

# Retrieving and Utilizing External Results: Sources and Types of External Results

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**Kenji KUMAGAI**  
Assistant Director,  
International Affairs Division  
Japan Patent Office



# Source of External Results

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- AIPN (JP)  
<http://aipn.ipdl.inpit.go.jp/>
- European Patent Register (EP)  
<https://register.epo.org/espacenet/regviewer>
- DPMAregister (DE)  
<http://register.dpma.de/DPMAregister/pat/einsteiger>
- Public Pair (US)  
<http://portal.uspto.gov/external/portal/pair>
- K-PION (KR)  
<http://kposd.kipo.go.kr:8088/up/kpion/>

**Retrieving and Utilizing  
External Results:  
Advanced Industrial Property Network  
(AIPN)**

# AIPN – What's the AIPN?

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- The AIPN is the Web based Service **only** for **Examiners** in the Foreign IP Offices.
  - The AIPN provides **Dossier Information and Legal status** of applications examined by JPO.
  - Almost all Information is translated into English by **Japanese-English Machine Translation**.
  - The AIPN is the Useful Tool for **Utilizing Examination Results** done by JPO.
-

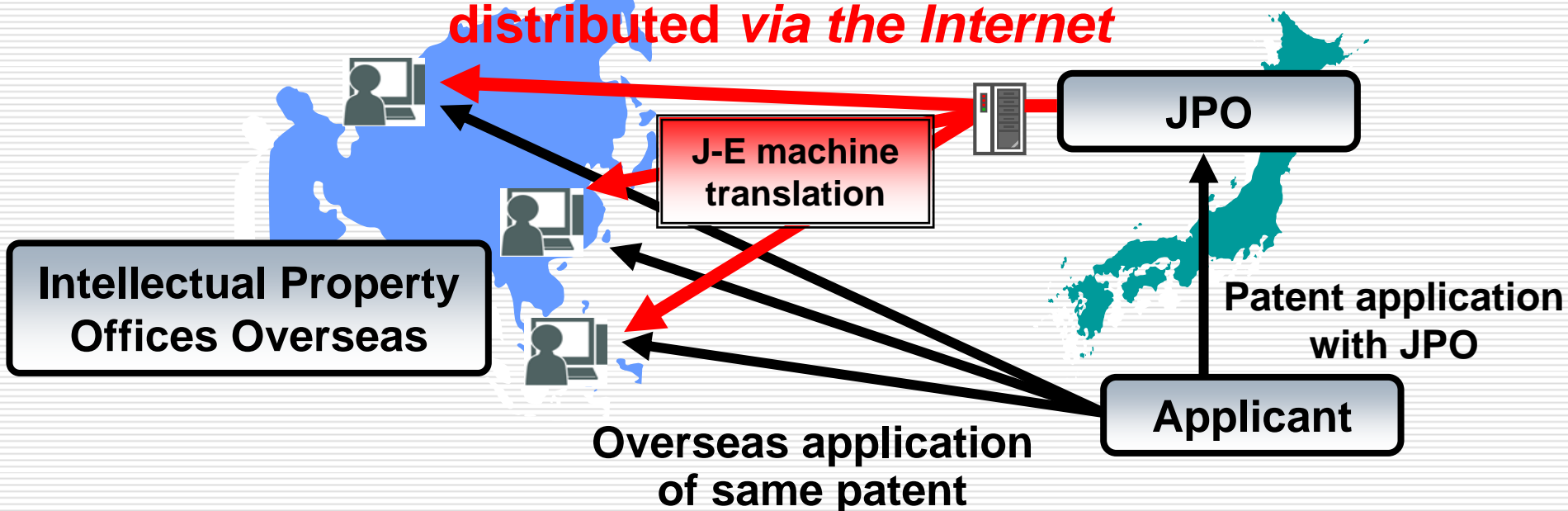
# AIPN – Current Image

## Providing JPO Examination Results in English

- 
- ① Reduces work load of foreign examiners
  - ② Accelerates overseas rights acquisition of applicants

AIPN: Advanced Industrial Property Network

**JPO examination results are distributed via the Internet**



# Registered IP Offices

•The AIPN started on 12 October 2004, now it is used in **58 IPOs** all over the world.



For registration: [PA0868@jpo.go.jp](mailto:PA0868@jpo.go.jp)

## File Wrapper Information

- Office Actions or other Dossier Information
- Legal Status of the Application or Prosecution history
- Cited Documents / Patent Family Information

## Machine Translation Dictionaries

- Dictionary for IP terms: over 200,000 words
- User Dictionary: 75,000 words  
5,000 words will be added every year

For access to a Japanese application, the AIPN accepts various numbers like the following:

- (1) **Japanese Publication Number**
- (2) **Japanese Application Number**
- (3) **PCT Application Number\***
- (4) **Priority Number\***

\*available if the Japanese patent family exists.



# Information by using Machine Translation

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The AIPN provides detailed information of applications which were published by JPO.

- (1) Patent Family Data
- (2) Legal Status, Cited Documents
- (3) Full Text of Publications
- (4) Application Data and Transaction history
- (5) File Wrapper (Dossier) Information

# File Wrapper Information

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File Wrapper Information means the same as Dossier Information, and includes documents like the following:

- (1) **Filing Documents**
- (2) **Office Actions** (e.g. Notification of Reasons for Refusal)
- (3) **Search Reports by Search Organizations**
- (4) **Written Amendments / Arguments**
- (5) **Examiner's notes**

