Patent Search

WIPS Co., Ltd.



- 1. What is the patent search?
- 2. The kinds of patent search
- 3. The process of patent search
- 4. The Basics of Creating & Refining Search Queries
- 5. Patent database
- 6. How to use patent database WIPSGLOBAL
- 7. Exercise



Patent Search

What is the Patent Search?

Patent search is not only prerequisite step in patenting procedure but also essential work in conjunction with many business activity, including research, manufacturing, marketing, etc. Patent search is to search and analyze relevant patents in product development step or prior to patent application process so that you can make sure the patentability of your invention and get current technology information and future trend of specific technology area. Also, it helps you to avoid a duplicated research and to invest your money to safe market having no legal problems related to patent.



The Kind of Patent Search (1)

Theme Search

Theme searches provide the overview of patents related to your field of interest. These searches are helpful to detect the recent trend of your technology area and to establish your R&D direction



Patentability search is the first step of patenting process. A patentability search surveys patents filed in each national intellectual property office to check whether there exists inventions similar to yours.

Infringement Search

Infringement search is to check whether patents which can be infringed by your product launched newly in a certain country exist or not in that country.



The Kind of Patent Search (2)

Invalidity

When you intend to make some claims of a particular patent invalid, the invalid search can provide some prior art references that disclose claims that are infringed by the subject disclosure.

Family patent /

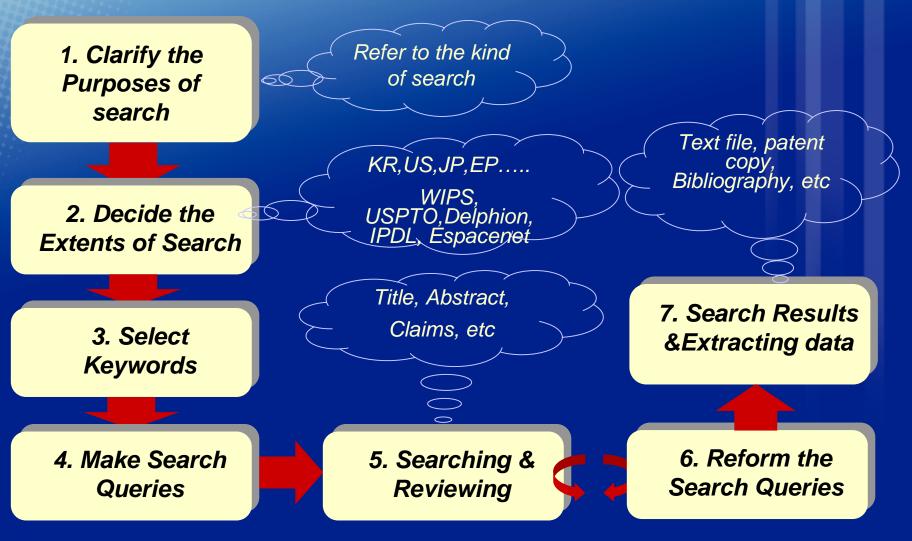
Legal status search

Patent family search provide a list of all countries in which a particular patent was filed.

Legal status search gives the legal progressing status of a particular patent .



The Process of Patent Search





Patent Search

Patent Search

The Basics of Creating & Refining Search Queries (1)

1. Extension of the range of search keywords(Wildcards)

A wildcard is a symbol that stands for an unspecified number of characters in a queries. Right-hand truncation used in the end of words is generally applied in the most of database. This allows you to retrieve words that begin with that specific character string but have an unknown variety of characters at the end.

Kind	Wildcards	Meaning	Example
Full extension	* (Asterisk)	Represent to unlimited characters	file* : Retrieves file, files, etc.
Partial extension	? (Question mark)	Represent to only one character	wom?n : retrieves woman, women, etc.



The Basics of Creating & Refining Search Queries (2) 2. Boolean operators

Function	Meanin	g	Format
Logical Product	Two terms must be existed		a AND b
Logical Sum	Any one term or two terms must be existed		a OR b
Logical Negation	A specific term following "NOT" must be excluded		a NOT b
Order of Precedence	An operator within brackets has a priority		(a OR b) AND c



The Basics of Creating & Refining Search Queries (3)

3. Adjacency operators

Format	Meaning	Example
a ADJn b	"a" and "b" exist in the same order with the input queries' order in a sentence and there are the same or less than the "n" words between "a" and "b"	Automobile ADJ2 System : <u>Automobile</u> rear suspension <u>system</u> , <u>Automobile</u> heating <u>system</u>
a NEARn b	"a" and "b" exist in a sentence regardless the order and there are the same or less than the "n" words between "a" and "b"	Engine NEAR2 Control : Engine brake <u>control</u> , <u>Control</u> system for <u>engine</u>



Free On-line Patent Database

	Country	KIPRIS	USPTO	Espacenet	IPDL	SIPO
		(KR)	(US)	(EP)	(JP)	(CN)
	Available DB	KR(P,U,D,T KPA)	US	EP,JP(PAJ), PCT	JP(P,U,D,P AJ)	CN(P,U,D, CPA)
	Website Address	kipris.	uspto.	espacenet.	ipdl.jpo	sipo.gov.cn
		or.kr	gov	com	.go.jp	
	Title	0	Ο	Ο	0	Ο
S	Inventor		0	Ο		0
E	Assignee	0	0	0	0	0
A	Classification Code	0	0	0	0	0
R		(IPC)	(IPC,UPC)	(IPC,ECLA)	(IPC)	(IPC)
C	Application(No., Date)	0	Ο	Ο	0	Ο
Н	Publication(No., Date)	0	0	0	0	0
F	Registration(No., Date)		0		0	
· ·	Priority(No., Date)	0	0	Ο		0
Е	Abstract	0	0	0	0	0
L	Claims		Ο			
D	Detailed Description		0			
	Reference		0			
P	atent Document Copy	0	0	0	0	
	Download	O(Not Free)				



Patent Search

Charged On-line Patent Database(1)

DB Name	WIPSGLOBAL	Delphion
Country	Korea(South)	US
Data Collections	Korea(P,U,D,T,KPA), US(P), Japan(P,U,PAJ), EP(P),PCT(WO), CN	US(P), JP(PAJ), EP(P), PCT(WO)
Main Search Tool	 General Search Advanced Search Number Search Step Search 	 Quick/Number Search Boolean Search Advanced Search
Search Field	 All Bibliographical Items Full Text(Abstract, description, claims, etc) 	 All Bibliographical Items Full Text(Abstract, description, claims, etc)
Patent Document Copy	Available	Available
Family patent/ Legal Status Info.	Available	Available



Patent Search

Charged On-line Patent Database(2)

