%	94%	90%	86%	82%	78%	74%	70%	70%	69%					
2004	9 451	100%	100%	99%	96%	93%	90%	86%	82%	79%	75%	75%	75%						
2005	10 350	100%	100%	99%	97%	95%	91%	88%	84%	81%	81%	80%							
2006	12 015	100%	100%	99%	97%	94%	92%	89%	86%	86%	85%								
2007	13 668	100%	100%	99%	97%	95%	93%	90%	90%	90%									
2008	16 670	100%	100%	99%	98%	96%	94%	93%	93%										
2009	19 288	100%	99%	99%	98%	97%	96%	96%											
2010	22 176	100%	100%	99%	99%	99%	98%	98%											
2011	27 178	100%	100%	100%	100%	99%													
2012	34 091	100%	100%	100%	100%														
2013	33 085	100%	100%	100%															
2014	23 100	100%	100%																
2015	8 896	100%																	
2016	1 504																		
2017	3																		

ANNEX 2 NATIONAL STATISTICS

A. NATIONAL PATENT APPLICATIONS

a) Filing route and growth over 2016 (not adjusted for missing data)

Country		National		PCT national phase		Total		Resident		Non Resident	
Albania*	AL		-		-		-		-		-
Austria	AT	2 318	-6.5%	582	13.2%	2 900	-3.1%	2 522	-2.0%	378	-10.0%
Belgium ⁽¹⁾	BE	1 217	3.8%			1 217	3.8%	1 005	-4.6%	212	78%
Bulgaria	BG	222	-	3	-	225		202	-	23	-
Switzerland/Liechtenstein	CH/LI	1 556	-8.9%	72	14.3%	1 628	-8.1%	1 337	-8.5%	291	-5.8%
Cyprus ⁽¹⁾	CY	24	500.0%			12	200.0%	8	167%	4	300%
Czech Republic	CZ	835	3.6%	27	-18.2%	862	2.7%	794	0.3%	68	44.7%
Germany	DE	61 475	-0.2%	6 238	-1.4%	67 713	-0.3%	47 786	-1.4%	19 927	2.6%
Denmark	DK	1 691	-3.0%	81	-23.6%	1 772	-4.2%	1 490	-4.0%	282	-5.4%
Estonia	EE	37	23.3%	4		41	36.7%	37	27.6%	4	300.0%
Spain	ES	2 286	-19.8%	57	-21.9%	2 343	-19.8%	2 167	-21.1%	176	-0.6%
Finland	FI	1 497	11.5%	32	28.0%	1 529	11.8%	1 390	10.3%	139	28.7%
France ⁽¹⁾	FR	16 136	-0.5%			16 136	-0.5%	14 415	1.5%	1 832	-8.9%
United Kingdom	GB	19 371	-1.7%	2 885	13.4%	22 256	0.1%	13 297	-4.2%	8 959	7.1%
Greece ⁽¹⁾	GR	589	-8.8%			589	-8.8%	498	-17.7%	91	122.0%
Croatia	HR	154	-15.4%	5	-16.7%	159	-15.4%	148	-15.4%	11	-15.4%
Hungary	HU	518	-20.2%	14	-13%	532	-20.0%	496	-19.5%	36	-26.5%
Ireland ⁽¹⁾	IE	268	-6.6%			268	-6.6%	182	-9.9%	86	1.2%
Iceland	IS	43	22.9%	1	-66.7%	44	15.8%	36	5.9%	8	100.0%
Italy ⁽¹⁾	IT	9 674	-10.4%			9 674	-10.4%	8 643	-2%	1 031	6.0%
Lithuania ⁽¹⁾	LT	127	-17.0%			127	-17.0%	81	-14.7%	46	-21%
Luxembourg	LU	471	-	16	-	487	-30.7%	123	-70.9%	364	30%
Latvia ⁽¹⁾	LV	97	-14.2%			97	-14.2%	90	-5.3%	7	-61%
Monaco ⁽¹⁾	MC	35	150%			35	150%	18	157.1%	17	142.9%
FYRO Macedonia	MK	1 000	6.8%	3	-57.1%	1 003	6.4%	52	6.1%	951	6.4%
Malta ⁽¹⁾	MT	11	175.0%			11	175.0%	4	0.0%	7	
Netherlands ⁽¹⁾	NL	2 606	0.1%			2 606	0.1%	2 241	-1.7%	365	12.7%
Norway	NO	1 241	-5.6%	811	8.9%	2 052	-0.4%	1 160	-5.5%	893	7.2%
Poland	PL	3 998	-8.1%	43	-4.4%	4 041	-8.1%	3 924	-7.9%	117	-13.3%
Portugal	PT	825	-11.2%	21	110.0%	846	-9.9%	719	-11.5%	127	0.0%
Romania*	RO		-		-		-		-		-
Serbia	RS	183	-11.6%	1	-83.3%	184	-13.6%	171	-10.9%	13	-38.1%
Sweden	SE	2 211	-4.4%	86	17.8%	2 297	-3.7%	1 990	-2.0%	307	-13.5%
Slovenia ⁽¹⁾	SI	344	9.2%			344	9.2%	322	7.7%	22	37.5%
Slovakia	SK	199	-12.3%	7	16.7%	206	-11.6%	183	-16.8%	23	76.9%
San Marino	SM	26	18.2%	2		28	27.3%	5	-16.7%	23	43.8%
Turkey	TR	8 327	26.9%	361	20.7%	8 688	26.7%	8 303	33.0%	358	-41.8%
EPC States	States	141 612	-0.5%	11 352	4.1%	152 952	-0.6%	115 839	-0.8%	37 198	2.9%
EPC States estimates						153 992	-0.6%				
<i>(1) No PCT national phase entry</i>											
<i>* no data provided</i>											