# AIPN – How to use the AIPN

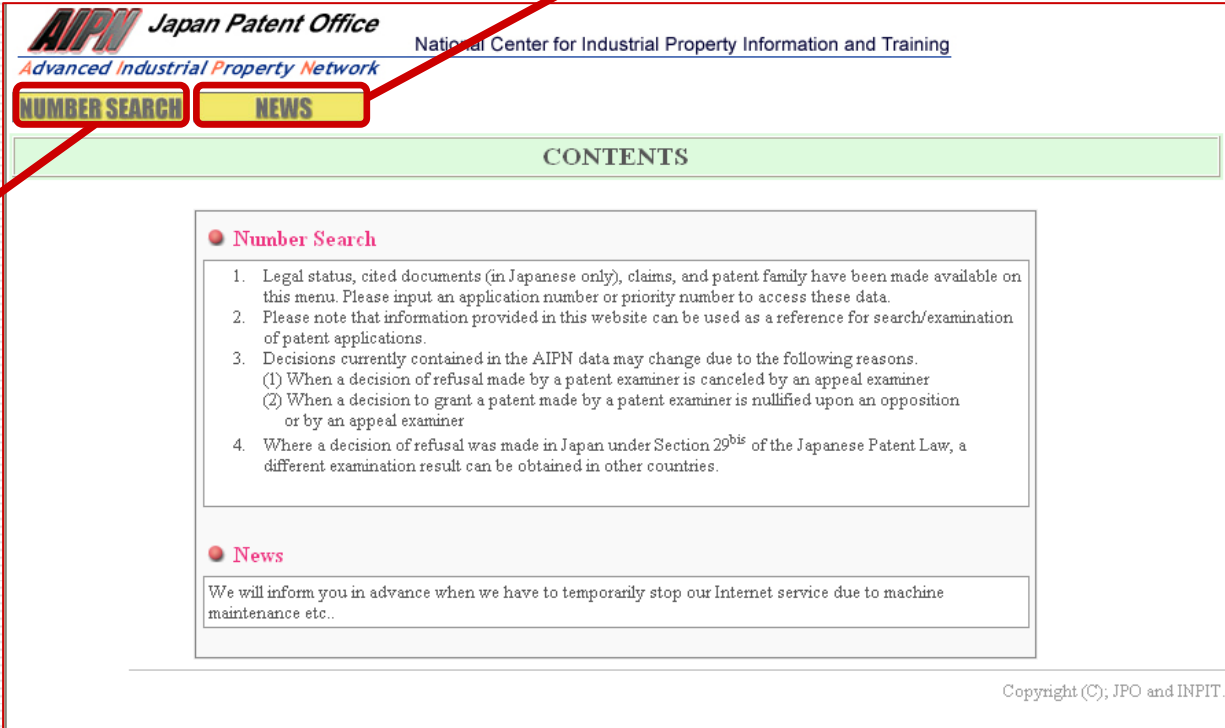
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News

□ Top Page

Number Search



The screenshot shows the AIPN website interface. At the top, it says "AIPN Japan Patent Office" and "National Center for Industrial Property Information and Training". Below that is "Advanced Industrial Property Network". There are two buttons: "NUMBER SEARCH" and "NEWS". A green bar below the buttons says "CONTENTS". Under "CONTENTS", there are two sections: "Number Search" and "News".

**Number Search**

1. Legal status, cited documents (in Japanese only), claims, and patent family have been made available on this menu. Please input an application number or priority number to access these data.
2. Please note that information provided in this website can be used as a reference for search/examination of patent applications.
3. Decisions currently contained in the AIPN data may change due to the following reasons.  
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(2) When a decision to grant a patent made by a patent examiner is nullified upon an opposition or by an appeal examiner
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A, U, B, Y : 2001-123456 or H13-123456  
A1 : WO1998-123456 or WO98-123456  
U, B, Y : 3234567

Display type  File Wrapper Information  Patent Family

Note: Please select "Patent Family" when you search by PCT international publication number as corresponding file wrapper information is not directly accessible.

### Search from OTHER Application/Priority Number

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Priority Number

e.g. : US-2003-668357, WO-1998-US012345

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- Application No.
- Priority No.
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### Search from No. of Foreign Document

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- Priority No.

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B : Examined Patent Publication (Kokoku)

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U : Unexamined Utility Model Publication (Kokai)

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A : Unexamined Patent Publication based on Int'l Application

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## Patent application number 2003-123456

File Wrapper Document List – Click document title to display contents.  
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1. [28.04.2003: Request for a Patent](#)
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1. [28.04.2003: Request for a Patent](#)
2. [28.04.2003: Description](#)
3. [28.04.2003: Drawings](#)
4. [28.04.2003: Abstract](#)  
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5. [14.02.2005: Request for Examination](#)  
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7. [01.10.2007: Assessment on Search Report by Registered Searching Officer](#)
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## 特許願2003-123456

以下リストに表示される日付は「dd.mm.yyyy」の形式で表示されます。

■ [出願マスタ基本項目](#)

1. 28.04.2003: 特許願
2. 28.04.2003: 明細書
3. 28.04.2003: 図面
4. 28.04.2003: 要約書  
[---: 認定・付加情報](#)
5. 14.02.2005: 出願審査請求書  
[---: 認定・付加情報](#)
6. 28.09.2007: 検索報告書
7. 01.10.2007: 検索外注利用状況票
8. 09.10.2007: 拒絶理由通知書
9. 05.12.2007: 出願取下書  
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6. [28.09.2007: Search Report by Registered Searching Organization](#)
7. [01.10.2007: Assessment on Search Report by Registered Searching Organization](#)
8. [09.10.2007: Notification of Reasons for Refusal](#)
9. [05.12.2007: Written Withdrawal of Application](#)  
[-- . -- . ---- : -- Certified or Appended Information](#)

## ★ Notification of Reasons for Refusal ← Reasons for refusal

Application number: Application for patent 2003-362601  
Date of Drafting: Heisei 20(2008) June 23  
Patent examiner: WATANABE, Junya 3131 Four B00  
Applicant: SAN-EI GEN F.F.I INC.  
Applied Provisions: Article 29(1), Article 29(2)

This application should be refused for the reason that the following Reason. If the applicant has any argument against the reason, such argument should be submitted within 60 days from the dispatch date of this notification.

## ★ Reason ← Detail of the reasons

[Reason 1] The claimed invention(s) in the each claim listed below of this patent application should not be granted a patent under the provision of Patent Law Article 29 (1)(iii) for the reason that the claimed invention(s) has/have been deemed to be identical with the invention(s) described in the distributed publication(s) listed below or made available to the public through electric telecommunication lines in Japan or other foreign countries prior to the filing of the patent application.  
[Reason 2] The claimed invention(s) in the each claim listed below of this patent application should not be granted a patent under the provision of Patent Law Article 29 (2) for the reason that the claimed invention(s) could have easily been made by persons who have common knowledge in the technical field to which the claimed invention(s) pertains, on the basis of the invention(s) described in the distributed publication(s) listed below or made available to the public through electric telecommunication lines in Japan or other foreign countries prior to the filing of the patent application.  
Account (Please refer to "The list of cited documents etc." for cited documents etc.)