	DB Name	WIPS	Delphion
Data Download	Contents	All bibliography + Abstract+ Claims	All bibliography
	File Formats	TEXT, XLE, MDB, PMD(Format for PM manager)	TEXT, CSV
	Search results managing tool	Cabinet	Work file
Supple- mentary	Clustering	Clustering	Snapshot
Function	New patent informing system	SDI	Alerts
	Save search query & results	Search Query Save	Saved Search
	PM tool	PM Manager 2002	Patent Lab 11

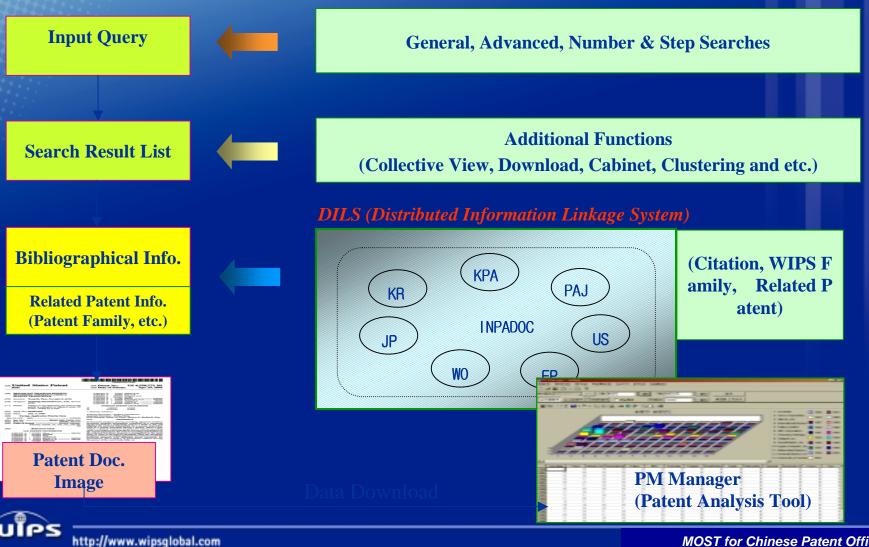


The merits of the charged on-line database

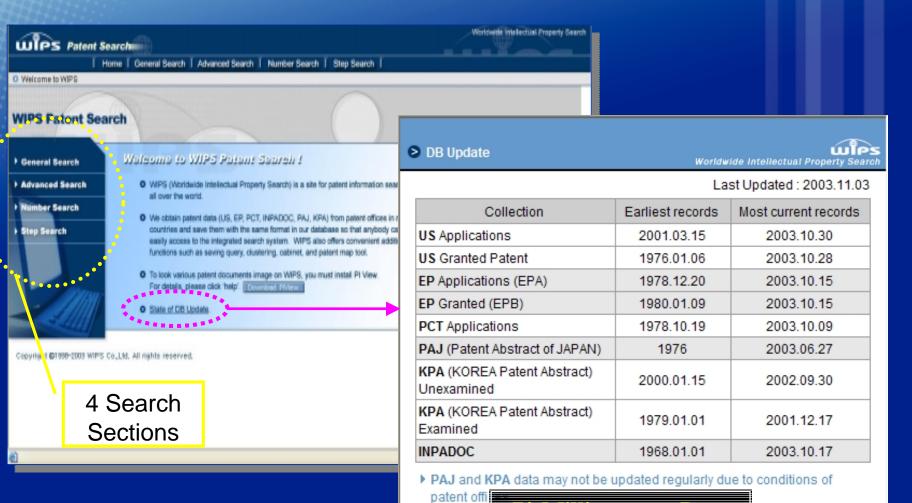
- More Patent Database Collections : Saving search time and integrated search is possible because several countries' patent database is built in together
- Faster and more stable search : Less number of user than Free DB and high-quality internet infrastructure
- 3. Detailed and several search method : Full text search and free queries are available
- 4. Save search results : You can manage your search results
- 5. Easy to download and obtain patent document copy
- 6. Various and useful supplementary functions : Patent analysis tool, Searched patent management, Newly published patent informing service, etc.