Due to missing data, figures do not necessarily add up.

b) Origin of foreign applications

Origin	Office of filing																											Total EPC												
	AL*	AT	BE	BG	CH/LI	CY	CZ	DE	DK	EE	ES	FI	FR	GB	GR	HR	HU	IE	IS	IT	LT	LU	LV	MC	MK	MT	NL		NO	PL	PT	RO*	RS	SE	SI	SK	SM	TR		
AL	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AT	-	0	0	28	0	3	906	0	0	0	1	6	44	0	0	0	0	0	15	0	0	0	0	16	0	0	0	1	0	0	2	1	2	0	8				1 033	
BE	2	-	0	1	0	0	70	0	0	3	0	102	174	0	0	0	0	0	21	0	11	0	0	34	0	59	1	0	4	0	0	0	0	0	0	0	0	0	0	482
BG	1	2	-	0	0	0	7	0	0	0	0	1	2	0	2	0	0	0	5	0	0	0	0	2	0	1	0	0	0	0	0	2	0	0	2	0	2		27	
CH	42	3	0	-	0	0	922	26	0	1	4	81	362	1	0	2	0	0	141	0	4	0	0	51	1	12	15	2	7	0	44	0	1	3	12			1 737		
CY	0	2	0	0	-	0	1	0	0	0	0	0	7	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	25		
CZ	10	0	0	0	0	-	29	0	1	0	0	6	13	0	1	1	0	0	4	0	0	0	0	5	0	1	0	6	1	0	3	3	12	0	2	0	2	98		
DE	183	65	1	108	0	11	-	19	0	23	35	452	513	0	1	3	0	1	320	0	45	0	0	101	0	43	36	19	12	0	9	1	0	1	34			2 036		
DK	0	0	2	0	0	0	109	0	0	4	9	2	66	0	0	0	0	0	3	0	0	0	0	16	0	0	9	2	4	0	5	0	0	0	0	0	231			
EE	0	0	0	0	0	0	0	0	-	0	9	0	5	0	0	0	0	0	3	1	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	20			
ES	2	3	0	5	0	0	25	1	0	-	4	68	61	0	0	2	1	0	23	0	0	0	0	24	0	3	3	3	23	1	3	0	0	0	2	2	257			
FI	17	2	0	0	0	0	45	1	2	0	-	0	124	3	0	0	1	0	4	0	0	0	0	11	0	2	4	2	0	0	74	0	0	0	0	0	292			
FR	1	40	0	16	0	5	237	13	0	16	0	-	168	1	0	2	0	4	54	0	1	0	2	45	0	8	10	7	5	0	7	0	0	0	2	644				
GB	3	5	0	5	0	0	210	3	0	19	0	42	-	30	0	2	40	0	34	0	4	0	0	36	0	10	29	5	3	0	2	1	0	0	8	491				
GR	0	0	0	0	0	0	1	5	0	0	0	4	18	-	0	0	1	0	1	0	1	0	0	3	3	1	0	0	0	0	0	0	0	0	0	0	37			
HR	0	0	0	0	0	0	1	0	0	0	0	0	1	0	-	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	5			
HU	1	0	0	1	0	0	10	0	0	1	0	0	4	0	0	-	0	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0	2	23				
IE	0	0	0	0	0	0	95	0	0	1	0	9	320	0	0	0	-	0	4	1	0	0	0	9	0	1	0	2	0	0	1	0	0	0	0	443				
IS	0	0	0	0	0	0	0	3	0	0	0	0	2	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	6				
IT	19	3	0	21	0	1	133	2	0	11	0	80	54	0	0	1	3	0	-	0	1	0	0	41	0	6	4	1	4	1	0	0	1	17	6	410				
LI	4	0	0	0	0	0	17	0	0	0	0	0	5	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27				