To Reason 2 cited document 1-4 Remarks:cited document 1-4, it is indicated [ 7 / Reasons 1 and 2 Claim 5 and ] about Claims 1-4 that the effect that thaumatin reinforces master Deveze's flavor is shown. Here, mustard contains ARIRU isothiocyanate as a pungent condiment ingredient. A person skilled in the art could have embodied the idea of based on the description of cited document 1-4, adjusting the loadings of thaumatin so that the pungent condiment of mustard may reinforce.

Claims 1-4 -- Reasons 1 and 2 Claims 6-7 -- Reason 2 cited document 5 Remarks: -- to cited document 5, the powder flavoring containing a red pepper extract and thaumatin is indicated.

It is indicated that the flavoring concerned was also racier than the contrast which does not contain thaumatin (refer to working example 18 especially). Here, since most flavor ingredients in the flavoring concerned of cited document 5 are red pepper extracts, the person skilled in the art who touched the description concerned is accepted to recognize as the flavor of red pepper being reinforced. Red pepper contains capsaicin as a pungent condiment ingredient. A person skilled in the art could have embodied the idea of based on the description of cited document 5, adjusting the loadings of thaumatin so that flavor may reinforce.

## ★ The list of cited documents etc. ← List of cited documents

1. Food, 1983 and 5 (3), p.12-13, 15-162. monthly hood chemicals, 1985, 1 (6), p.40-473. FFI journal, 2001, No.195, p.61-634. monthly hood chemicals, 1998, and 14(2) p.44-525. JP,H07-099918,A

(Note) By restriction of law or a contract, some or all of nonpatent literatures that was shown may not be sent.

### Record of the result of prior art search

- Technical-fields-to-be-searched IPC A23L1/22-237, 1/24 DB name CAplus/BIOSIS/WPIDS(STN) JSTPlus (JDreamII)
- Prior art documents Nothing

This record is not a component(s) of the reason(s) for refusal.

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A1 : WO1998-123456 or WO98-123456  
U, B, Y : 3234567

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Application Number   
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# Patent Family & Legal Status Window

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Searched Number : [2003-123456](#) [Legal status, Cited documents](#)

Patent Family

No.	Kind	Publication No.	Publ. Date	Application No.	Appl. Date	Related Information.
1	A	<a href="#">JP 2004-164561</a>	10.06.2004	JP 2003-0123456	28.04.2003	<a href="#">Legal status, Cited documents</a>
2	B2	<a href="#">US 7014374</a>	21.03.2006	US 2003-0670120	25.09.2003	
3	A1	US 2004218209	04.11.2004	US 2003-0670120	25.09.2003	

**Patent Family List**

Legal Status, Cited Documents Application Number. JP 2003-0123456 [File Wrapper Information](#)

**Legal Status** Click "File Wrapper Information" for the latest status.

[ Publication number ]	<a href="#">2004-164561</a>
[ Date of request for examination ]	14.02.2005
[ Date of sending the examiner's decision of rejection ]	
[ Kind of final disposal of application other than the examiner's ]	withdrawal
[ Date of final disposal for application ]	11.12.2007
[ Patent number ]	
[ Date of registration ]	
[ Number of appeal against examiner's decision of rejection ]	
[ Date of requesting appeal against examiner's decision of rejection ]	
[ Date of extinction of right ]	
[ Trial or opposition number ]	
[ Date of demand for trial or opposition ]	
[ Kind of final disposal of trial or opposition ]	
[ Date of final disposal of trial or opposition ]	
[ Renewal date ]	31.07.2008

**Legal Status & Cited Document**

**Cited Documents**

No.	Kind	Document No.	Patent Family
1	A	<a href="#">JP 07-98637</a>	<a href="#">Patent Family</a>
2	A	<a href="#">JP 2000-20275</a>	<a href="#">Patent Family</a>
3	A	<a href="#">JP 05-127850</a>	<a href="#">Patent Family</a>



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## Patent Family

No.	Kind	Publication No.	Publ. Date	Application No.	Appl. Date	Related Information.
1	A	<a href="#">JP 2004-164561</a>	10.06.2004	JP 2003-0123456	28.04.2003	<a href="#">Legal status, Cited documents</a>
2	B2	<a href="#">US 7014374</a>	21.03.2006	US 2003-0670120	25.09.2003	
3	A1	US 2004218209	04.11.2004	US 2003-0670120	25.09.2003	

Legal Status, Cited Documents

Application Number. JP 2003-0123456

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[ Publication number ]	<a href="#">2004.164561</a>
[ Date of request for examination ]	14.02.2005
[ Date of sending the examiner's decision of rejection ]	
[ Kind of final disposal of application other than the examiner's ]	withdrawal
[ Date of final disposal for application ]	11.12.2007
[ Patent number ]	
[ Date of registration ]	
[ Number of appeal against examiner's decision of rejection ]	
[ Date of requesting appeal against examiner's decision of rejection ]	
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English Translation of Full Document

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Advanced Industrial Property Network

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2004-164561

(43)Date of publication of application : 10.06.2004

(51)Int.Cl. G06F 3/12  
B41J 29/00  
B41J 29/38  
B41J 29/42  
H04N 5/76

(21)Application number : 2003-123456

(71)Applicant : SEIKO EPSON CORP

(22)Date of filing : 28.04.2003

(72)Inventor : HAMAGUCHI YOSHIHARU  
TORIGOE YUSUKE

(30)Priority

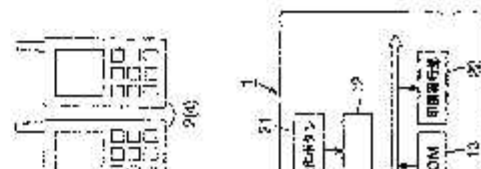
Priority number : 2002279423 Priority date : 25.09.2002 Priority country : JP

### (54) APPARATUS AND METHOD FOR REPRODUCTION CONDITION SETUP, AND REPRODUCTION OUTPUT APPARATUS

(57)Abstract:

PROBLEM TO BE SOLVED: To provide an apparatus and a method for reproduction, which can perform recording processing for communication information from external devices without setup of reproduction conditions and acquire appropriate printing output by switching reproduction conditions using communication protocols of an external device to be connected.

