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PATENT APPLICATIONS AND THE PEFORMANCE OF THE U.S. PATENT AND TRADEMARK OFFICE

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Sitting at the heart of the United States patent system is the United States Patent and Trademark Office ("USPTO"). Accordingly, how well the USPTO does its job greatly impacts the health of the patent system. To measure this impact, many focus on the USPTO's performance in two areas: (a) issuing "quality" patents—patents whose claims meet the standards for patent protection and (b) issuing these quality patents in a timely and efficient manner.

This paper reports data and analyses to facilitate answering these questions. The reported data were obtained from two sources. The first is the Workload Tables from the USPTO annual reports, called the "USPTO Performance and Accountability Reports," provided to the President, Congress, and public. The second is data received from the USPTO in response to Freedom of Information Act ("FOIA") requests. From these two data sources, information such as the number of applications filed per year, the type of applications being filed and prosecuted, the pendency of these applications, and their disposition, including the number of them issued as patents, was obtained or determined. This paper is a continuation of the work of two of the authors (Cecil Quillen and Ogden Webster) reporting on earlier versions of this data set and published in four previous articles in the *Federal Circuit Bar Journal* in 2001, 2002, 2006, and 2009.

This paper presents data and analyses for the period from 1996 to 2012 in three parts—the number, types and disposition of patent applications being examined by the USPTO (the USPTO's "input"); the number of applications allowed and patents issued by the USPTO (the USPTO's "output"); and the number of pending applications and the average pendency for an application (the "difference" or commonly referred to as the USPTO's "backlog"). Corresponding data and analyses for earlier periods can be found in the previously mentioned *Federal Circuit Bar Journal* articles.

I. USPTO's Input - Applications Being Filed

Figure 1 reports the number of utility, plant, and reissue ("UPR") patent applications filed for each year from 1996 to 2012. These data are calculated from the Summary of Patent Examining Activities from the Workload Tables of the

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Performance and Accountability Reports for 2012 and earlier years. Nearly identical values are reported in the FOIA Responses.

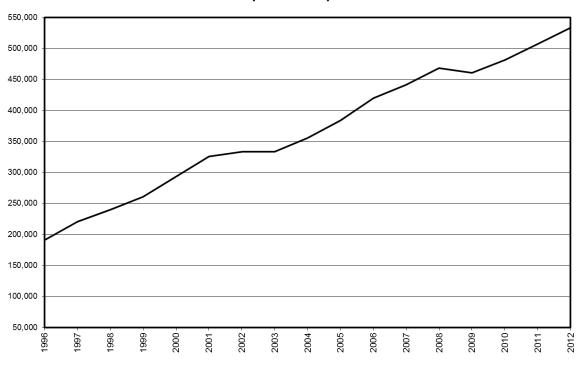


Fig. 1 - UPR Patent Applications Filed (1996-2012)

The number of applications filed increased by 179% from 1996 to 2012 (from 191,016 to 533,390 applications). Since 1996, the number of applications filed has decreased in only two years—from 2002 to 2003 (a negligible decrease from 333,688 to 333,452 applications) and 2008 to 2009 (a similarly negligible decrease from 468,669 to 460,924 applications).

Figure 2, below, shows the number of applications filed for a given year in three categories, Original Applications and Divisionals, Refiled Continuing Applications, and Total Applications filed.. The FOIA information obtained from the USPTO enables the determination of whether the reported filed application is an Original Application—an application being filed with the USPTO for the first time. An application can also be identified as a divisional of a previously filed application. An application can also be what we define as a "Refiled Continuing Application" in that the filing is continuing from a previously filed application. These definitions are employed in the earlier studies published in the Federal Circuit Bar Journal. Refiled Continuing Applications include Continuations, File Wrapper Continuations ("FWCs"), Continued Prosecution Applications ("CPAs"), Requests for Contined Examination ("RCEs"), and Continuation-In-Part Applications ("CIPs"). Rule 129 filings are included in the count of Continuation applications.

