

Korean

Closer look at Korean patent documents

- To find a way to be the PCT Minimum Documentation -

Feb. 21 - 25, 2005

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**Director, Information Planning Division
Korean Intellectual Property Office**



Korean Intellectual Property Office

Traditional Knowledge, Non-Patent Literatures, ...

Don't forget patent document itself,

while it is readily available without any additional cost.



?Korean patent document should be included in the PCT MD

1. KIPO is one of top 10 contributors to world prior art assets

?Ranked 7th in volume of PCT application, reaching 2,947 (*WIPO Yearly review of the PCT:2003*)

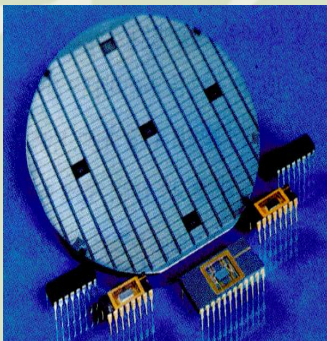
?Ranked 9th in volume of national patent application, reaching 190,022 (*WIPO Industrial property Annual statistics:2001*)

“Searching without Korean patent documents is like leaving a large portion of prior art unsearched”



2. More and more state-of-the-art technologies appear in Korean patent documents first

? In the field of information technology such as mobile phones, plasma display panels, semiconductors, etc.



TECHNOLOGY / RESOURCES

[OPINION](#)[REVIEWS](#)[RESOURCES](#)[IT JOBS](#)

Samsung unveils first DDR3 chips

Seoul

February 17, 2005



South Korea's Samsung Electronics says it has produced the world's first prototype of ultra-fast, low-power-consuming computer memory chips that would set the standard for next-generation products.

The new 512-Megabit DDR3 (double data rate 3) DRAM (dynamic random access memory) chip can process data at a rate of 1066 Megabits per second, the data equivalent of 8000 newspaper pages a second and double the speed of the existing DDR2 DRAM chips.

DDR3 will become the standard for the next generation of ultra-fast, low-power-consuming memory chips used in notebook computers, desktops and servers, the semiconductor giant said.

Reported by Agency France-Press (AFP)



Korean Intellectual Property Office

Some example of patents which are filed first in Korea

| First filing | | Second filing | |
|--|---|---------------|--------------------|
| Date | Application Number | Date | Application Number |
| 1999/11/06 | KR1999000049109 | 2000/11/06 | US2000000705786 |
| 1999/11/05 | KR1999000048926 | 2000/11/01 | US2000000702795 |
| 1999/01/07 | KR1999000026404 | 2000/06/30 | US2000000608891 |
| 1999/08/06 | KR1999000032303 | 2000/08/07 | US2000000632582 |
| 1998/01/08 1998/01/08 1998/08/03 | KR1998000000308 KR1998000000309 KR1998000031537 | 1999/01/08 | US1999000226961 |
| 1996/10/09 1996/12/31 | KR1996000044880 KR1996000080768 | 1997/10/09 | US1997000947469 |
| 1988/09/14 | KR1988000011870 | 1989/09/06 | US1989000403767 |



?In the area of biotechnology such as therapeutic cloning using stem cell

Korean

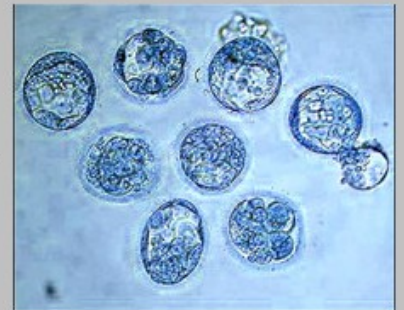


First hESC Line Obtained by Therapeutic Cloning

Thursday, 12 February 2004

South Korean and US researchers on Wednesday said, at the 2004 AAAS Annual Meeting in Seattle (12-16 Feb.), they had cloned a human embryo and extracted from it embryonic stem cells.

This is the first time researchers have reported the development of versatile "pluripotent" human embryonic stem cells, potentially capable of becoming any cell in the body, from a cloned human blastocyst. The stem cells were harvested from a blastocyst produced by transferring the nucleus of a non-reproductive ("somatic") cell, containing a woman's genetic blueprint, into a nucleus-free egg from the same donor.



A microscopic photo released by Seoul National University shows eight of the cloned embryos at the blastocyst stage. Photo by the courtesy of Seoul National University.