1. WIPSGLOBAL Search Flow



2. Search Sections, Data Coverage

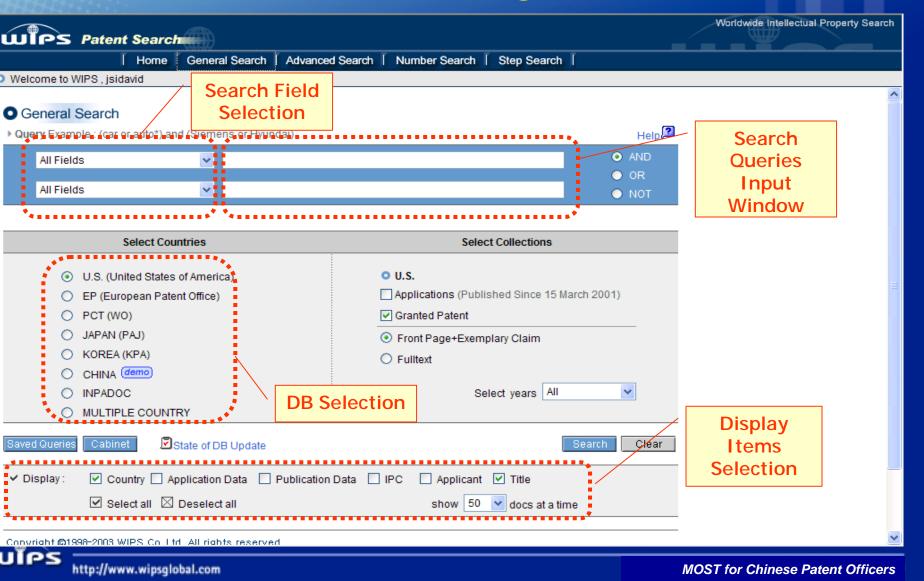


70 Million cases Data

Close

http://www.wipsglobal.com

3. General Search (for beginner)



4. Advanced Search (for Experts)

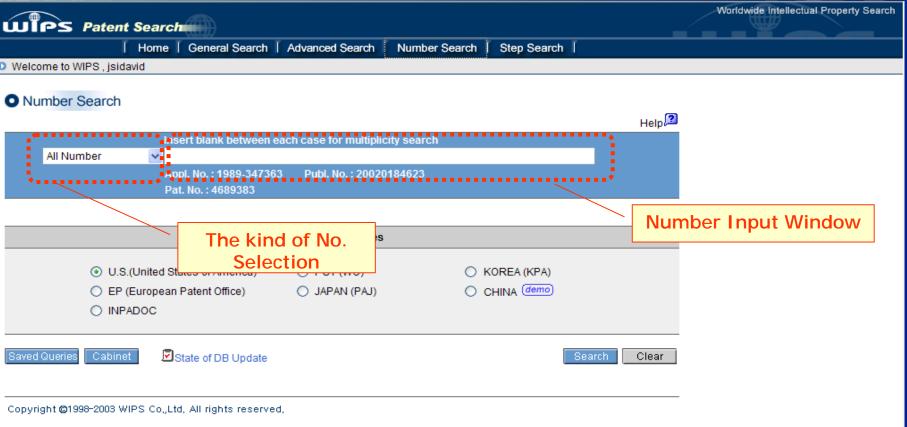
JIPS Patent Search				Worldwide Intellectual Property Se
Home General Sea	rch Advanced Search Nu	mber Search Step Search		
Velcome to WIPS , jsidavid				
Advanced Search Query Example : (car or auto*) and (Siemens or P All field Search by category	Hvundai)		Help?	Free Search Queries Input
Select Countries	U.S. (United States of America)			Window
 U.S. (United States of America) EP (European Patent Office) PCT (WO) JAPAN (PAJ) KOREA (KPA) 	Title + Abstract + Exemplary Claim Title Abstract Exemplary Claim All Claims Description		printer and print* and t print* and t print* and t printer and printer and	head head head head
OLINA. (femo) INPADOC MULTIPLE COUNTRY aved Queries Cabinet State of DB Up	Field Search Assignee Inventor Priority Country Priority Number		H04N-004/ SONY [HY David JP	
✓ Display : ☑ Country	 Priority Date Kind of Document Application Number Application Filing Date Publication Number 	From - To	B1 1998-0452	- YYYYNMDD 45 *-045245 - 19980331 334 *8034



MOST for Chinese Patent Officers

WIPSGLOBAL

5. Number Search





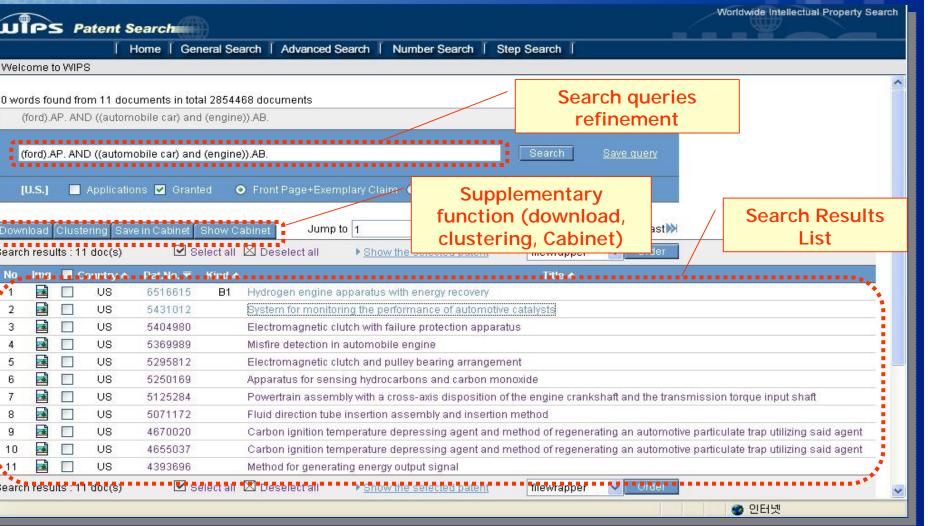
6. Step Search

wies	Patent Sea	rch				Worldwide In	tellectual Property Se	arch
	[Hom		vanced Search Number Sear	rch Step Search				
Welcome to '	WIPS , jsidavid							
After deletin	nple :(car or auto [;]	Search Field Selection	e database.		Wii	ueries Inpu ndow	t	1
All Fields		✓		<u>s</u>	learch Clear			
Step	•••••	Query (Dele	te all queries)	D	oc(s) View			
S6 cylin	ider and S4		•••••	••••••	189 List			
S5 S1a	and S3			2	2172 List			
S4 S1a	and S2			1	1717 List			
S3 (airc	craft).KEY.			1:	2929 List	\searrow		
S2 (auto	omobile).KEY.			1	4198 List	Ste	p search	Ξ
S1 (eng	gine).KEY.			7	9239 List		sults list	
*******	Select	Countries		Select Collections	************		suits list	
	 PCT (WO) JAPAN (PAJ) KOREA (KPA) CHINA demo 	Patent Office)	 ● U.S. Applications (F ✓ Granted Paten ● Front Page+E ● Fulltext 		rch 2001)	<u>Diagra</u>	<u>ım</u>	
						-		~



MOST for Chinese Patent Officers

7. Search Result View





8. Data Download

UIPS Patent Search	Worldwide Intellectual Property S	Search
	WIPS Download Worldwide Intellectual Property Search	
Home General Search Advanc	wonawide intellectual Property Search	
Welcome to WIPS		
	Country : U.S.	<u>^</u>
D words found from 11 documents in total 2854468 documents	Select Field Specify Field	
(ford).AP. AND ((automobile car) and (engine)).AB.		
(ford).AP. AND ((automobile car) and (engine)).AB.	Exemplary Claim IPC (IPC All) Kind Code	
[U.S.] 🔲 Applications 🗹 Granted 🛛 💿 Front Page+E	Applicant Country	
	Inventor 🗗 🕞 IPC (IPC Main)	
*****	Inventor Country Applicant	
Download Clustering Save in Cabinet Show Cabinet	Priority Country 🗘 Priority Number	- 1
earch results : 11 doc(s) 🛛 🗹 Select all 🖾 Deselect all	Priority Date	
No Img 🔲 Country 🔺 Pat.No. 🔻 Kind 🔺	Designated Country	
1 🛃 🔲 US 6516615 B1 Hydrogen eng		
2 🧖 🔲 US 5431012 System for mo	Publication Date Firm Number	
3 攳 🔲 US 5404980 Electromagnet		
4 攳 🔲 US 5369989 Misfire detectio	Download: O Selected records O Range All	
5 攳 🔲 US 5295812 Electromagnet	Designate the range of records to be download by using	
6 🌌 🔲 US 5250169 Apparatus for s	commma(,) or dash(-) ex) 1,2,15-20	
7 攳 🔲 US 5125284 Powertrain ass	shaft.	
8 🛃 🔲 US 5071172 Fluid direction	File type Cancel	
9 📓 🔲 US 4670020 Carbon ignitio	e) 완	
9 10 0S 4670020 Carbon ignition 10	이 된 ing said agent	
11 📓 🔲 US 4393696 Method for gene	eratin .txt signal	
earch results : 11 doc(s) 🛛 🗹 Select all 🖾 Deselect all	.mdb ected patent filewrapper V Order	
	.pmd 🔮 인터넷	



