

Retrieving and Utilizing External Results: Particular Sources for Retrieval (AIPN, K-PION)

Yusuke AIZAWA

Administrative Affairs Division

Japan Patent Office



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□ IPDL

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□ K-PION

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**Retrieving and Utilizing
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AIPN – What's the AIPN?

- 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**.
-

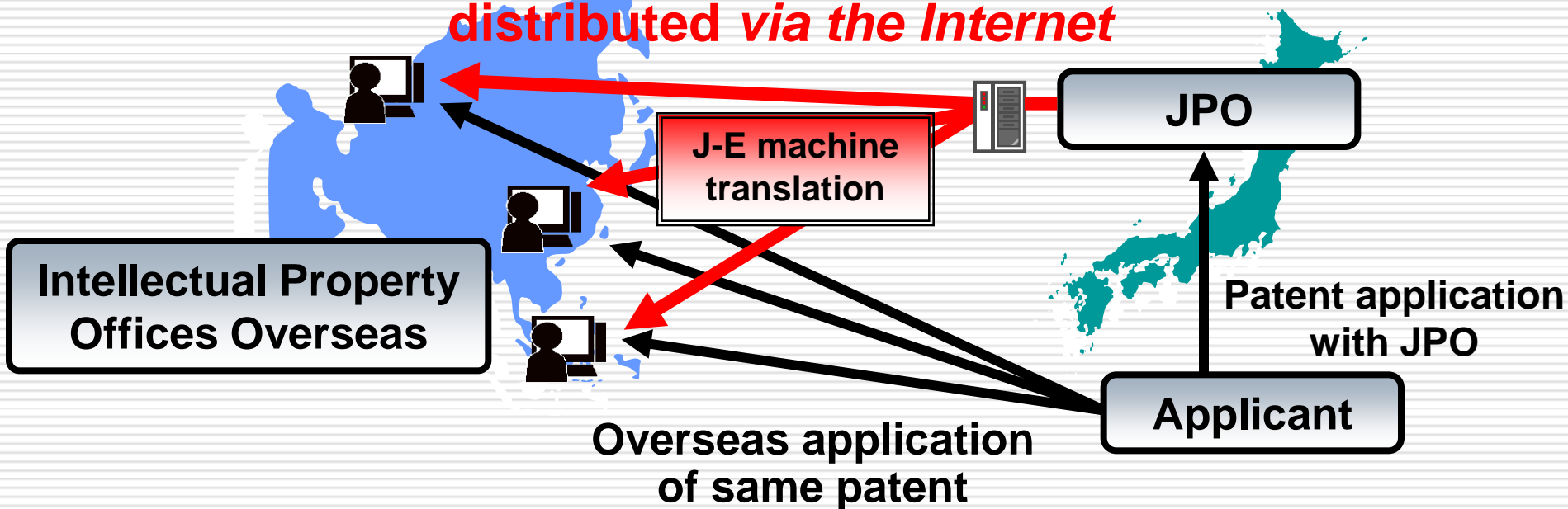
AIPN – Current Image

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 **61 IPOs** all over the world.

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For registration: 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
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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

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 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**