LT	0	0	0	0	0	0	2	0	0	1	0	0	1	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4			
LU	3	7	0	0	0	0	111	2	0	0	0	56	83	0	0	0	1	0	3	0	-	0	0	14	0	1	0	0	0	0	1	0	0	0	0	282				
LV	0	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5			
MC	0	0	0	0	0	0	2	0	0	0	0	13	0	0	0	0	0	2	0	0	0	0	-	0	0	2	0	0	0	0	0	0	0	0	0	0	19			
MK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0			
MT	0	0	0	0	0	0	17	1	0	0	0	2	13	0	0	1	0	0	4	0	0	0	0	1	-	0	0	0	0	0	2	0	0	0	0	41				
NL	2	16	0	3	0	0	128	9	0	11	3	26	160	1	0	1	3	0	9	0	1	0	0	21	0	-	64	2	4	0	3	0	0	0	4	471				
NO	0	0	0	1	0	0	12	19	0	4	3	14	335	0	0	1	0	1	1	0	0	0	0	7	0	0	-	0	0	0	19	0	0	0	0	417				
PL	4	0	0	0	0	4	23	3	0	1	3	1	14	1	0	0	0	0	3	0	2	0	0	5	0	2	0	-	1	0	1	0	1	0	4	73				
PT	0	0	0	0	0	0	4	0	0	2	0	10	17	0	0	0	0	0	9	0	0	0	0	3	0	1	0	0	-	0	0	0	0	0	0	46				
RO	0	0	0	0	0	0	1	0	0	1	0	3	15	0	0	3	0	0	6	0	0	0	0	1	0	0	0	0	0	-	0	1	0	0	0	31				
RS	0	0	0	0	0	0	0	0	0	0	0	0	17	0	0	1	0	0	5	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	23				
SE	1	0	0	2	0	0	464	10	0	0	21	29	154	0	0	0	0	0	32	0	0	0	0	13	0	1	8	2	0	0	-	0	0	0	4	741				
SI	0	0	0	0	0	0	22	0	0	0	0	3	10	0	2	0	0	0	3	0	0	0	0	1	0	0	0	0	2	2	-	0	0	0	45					
SK	5	0	0	0	0	0	1	2	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	2	1	0	1	0	-	0	0	15				
SM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	19				
TR	1	1	0	0	0	0	17	1	0	1	0	5	16	0	0	0	1	0	4	0	3	0	0	1	0	2	0	3	1	0	2	0	0	0	-	59				
EPC States	0	301	149	3	191	8	25	3 628	115	3	100	92	1 016	2 781	42	7	21	52	6	733	2	73	0	2	464	4	156	183	59	72	0	5	186	8	17	21	90	10 615		
CN	19	24	0	11	0	0	646	7	0	15	4	109	1 079	1	0	0	2	0	36	42	63	6	15	15	0	41	5	2	3	0	9	0	0	0	2 154					
JP	12	8	0	28	0	11	7 279	6	0	12	18	248	586	0	0	1	5	0	92	0	1	0	0	38	0	29	6	10	4	0	39	0	1	0	46	8 480				
KR	1	0	0	4	0	3	1 171	0	0	6	0	17	122	1	0	3	3	0	1	0	0	0	0	45	0	2	3	1	0	1	1	0	0	0	0	1 385				
US	24	24	0	20	2	8	6 084	124	0	14	13	278	3 009	42	1	8	21	0	114	1	4	0	0	334	0	91	679	27	37	3	32	0	5	1	70	11 070				
Other	21	7	20	37	2	15	1 119	30	1	29	12	164	1 382	5	3	3	2	55	1	223	1	0	55	3	46	17	18	11	4	40	14	0	1	152	3 496					
TOTAL	0	378	212	23	291	12	62	19 927	282	4	176	139	1 832	8 959	91	11	36	86	8	1 031	46	364	7	17	951	7	365	893	117	127	0	13	307	22	23	23	358	37 200		