550,000 500,000 **Total Applications** 450,000 400,000 350,000 **Original Applications** + Divisions 300,000 250,000 200.000 Refiled Continuing Applications (Continuations, RCEs, CPAs, FWC, CIPs) 150,000 100,000 50,000 966 866 666 2000 2003 1997 2001

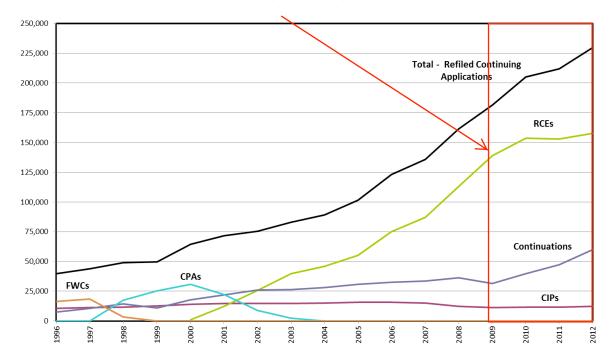
Fig. 2 - UPR Patent Applications (1996 - 2012)

Figure 2 provides a more complete picture of the contiuing rise of applications. The number of Original and Divisionals Applications filed, a little over 300,000 in 2007, has remained essentially steady ever since. In contrast, the number of Refiled Continuing Applications filed per year has risen dramatically, jumping from 135,796 in 2007 to 229,998 in 2012, a 69% increase, and 480% from 1996 to 2012 (from 39,646 to 229,998).

The Refiled Continuing Applications line in Figure 2 is further broken down in Figure 3 below which reports the number of Continuations, RCEs, FWCs, CPAs, and CIPs in a given year from 1996 to 2012, as well as the total number of Refiled Continuing Applications for those years.

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Fig. 3 - Refiled Continuing Applications (Continuations, RCEs, CPAs, FWCs, CIPs) (1996-2012)



Looking more closely at the data in Figure 3, almost all of the increase in Refiled Continuing Applications until 2010 is attributable to RCEs, which first became available in 2000. Continuations increased from 7,570 to 59,819 over the seventeen-year period shown. CIPs increased from 10,633 to 12,260 over this period. In contrast, RCEs (and their predecessor CPAs and FWCs) have increased from 16,427 FWCs in 1996 to 157,908 RCEs in 2012 (an increase of 861%). RCEs were essentially level after 2010, but the total number of Refiled Continuing Applications continued to grow because of the growth of Continuation Applications after 2009. For 2012, RCEs made up 69% of all Refiled Continuing Applications and 30% of all applications filed. Refiled Continuing Applications comprised 43% of all filed applications in 2012.

Another interesting comparison is of the ratio of FWCs or CPAs to all filed applications for a given year compared to the ratio of RCEs (the successor to CPAs and FWCs) to all filed applications for a given year. The result shows that RCEs make up a much larger percentage of applications filed than CPAs or FWCs ever did. For example, FWCs made up 9% of all applications filed in 1998 and CPAs made up 10% of all applications filed in 1999. In contrast, RCEs made up 30% of all applications filed in 2012. Even adding other continuing applications filed in 1999 to CPAs, such as Continuations and CIPs, they still made up a smaller percentage of all applications (19%) than compared to RCEs in recent years.

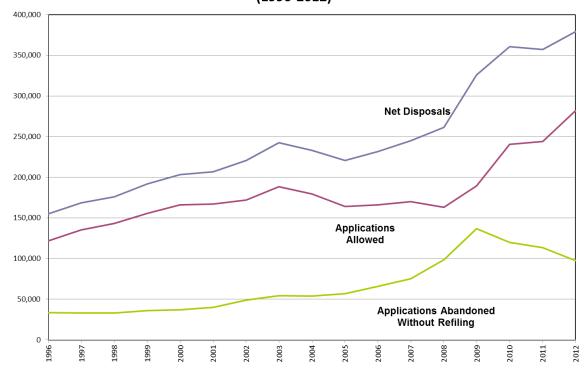


Fig. 4 - Application Disposals (1996-2012)

Figure 4 shows the composition of Application Disposals for 1996 - 2012. They have consistently grown since 1996, except for the 2003-2005 period, reaching 379,051 in 2012. However the growth in Application Disposals since 2009 has been entirely caused by Application Allowances that grew from 189,120 in 2009 to 281,609 in 2012, while Applications Abandoned Without Refiling fell from 136,542 in 2009 to 97,442 in 2012.