9. Download as Excel data

WIPS Download				World	lwide Intelled	tual Pro	perty Search			
ountry : U.S.										
Select Field					Specify Fi	eld				
Abstract Exemplary Claim IPC (IPC All) Applicant Code Applicant Country			Country Code Kind Code Application Number Application Filing Date Title							
Inventor Inventor Country			G	<u>3</u> 34	-	f _×				
Priority Country	4		A	В	C	D	E	F	G	H
Priority Number		1	Cunt .	Pat.	Аррі.	PN.	Title	IPC	Abst.	Claim
Priority Date Designated Country Publication Number	4	2	US	B1	2001-949080	6549448	FeRAM having adjacent memory cell	6110-011/22	A FeRAM device includes a first memory ce	1. A FeRAM device having a first memor
Publication Date Firm Number		3	US	B1	2001-987073	6548876	Semiconductor device of sub-micro	H01L-021/8238	A semiconductor device includes a semicor	1. A semiconductor device, comprising:
• Download: O Selected record Designate the range	~	4	US	B1	2000-723222	6548870	Semiconductor device	H01L-029/76	In the semiconductor device, a first imp	1. A semiconductor device, comprising:
commma(,) or dash			US	В1	2001-987074	6548377	Method for forming a line of semi	H01L-001/326	A method for forming a line of a semicone	1. A method for forming a line of a se
File type 관		6	US	B1	2001-886465	6545938	Buffering circuit in a semiconduc	G11C-008/00	A buffering circuit of a semiconductor me	1. A buffering circuit of a semiconduc
, xis .mdb		7	US	B1	2001-006112	6545917	Circuit for clamping word-line vo	G11C-007/00	The present invention relates to a circu	1. A circuit for clamping a word line ·
.pmd		8	US	B1	2001-028693	6545531	Power voltage driver circuit for	GO5F-O01/10	A power voltage driver circuit includes:	1. A power voltage driver circuit for :
		9	US	B1	2001-843944	6545529	High voltage generating circuit	G05F-001/10	A voltage generating circuit in accordanc	1. A high voltage generating circuit,
		10	US	B1	2002-158119	6544866	Semiconductor device fabricated o	H01L-021/46	A semiconductor device fabricated on a m	1. A method for fabricating a semicond
<u> </u>		H 4			IENT/	1		· · ·		
	hal co	-							MOST fo	r Chinese Patent Officers



10. Clustering

			♥ WIPS CLUS	STERING	Results			Worldwide Intellectual Property Search
	PS	Patent S			h	Display: 💿 H	lit O Alphabet IPC V Clustering	Worldwide Intellectual Property Search
Wold	ome to W		Sort b	<u> </u>		► 30 documents	s are found under the category of (cellular). TI, AND (2002*). RD. > H > $\stackrel{-}{\sim}$	H04>H04B>H04B-001
VVCIU			🗢 (cellular), H, AN					
		d from 312 d . AND (2002*		So		Applicant	Hay: Hit Alphabet Applicant Image: Comparison of the state of the	
		I. AND (2002 Applicatio		Candefi Candon Ca	ined (35) o <u>la (12)</u> son Inc, (11) nt Technologie Corporation (6)	WIPS CLUSTE Sort by (cellular), II, AND (Display: Hit Alphabe Date of documents are found under the category of (cell)	
Dowr		stering Save 312 doc(s)	 ⊕- ☐ H04J (⊕- ☐ H04K (⊕- ☐ H04L (⊕- ☐ H04L (⊕- ☐ H04A (🗀 Sams 🗀 Sams 🗀 Score		□	WIPS CLUSTERING Results Sort by Main Key Word	Montawide Intellectual Property Search Alphabet Key word V Clustering Search Alphabet Alphabet Clustering Alphabet Clustering Alphabet Clustering
No 1 2 3		Country ▲ US US	- — H04 - — H04 - — H05 (1) ⊕ — C (34) ⊕ — A (32)	Can Nokia Can Nortel Can Nortel Can Telefo Can LG Els Can NEC (Networks Oy I Networks Lim I Networks Lim onaktiebolaget ectronics Inc, Corporation (3) Telecommun	□ ← 199905 (2) - ← 19990520 (- ← 19990525 (□ ← 199906 (11) □ ← 199907 (5) □ ← 199908 (11)		 US6374094 B1 RF filter architecture supporting simultaneous filtered reception of A and B bands of the cellular radio frequency spectrum An RF filter for a cellular radio receiver whose architecture includes a combination of signal circulators and bandpass filters which operate to selectively notch out sub-bands of the two cellular bands of the cellular radio transmission spectrum so that the sub-bands of both cellular bands can be separately directed to afJ
4	🛋 💌	US	D464945		Telecommuni	⊕- <u>)</u> 199909 (9) ⊕- <u>)</u> 199910 (9)	⊕ Calmanda Mobile units (5)	2. <u>US6345075 B1</u> Process and device for the increase of subscriber capacity in a cellular mobile radio network
5		US	D464940		onaktiebolaget Wireless Serv		- Threshold, Cellular communications system (4) - Adio communication system (4)	For each K subscriber of a cellular mobile radio network who is supplied with one and the same frequency and one and the same time slot a decision-feedback and therefore non-linear antenna(J decision-feedback structure is used commissing forward filters backward filters and decision circuits for
6	a 📃	US	6501964	81	Sub-m	□- <u>□</u> 2000 (81)		the adaptation of the antenna weighting factors, wherein the backward filters are adapted to the length of
7		US	6501959	B1	Methoo telecor		- Mobile station (3) - Frequency, Cellular mobile telephone (3)	the processing window D of MLSE, and the output signals of the forward filters for the actual data detection are taken to the MLSE of the []
8	a 🗉	US	6501945	B1	Cellula	⊕	- 🗅 Hand, Universal (3) - 🗅 Mode (2)	3. <u>US6343094 B1</u> Spread spectrum signal receiving method and apparatus for CDMA cellular communication
9			6501939	B1	Satellit	⊕	Configured to receive (2)	An improved filter for use in a CDMA receiver having an RF front end for splitting a received signal into I and Q components, A/D converters for converting the I and Q components into I and Q digital
						_		components, a control processor for controlling the receiver, a system clock and a power supply, the
10		US	6501420	B1		cellular teleph		improved filter including a matched filtering mechanism, wherein each filter includes: a separation mechanism to separate a digital I signal and a digital Q signal into MSB and LSB signal components; a
11	a	US	6501246	B1	Handy	battery charger	⊡ 😋 Channel (54) ⊕ 🗀 Cellular radio system (14)	MSB sub-portion having multiple MSB delay elements, a multiplier associated with each delay element, and a MSB adder for processing said MSB signal components; a LSB sub-portion having multiple LSB
40			0.400700	D4	Time di	ivision multiple		delay elements, a
					(10200000000000000000000000000000000000			A US6306365 Rl Multinlever for cellular telenhone