* no data provided

c) First filings

First filings as a % of national domestic applications

Albania*	AL	
Austria	AT	71.7%
Belgium	BE	83.4%
Bulgaria*	BG	
Switzerland/Liechtenstein	CH/LI	90.8%
Cyprus	CY	100.0%
Czech Republic	CZ	100.0%
Germany	DE	92.2%
Denmark	DK	96.0%
Estonia	EE	88.9%
Spain	ES	99.1%
Finland	FI	97.4%
France	FR	98.0%
United Kingdom	GB	88.1%
Greece	GR	99.6%
Croatia	HR	100.0%
Hungary	HU	94.4%
Ireland	IE	84.6%
Iceland	IS	94.4%
Italy	IT	97.0%
Lithuania	LT	100.0%
Luxembourg*	LU	
Latvia	LV	100.0%
Monaco	MC	100.0%
F Y R of Macedonia	MK	100.0%
Malta	MT	100.0%
Netherlands	NL	88.8%
Norway	NO	92.9%
Poland	PL	99.7%
Portugal	PT	99.9%
Romania*	RO	
Serbia	RS	98.9%
Sweden	SE	97.8%
Slovenia	SI	99.1%
Slovakia	SK	100.0%
San Marino*	SM	
Turkey	TR	92.1%
EPC states		93.0%

* no data provided

In addition 61% of the national applications filed by residents from other EPC states were first filings.

B. GRANT PROCEDURE

Country		Granted patents			Applications			Total
		Residents	Non residents	Total	Withdrawn	Deemed withdrawn	Refused	
Albania*	AL							
Austria	AT	980	122	1 102	83		128	1 313
Belgium	BE	859	157	1 016	81	0	137	1 234
Bulgaria	BG	71	6	77	0	61	18	156
Switzerland / Liechtenstein	CH/LI	541	230	771	187	-	1 422	2 380
Cyprus	CY	0	0		1	1	3	5
Czech Republic	CZ	567	102	669	106	226	272	1 273
Germany	DE	10 564	5 085	15 649	4 322	28 843	8 665	57 479
Denmark	DK	1 523	315	1 838	185	1 231	3	3 257
Estonia	EE	13	2	15	1	18	1	35
Spain	ES	1 873	138	2 011	117	518	436	3 082
Finland	FI	594	110	704	49	835	15	1 603
France	FR	10 216	1 649	11 865	403	0		12 268
United Kingdom	GB	3 267	3 044	6 311	2 531	-	11 946	20 788
Greece	GR	242	8	250	47	2	5	304
Croatia	HR	5	15	20	2	118	37	177
Hungary	HU	92	63	155	69	546	40	810
Ireland	IE	41	46	87	29	71	63	250
Iceland	IS	6	30	36		0	0	36
Italy	IT	4 617	240	4 857	680	-	2 183	7 720
Lithuania	LT	93	50	143	10	10	13	176
Luxembourg*	LU							
Latvia	LV	75	12	87	4	1	5	97
Monaco	MC	5	4	9	0		14	23
F Y R of Macedonia	MK	31	907	938			32	970
Malta	MT	1	3	4	0	0	0	4
Netherlands	NL	1 936	371	2 307	754	289	3	3 353
Norway	NO	524	1 626	2 150	68	1 846	11	4 075
Poland	PL	2 795	109	2 904	-		123	3 027
Portugal	PT	91	68	159	14	-	221	394
Romania*	RO							
Serbia	RS	35	12	47	11	87	34	179
Sweden	SE	904	127	1 031	116	1 125	26	2 298
Slovenia	SI	197	11	208	12	84	1	305
Slovakia	SK	59	23	82	6	78	58	224
San Marino*	SM							
Turkey	TR	1 757	143	1 900	26	7	3	1 936
Total		44 574	14 828	59 402	9 914	35 997	25 918	131 231
Total estimates				59 420				131 250

* no data provided

C. WORKING AGREEMENTS EPO-NPO ON SEARCH

a) Ex-IIIB states

As per CA/37/08 rev.1, the table below shows the latest figures on the numbers and proportions of national applications for which the EPO has conducted search on behalf of the country (FR, NL, BE, LU), which were subsequently filed as European applications or PCT international applications.