Figure 5, below, shows the disposition of Abandoned Applications. The total number of Abandoned Applications peaked in 2010 and then declined slightly in 2011 and 2012. From 1966 to 2009 the number of Abandoned Applications that were Refiled and those that were Not Refiled closely tracked each other. But after 2009 the number Refiled applications continued to grow to above 150,000 in 2012 while the number that were Not Refiled declined to fewer than 100,000.

(1996 - 2012)

Total Abandoned

Refiled

150,000

Not Refiled

Fig. 5 - Abandoned Applications (1996 - 2012)

II. USPTO Output - Applications Being Allowed and Patents Being Issued

Data regarding Application Allowances and Patent Issuance was obtained from the Workload Tables from USPTO's Annual Performance Reports. Figure 6, below, reports these data indicating both the number of applications allowed in a given year and the number of patents issued in a given year.

300 000 275.000 250 000 Applications Allowed 225.000 200.000 Patents Issued 175.000 150,000 125,000 100,000 75,000 50,000 25,000 966 2002 6661 2001

Fig. 6 - UPR Applications Allowed (1996 - 2012) UPR Patents Issued (1996 - 2012)

Since 1996, there have been two periods of notable increase in the number of patent applications allowed and patents issued. From 1996 through 2001, the number of patents issued increased 62% (from 105,529 to 170,638 issued patents). And from 2008 to 2012, the number of patents issued increased 59% (from 156,540 to 248,305 issued patents). In contrast, from 2001 to 2008, the number of patents issued actually decreased by 8% (from 170,638 to 156,540 issued patents), and the number of applications allowed decreased from 166,868 to 162,872.

Figure 7, below, reports Application Allowance Rates under various circumstances from 1996 to 2012. The Uncorrected UPR Allowance Rate and the UPR Allowance Rate Corrected for RCEs, CPAs, and FWCs correspond to Monthly Allowance Rates reported on the USPTO's Data Visualization Center on the USPTO's website. The Uncorrected UPR Allowance Rate also closely corresponds to the Grant Rate reported by the USPTO on the Five IP Offices website and the Trilateral Co-operation Website. The Allowance Rate Based on Net Disposals is calculated using data from the FOIA Response and represents the lower bound for USPTO Allowance Rates. The other two lines report UPR Allowance Rates corrected for RCEs, CPAs, FWCs, and Continuations, and for all Refiled Continuing Applications (including CIPs). Allowance Rates peaked in 2000, declined until 2009, and then turned up sharply, reaching 89% in 2012 when corrected for all Refiled Continuing Application.

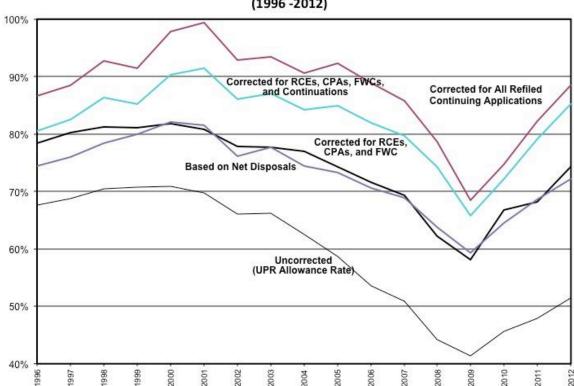


Fig. 7 - USPTO Grant Rates (UPR Allowance Rates) (1996 -2012)

III. The Difference - the Backlog

Data from the USPTO's annual reports and the FOIA requests provided insight into the difference between the input and output of the USPTO over time—otherwise referred to as the backlog. Figure 8 reports the number of applications pending in a given year and the number of those applications awaiting an action by the examiner as reported in the Workload Tables from the USPTO Performance and Accountability Reports.