11. Search Results Managing Tool - Cabinet

Worldwide Intellectual Property Search

DIPS Patent Search	
Home General Search Advan	
Welcome to WIPS	Cabinet
0 words found from 11 documents in total 2854468 documents	Folder saved name back Chem ✓ select all Deselect all □ Copy → Mode(s) →
(ford).AP. AND ((automobile car) and (engine)).AB.	□ 1. INPADOC 3 □ No.Img CC PN - KC IPC TI
(ford).AP. AND ((automobile car) and (engine)).AB.	2. KIPO 0 3. WIPS_Sample 5 1 Image: Kir 2001-0111643 A F04B-025/00 MAXIMUM TILT ANGLE OF SWASH PLATE IN COMPRESSOR
	S.LG Chem 7 2 Image: Second se
[U.S.] ■ Applications ☑ Granted ● Front Page+	6. citation 19 3 3 US 6422128 B1 F01B-003/00 for variable displacement swash plate type compressor
Download Clustering Save in Cabinet Show Cabinet J	New Folder Edit Delete 4 🖬 US 6430958 B1 F25B-043/00 Suction accumulator for air conditioning systems
No Img Country Pat.No. Kind	5 🗟 US 6463757 B1 F25B-043/00 Internal heat exchanger
1 Image: Backtore in the second	Vehicle-use cooling fan driving Image: Cooling fan driving </td
3 Image: Section of the se	Method for machining shoe pocket 7 🗟 US 6488454 B1 B23C-003/34 for piston in variable displacement swash plate type compressor
5 📓 🗌 US 5295812 Electromagne	
6 🛃 🔲 US 5250169 Apparatus for	
7 🛃 🔲 US 5125284 Powertrain as	
8 🧱 🔲 US 5071172 Fluid direction	
9 📓 🔲 US 4670020 Carbon ignitid	Image Download Image print Text Download Close
10 📓 🔲 US 4655037 Carbon ignitid	
11 📓 🔲 US 4393696 Method for gei	nerating energy output signal
earch results : 11 doc(s) 🛛 🗹 Select all 🖾 Deselect al	I Show the selected patent filewrapper V Order
	이 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이 이



UPS Patent Search

http://www.wipsglobal.com

12. Cabinet Functions, Link to Full Image

		Save Cabinet	
71 words found from 54 documents in total 20024 54 documents			
(samsung).AP. AND (se > User identification		current number of selected records : 3	
(samsung).AP. AND (s Please execute again after identification.		 Maximum 10 folders can be created Maximum 200 records can be saved in each folder folder saved 	y]
U.S.] Applicatic Password	aim 💿 Fullt	^{No.} name cases	
		0 1. INPADOC 3	
Confirm Cancel Registe		2. KIPO 2 3. WIPS_Sample 6	
Download Clustering Sav	Go	4. Project DB 19	<u>t</u> ₩
Search results : 54 doc(s)	∃ Show the s	 ○ 5. LG Chem 7 	
© For securies of saved queries or		6. citation	
No Img Countr		O 7. New folder name	
1 US United States Patent [19] [11] Patent Number: 6,146,077 Shin et al. [19] Date of Patent: Non-14,2000 [19] WV22 TRANSPE SYTTM OF [19] W149 [19] Patent States Patent: Non-14,2000	semiconduct	Save	
SEMICONDUCTOR FAMILY AT 1992 Japan 44007		·····································	FER WITH EXPOSURE EQUIPMENT, IENT MARK, AND METHOD OF
d Kyrongji do, Step of Korea d Kyrongji do, Step of Korea d Kyrongji do, Step of Korea d Kyrong Ago, or Film - Month and Controls, LLC d Strow, Exp of Korea (57) AISTRACT		A WAFER FROM THE ALIGNMENT MARI	
descending order, an odd/oven mumber order or an indi-	en et al	n semiconductor wafer using surface way	
[52] U.S. CL 444404 4 14/4016 41/22/4; a find cassette contairing the waters, and a second cassette	Smith atent: Feb. 1, 2000	niconductor wafer using • Cabinet	saju
414(407) egy 64(1, 307), 464, 463, 476, 476, 476, 476, 476, 476, 476, 476	RACT SUB-11 - UNST A PO IT -	folder	saved doc(s) Gtem Image: Select all Imag
5 C C C C C C C C C C C C C C C C C C C	in An otch blocking layer is c the characts forming the resof material depended on thebeam Voltentine, LLP	1. INPADOC	³ □ No.Img CC PN
6 US Status 2 (1981) Institut 4 energy 4 energy 4 institut 4 institut4 institut 4 <td>etch blocking layer. A portion</td> <td>Or Wafer warping</td> <td>0 STRUCTURE FOR SUPPORTING 5 1 1 KR 2001-0111643 A F04B-025/00 MAXIMUM TILTANGLE OF SWASH</td>	etch blocking layer. A portion	Or Wafer warping	0 STRUCTURE FOR SUPPORTING 5 1 1 KR 2001-0111643 A F04B-025/00 MAXIMUM TILTANGLE OF SWASH
7 🔜 🔲 110 106	Madding Issue to form the	d method using same ♥ 5.LG Chem	19 PLATE IN COMPRESSOR 7 □ 2 ■ US 6402481 B1 F04B-001/26 Variable capacity swash plate type compressor
	nawing Sheets offer, is cover for opening divising the burning device associated with the rol. The apparent allows the bowl over is closed and the bowl is still y. The classify device include a Direct Cover State Stat	of accurately testing for (19 Piston-rotation preventing structure 3 B US 6422128 B1 F01B-003/00 for variable displacement swash
	(Dente Dent	lesting a semiconducto	plate type compressor plate type compressor US 6430958 B1 F25B-043000 Suction accumulator for air conditioning systems
			Conditioning systems □ 5
		lefect and surface defec	Vehicle-use cooling fan driving
		tus with a cover over the	sensing function Method for machining shoe pocket 7 📓 US 6488454 B1 B23C-003/34 for piston in variable displacement
12 📓 🗌 US		semiconductor wafer	y a US 6488454 Bi B230-00334 for pistori in variable displacement swash plate type compressor
13 🖬 🔲 US 6214	ubsi ubsi	trates using wafer bond	
			× .
			Image Download Image print Text Download Close