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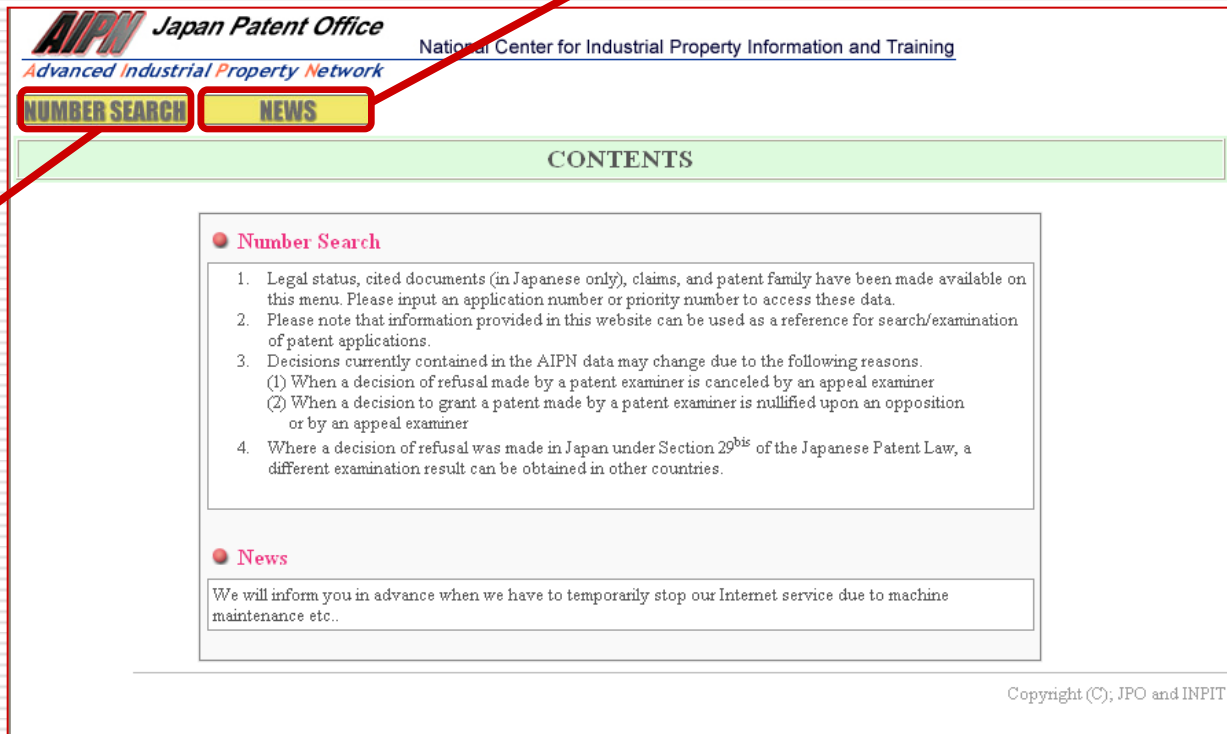
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News

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Number Search



The screenshot shows the AIPN website interface. At the top, there is a header with the AIPN logo and the text "Japan Patent Office" and "National Center for Industrial Property Information and Training". Below the header, there are two buttons: "NUMBER SEARCH" and "NEWS". A red arrow points from the "NUMBER SEARCH" button to the text "Number Search" on the left. Another red arrow points from the "NEWS" button to the text "News" above the screenshot. The main content area is titled "CONTENTS" and contains two sections: "Number Search" and "News".

AIPN Japan Patent Office
Advanced Industrial Property Network
National Center for Industrial Property Information and Training

NUMBER SEARCH **NEWS**

CONTENTS

- Number Search**
 - 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.
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 - (1) When a decision of refusal made by a patent examiner is canceled by an appeal examiner
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Patent application number 2003-123456

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- [Application data and Transaction history](#)

1. [28.04.2003: Request for a Patent](#)
2. [28.04.2003: Description](#)
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[---: Certified or Appended Information](#)
- 14.02.2005: [Request for Examination](#)
[---: Certified or Appended Information](#)
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特許願2003-123456

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- 28.04.2003: [明細書](#)
- 28.04.2003: [図面](#)
- 28.04.2003: [要約書](#)
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- 01.10.2007: [検索外注利用状況票](#)
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Patent application number 2003-123456

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- [Application data and Transaction history](#)

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3. [28.04.2003: Drawings](#)
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5. [14.02.2005: Request for Examination](#)
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6. [28.09.2007: Search Report by Registered Searching Organization](#)
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9. [05.12.2007: Written Withdrawal of Application](#)
[-- . -- . ---- : -- Certified or Appended Information](#)

Notification of Reasons for Refusal

★ Application number: Application for patent 2003-362601 ← Application number

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) ← Applied Provisions

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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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	JP 2004-164561	10.06.2004	JP 2003-0123456	28.04.2003	Legal status, Cited documents
2	B2	US 7014374	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](#)

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[Publication number]	2004-164561
[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	JP 07-98637	Patent Family
2	A	JP 2000-20275	Patent Family
3	A	JP 05-127850	Patent Family

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

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Application Number. JP 2003-0123456

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[Date of final disposal for application]	11.12.2007
[Patent number]	
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[Number of appeal against examiner's decision of rejection]	
[Date of requesting appeal against examiner's decision of rejection]	
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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