“Without searching Korean patent documents, fair amount of the newest technology will be missed”



Korean Intellectual Property Office

Some example of patents which are filed first in Korea

| First filing | | Second filing | |
|---|---|---------------|--------------------|
| Date | Application Number | Date | Application Number |
| 1999/06/30 1999/06/30 1999/06/30 1999/06/30 : | KR1999000026163 KR1999000026164 KR1999000026165 KR1999000026166 : | 2000/06/30 | EP2000000941006 |
| 1999/06/30 1999/06/30 1999/06/30 1999/06/30 | KR1999000026163 KR1999000026164 KR1999000026165 KR1999000026166 | 2000/06/30 | EP2000000941007 |
| 1999/06/30 1999/06/30 1999/06/30 1999/06/30 | KR1999000026163 KR1999000026164 KR1999000026165 KR1999000026166 | 2000/06/30 | EP2000000941005 |

“Without searching Korean patent documents, fair amount of the newest technology will be missed”

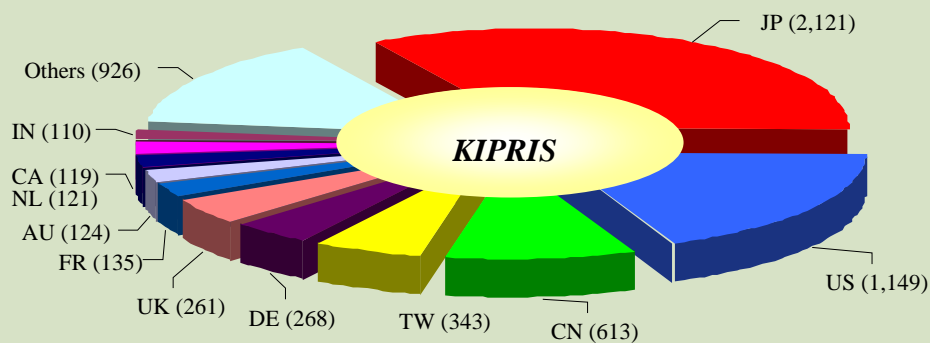


?Foreign demand for Korean patent documents increases rapidly

The Number of KIPRIS users

(as of '05.1. 21.)

| | | 2000 | 2001 | 2002 | 2003 | 2004 | Total |
|----------|---------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Domestic | New Members | 117,201 | 118,079 | 106,416 | 108,241 | 111,702 | 561,639 |
| | No. of Log-in | 1,244,197 | 1,897,588 | 2,336,345 | 2,731,055 | 3,498,783 | 5,478,130 |
| Foreign | New Members | 452 | 959 | 1,493 | 2,533 | 6,597 | 12,034 |
| | No. of Log-in | - | 11,642 | 22,015 | 20,348 | 58,215 | 112,220 |



The composition of foreign KIPRIS users



? Korean patent document are readily available without any additional cost

1. Korean patent documents are fully digitized. Therefore, they can be easily provided to the International Authorities

? With 90% of patent e-filing rate and digitization process

? TO about 50 foreign IPOs

Database status of KIPO

(Unit:1,000)

| Type | Number of | | Coverage | Format |
|------------|-----------|----------------|---------------------|--------|
| | Patents | Utility Models | | |
| Unexamined | 412 | 369 | 1983 to 1998 | Image |
| | 1,058 | 129 | 1983 to the present | SGML |
| Examined | 456 | 378 | 1947 to 1998 | Image |
| | 144 | 144 | 1979 to the present | SGML |
| Rejected | 281 | 370 | 1947 to 1998 | SGML |
| Abstracts | 1,110 | 719 | 1947 to the present | Text |
| KPA | 550 | | 1979 to the present | SGML |