13. Collective View of Selected Patents

Worldwide Intellectual Property Search WIPS Patent Search 3. E DEVICE FOR CONTROLLING REAR SUSPENSION TOE OF VEHICLE Home | General Search | Ad Country : KR (Republic of Korea) Examined Pub. Number : 2002-0043004 (2002.06.08) Welcome to WIPS , jsidavid Kind of Document : A (Examined Applications) Applicant : KIA MOTORS CORPORATION Application Number : 2000-0072398 (2000.12.01) 1980 words found from 835 documents in total 189107 docu Int. CL : B62D-017/00 suspension Abstract PURPOSE: A device for controlling a rear suspension toe of a vehicle is provided to simply control the toe by controlling a position of a trapezoid pushing element with a control handle, thereby simplifying the toe control work without using any suspension additional control tools and reducing the toe control time. CONSTITUTION: A device for controlling a rear suspension toe of a vehicle includes a housing(5) mounted between an inner [KPA] Unexamined Applications Examined lateral link(2) of an inner bush(1) and an outer lateral link(4) of an outer bush(3), a trapezoid pushing element(8) penetratingly mounted in the center of the housing, and a control handle(9) mounted at a rear part in the center of the housing for moving the pushing element to and fro. terina © KIPO 2003 Select all Desel Search results : 835 doc(s) Representative Drawing **Representative Drawing** Country Pat.No. ▼ Kind ▲ KR 2002-0043013 A AUTOMO d I 2002-0043012 AUTOMO 2 KR A ¥ KR 2002-0043004 DEVICE A E7 • ٠ KR 2002-0042970 ELECTR 4a 21 KR 2002-0042937 A VEHICLE KR 2002-0042594 PALETTE Δ d T 2002-0042261 HEAD ED KR A BIOLOGI 2002-0074029 KR A PHOTOB KR 2002-0073776 COSMET KR DOUBLE 2002-0073876 A 6 2ш MEMBER 2002-0073465 KR GROOVE 55 KR 2002-0073237 COMPOSITION FOR PROTECTING REAIN CELL AND IMPROVING MEMORY CONTAINING ASIASARI RADIX EXTRACT



10

12

2

3

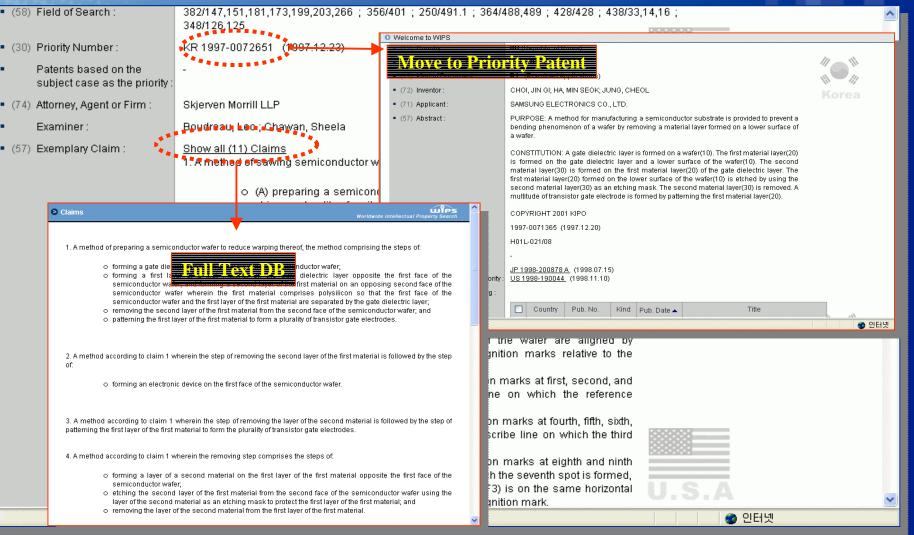
14. Detailed Info. View (1) - DILS

-								
	Save in Cabinet	Show Cabinet Claims (11) INPADO	CFamily(3) FI	Ref. (2)	PADOC Patent			
(54) Semiconductor wafer on which recognition marks are formed and method for sawing the wafer using the recognition marks								
(19) Country :	(19) Country : US (United States of America)							
 (11) Patent Nu 	(11) Patent Number : 6421456 (2002.07.16) (Published US20020085746): File Contents History(USPTO)							
(13) Kind of Document : B1 (Utility Patent Grant (no pre-grant publication) issued on or after January 2, 2001)								
• (75) lr 💻	Save in Cabinet] Show Cabinet	Claims (22) INPADOC Family (3) F-Ref. (0) FG Show INPADOC Pate	rd Save in Cabinet	Ehow Castret INPADOC Family (3) ON WHICH RECOGNITION MARKS ARE FORMED AND METHOD FOR	Show US Patent			
	ONDUCTOR WAFER ON WHICH RECOM COGNITION MARKS	NITION MARKS ARE FORMED AND METHOD FOR SAMING THE WAFER USING	(54) THE RECOGNITION MARKS	CHEWHEN RECOUNTED INVARIA AND FORMED AND METHOD FOR	CARDINIS THE VERFER DAINS			
· (12) Country	US (United States	a of Amazina)	 (19) Country: 	(A.R.U) BU				
 (11) Publicat 		1982.07.04) (Granted : USE421455.) * File Contents History(USPTO) 0000000	(11) Publication Number:	6425456 (2002.07.15) (See also: US.20020085746 AA)	innature [1]			
 (13) Kind of I 		At (Utility Patent Application published on or after January 2, 2001)		BA (PATENT (NO PREVIOUS PRE-GRANT PUBLICATION))	Show Gades			
(75) Inventor: SON. DAE WOO (CHEOMAN-CT (CHEOMAN-CT LEE YOUN SO			 (75) Inventor: 	SON DAE WOO LEE YOUN SOO KIII EYUNG MAN				
	(CHEONAN-CITY	(,KR)	 (73) Assignee : 	SAMSUNG ELECTRONICS COLITD				
(57) A . (73) Assiant	KIM, BYUNG MAN CCHEONAN-CITY		* (57) Ababadi: a	On a semiconductor water, recognition marks are fabricated scribe lines for the purpose of proper water alignment in water recognition mark has a distinctive pattern that is distinguished for	sawing process. Since the			
 (57) Abstract 	scribe lines for 8	uctor water, recognition marks are fabricated on the crossing points of he persoase of proper water alignment in water sawing process. Since the	nr di:	the chap, the recognition mark can be easily recognized by a cam and reduce the chance of water misaligning. When a part semiconductor chip is used for the alignment purpose, the cha	t of circuit pattern on the			
	the chip, the rect and reduce the	I has a distinctive pattern that is distinguished from other circuit patterns on synthion mark can be easily recognized by a camera in a sawing apparatus, chance of water misaligning. When a part of circuit pattern on the	ði.	relatively high due to the similarity between the part chosen as pattern. The present invention also provides a method for sa recognition marks.				
	relatively high du	hip is used for the alignment purpose, the chance of water misalignment as to the similarity between the part chosen and other parts of the circuit	(21) Application Number:	1999-205003 (1998-12.02)				
	pattern. The pre- recognition made	sent invention also provides a method for sawing the water using the 8.	• (51) IPO Code :	G09K-018100				
+ 1211 Application Flavinger: 1999-205000 (1999-12.02)								
recognition marks.								
(21) Application Number : 1998-205003 (1998.12.02)								
(51) IPC ⁷ Cod	le :	G06K-009/00						