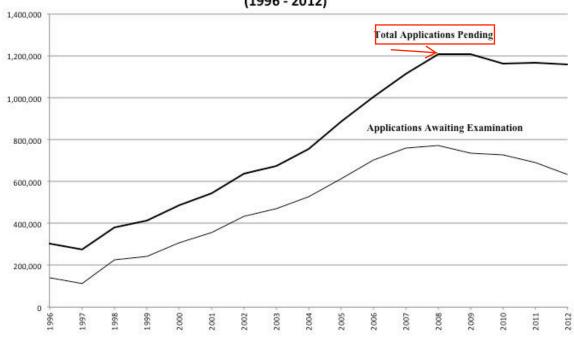


Fig. 8 - Application Backlog (1996 - 2012)

Starting in 1997, the Total Applications Backlog begins to increase, with the percentage increase from 1997 to 2008 being 339% (from 275,295 to 1,208,076 applications). Since 2008 the backlog has remained essentially level, decreasing by about 4% (from 1,208,076 to 1,157,147 applications). The Backlog of Applications Awaiting an examiner action has dropped by 18% since 2008 (from 771,529 to 633,812).

The average length of pendency per application from the USPTO Workload Tables is reported in Figure 9. The average number of months per application as reported in the USPTO's annual report is shown.

Fig. 9 - Backlog Pendency - Months (1996-2012)

The average pendency has increased from just over 20 months in 1996 to just over 35 months in 2010. Pendency, although, has recently started to go, with an average pendency of 32.4 months for 2012. Other pendency data are reported on the USPTO's Data Visualization Center.

Conclusion

The data and analyses show a couple of things. The Total Backlog has remained essentially level since 2008 and the backlog of Applications Awaiting Examination has declined even though applications are increasing. However, a growing percentage of these "applications" are Refiled Continuing Applications taking another turn in examination in the USPTO. RCEs make up the greatest portion of these Refiled Continuing Applications, with Continuations appearing to tick up only recently, perhaps to fill the void left by the leveling off of RCE filings, shown in Figure 3. Finally, we are experiencing a return to rising allowance rates of the late 1990s, which presumably is facilitating the drop in backlog at the USPTO.

The data above is provided for the reader to make his or her own conclusions as to the current state of USPTO performance as it affects the U.S. patent system. Our modest hope is that this information will bring awareness to the current state of play at the USPTO and in the U.S. patent system in general and help answer,

empirically, questions surrounding the health of the U.S. patent system and the performance of the USPTO.

APPENDIX A

UPR Applications Filed* 1991, 116 222 UPR Applications Allowed 121,694 133 UPR Applications Abandoned 58,358 6	1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 191,116 220,773 240,090 261,041 293,244 336.681 333,452 355.527 334,228 121,694 135,240 143,045 155,380 166,200 176,184 188,283 179,349 164,093 58,358 61,367 60,102 64,062 68,056 72,566 88,417 96,176 107,824 115,232 180,052 196,607 203,147 219,442 234,256 239,434 260,231 284,459 287,173 279,325 105,529 112,645 140,158 143,681 165,500 170,638 182,216 170,636 152,088	98 19: ,090 261, ,045 155,	1999 2000												
	20,773 240, 35,240 143, 61,367 60, 96,607 203, 12,645 140,	090 261, ,045 155,			2001 2002	2003	2004	2002	2006	2007	2008	2009	2010	2011	2012
	35,240 143, 61,367 60, 96,607 203, 12,645 140,	,045 155,	041 293,	244 326,0	81 333,68	8 333,452	355,527	384,228	419,760	441,637	468,669	460,924	481,483	506,924	533,308
	61,367 60, 96,607 203, 12,645 140,	102 64	380 166,	200 166,8	68 171,81	4 188,283	179,349	164,093	165,872	169,783	162,872	189, 120	240,438	243,897	281,609
	96,607 203, 12,645 140,	, כל ל	062 68,0	056 72,5	66 88,41	7 96,176	107,824	115,232	143,787	164,029	205,674	268,767	286,318	264,652	266,442
Nominal UPR Application Disposals (Allowed + Abandoned) (Calcula 180,052 196	12,645 140,	147 219,	442 234,	256 239,4	,607 203,147 219,442 234,256 239,434 260,231 284,459 287,173 279,325	11 284,459	287,173	1 279,325	309,659	333,812	368,546	457,887	526,756	508,549	548,051
UPR Patents Issued 105,529 112		158 143,	681 165,	500 170,6	,645 140,158 143,681 165,500 170,638 162,216 173,065 170,636 152,088	6 173,065	170,636	152,088	164,115	161,833	156,540	166,707	209,754	223,135	248,305
Applications Published				25,3	25,359 169,729 243,007 248,561 291,221	29 243,007	, 248,561	291,221	291,259	302,678	309, 194	325,988	338,452	321,115	328,620
Total Applications Pending 303,720 275	75,295 379,	484 414,	837 485,	129 542,0	07 636,53	0 674,691	756,604	885,002	1,003,884	1,112,517	1,208,076	1,207,794	1,163,751	,295 379,484 414,837 485,129 542,007 636,530 674,691 756,604 885,002 1,003,884 1,112,517 1,208,076 1,207,794 1,163,751 1,168,928 1,157,147	1,157,147
Backlog Growth (Calculated) 5,198 -28		,189 35,	425 104,189 35,353 70,292	292 56,8	56,878 94,523 38,161 81,913 128,398	23 38,161	81,913	128,398		118,882 108,633	95,559	-282	44,043	5,177	-11,781
Total Average Pendency (Annual Report - Months) 20.8	22.2	23.8	25.0 2	25.0 24	24.7 24.0	.0 26.7	27.6	29.1	31.1	31.9	32.2	34.6	35.3	33.7	32.4
Net Average Backlog (Calculated-Months) (Total Apps Pending/Net Di 23.5	19.6	25.9	26.0 2	28.7 31	31.5 34.6	.6 33.4	38.9	48.1	52.0	54.5	55.4	44.5	38.8	39.3	36.6