SOLUTION: A setting value table 23 is stored in an EEPROM 15, and printing conditions for every identifier are set in the setting value table 23. When receiving communication





# Document Screening

[FULL CONTENTS](#) [CLAIM + DETAILED DESCRIPTION](#) [TECHNICAL FIELD](#) [PRIOR ART](#) [EFFECT OF THE INVENTION](#) [TECHNICAL PROBLEM](#) [MEANS](#) [DESCRIPTION OF DRAWINGS](#) [DRAWINGS](#)

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#### CLAIM + DETAILED DESCRIPTION

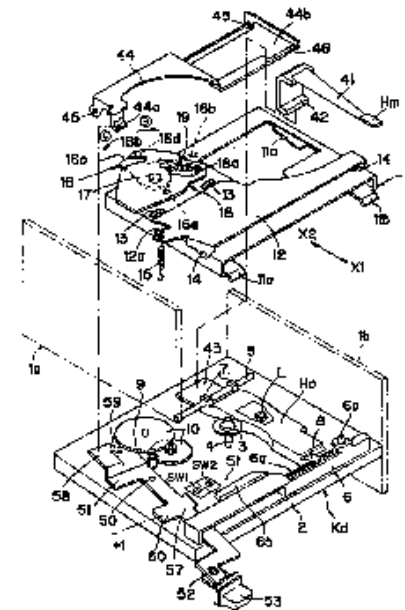
[Claim(s)]

[Claim 1] If it has the mode change member which can be displaced between the disk blowdown mechanism which discharges the disk in a set state, and a playback mode position and a discharge mode position and the mode change member is manually displaced from a playback mode position to a discharge mode position Disk drive equipment characterized by being constituted so that the disk in a set state may be discharged by said disk blowdown mechanism.

[Claim 2] The head migration mechanism in which a head is \*\*\*\*(ed) to the set disk, If it has the mode change member which can be displaced between a reproduction mode position and a record mode position and

Drawing selection

[ 1 ]



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# Select the Drawing

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### CLAIM + DETAILED DESCRIPTION

[Claim(s)]

[Claim 1] If it has the mode change member which can be displaced between the disk blowdown mechanism which discharges the disk in a set state, and a playback mode position and a discharge mode position and the mode change member is manually displaced from a playback mode position to a discharge mode position Disk drive equipment characterized by being constituted so that the disk in a set state may be discharged by said disk blowdown mechanism.

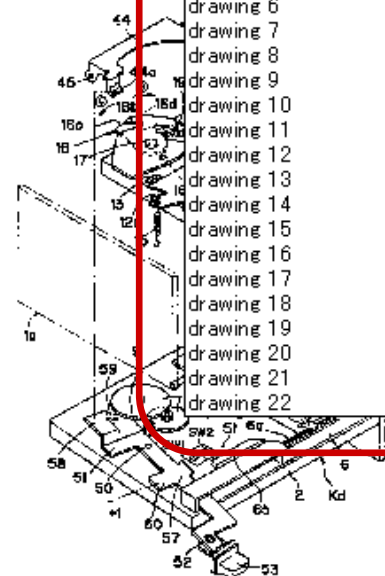
[Claim 2] The head migration mechanism in which a head is \*\*\*\*(ed) to the set disk, If it has the mode change member which can be displaced between a reproduction mode position and a record mode position and

Drawing selection Representative drawing ▾

Representative drawing

- drawing 1
- drawing 2
- drawing 3
- drawing 4
- drawing 5
- drawing 6
- drawing 7
- drawing 8
- drawing 9
- drawing 10
- drawing 11
- drawing 12
- drawing 13
- drawing 14
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- drawing 16
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- drawing 18
- drawing 19
- drawing 20
- drawing 21
- drawing 22

[FIG. 1]



[Translation done.]

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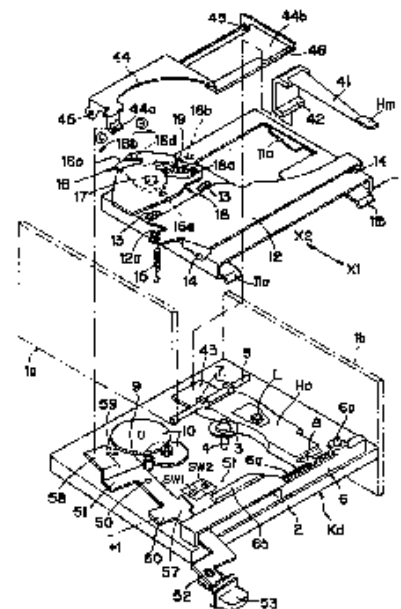
[Claim(s)]

[Claim 1] If it has the mode change member which can be displaced between the disk blowdown mechanism which discharges the disk in a set state, and a playback mode position and a discharge mode position and the mode change member is manually displaced from a playback mode position to a discharge mode position Disk drive equipment characterized by being constituted so that the disk in a set state may be discharged by said disk blowdown mechanism.