Applications are counted in the year of the subsequent applications. Counts for 2017 are still provisional.

Year	Searched by the EPO	Not extended / Remained national		Extended as			
				EP		PCT	
2016	16 657	7 011	42%	2 470	15%	7 176	43%
2017	16 779	7 186	43%	2 536	15%	7 057	42%

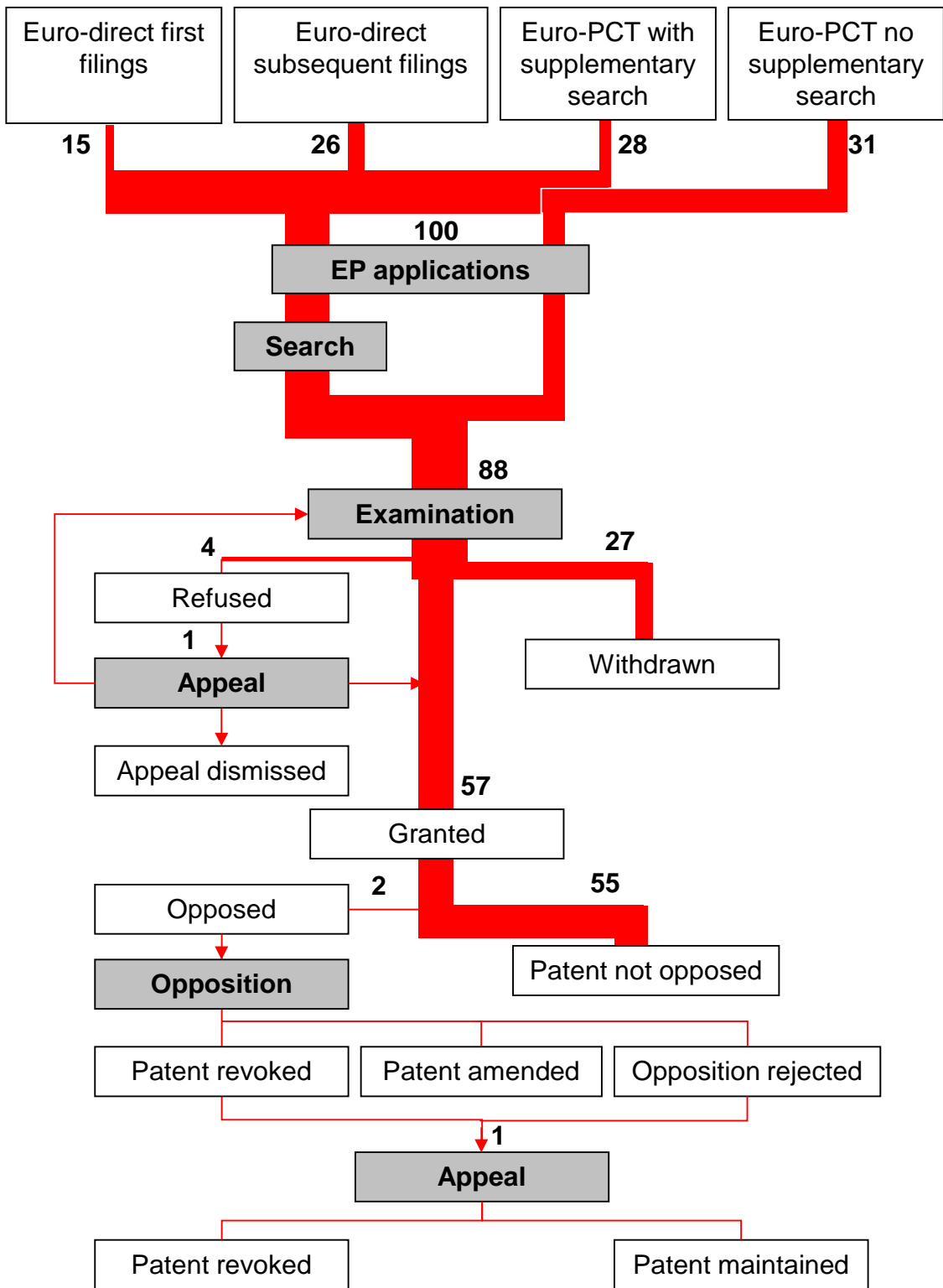
b) Other states

Similar working agreements have been signed with other EPC member states (CY, GR, IT, LT, LV, MC, MT, SM). The