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APPENDIX B

Table 2 - USPTO FOIA DATA																	
	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
UPR Applications Filed	191016	220773	240090	261041	293244	326081	333688	333452 ;		~	419760	441637	468669	460924	481483	506334	533390
Continuation Applications																	
Continuations	7570	10434	14311	10961	17942	21781	25861	26199	27960	30774	32394	33685	36307	31338	39629	47369	59819
Continued Prosecution Applications (CPAs)	0	0	17462	25258	30888	22407	8982	2335	-	0	0	-	0	0	0	0	0
File Wrapper Continuations (FWCs)	16427	18585	3350	23	15	4	2	က	0	0	0	0	0	0	0	0	0
Rule 129 Continuations	5016	3737	2356	949	444	206	118	88	45	10	52	∞	10	0	~	0	7
Continuation Applications (Excluding RCEs)	29013	32756	37479	37191	49289	44398	34963	28625	28003	30784	32419	33694	36317	31338	39630	47369	59830
Requests for Continued Examination (RCEs)					1035	12443	25686	39594	46080	55279	74920	87154	113115	139044	153766	152973	157908
Subtotal - Continuations + RCEs)	29013	32756	37479	37191	50324	56841	60649	68219	74083	86063	107339	120848	149432	170382	193396	200342	217738
Continuation-in-Part Applications (CIPs)	10633	11093	11458	12465	13956	14700	14617	14755	15061	15607	15774	14948	12141	11220	11696	11597	12260
Refiled Continung Applications (Calculated - Continuations																	
+ RCEs + CPAs + FWCs + CIPs)	39646	43849	48937	49656	64280	71541	75266	82974	89144	101670	123113	135796	161573	181602	20202	211939	229998
Divisional Applications																	
Divisionals	2986	12590	11919	13627	15760	17966	18138	19702	19376	19067	20450	21224	20102	19837	21036	21927	22161
Divisional CPAs			396	314	260	140	171	36	0	0	0	0	0	0	0	0	0
Total Divisional Applications (Calculated)	2986	12590	12315	13941	16020	18106	18309	19738	19376	19061	20450	21224	20102	19837	21036	21927	22161
Total Continuing Applications (Calculated)	49513	56439	61252	63597	80300	89647	93575	102712	108520	120737	143563	157020	181675	201439	226128	233866	252159
Applications Abandoned Without Befiling	1996	1997	1998	1999	2000	2001	2002	2003	2004	2002	2006	2007	2008	2009	2010	2011	2012
Tring About About About All Mithous	27061	27042	27654	20402	21007	24075	42250	16074	76100	47006	27072	60462	10000	405046	00000	0000	77240
Original Applications Abandoned Without Relining	5648	5362	5242	50402	4038	5700	6380	8165	7503	986	11471	14867	19202	30626	95009	23446	20223
Total Applications Absorbers Without Define	00000	2000	27000	9505	0000	20770	40747	2000	2020	0000	65707	75000	2020	126542	110000	110400	07440
Abandoned Applications That Mare Defiled (Calculated)	24740	20000	27200	27806	31034	32701	30670	41037	50102	20000	78087	02007	107082	130005	166410	151014	180000
Abandoned Applications that were neither (calculated)	24/43	20092	80212	27 000	51234	18170	28070	100/	24047	00000	0000/	00/00	700 701	132223	1004	101214	000601
Abandoned Applications That Were Refiled as % of Abandoned Applications	45%	46%	45%	43%	46%	45%	45%	44%	20%	51%	24%	24%	25%	46%	28%	21%	63%
Requests for Continued Examination (RCEs) as % of Total Abandoned (Calculated)	ਰ				5%	17%	29%	41%	43%	48%	25%	23%	%99	25%	24%	28%	%69
Refiled Continuing Applications as % of Total Abandoned (Calculated)	%89	71%	81%	%82	94%	%66	%28	%98	83%	%88	%98	83%	%62	%89	72%	%08	%98
Patents	1996	1997	1998	1999	2000	2001	2002	2003	2004	2002	2006	2007	2008	2009	2010	2011	2012
UPR Patent Count (Total Issued)	105529	112641	140156	143682	165498	170637	162216	173065	170637	152087	164115	161835	156540	166707	209754	223135	248305
Patents Wherein Parent Patent Was Granted	15591	18686	20456	21184	24954	26997	27653	29272	27987	26332	30906	30855	30663	32436	39787	48427	51835
"Original" UPR Patents	88638	93922	119700	122498	140544	143640	134563	143793	142650	125755	133209	130980	125877	134271	169967	174708	196470
Percent Where Parent Was Patented (Calculated)	15%	17%	15%	15%	15%	16%	17%	17%	16%	17%	70%	10%	%00	19%	10%	22%	21%
relocit Wildie Falcit tras a arctica (valuatou)	2	2	2	2	2	2	2	2	2	2	2	2	2 2	2	2	2 7	2,17

