

**MULTILATERAL TRADE  
NEGOTIATIONS  
THE URUGUAY ROUND**

**RESTRICTED**  
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**Special Distribution**

**Group of Negotiations on Goods (GATT)**

**Negotiating Group on Trade-Related Aspects  
of Intellectual Property Rights, including  
Trade in Counterfeit Goods**

**DATA ON MAINTENANCE OF PATENTS THROUGH PAYMENT OF MAINTENANCE FEES**

**Note by the Secretariat**

1. At its meeting of 11-13 September 1989, the Negotiating Group requested the secretariat to put together data available from official sources on the maintenance of patents through payment of maintenance fees. The data that the secretariat has been able to put together in response to this request are contained in the tables and figures attached to this note.
2. When examining the data annexed, it should be borne in mind that different countries have different policies in relation to requirements to pay fees as a condition of the maintenance of patents. Most countries require the payment of such fees. But a few do not or have introduced this requirement so recently that little experience with the operation of the system is available as yet; such countries include Argentina, Canada, Colombia, Ghana, Peru, Tanzania, United States and Zaire. The amount of such fees differs considerably as does the starting date in relation to the year of the life of the patent at which they become payable. The period covered by each maintenance fee is one year in most countries, but there are countries where the payment, especially the first payment, covers a longer period. In some countries, but not in others, maintenance fees are progressive, i.e. the amount payable rises according to the age of the patent. Detailed information on the regimes regarding maintenance fees in different countries can be found in WIPO document HL/CE/IV/INF/2 Rev.1.
3. Table I, which contains data derived from WIPO sources, shows for 17 countries the patents still in force at the end of 1987 broken down according to the year in which they were granted, together with the number of patents granted in those years. The countries covered in the Table are those operating a maintenance fee system for which series of comparable figures are available. When examining the Table, it should be borne in mind that the information relates back to the date of grant of the patent, whereas many countries have patent terms counted from the filing date of the application. Of the countries in the Table, only Bangladesh, Portugal and Sri Lanka count their patent terms from the date of grant of the patent.

4. Tables II, IV, V and VII show the lifetime of, respectively, national patents in the Federal Republic of Germany, national patents in Switzerland, patents granted under the European Patent Convention (EPC) in Switzerland and national patents in the Netherlands. Table III complements Table II by showing the various reasons for the cancellation of patents in the Federal Republic of Germany in several recent years. It will be noted that virtually all the patents cancelled before the expiry of the full term were cancelled because of failure to pay the annual renewal fee. These three countries and the EPC have a patent term of 20 years counted from the date of filing of the application (day after filing for Federal Republic of Germany). It should be noted that the information concerning the Netherlands in Table VII (and also in Table VI, referred to below) relates back to the date of grant, rather than of application for the patent.

5. Table VI shows the age distribution of patents in force in the Netherlands at the end of 1986. Table VIII shows similar information for Austria as of 30 June 1987. Austria has a patent term of 18 years counted from the publication date of the examined application (but not beyond 20 years from the filing date of the application).

6. Table IX shows the results of a survey in Japan of the payment of maintenance fees, based on representative samples of patents. It should be noted that this information is not very recent, having been published in the Japanese Report of Industrial Property Statistics of 1979.

7. Tables X and XI show the age distribution of the patents for which renewal fees were paid in France in 1988 and in India in 1987. Table XII shows the proportion of patents applied for in Australia between 1968 and 1972 that remained in force for the full term. It should be noted that in each of these three tables the total in relation to which the number of patents maintained can be compared is the number of applications for patents filed, not the number of patents granted as in the other tables.

8. The only information that the secretariat has been able to identify which shows the pattern of maintenance of patents broken down by industry sectors is that contained in a recent article by Ariel Pakes and Margaret Simpson published in the Brookings Papers earlier this year. Although this is not in itself an official source, the information is reproduced in this note, in Figures I and II, since it is based on statistics obtained from the Finnish and Norwegian Patent Offices and these two Offices have agreed to its reproduction in this note. It should be noted that this information concerns patents applied for more than 10 years ago, since it only reflects the situation regarding the pattern of maintenance of patents between their tenth and eighteenth years after application.