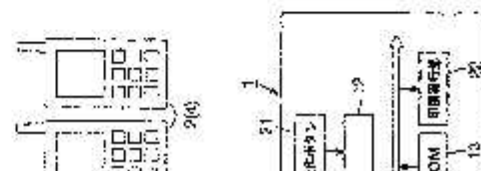
Priority number : 2002279423 Priority date : 25.09.2002 Priority country : JP

(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

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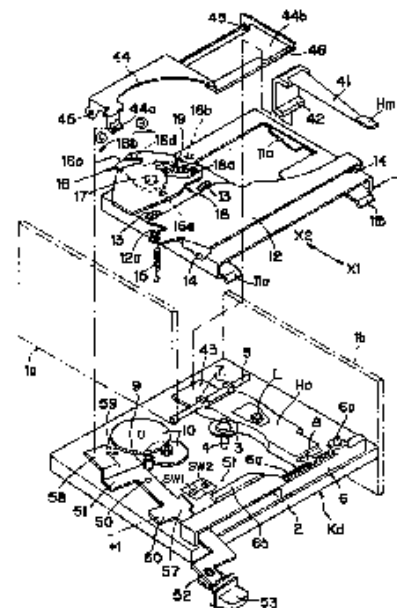
[Claim(s)]

[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.

[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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CLAIM + DETAILED DESCRIPTION

[Claim(s)]

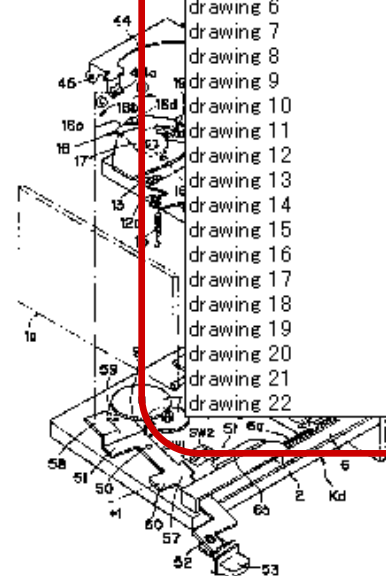
[Claim 1] If it has the mode change member which can be displaced between the disk blowdown mechanism which discharges the disk in a set state, and a playback mode position and a discharge mode position and the mode change member is manually displaced from a playback mode position to a discharge mode 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
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- drawing 21
- drawing 22



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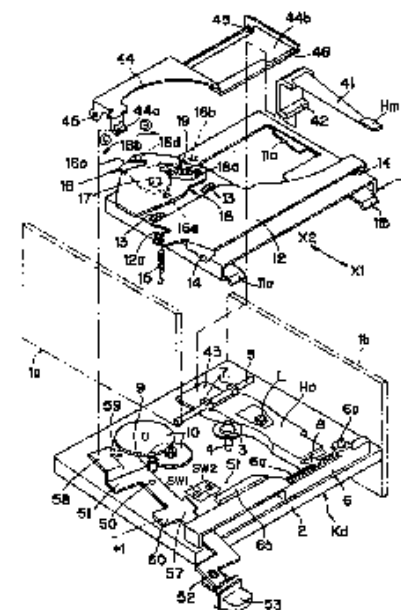
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[Claim 2] The head migration mechanism in which a head is ****(ed) to the set disk, If it has the mode change member which can be displaced between a reproduction mode position and a record mode position and

Drawing selection

[1]