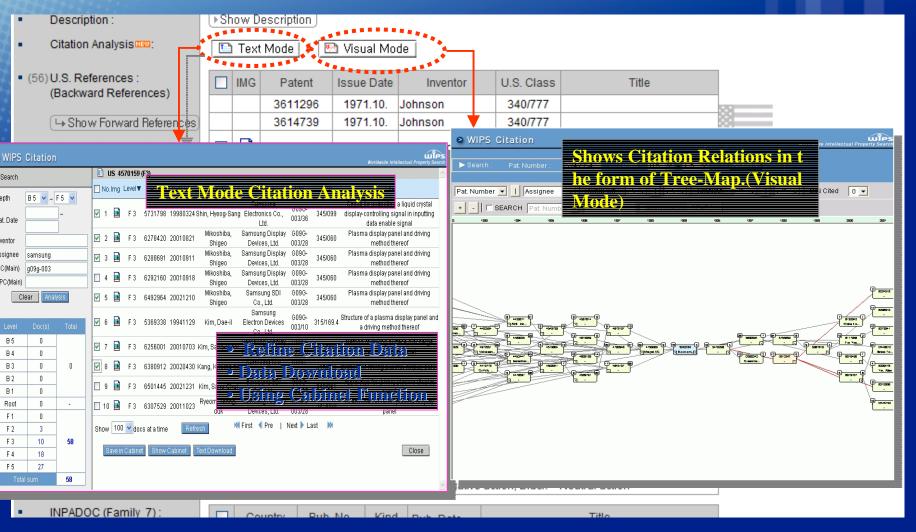
http://www.wipsglobal.com

WIPSGLOBAL

15. Detailed Info. View (2) – Full Information

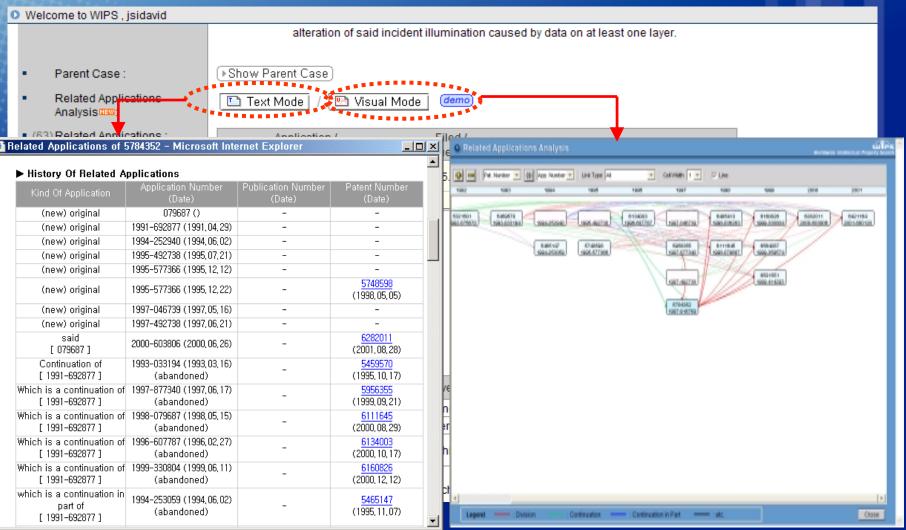


16. Detailed Info. View (3) – Citation Analysis



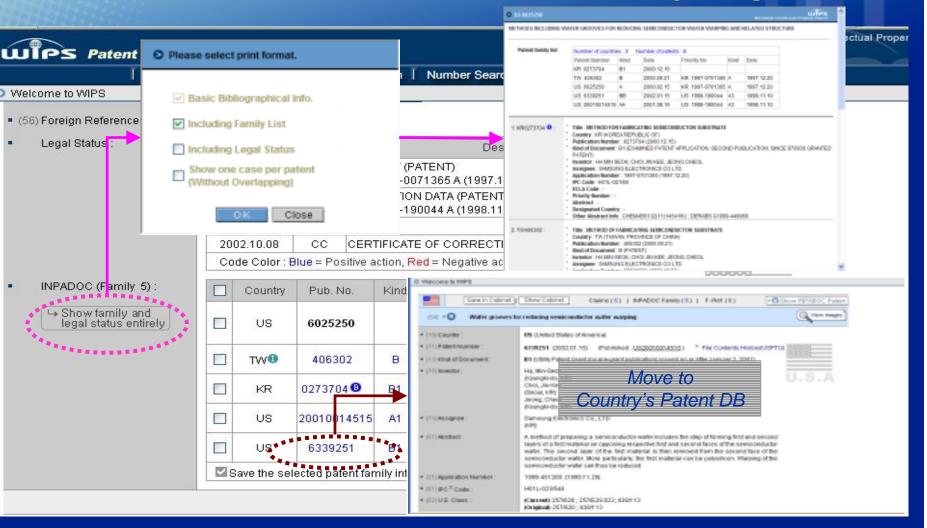


6. Detailed Info. View (4) — Related Application Analysis





7. Detailed Info. View (5) – Family/Legal Info.

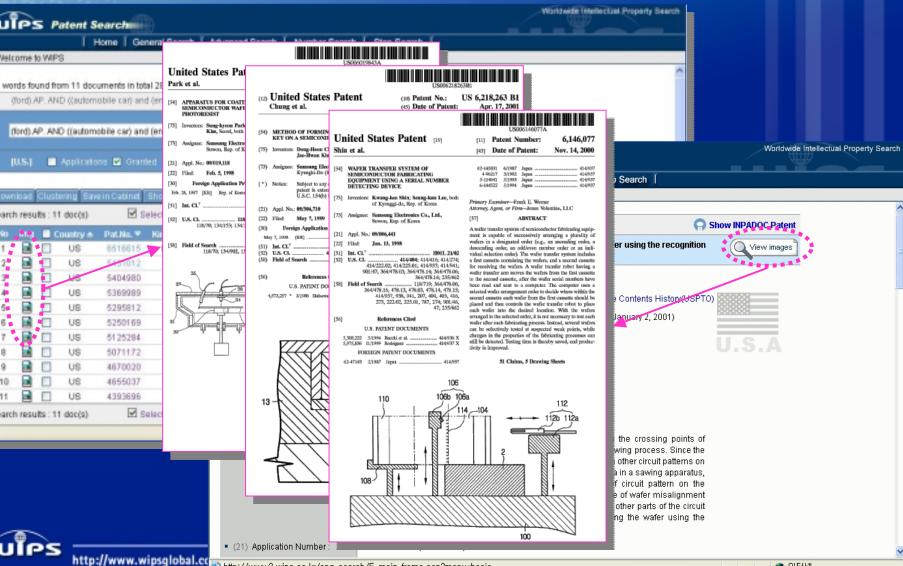




18. Detailed Info. View (6) – WIPS Family

• (21)	Application Number :	2001-682537 (2001.09.17)							
• (51)	IPC ⁷ Code :	B60L-008/00 ; B60K-001/00							
• (58)) U.S. Class. :) Field of Search :) Priority Number : Patents based on the subject case as the priority :	180/65 701/22 - <u>CA 24</u>	nal) 180/06 5.1,65.2,65 2 ; 364/426 03329 AA	5.3,65.4,65.6 5.02 ; 320/11	which is not shown as patent family of INP ADOC Data.		388/928.1 ; U	S.A	
				<u>A</u> (2003.06.2					
• (74)	(74) Attorney, Agent or Firm : Hanze, Carlos L.								
-	INPADOC (Family 4):		Country	Pub. No.	Kind	Pub. Date 🔺	Title		