9. In order to limit the demands on the processing and translation services of the secretariat, the tables and figures are being reproduced in their original language or languages only (or in English where the original language is not a GATT language).

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TABLE I

Number of Patents Granted and Still in Force on 31 December 1987  
Broken Down According to Year of Granting

Nombre de brevets délivrés et encore en vigueur au 31 décembre 1987  
répartis selon l'année de délivrance

"G" = Number of patents granted  
Nombre de brevets délivrés

"M" = Number of patents in force  
Nombre de brevets encore en vigueur

Country Pays		Before 1977 Avant 1977	TOTAL											
			1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	
Australia <sup>1</sup> Australie	G M						19602	5731 1376	7247 3973	7252 5061	7105 5481	7738 6785	10644 10496	52774
Bangladesh	G M	163	34	33	36	58	61	68	126 72	113 113	118 118	107 107	89 89	952
Belgium <sup>2</sup> Belgique	G M	19709	12446 3854	10594 3698	7669 2968	5918 2718	4690 2447	3826 1810	3031 1875	2754 1854	1976 1835	2154 2152	572 572	45492
Denmark Danemark	G M	1262	2097 403	2130 440	2141 583	1645 546	1439 495	1530 686	1155 599	1089 661	1054 731	958 877	1129 1103	8386
Finland Finlande	G M	226	1446 130	1594 431	1719 536	1906 679	2050 866	2057 1040	2224 1315	2204 1532	2161 1798	2175 1969	2672 2605	13127
France <sup>2</sup> France	G M	59072	31045 12600	30530 13362	24618 13134	28360 12455	21477 12221	23944 13317	25043 13808	23666 14658	24195 15021	19082 16058	18003 18003	213799
Germany, Fed. Rep. Allemagne, Rep. fed.	G M	9929	21749 5077	23514 6844	22534 8359	20188 9452	13429 7519	16306 8849	20913 13598	21758 16500	19378 17249	21546 19961	23510 22327	145664
Ireland Irlande	G M	992	1254 331	1292 317	1271 396	1431 443	1340 471	1083 522	1020 582	1152 827	1042 863	1433 1338	1036 1036	8118
Japan Japon	G M	74809	52608 26672	45504 26301	44104 29638	46106 33565	50904 39196	50601 43112	54701 48574	61800 56114	50100 50100	59900 59900	62400 62400	550381
Malta Malte	G M		2		3	6	2	24 10	30 9	20 17	13 12	12 12	73	
Netherlands Pays Bas	G M	1198	3692 565	3325 730	3458 1053	3683 1472	5484 2592	6653 3861	8361 5622	10257 7882	11967 9461	13954 11862	12570 11378	57676
Norway Norvège	G M	1445	2173 481	1925 521	1937 597	2119 786	1847 795	1849 900	1911 1071	1931 1296	2165 1687	1818 1543	2145 2045	13167
Portugal Portugal	G M						1588 692	1213 779	1200 817	637 476	960 958	4039 4039	1724 1724	9486

Country Pays	Before 1977 Avant 1977	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	TOTAL
Republic of Korea République de Corée	G M	274 62	427 36	1419 601	1632 864	1808 1097	2609 1734	2433 1892	2365 2047	2268 2260	1894 1893	2330 2326	14905
Sri Lanka Sri Lanka	G M			155	14	88	82 43	105 58	112 77	97 97	124 124	656	
Switzerland Suisse	G M	22555 12588	6222	704 234	6614 2379	5961 2622	8289 4031	9627 5361	11768 7427	13977 10105	14540 11776	15263 13463	13401 12721
Thailand Thailande	G M					1	20 12	20 12	45 38	52 44	71 68	175	

<sup>1</sup>The figure for 1981 also includes the figures for earlier years / Le chiffre de 1981 comprend également les chiffres des années précédentes.