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Drawing selection

[ 1 ]



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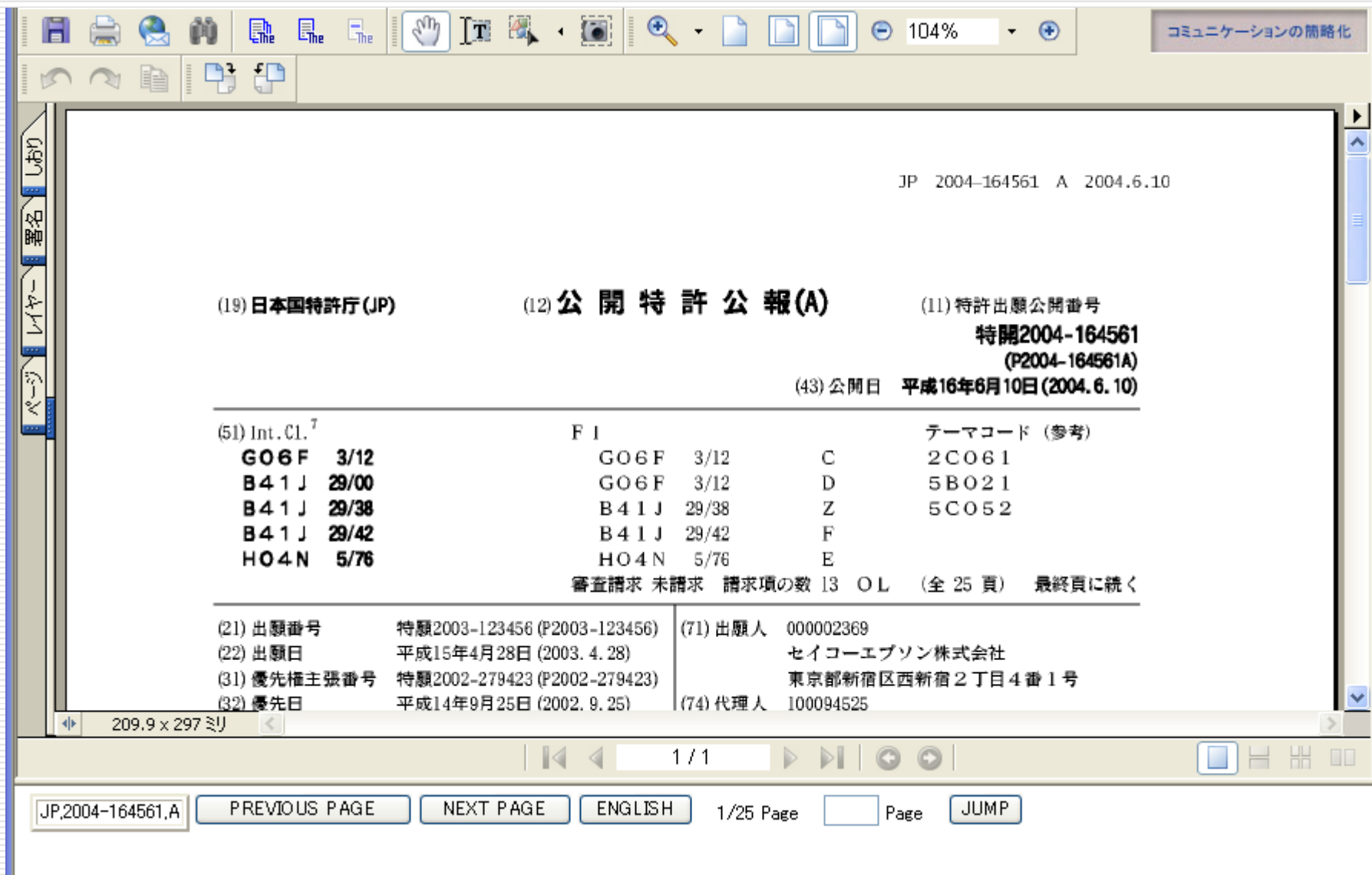
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JP 2004-164561 A 2004.6.10

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特開2004-164561  
(P2004-164561A)

(43) 公開日 平成16年6月10日 (2004.6.10)

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(51) Int. Cl. <sup>7</sup>

	F I	テーマコード (参考)
GO6F 3/12	GO6F 3/12 C	2C061
B41J 29/00	GO6F 3/12 D	5B021
B41J 29/38	B41J 29/38 Z	5C052
B41J 29/42	B41J 29/42 F	
HO4N 5/76	HO4N 5/76 E	

審査請求 未請求 請求項の数 13 O L (全 25 頁) 最終頁に続く

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(21) 出願番号	特願2003-123456 (P2003-123456)	(71) 出願人	000002369
(22) 出願日	平成15年4月28日 (2003.4.28)		セイコーエプソン株式会社
(31) 優先権主張番号	特願2002-279423 (P2002-279423)		東京都新宿区西新宿2丁目4番1号
(32) 優先日	平成14年9月25日 (2002.9.25)	(74) 代理人	100094525

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US007014374B2

(12) **United States Patent**  
**Hamaguchi et al.**

(10) Patent No.: **US 7,014,374 B2**  
(45) Date of Patent: **Mar. 21, 2006**

(54) **PRINTING APPARATUS AND PRINTING METHOD FOR PERFORMING PRE-COMMUNICATION WITH AN EXTERNAL DEVICE**

(75) Inventors: **Yoshiharu Hamaguchi**, Nagano-ken (JP); **Yusuke Torigoe**, Nagano-ken (JP)

(73) Assignee: **Seiko Epson Corporation**, Tokyo (JP)

(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 63 days.

(21) Appl. No.: **10/670,120**

(22) Filed: **Sep. 25, 2003**

(65) **Prior Publication Data**  
US 2004/0218209 A1 Nov. 4, 2004

(30) **Foreign Application Priority Data**  
Sep. 25, 2002 (JP) ..... 2002-279423  
Nov. 1, 2002 (JP) ..... 2002-320578  
Apr. 28, 2003 (JP) ..... 2003-123456

(56) **References Cited**  
**U.S. PATENT DOCUMENTS**  
2002/0172345 A1\* 11/2002 Wu ..... 379/220.01  
2003/0081240 A1\* 5/2003 Soto et al. .... 358/1.15  
2003/0133154 A1\* 7/2003 Ohyama et al. .... 358/1.15  
2003/0222985 A1\* 12/2003 Goto et al. .... 348/207.2  
2004/0090543 A1\* 5/2004 Suchiro ..... 348/231.99

**FOREIGN PATENT DOCUMENTS**  
JP 11341065 A \* 12/1999  
JP 11355704 A \* 12/1999  
JP 2001-290612 10/2001  
JP 2003309618 A \* 10/2003  
JP 2004013350 A \* 1/2004