agreements with Monaco and Latvia entered into force on 1 October 2016 and 1 April 2017 respectively.

Applications are counted in the year of the subsequent applications. Counts for 2017 are still provisional.

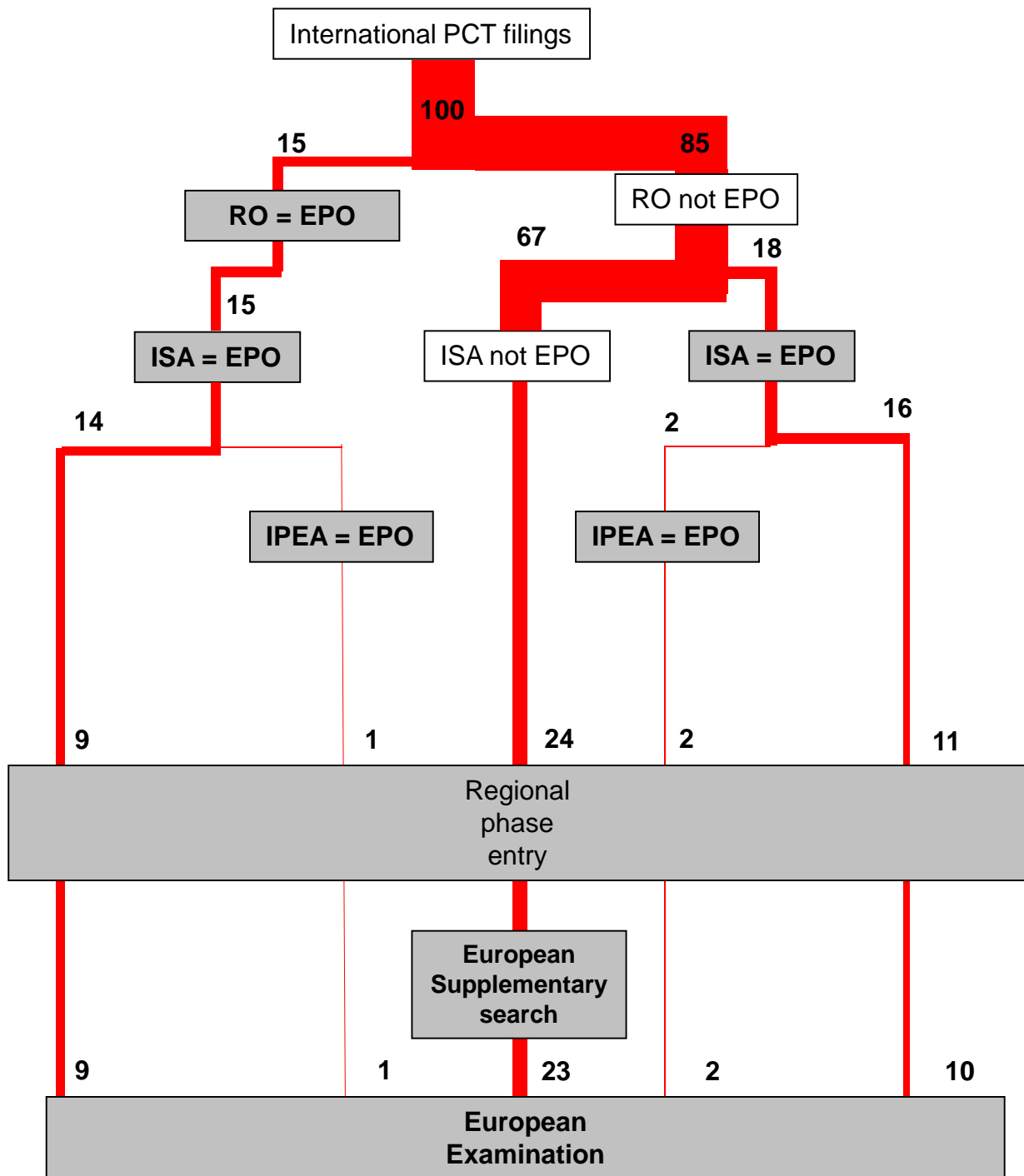
Year	Searched by the EPO	Not extended / Remained national		Extended as			
				EP		PCT	
2016	8 507	4 379	51%	1 356	16%	2 772	33%
2017	8 577	4 336	51%	1 453	17%	2 788	32%