<sup>2</sup>Patents granted on the basis of national applications (not including e.g. patents granted on the basis of applications filed under the European Patent Convention and Patent Cooperation Treaty) / Brevets délivrés sur la base de demandes de brevet nationaux (brevet délivrés, par exemple, sur la base de demandes de brevet européen déposées en vertu de la Convention sur le brevet européen, ou, sur la base de demandes internationales de brevet en vertu du Traité de Coopération en matière de brevets (PCT) non compris).

Source:

- 100 Years of Industrial Property Statistics, WIPO, 1983 / 100 Ans de Statistiques de Propriété Industrielle, OMPI, 1983
- Industrial Property Statistics, 1983-7, WIPO / Statistiques de Propriété Industrielle, OMPI, 1983-7

TABLE II  
Lifetime of National Patents in Federal Republic of Germany<sup>1</sup>

Year Number of Appl. 3/12/88	Patents Granted until 3/12/88 1988 <sup>2</sup>	Number of cancellations during the year <sup>3</sup>														Patents still in force on 31/12/88	%							
		68	69	70.	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88		
1968	65422	19260	2																				6	7
1969	66626	21289	10																				4	0.0
1970	66132	21273	17																				5	0.0
1971	65756	22057	42																				141	0.7
1972	67354	22274	85																				4.915	22.3
1973	66223	22980	142																				1204	1.316
1974	63545	22140	226																				1132	1.102
1975	60095	21935	410																				1110	1.119
1976	61705	21961	703																				1408	1.403
1977	60401	21167	1210																				154	1.110
1978	58492	19649	1715																				1257	1.248
1979	55184	17233	2048																				1227	1.210
1980	51345	14263	1513																				1359	1.363
1981	49002	11976	1210																				1149	1.148
1982	47826	10414	1327																				110	1.103
1983	47103	9197	1667																				119	1.198
1984	45209	7648	2012																				1406	1.406
1985	45213	5783	2168																				1198	1.198
1986	43493	3653	2689																				1204	1.204
1987	41848	1058	1050																				1316	1.316
1988	41745	8	8																				141	1.411
TOTAL		20254																					20530	145932

The average life of patents applied for in 1968: 12 years and 11 months.

<sup>1</sup>Counted from the day of application. Not including patents granted under the European Patent Convention.

<sup>2</sup>Including 113 restorations.

<sup>3</sup>Maintenance fees become payable from third year.

Source: Blatt für Patent-, Muster und Zeichenwesen, 1989, Heft 3.

TABLE III

Federal Republic of Germany: Reasons for Cancellation of Patents, 1983-88<sup>1</sup>

Reductions in the stock of patents due to:					
Year	Renunciations	Non-payment of annual fee	Lapse of time	Invalidation	Total
1983	546	17468	2386	16	20416
1984	432	18319	2579	10	21340
1985	423	15289	2802	14	18528
1986	470	14680	3214	10	18374
1987	413	15866	3551	12	19842
1988	412	16357	3754	7	20530

<sup>1</sup>Not including patents granted under the European Patent Convention

Source: Blatt für Patent-, Muster- und Zeichenwesen, 1989, Heft 3

TABLE IV  
SWITZERLAND

Lebensdauer der nationalen Erfindungspatente / Durée d'existence des brevets nationaux

**Anmerkungen:** 1. Die Zahlen umfassen sowohl Haupt- als auch Zusatzpatente. Nach dem am 1.1.1978 in Kraft getretenen neuen Patentrecht kann nicht mehr um Zusatzpatente nachgesucht werden. 2. Bei den letzten Patentanträgen wird noch eine Erhöhung der Zahl der erteilten sowie aufrechthaltenden Patente erwartet, weil noch Patentansprüche dieser Jahrgänge hängen sind.

**Remarques:** Ces chiffres se composent aussi bien des brevets principaux que des brevets additionnels. Après l'entrée en vigueur le 1. 1. 1978 du nouveau droit sur les brevets, plus aucun brevet additionnel ne peut être déemandé. 2. Le nombre des brevets délivrés et maintenus augmente encore pour les dernières années de début du fait que des demandes de brevet da ces autes sont encore pendantes.