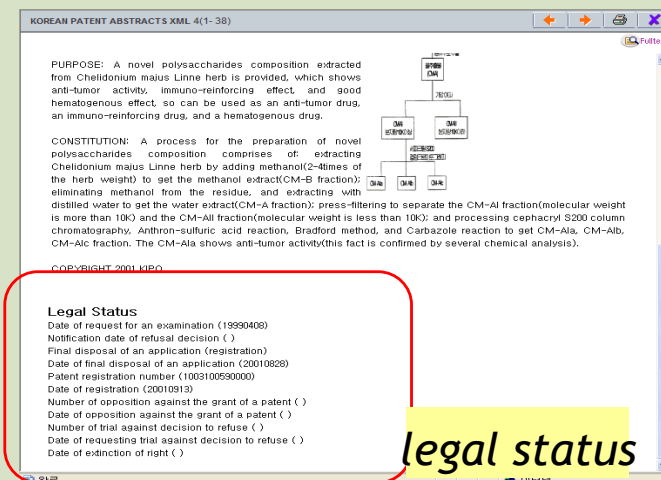
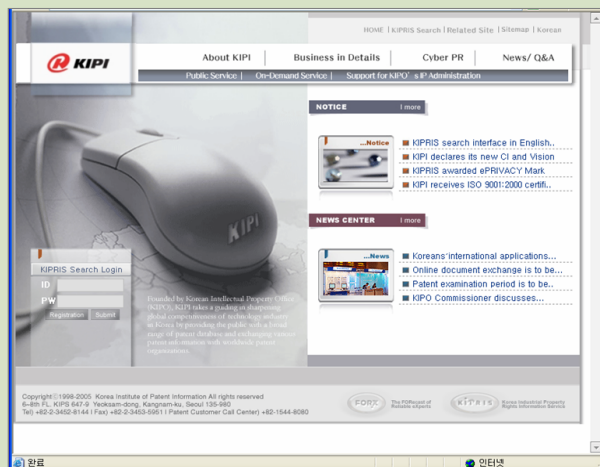


2. Korean patent documents are also available through the Internet

Korean

?The Korean Industrial Property Rights Information Service(KIPIRS)
provides free internet search service

?KPA, legal status in English, full text in Korean, etc.



Korean Intellectual Property Office

Search example in KIPRIS - abstract

1 Result-abstract

The screenshot shows the KIPRIS search results page. The search query is `TL=((phyto?*herb?)*extract?)*IPC=(a61k35/78)`. The results are sorted by 'Pub.No'. Annotations include:

- 1**: Points to the search query input field.
- 2**: Points to the 'Fulltext' link for the third result.
- 3**: Points to the 'Fulltext' link for the third result.
- 4**: Points to the 'Bookmark' button.

Yellow callout boxes provide additional information:

- refine search result**: Points to the search query.
- Tips on queries, operators, etc.**: A general tip box.
- sort by No., doc. kind, IPC, title or applicant**: Points to the sorting options.
- bookmark**: Points to the bookmark button.
- hyperlink to KPA with legal status(xml)**: Points to the 'Fulltext' link.
- hyperlink to original full-text(KR)**: Points to the 'Fulltext' link.



Search example in KIPRIS - legal status

Result- KPA with legal status(xml)

functions
go prev./next doc.,
print, close

bibliographic info
No.(date), title,
doc. kind, IPC, names

representative drawing

abstract

legal status

KPA contains bibliographic information, English abstract, representative drawing(or chemical formula) and legal status.

Legal Status
Date of request for an examination (19990408)
Notification date of refusal decision ()
Final disposal of an application (registration)
Date of final disposal of an application (20010828)
Patent registration number (1003100590000)
Date of registration (20010913)
Number of opposition against the grant of a patent ()
Date of opposition against the grant of a patent ()
Number of trial against decision to refuse ()
Date of requesting trial against decision to refuse ()
Date of extinction of right ()



Search example in KIPRIS - Korean full text

3 Result-original doc.(Korean; pdf/sgml)

Original Korean document(data format : pdf, sgml) of KPA is linked.

**(19)대한민국특허청(KR)
(12) 등록특허공보(B1)**

공고특허 10-0160108

(51) Int. Cl. A61K 35/78 (45) 공고일자 1999년 10월 01일
(11) 등록번호 10-0160108 (24) 등록일자 1998년 08월 14일

(21) 출원번호 10-1998-0020160 (65) 공개번호 특 1997-0000235
(22) 출원일자 1998년 05월 23일 (43) 공개일자 1997년 01월 21일
(62) 원출원 특허 특 1995-0015639 원출원일자 : 1995년 06월 14일

(73) 특허권자 최영태 경상북도 포항시 북구 대신동 7
(72) 발명자 최영태 경상북도 포항시 북구 대신동 7
(74) 대리인 김명신 강성구

심사관 : 신종인

(54) 조각자나무로부터 추출한 생약 성분으로 된 함입제

요약
본 발명은 조각자나무를 채집, 수집, 선정하고, 기원을 감정한 상기 생약을 세절하고, 생약 중량 100g의 5-9 배인 300-900g의 탕액이 100g이 될 때까지 3-6시간 중탕시켜 추출한 조각자나무 화 것으로서, 수득된 생약성분이 한방표 *Salvia miltiorrhiza*에

KPAHelp

- Search Item
- Tips on Fielded Searching
 - IPC
 - Applicant
 - Inventor
 - Abstract
 - Application Number
 - Application Date
 - Publication Number
 - Publication Date
 - Title
 - Kind
- FAQ

Application Date (AD)

This field contains the date when a complete application was received by the Korean Intellectual Property Office, following receipt of all filing materials requirements. You can search for a range of dates using the Generating Date window. Select the relevant date between the Start date and End date.