APPENDIX C

TABLE 3 - CALCULATIONS																
USPTO UPR Applications	1996	1997	1998	1999	2000	2001	2002 2003		2004 20	2005 2006	3 2007	2008	2009	2010	2011	2012
Original Applications (FOIA UPR Applications less FOIA Total Continuing Applications)	141,503	164,334	164,334 178,838 1	197,444 2	212,944 23	6,434 24	236,434 240,113 230,740 247,007	740 247	,007 263,	263,491 276,197	97 284,61	284,617 286,994 259,485 255,355 272,468	1 259,485	5 255,355	272,468	281,231
Original Applications + Divisionals	151,370 176,924 191,153	176,924	191,153	211,385 228,964 254,540 258,422	28,964 25	4,540 25	8,422 250,4	478 266	,383 282,	250,478 266,383 282,558 296,647 305,841 307,096 279,322 276,391 294,395	47 305,84	11 307,096	3 279,322	276,391	294,395	303,392
Requests for Continued Examination (RCEs)+CPAs+FWCs	16,427	18,585	20,812	25,281 3	31,938 3	34,854 34	34,670 41,932		46,081 55,	55,279 74,920	0 87,155		139,044	113,115 139,044 153,766	152,973	157,908
Refiled Continuing Applications (Continuations + RCEs CPAs + FWCs + CIPs)	39,646	43,849	48,937	49,656 6	64,280 7	71,541 78	75,266 82,974		89,144 101,	101,670 123,113	13 135,79	135,796 161,573 181,602 205,092	3 181,602	205,092	211,939	229,998
Original Applications as % of Total Applications	74%	74%	74%	%92	73%	73%	%22% 69%		%69 %69	%99 %	64%	61%	26%	53%	24%	53%
Original Applications + Divisionals as % of Total Applications	%62	%08	%08	81%									61%	21%	28%	21%
Requests for Continued Examination (RCEs) as % of Total Applications					%0	4%	8% 12%		13% 14	14% 18%	20%	24%	30%	32%	30%	30%
Refiled Continung Applications as % of Total Applications	21%	20%	20%	19%	22%	22%	23% 25%		25% 26%	% 29%	31%	34%	39%	43%	45%	43%
Divisional Applications as % of Total Applications	2%	%9	2%	2%	2%	%9	2% 6%		2% 2%	%9 %	2%	4%	4%	4%	4%	4%
Total Continuing Applications as % of Total Applications	792	79%	76%	24%	27%	27%	28% 31%		31% 31%	34%	36%	39%	44%	47%	46%	47%
Indexed Application Growth 1980-2012 (Calculated: 1983 = Base Year)	1996	1997	1998	1999	2000	2001	2002 2003		2004 20	2005 2006	2007	2008	2009	2010	2011	2,012
Total Applications	2.0	2.3	2.5	2.7	3.0	3.3	3.4 3.4		3.6	3.9 4.3	4.5	4.8	4.7	4.9	5.2	5.5
Original Applications	1.7	5.0	2.2	2.4	5.6	2.9	2.9 2.8		3.0	3.2 3.4	3.5	3.5	3.2	3.1	3.3	3.4