Source: Feuille Suisse de Brevets, Dessins et Marques, 1989 (3)

TABLE V

Lebensdauer der europäischen Patente mit Wirkung für die Schweiz und Liechtenstein  
Durée d'existence des brevets européens ayant effet en Suisse et au Liechtenstein

Anmeldungsjahr Année de dépôt de la demande	Europäische Patentanmeldungen Demandes de brevet européen	Euro-PCT-Anmeldungen Demandes Euro-PCT	Total Anmeldungen Total des demandes	Bis Ende 1988 erteilte europäische Patente Brevets européens délivrés jusqu'à fin 1988	davon waren am 31. Dezember des Patentjahres noch nicht erloschen:										Ende 1988 in Kraft stehende europäische Patente Brevets européens en vigueur à fin 1988								
					3. 3 <sup>e</sup>		4. 4 <sup>e</sup>		5. 5 <sup>e</sup>		6. 6 <sup>e</sup>		7. 7 <sup>e</sup>		8. 8 <sup>e</sup>		9. 9 <sup>e</sup>						
					absol.	%	absol.	%	absol.	%	absol.	%	absol.	%	absol.	%	absol.	%					
1978	2070	463	2533	1533	1533	100	1515	99	1447	94	1313	86	1157	75	1001	65	859	56	742	48	650	43	660
1979	6230	820	7050	4768	4759	100	4636	97	4361	91	3926	82	3524	74	2967	62	2637	55	2336	49			2236
1980	10097	1245	11342	7260	7240	100	7040	97	6547	90	5973	82	5092	70	4532	62	3927	54					3927
1981	12786	1888	14674	9065	9049	100	8813	97	8296	92	7172	79	6419	71	5687	63							5687
1982	13760	2290	16050	9744	9714	100	9504	98	8550	88	7661	79	6807	70									6807
1983	15241	2693	17934	9506	9494	100	9034	95	8241	87	7296	77											7296
1984	17941	3290	21231	8143	8084	99	7668	94	6780	83													6780
1985	18175	4869	23044	3786	3740	99	3231	85															3231
1985	19806	5942	25748	828	760	92																	760
1987	21323	6828	28151	17																			16
1988	23594*	9671	33265*																				
*Schätzung/Estimation																		Total	37500				

Source: Feuille Suisse de Brevets, Dessins et Marques, 1989 (3)

TABLE VI

Netherlands: National Patents Granted and Still in Force on 31 December 1986  
Broken Down According to Year of Coming into Force, 1969-86

Jaar, waarin het octrooi begon te werken	1969	1970	1971	1972	1973	1974	1975	1976	1977
Aantal in werking getreden octrooien in het jaar	2.152	2.508	2.714	2.886	3.268	3.386	3.845	3.589	3.692
Aantal hoofdoctrooien nog van kracht op: 31.12.1986	9	17	46	117	182	301	463	516	965
Aantal aanvullingsoctrooien nog van kracht op: 31.12.1986		-	-	-	4	1	5	3	3
Totaal nog van kracht op 31.12.1986	9	17	46	117	186	302	468	519	968
Iopende in de periode van jaren	17-18	16-17	15-16	14-15	13-14	12-13	11-12	10-11	9-10
Percent t.o.v. het aantal in het jaar in werking getreden octrooien	0,4	0,7	1,7	4,1	5,7	8,9	12,2	14,5	26,2