European grant procedure in 2017



The figures illustrate the 2017 values of the parameters.

PCT International phase and the EPO activities in 2017



RO: Receiving Office
 ISA: International Search Authority
 IPEA: International Preliminary Examining Authority

The figures illustrate the 2017 values of the parameters.

ANNEX 5 GLOSSARY

Amended form: patent application (description, claims or drawings) has been amended before grant (Article 123 EPC) or during the opposition proceedings (Article 101 EPC) .

Appeal: *ex parte* appeal, *inter partes* appeal or a PCT protest as well as a legal appeal, a disciplinary appeal (Article 106 EPC).

Country of origin: country of residence of the first named applicant.

Direct European route (application): patent application filed under Article 75 EPC (also Euro-direct application).

Designation: indication of the contracting state(s) in which the protection for the invention is desired (Article 79 EPC).

EPC: European Patent Convention (38 contracting states as at 31 December 2016) enables the patent applicant, by means of a single procedure, to obtain a patent in some or all of the contracting states.

Euro-PCT route: a way to obtain a European patent by designating the EPO in a PCT application (Article 11 PCT).

Euro-PCT application – international phase (or Euro-PCT application or PCT international): a PCT application designating the EPO (Article 153(2) EPC).

Euro-PCT application – regional phase (or PCT regional): PCT application entering the European (or regional) phase once the applicant has fulfilled the conditions under Article 22 or 39 PCT, Article 153(3) and (4) and Rule 159 EPC.

Euro-PCT search (or PCT Chapter I): search carried out by the EPO acting as International Searching Authority for a Euro-PCT application in the international phase (Article 16 PCT).

European patent application: either a direct European applications or a PCT international application entering the regional phase during the reporting period.

European examination: on written request the EPO shall examine a European patent application (Article 94 EPC).

European first filings: a European application filed without claiming the priority of a previous application.

European search: search carried out by the EPO on a direct European application or a Euro-PCT application having entered the European phase (Article 92 EPC).

Ex parte case: appeal filed against a decision taken by an examining division where only one party is involved.

Final action: the last decision taken by the examining division in the examination procedure, either refusing the patent application or indicating the intention to grant a patent (Article 97 EPC).

First action: the first communication sent to the applicant in the examination procedure (Article 94(3), Rule 71(3) EPC).

Inter partes case: appeal filed against a decision taken by an opposition division, where two or more parties are involved.

International PCT filings: (see PCT applications)

International preliminary examination (or PCT Chapter II): non binding examination which can be requested for a PCT application (Article 31 PCT).

International Preliminary Examining Authority (IPEA): (22 authorities as of 01.07.2018) office with competence to carry out the international preliminary examination for a PCT application. It may be either a national office (AT, AU, BR, CA, CL, CN, EG, ES, FI, IL, IN, JP, KR, RU, SE, SG, TR, UA, US) or an intergovernmental organisation (EPO, Nordic PI, Visegrad PI) (Article 32 PCT, Article 152 EPC).

International Preliminary Examining Authority (IPEA.E): the EPO is the competent office, see International Preliminary Examining Authority (IPEA).

International search report with written opinion: search report drawn up by a PCT International Searching Authority (Article 18 PCT and Article 153(6) EPC).

International Searching Authority (ISA): (22 authorities as of 01.07.2018) office with competence to carry out the international search for a PCT application. It may be either a national office (AT, AU, BR, CA, CL, CN, EG, ES, FI, IL, IN, JP, KR, RU, SE, SG, TR, UA, US) or an intergovernmental organisation (EPO, Nordic PI, Visegrad PI), (Article 16 PCT, Article 152 EPC).

IPC (classification): all patent applications are classified in this internationally recognised classification system, which enables efficient searches to be carried out on all existing patent documents by technical fields.