\* cited by examiner

*Primary Examiner*—Minh Chau  
(74) *Attorney, Agent, or Firm*—Sughrue Mion, PLLC

(57) **ABSTRACT**  
The present invention provides a printing method and the like with which high-quality and high-speed printing is possible. The printing method includes: a step of performing pre-communication with an external device before print data are obtained from the external device; a step of obtaining

# Legal Status & Cited Documents

No.	Kind	Publication No.	Publ. Date	Application No.	Appl. Date	Related Information.
1	A	<a href="#">JP 2004-164561</a>	10.06.2004	JP 2003-0123456	28.04.2003	<a href="#">Legal status, Cited documents</a>
2	B2	<a href="#">US 7014374</a>	21.03.2006	US 2003-0670120	25.09.2003	
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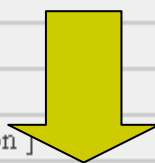
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2	A	<a href="#">JP 2000-20275</a>	<a href="#">Patent Family</a>
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## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 07-098637

(43)Date of publication of application : 11.04.1995

(51)Int. CI.

G06F 3/12

B41J 5/30

(21)Application number : 05-243149

(71)Applicant : FUJI XEROX CO LTD

(22)Date of filing : 29.09.1993

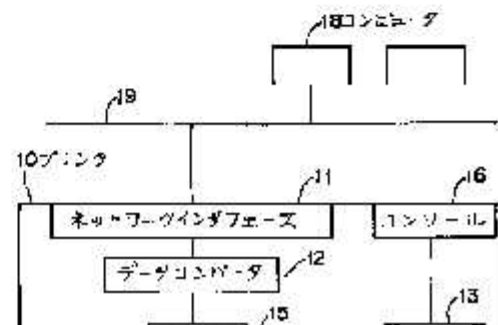
(72)Inventor : SATO MITSURU

(54) PRINTER

(57)Abstract:

PURPOSE: To use the function of a printer where the picture generation program of a computer cannot be used and to prevent the print output of the other user from being affected in the printer connected to a network.

CONSTITUTION: A registration means 13 registers a user name or a network address to be used in a holding means 14 by associating it with a processing attribute which the user uses. When the user requests output to the printer, an addition means 15 extracts the user name included in the output request or the network address to be used, extracts the processing attribute registered by associating it to them from the holding means 14 and transfers it with picture data of the user to a picture output part 17.