TABLE VIINetherlands: Lifetime of National Patents Granted 1973-86

Jaar van verlening	1973	1974	1975	1976	1977	1978	1979
Percent wegens niet-betaling van een jaartaks vervallen octrooien in het (kalender)-jaar van verlening.	2,8	1,5	2,2	2,8	2,0	1,7	2,1
idem, in het jaar van verlening + 1	6,8	7,9	10,0	8,0	7,2	6,9	6,5
idem, in het jaar van verlening + 2	9,1	11,3	11,0	10,7	9,5	10,3	10,5
idem, in het jaar van verlening + 3	11,7	10,2	10,0	10,6	9,9	10,1	9,9
idem, in het jaar van verlening + 4	9,9	9,1	9,3	8,9	9,0	9,5	9,5
idem, in het jaar van verlening + 5	7,7	8,5	7,5	7,5	9,0	8,4	8,8
idem, in het jaar van verlening + 6	7,4	7,6	6,2	7,5	7,8	8,2	6,9
idem, in het jaar van verlening + 7	6,3	6,2	5,4	7,3	7,7	6,7	5,6
idem, in het jaar van verlening + 8	6,3	5,7	5,5	6,5	4,5	4,7	
idem, in het jaar van verlening + 9	5,4	4,5	5,1	4,4	5,0		
idem, in het jaar van verlening + 10	4,3	4,1	4,0	3,1			
idem, in het jaar van verlening + 11	2,3	2,2	1,9				
idem, in het jaar van verlening + 12	1,9	1,5					
idem, in het jaar van verlening + 13	1,6						
Totaal van vervallen octrooien wegens niet betalen van een jaartaks	83,5	80,3	78,1	77,3	71,6	66,5	59,8
Percent van om andere redenen vervallen octrooien*	10,8	10,8	9,7	8,2	2,2	4,7	2,3
Percent octrooien, nog van kracht op 31.12.1986	5,7	8,9	12,2	14,5	26,2	28,8	37,9
Totaal	100	100	100	100	100	100	100

\* in hoofdzaak wegens het bereiken van de maximale beschermingsduur vóór 31.12.1986.

Opm.: aanvullingsoctrooien (waarvoor slechts de verleningstaks is verschuldigd) zijn niet meegerekend.

Source: Annual Report 1986 Netherlands Patent Office

Excludes patents granted under the European Patent Convention

1978	1979	1980	1981	1982	1983	1984	1985	1986	Year in which patent came into force
3.325	3.458	3.324	3.058	3.111	2.460	2.476	2.145	2.119	Number of patents coming into force during the year ,
947	1.298	1.540	1.578	1.938	1.736	1.949	1.918	2.056	Number of main patents still in force on 31.12.1986
10	11	9	14	11	16	19	18	12	Number of patents of addition still in force on 31.12.1986
957	1.309	1.549	1.592	1.949	1.752	1.968	1.936	2.068	Total still in force on 31.12.1986 ,
8-9	7-8	6-7	5-6	4-5	3-4	2-3	1-2	<1	in ... th year of period of validity
28,8	37,9	46,6	52,1	62,6	71,2	79,5	90,3	97,6	Percentage of total number of patents which came into force during the year

Excludes patents granted under the European Patent Convention

1980	1981	1982	1983	1984	1985	1986	Year of grant
1,3	1,8	1,7	1,9	1,7	1,8	1,9	Percentage of patents lapsed in the (calendar) year of grants by not paying the relevant annual fee
8,5	8,5	8,4	8,3	7,8	7,1		the same in the year of grant + 1
10,6	10,5	10,2	9,4	10,2			the same in the year of grant + 2
9,4	9,2	8,4	8,5				the same in the year of grant + 3
10,0	8,9	7,7					the same in the year of grant + 4
6,3	7,6						the same in the year of grant + 5
6,1							the same in the year of grant + 6
							the same in the year of grant + 7
							the same in the year of grant + 8
							the same in the year of grant + 9
							the same in the year of grant + 10
							the same in the year of grant + 11
							the same in the year of grant + 12
							the same in the year of grant + 13
52,2	46,6	36,4	28,1	19,7	8,9	1,9	Total lapsed for failure to pay the annual fee
1,2	1,3	1,0	0,7	0,8	0,8	0,5	Percentage of patents lapsed otherwise*
46,6	52,1	62,6	71,2	79,5	90,3	97,6	Percentage of patents still in force on 31.12.1986
100	100	100	100	100	100	100	Total

\* mainly: end of maximum term of protection before 31.12.1986.

Remark: patents of addition (for which only the first tax is due) are excluded.