Original Applications + Divisions	1.8	2.1	2.2	2.5	2.7	3.0	3.0 2.9	9	3.1	3 3.5	3.6	3.6	3.3	3.2	3.4	3.5
Refiled Continuing Applications	3.3	3.7	1.4	4.2	5.4	0.9	6.3 7.0		7.5 8.	5 10.3	11.4	13.6	15.3	17.2	17.8	19.3
UPR Application Disposals (Calculated)	1996	1997	1998	1999	2000	2001	2002 2003		2004 20	2005 2006	3 2007	2008	2009	2010	2011	2,012
Nominal UPR Application Disposals (Applications Allowed + Applications Abandoned)	180,052	196,607	196,607 203,147 219,442	19,442 2:	234,256 239,434 260,231	9,434 26	0,231 284,459	459 287	287,173 279,	279,325 309,659	59 333,81	333,812 368,546 457,887	3 457,887	526,756	508,549	548,051
Net UPR Application Disposals (Applications Allowed + Applications Abandoned Without Refiling)		168,514	175,938	91,636 2	3,022 20	6,643 22	155,303 168,514 175,938 191,636 203,022 206,643 220,561 242,522 233,131 220,757 231,599 245,112 261,464 325,662 360,346 357,335 379,05	522 233	,131 220,	757 231,5	99 245,11	261,46	325,662	360,346	357,335	379,051
Disposals Corrected for RCEs, CPAs, and FWCs	163,625	178,022	182,335	94,161 2	22,318 20	4,580 22	163,625 178,022 182,335 194,161 202,318 204,580 225,561 242,527 241,092 224,046 234,739 246,657 255,431 318,843 372,990 355,576 390,143	527 241	,092 224,	046 234,7	39 246,65	57 255,431	318,843	372,990	355,576	390,143
Disposals Corrected for RCEs + CPAs, + FWC+ Continuations	151,039	163,851	165,668 1	151,039 163,851 165,668 182,251 183,932 182,593 199,582	33,932 18	2,593 19	9,582 216,2	240 213	,090 193,	216,240 213,090 193,262 202,320 212,964 219,114 287,505 333,360	20 212,96	¥ 219,114	4 287,505	333,360	308,207	330,313
Disposals Corrected for Refiled Continuing Applications	140,406	152,758	154,210	69,786 1	39,976 16	7,893 18	140,406 152,758 154,210 169,786 169,976 167,893 184,965 201,485 198,029 177,655 186,546 198,016 206,973 276,285 321,664 296,610	185 198	,029 177,	655 186,5	46 198,01	6 206,973	3 276,285	321,664	296,610	318,053
Disposals Corrected for All Continuing Applications	130,539	140,168	141,895	55,845 1	53,956 14	9,787 16	140,168 141,895 155,845 153,956 149,787 166,656 181,747 178,653 158,588 166,096 176,792 186,871	747 178	,653 158,	588 166,0	96 176,79	186,871		256,448 300,628	274,683	295,892