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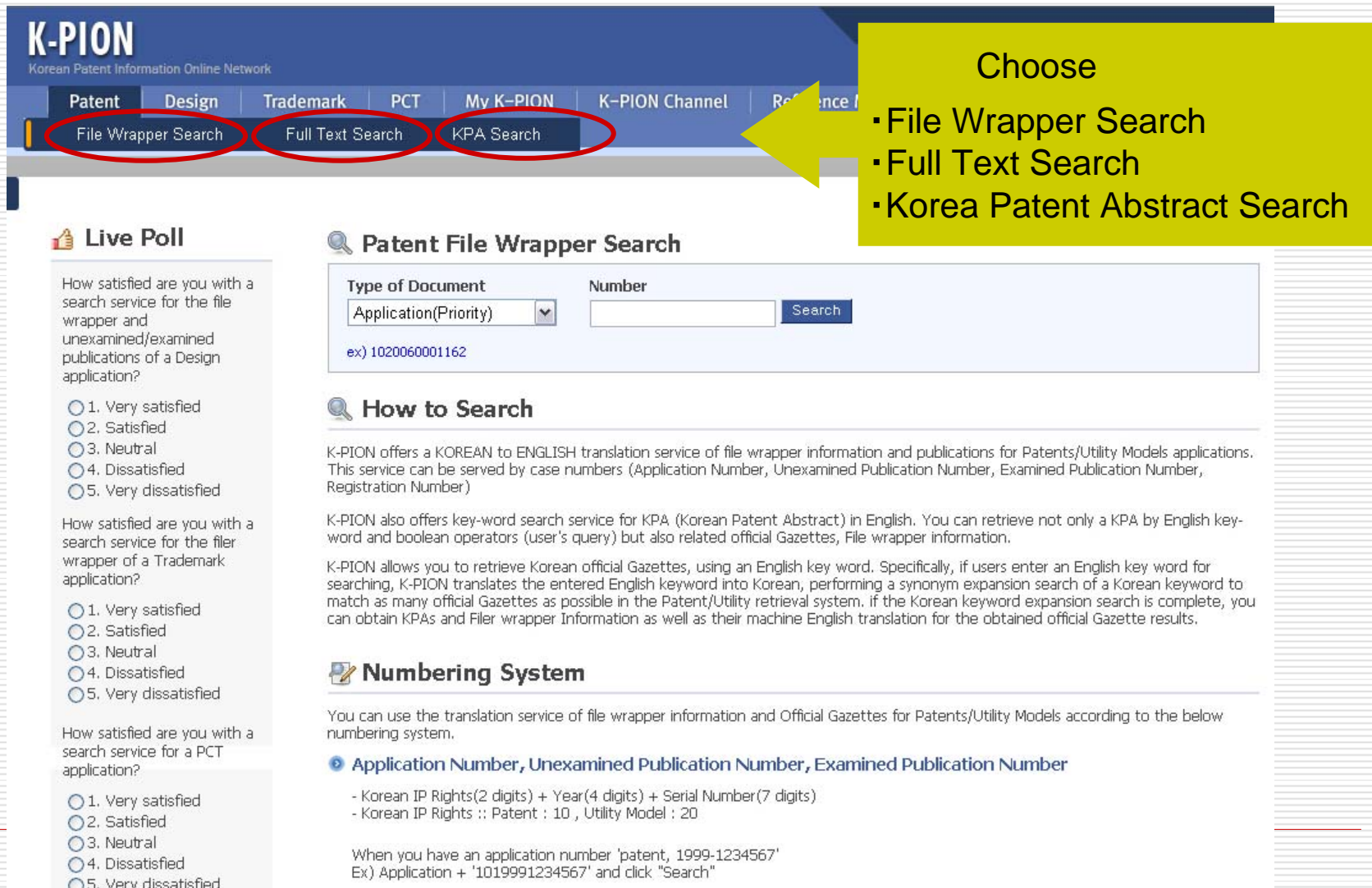
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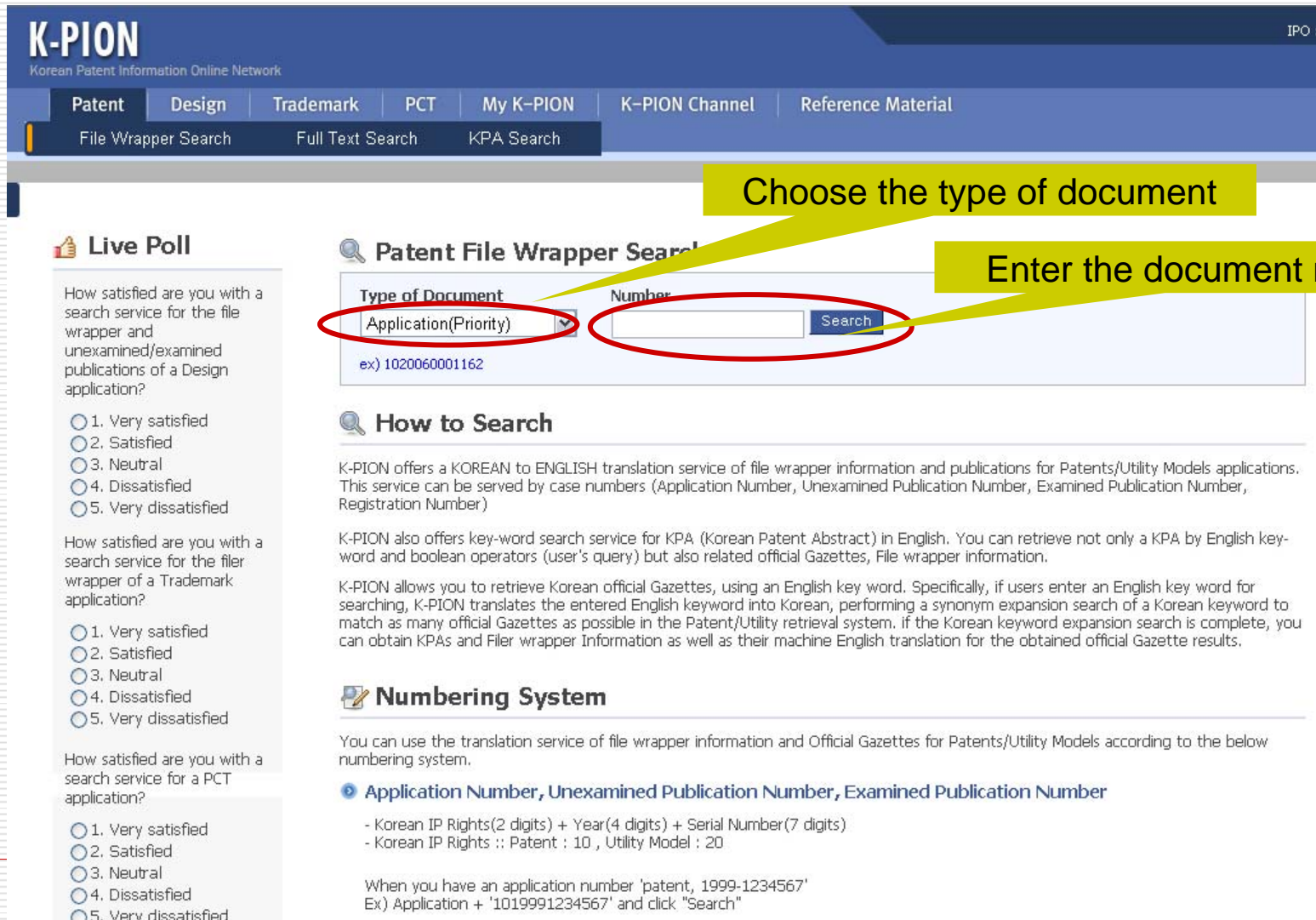
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Application No. <b>1020060108781</b> ELECTRIC INK DISPLAY	

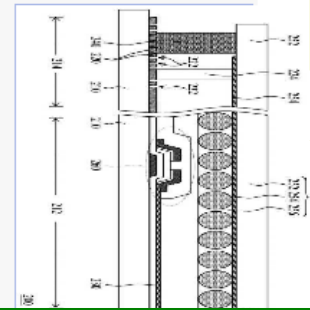
Bibliography Data	Transaction History	Publication Document	Date (DD/MM/YYYY)
Application Number	1020060108781	Application Date	06/11/2006
Unexamined Publication Number	1020070085020	Unexamined Publication Date	27/08/2007
Examination Request Date	06/11/2006		
Examined Publication Number	-	Published Date	-
Designated Class Code (IPC Code)	G02F 1/167	Number of Claims	10
Representative Applicant	E INK HOLDINGS INC.	Representative Agent	Lee, Kyeong Ran
Inventor	TSAI, Yu-Chi HSU, Yu-Chen WU, Chi-Ming		
Registration Number	-	Registration Date	-
International Application Number	-	Date of International Application	-
Title of Invention	ELECTRIC INK DISPLAY		
Priority Claims	095105877 22022006 TW		

Detailed bibliographic information

## Korean Patent Abstract (KPA)

**PURPOSE:** An electronic ink display is provided to complete a hardening reaction of a sealant by forming a metal pattern layer having holes capable of passing ultraviolet rays and supplying sufficient ultraviolet rays to the sealant, thereby improving the sealing efficiency and preventing vapor dispersion in a display.

**CONSTITUTION:** A first substrate(210) includes a display area and a peripheral circuit area surrounding the display area. At least one metal pattern layer(220) is placed at the peripheral circuit area and includes a plurality of holes(222). A plurality of pixel electrodes(230) are placed at the display area. A sealant(240) is placed at an edge of the first substrate, wherein a part of the sealant is overlaid on the metal pattern layer. A front plane laminate(250) is arranged on one side of the first substrate. The front plane laminate includes a second substrate(252), a common electrode(254) arranged on a surface of the second substrate opposite to the first substrate, and an electronic ink material layer(256) placed between the common electrode and the first substrate.