TABLE VIII

AUSTRIA: PATENTS GRANTED AND STILL IN FORCE ON 30 JUNE 1987,  
BROKEN DOWN ACCORDING TO THE STARTING YEAR OF THEIR TERM

Starting Year of Term	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	Total
Patents Granted	8761	8690	8973	7763	7992	7018	6412	6641	6487	6500	5972	5480	4061	3815	2571	2559	2643		
Patents Still in Force	447	587	748	871	1168	1378	1512	1777	1709	2340	2325	2309	2177	2448	2368	2036	2259	2642	31101

<sup>1</sup> Not including patents granted under the European Patent Convention.

Source:

- Statistische Übersichten über Geschäftsumfang und Geschäftstätigkeit des Österreichischen Patentamtes in Patent- und Markenangelegenheiten 1945 bis 1987.  
Statistik des Österreichischen Muster- und Modellwesens im Jahre 1987.

- 100 Years of Industrial Property Statistics, WIPO 1983 / 100 Ans de Statistiques de Propriétés Industrielles, OMPI, 1983.
- Industrial Property Statistics 1983-7, WIPO / Statistiques de Propriété Industrielle 1983-7, OMPI.

TABLE IX

Japan: Presumed remaining ratio of patents<sup>1</sup>

Year of Term	Annual fees paid (%)
1-3 <sup>2</sup>	100
4	86.1
5	77.3
6	68.3
7	64.4
8	62.7
9	56.0
10	51.9
11	47.8
12	41.4
13	39.6
14	36.9
15	36.1

<sup>1</sup>Average percentage of patents maintained by payment of annual fees in each year of their term. Based on a survey of representative samples of patents coming into existence in each of several years.

<sup>2</sup>The duration of patents is counted from the publication date of the examined application, while the first annual fee covers the period up to the third anniversary of that date.

Source: Japanese Report of Industrial Property Statistics, 1979.

TABLE X

France: Brevets et certificats d'utilité nationaux  
présumés en vigueur au 31 décembre 1988<sup>1</sup>.

<u>ANNEE DE DEPOT</u>	<u>Nombre de dépôts</u>	<u>Nombre de brevets nationaux en vigueur<sup>2</sup></u>	<u>Quantième de l'annuité</u>	<u>Pourcentage de brevets abandonnés par rapport au nombre de dépôts de l'année</u>
1988	17248	17248	1ère	
1987	18003	16776	2e	12.81
1986	18045	14419	3e	20.09
1985	19030	13890	4e	27.00
1984	19731	13499	5e	31.58
1983	20653	12666	6e	38.67
1982	21000	11667	7e	48.71
1981	23981	11162	8e	53.07
1980	27168	11217	9e	58.71
1979	31129	11745	10e	62.27
1978	35763	12038	11e	66.34
1977	38111	11058	12e	71.24
1976	38232	9835	13e	74.28
1975	38777	8278	14e	78.65
1974	41793	7284	15e	82.57
1973	45163	6610	16e	85.36
1972	45159	5628	17e	87.54
1971	45803	4634	18e	89.88
1970	45200	3595	19e	92.05
1969	43501	2690	20e	93.82
TOTAL	634601	204828		

<sup>1</sup> Non compris les certificats d'addition

<sup>2</sup> Statistique établie à partir des paiements d'annuités

TABLE XI

India: Number of patents for which renewal fees were paid in 1987, broken down according to their year of application<sup>1</sup>, and number of applications in the years 1974 to 1985<sup>2</sup>

Year of Application	Number of Applications	Renewal Fees Paid in 1987
1974	3533	417
1975	3039	421
1976	3093	573
1977	2888	684
1978	2972	797
1979	2910	987
1980	3024	1134
1981	2901	1329
1982	3076	1732
1983		1729
1984	3294	1760
1985	3475	1765

<sup>1</sup>Filing date of the complete specification

<sup>2</sup>Renewal fees are due on the second, third, fourth, etc. anniversary of the filing date of the complete specification.