Example
ex) If you click Application Date field, 'Date Generating Window' will pop up.

Generating Date Window - Microsoft Internet Explorer

Date generating function |

Start Date: 2004 Year 4 Month 1 Day
End Date: 2004 Year 4 Month 8 Day

Submit Clear

KPA Search Tips, FAQs on queries, operators, format, etc. are provided.

4 KPA Search Tip · Help

3. The Korean Patent documents are accessible in English

- Korean Patent Abstracts (KPA), legal status, etc.
- Korean-English machine translator (from 2006)

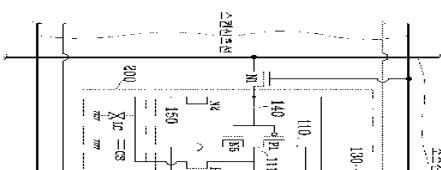
KOREAN PATENT ABSTRACTS(KR)

Document Code:A
(11) Publication No.1020020050018 (43) Publication.Date. 20020626
(21) Application No.1020000079350 (22) Application Date. 20001220
(51) IPC Code:
G09G 3/36

(71) Applicant:
SAMSUNG ELECTRONICS CO., LTD.
(72) Inventor:
LEE, HYEONG GON
PARK, YONG GU
(30) Priority:

(54) Title of Invention
LOW POWER LCD DEVICE

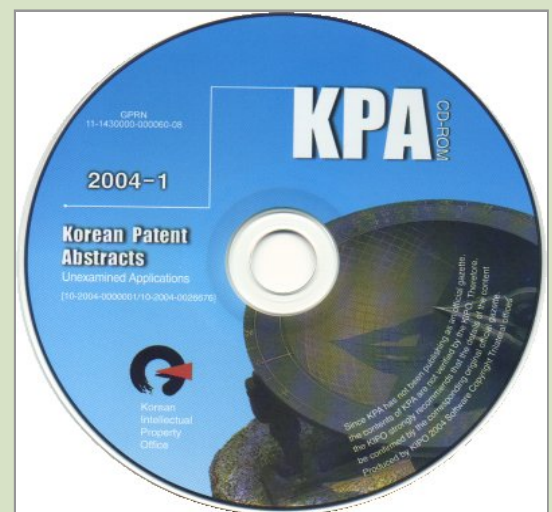
Representative drawing



(57) Abstract:

PURPOSE: A low power LCD device is provided to reduce power consumption by driving an LCD device under low power.

CONSTITUTION: A pixel switch(N1) outputs or intercepts a video signal from the first electrode to the third electrode(140) according to a voltage state of the second electrode. A power source portion



?What should be done?

1. Just put several words into the PCT Rule34.

- ?Put “the Republic of Korea” in PCT Rule34.1(c)(i)
- ?Add “(vii) the Unexamined ...” in PCT Rule34.1(c)
- ?Put “Korean” and “the Republic of Korea” in PCT Rule34.1(e)

*“(i) the patents issued in and after 1920 by France, the former Reichspatentamt of Germany, Japan,, **the Republic of Korea**, the former Soviet Union, Switzerland (in the French and German languages only), the United Kingdom, and the United States of America”, (Amended)*

*“(?) **the Unexamined Utility Models and Registered Utility Models of the Republic of Korea.**” (Added)*

*“(e) Any International Searching Authority whose official language, or one of whose official languages, is not Japanese, **Korean**, Russian or Spanish is entitled not to include in its documentation those patent documents of Japan, **the Republic of Korea**, the Russian Federation and the former Soviet Union as well as those patent documents in the Spanish language, respectively, for which no abstracts in the English language are generally available. ...” (Amended)*



2. Just access to KIPRIS

?KPA, legal status in English, full text in Korean, etc.

?Korean-English machine translator (*at the end of 2005*)

3. Just request KIPO to provide Korean patent documents

?KIPO is ready to provide



?Conclusion

KIPO hopes that KIPO's proposal is considered favorably by you and we can reach an agreement that it is necessary for Korean Patent documents need to be included in PCT MD

Korean

Thank you !

E-mail address: tamer@kipo.go.kr



Korean Intellectual Property Office