	└→ Show family and legal status entirely		CA	2403329	AA	2003.03.17	Adaptive demagnetization compen motor in an electric or partially electron vehicle	emagnetization compensation for a	
			US	20030051928 B	³ A1	2003.03.20	Adaptive demagnetization compen motor in an electric or partially electronic vehicle		
			DE	<u>10243220</u>	A1	2003.06.12	/brid-elektrofahrzeug und tmagnetisierungskompensation daf?		S.A
			US	6591925 ^B	B1	2003.07.15	Adaptive demagnetization compen motor in an electric or partially electric vehicle		
		Save the selected patent family into the cabinet Basic Patent							
JĨe	<								

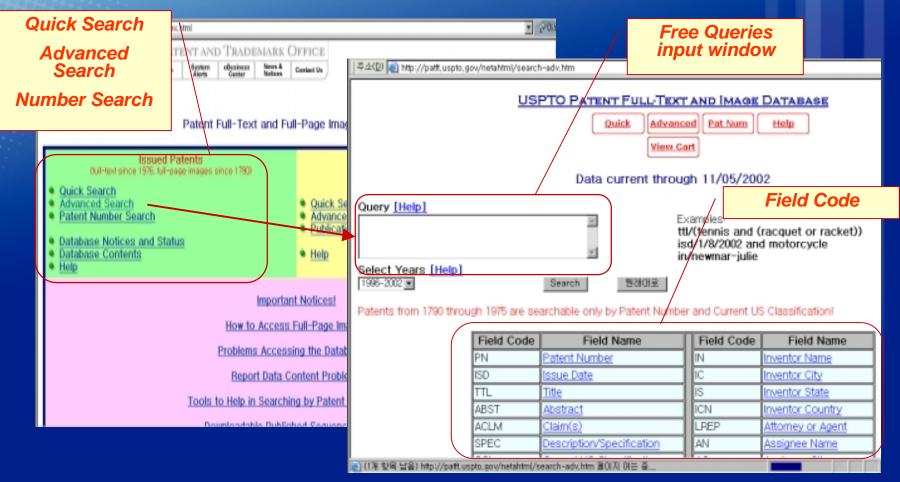
19. Full Image View



http://www2,wips.co,kr/eng_search/E_main_frame,asp?menu=basic

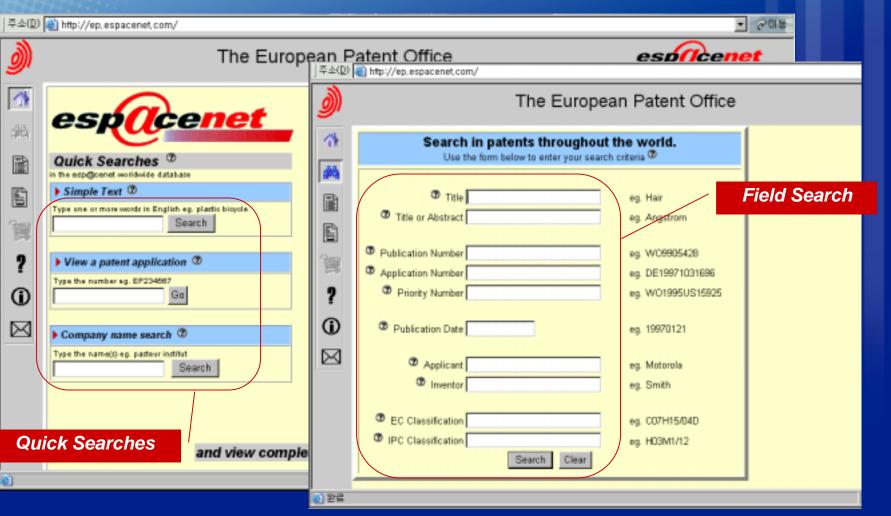
🙆 인터넷

1. USPTO(www.uspto.gov)





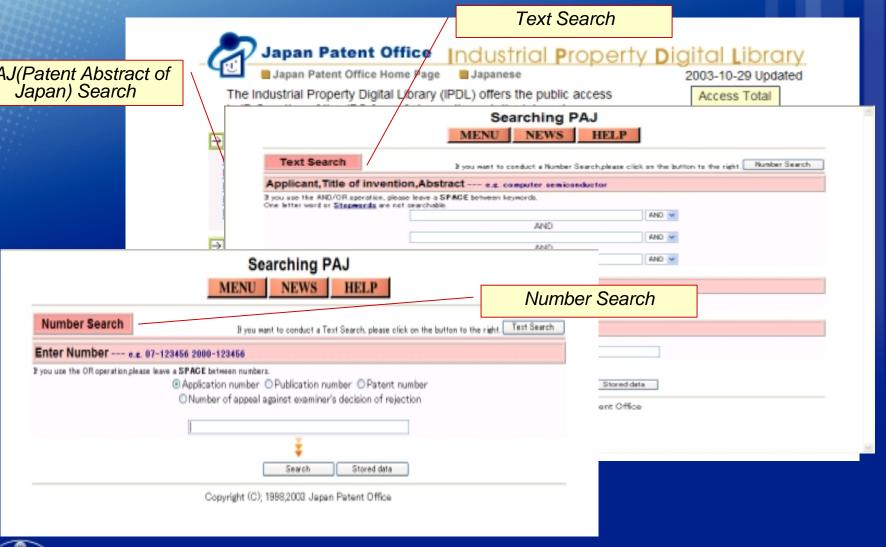
2. Espacenet (http://ep.espacenet.com)





Free Database

3. IPDL (http://www.ipdl.jpo.go.jp)



http://www.wipsglobal.com

Thank you for your Attention Continue to Patent Search Exercise