- Source:- Patents. Sixteenth Annual Report of the Controller of Patents, Designs and Trademarks (1987-1988).  
- 100 Years of Industrial Property Statistics, WIPO 1983  
100 Ans de Statistiques de Propriété Industrielle, OMPI 1983  
- Industrial Property Statistics 1983-5, WIPO  
Statistiques de Propriété Industrielle 1983-5, OMPI

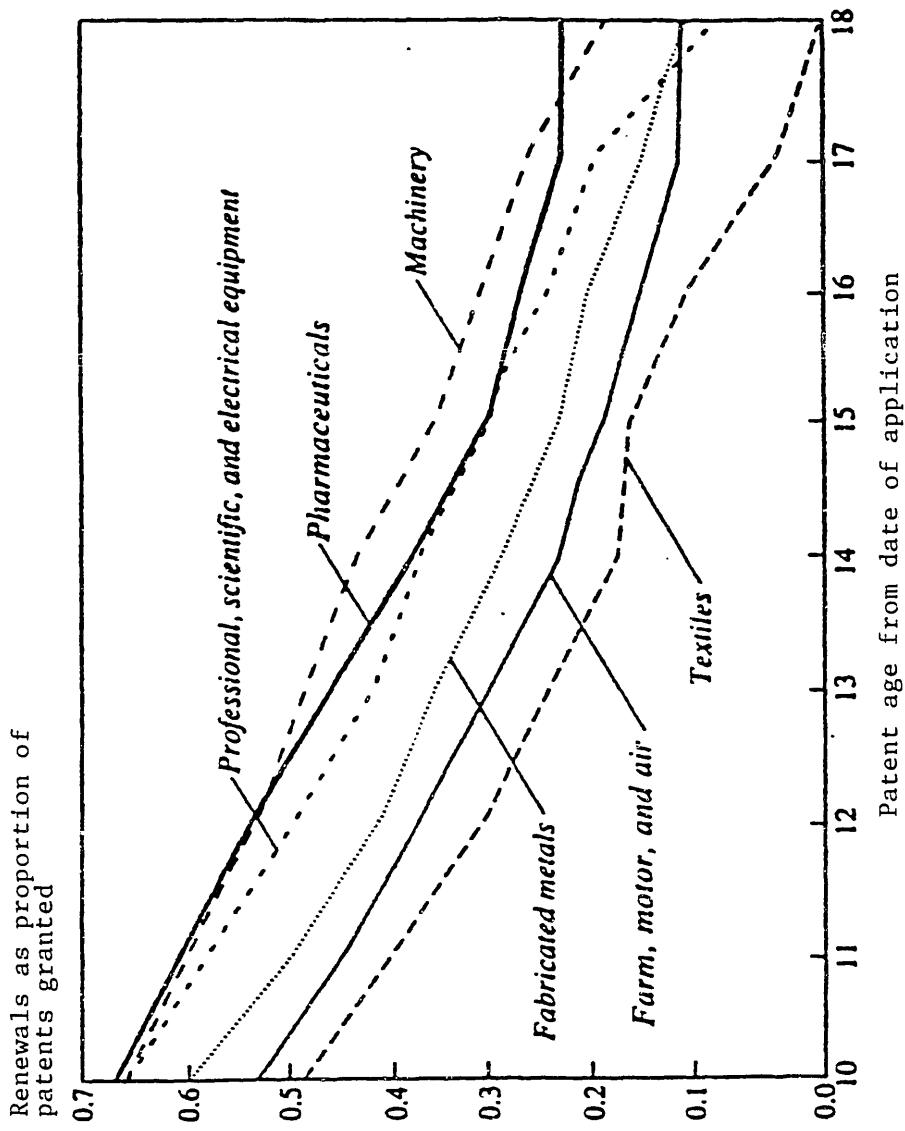
TABLE XII

Australia: Patent Applications 1968-1972  
in respect of which Patents in Force for Full Term<sup>1</sup>

Year	No. Filed	Final Year of Patent	No. in Force until Expiry	% of Filings of Patent Term
1968	14100	1984	1731	12.28
1969	15106	1985	1554	10.29
1970	13945	1986	1797	12.89
1971	13577	1986	1814	13.36
1972	13078	1988	1811	13.85