Limitation-Revocation procedure: allows patentees to have in a centralised procedure either a granted European patent limited or the whole patent retroactively revoked for all contracting states (Article 105a EPC).

National application: filed at a national patent office according to a national Procedure or a PCT international application entering the national phase during the reporting period.

Opposition: under Articles 99 and 100 EPC, within nine months from the publication of the mention of the grant of a European patent in the European Patent Bulletin, any person may give notice to the EPO of opposition to the European patent granted, invoking lack of patentability, e.g. lack of novelty or inventive step (Articles 52-57 EPC); or lack of sufficiently clear and complete disclosure of invention (Article 83 EPC); or that the granted patent extends beyond the application as filed (Article 123(2) EPC).

Patent granted: when the examining division is of the opinion that the application and the invention to which it relates meet the requirements of the EPC, it shall decide to grant the European patent, Article 97(1) EPC. The grant will be effective from the date on which the European Patent Bulletin mentions the grant (Article 97(3) EPC).

PCT: Patent Cooperation Treaty, which encompassed 152 contracting states on 1 July 2017, enabling a patent applicant, by means of a single procedure, to file a patent application in some or all of the contracting states.

PCT application or filing: international application filed under the PCT (Article 3 PCT).

PCT international phase: part of the PCT procedure from filing until the end of the delay to enter national or regional phase (see PCT national phase and Euro-PCT application).

PCT international search: search carried out by the EPO acting as International Searching Authority.

PCT national phase: PCT application entering the national phase once the applicant has fulfilled the conditions under Article 22 or 39 PCT.

PCT route: one possible way of filing a patent application within any of the PCT contracting states.

Petition for review : request before the Enlarged Board of Appeal for review in specific cases the decision of the Board of Appeal (Article 112a EPC).

Processing time: time elapsing between the moments the examiner starts and completes a given phase of the procedure.

Protest: appeal filed by an applicant in the PCT procedure if he does not agree with the request to pay an additional fee following a decision on lack of unity of invention taken during either the international search or the international preliminary examination (international phase of the PCT) (Articles 17(3)(a) and 34(3)(a), Rules 40.2 and 68.3 PCT, Rule 158(3) EPC).

Publication: a patent application is published twice during the procedure:

- a European patent application is published as soon as possible after the expiry of a period of eighteen months from the date of filing or, if priority has been claimed, as from the date of priority (Article 93, Rules 67-69 EPC);
- at the same time as the Office publishes the mention of the grant of the European patent, the Office publishes a specification of the European patent containing the description, the claims and any drawings, Articles 98 and 103, Rule 73 EPC. An international patent application, where the Office is designated, is published under Article 21 PCT and is mentioned in the European Patent Bulletin (Article 153(3)-(6) EPC).

Refusal/rejection:

- the examination division will refuse a European patent application if it is of the opinion that such application or the invention to which it relates does not meet the requirements of the EPC, or if the applicant fails to observe a given time limit (Articles 97(2) EPC).
- the Office will reject an opposition or an appeal if it does not fulfil the necessary requirements (Articles 101 and 110 EPC).

Revocation: a patent is revoked after an opposition procedure if the subject-matter of the patent application is not patentable or if it does not disclose the invention in a manner sufficiently clear and complete for it to be carried out by a person skilled in the art or if the subject matter goes beyond the content of the application filed. The patent can also be revoked if the patent applicant fails to meet all formal requirements (Article 101(2) EPC).

Search report: a report of the results of the search drawn up by the search division if the patent application has been accorded a date of filing and is not deemed to be withdrawn (Article 92 EPC).

Supplementary European search: search carried out by the EPO on a Euro-PCT application entering the regional phase for which the ISA was not the EPO (Article 153(7) EPC).

Technical appeal: *ex parte* appeal, *inter partes* appeal or a PCT protest.

Withdrawal: this is the result of non compliance to the EPC rules, if any stage of the procedure the applicant does:

- not pay fees in due time
- not file a request for examination within the given time period (Article 94(2) EPC)
- not reply in due time to any invitation within the examination procedure (Article 94(4) EPC).

A patent application can be withdrawn by the applicant at any stage except where a third party proves to the Office that he has initiated proceedings concerning entitlement and then until such time as the Office resumes the proceedings for grant (Rule 14 EPC).