Abstract & representative drawings



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19/07/2006	Written Opinion	의견서	ACPT		
25/05/2006	Notification of reason for refusal	의견제출통지서	DISP		
14/04/2006	Report of Prior Art Search	선행기술조사보고서	ACPT		
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Sending number : 9-5-2006-047042975  
Dispatched date : 2006.08.16  
Submission due date.

## KIPO Grant of Patent

Applicant,	Name, Address,	NT SYSTEM CO.,LTD(applicant code: 120060003764) Secure Information
Agent,	Name, Address,	Byeong - Ju Choi Secure Information
Application No, Title of Invention	10-2006-0001162 a signpost for road boundary	
Claim,	1	

This application has been granted a patent under Article 66 of the Patent Act.

(the patent right takes an effect by paying the patent fee and registering under Article 87 of Patent Act)

### [Special remarks]

Search toward the earlier applicant of the present patent invention for data opened to 2006.08. 16. And it did not to decide in connection with the earlier applicant thereafter opened this date of the violation whether or not about the rules of article 29(3) and Article 29(4) of Patent Act or the article 36(1) through (3). End.

2006.08.16



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Type of Document: Application(Priority) Number: 1020040108790 Search

ex) 1020040108790

Application No. 1020040108790 HIGH SPEED ANALOG ENVELOPE DETECTOR

Bibliography Data	Transaction History	Publication Document
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Unexamined Patent Application (A)

(51) Int. Cl.  
G02F 1/167 (2006.01)

(11) Unexamined Publication No 10-2007-0085020

(43) Unexamined Publication Date 2007-08-27

(21) Application No 10-2006-0108781

(22) Application Date 2006-11-06

(30) Priority Claims 095105877 2006-02-22 Taiwan (TW)

(74) Agent Gyeong-Ran Lee (72) Inventor Chal, Yu-Chi  
Syu, Yu-Chen  
U, Chi-Ming

(71) Applicant PRIME VIEW INTERNATIONAL CORPORATION LIMITED

Examination Requested : Requested

(54) ELECTRIC INK DISPLAY

Abstract

Machine Translation Human Translation

1

Provided is the electronic ink display including the first substrate, one or more metal pattern layer, a plurality of pixel structure, a pixel and first side conductors. The pixel structure is located on a surface of the display region of the first

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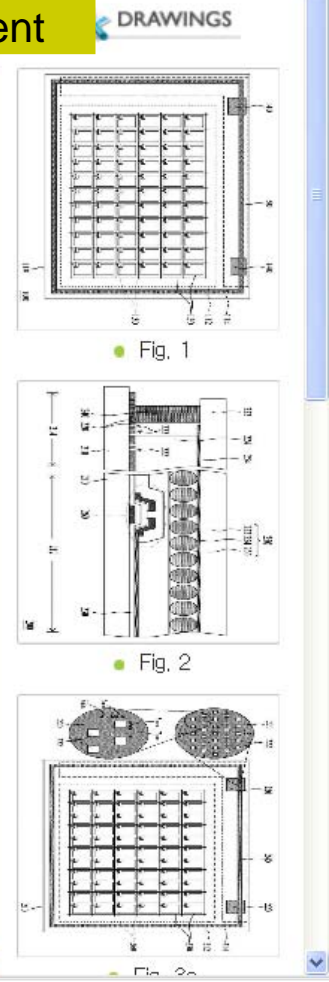


Fig. 1

Fig. 2

Fig. 3

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Examined Publication Date	2007-01-24
Registration No	10-0672987
Registration Date	2007-01-16
Application No	10-2004-0108790
Application Date	2004-12-20
Publication Date	2006-06-23
Agent	Chang-Hyeon Im
Inventor	Jae-Seok Yu
Right Holder	SAMSUNG ELECTRONICS CO., LTD.
Examiner	Chan-Ho Yang
Title of Invention	HIGH SPEED ANALOG ENVELOPE DETECTOR
References	1020040108790 - 662985 KR1020020076736 A US6559686 B1 * US6791950 B2 * * The literature quoted by examiner.



### Abstract

Here, fourth level shift signals are generated to score the first having the voltage level which the started high speed Analoguing envelope detector highs in response to the differential input signal inputted from outside than the differential input signal. And the voltage level of fourth level shift signals is compared to score the first. The comparison result is to the basis and the validity about the differential input signal is decided. It does not the separate reference voltage in validation to need. Therefore the structure of circuit is simple. It flexibles, it deals with the common mode voltage change etc.



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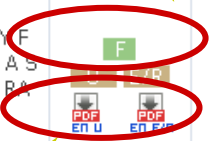
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Inventor (IN)	<input type="text"/>	ex) james
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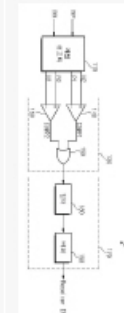
Application No.	1020040108790	Application Date	20/12/2004
Unexamined Publication No.	1020060070145	Unexamined Publication Date	23/06/2006
Examination Request Date	20/12/2004		
Examined Publication No.		Published Date	24/01/2007
Designated Class Code (IPC Code)	H04L 12/02	Number of Claims	13
Representative Applicant	SAMSUNG ELECTRONICS CO., LTD.	Representative Agent	YIM, Chang Hyun
Inventor	YU, JAE-SUK		
Registration No.	1006729870000	Registration Date	16/01/2007
International Application Number		Date of International Application	
Title of Invention	HIGH SPEED ANALOG ENVELOPE DETECTOR		

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### Abstract

**PURPOSE:** A high speed analog envelop detector is provided to flexibly cope with a change in a range of an input voltage and a common mode voltage. **CONSTITUTION:** A level shifter(110) generates the first to fourth level shift signals(P1,P2,N1,N2) having a voltage level higher than that of differential input signals(INP,INN) in response to the differential input signals(INP,INN) inputted from the outside. A comparison unit(130) compares voltage levels of the first to fourth level shift signals and determines validity of the differential input signals(INP,INN) based on the comparison result.

### Representative Drawing



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