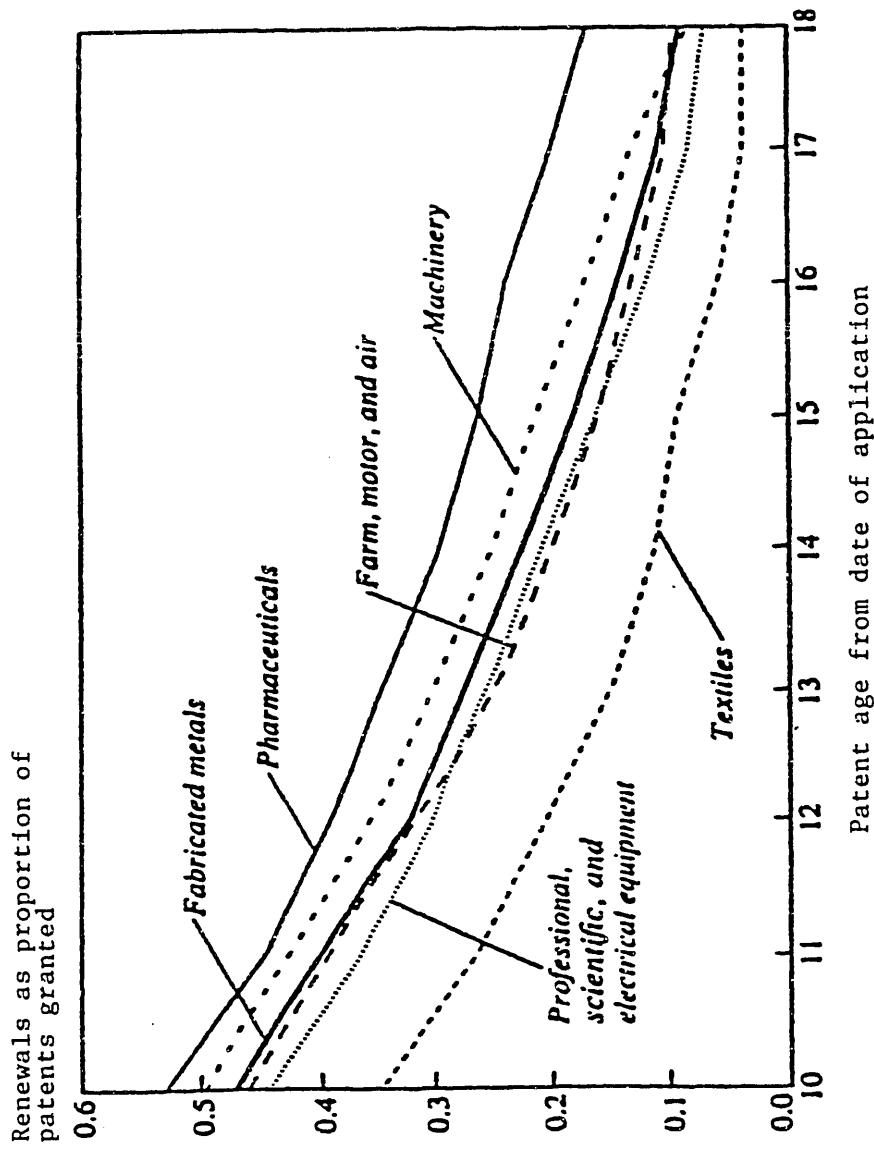
<sup>1</sup>16 years from the date of lodging of the complete specification.

Source: Information provided by the Australian Patent Office

FIGURE IIndustry Differences in Patent Renewal Curves, FinlandNote:

The graph is based on information obtained from the Finnish Patent Office on patent maintenance fees paid until 1987, in respect of patents applied for between 1969 and 1977, between the 10th and 18th years of the term of these patents.

Source: Ariel Pakes and Margaret Simpson, "Patent Renewal Data", Brookings Papers: Microeconomics 1989.

FIGURE IIIndustry Differences in Patent Renewal Curves, NorwayNote:

The graph is based on information obtained from the Norwegian Patent Office on patent maintenance fees paid until 1987, in respect of patents applied for between 1962 and 1977, between the 10th and 18th years of the term of these patents.

Source: Ariel Pakes and Margaret Simpson, "Patent Renewal Data", Brookings Papers: Microeconomics 1989.