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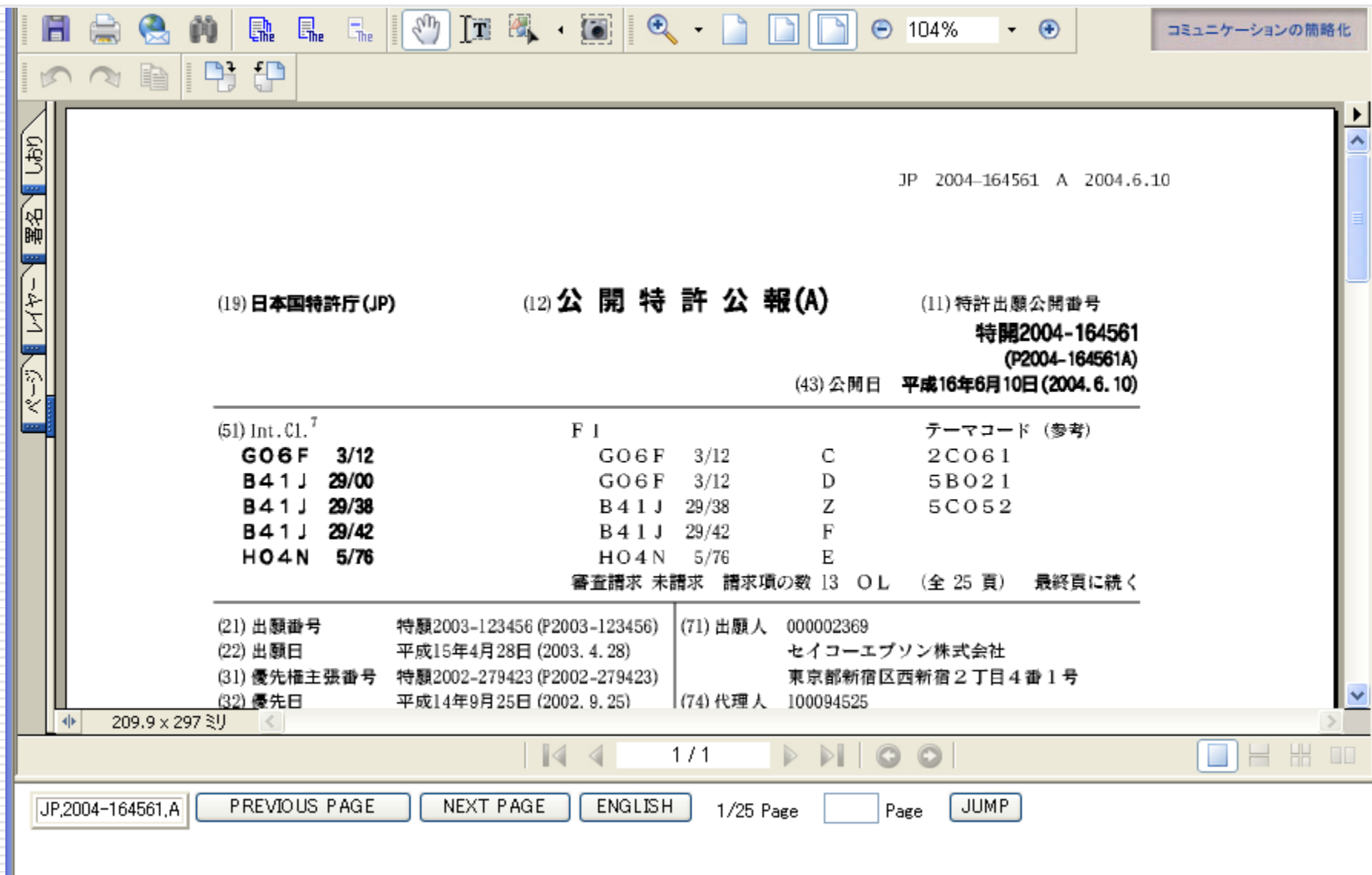
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JP 2004-164561 A 2004.6.10

(19) 日本国特許庁 (JP) (12) 公開特許公報(A) (11) 特許出願公開番号
特開2004-164561
(P2004-164561A)
(43) 公開日 平成16年6月10日 (2004.6.10)

(51) Int. Cl. 7 F 1 テーマコード (参考)

G06F 3/12	G06F 3/12	C	2C061
B41J 29/00	G06F 3/12	D	5B021
B41J 29/38	B41J 29/38	Z	5C052
B41J 29/42	B41J 29/42	F	
H04N 5/76	H04N 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

(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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1	A	JP 2004-164561	10.06.2004	JP 2003-0123456	28.04.2003	Legal status, Cited documents
2	B2	US 7014374	21.03.2006	US 2003-0670120	25.09.2003	
3	A1	US 2004218209	04.11.2004	US 2003-0670120	25.09.2003	

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Application Number. JP 2003-0123456

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[Date of final disposal for application]	11.12.2007
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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: **Selko 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

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* 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	JP 2004-164561	10.06.2004	JP 2003-0123456	28.04.2003	Legal status, Cited documents
2	B2	US 7014374	21.03.2006	US 2003-0670120	25.09.2003	
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1	A	JP 2004-164561	10.06.2004	JP 2003-0123456	28.04.2003	Legal status, Cited documents
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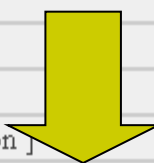
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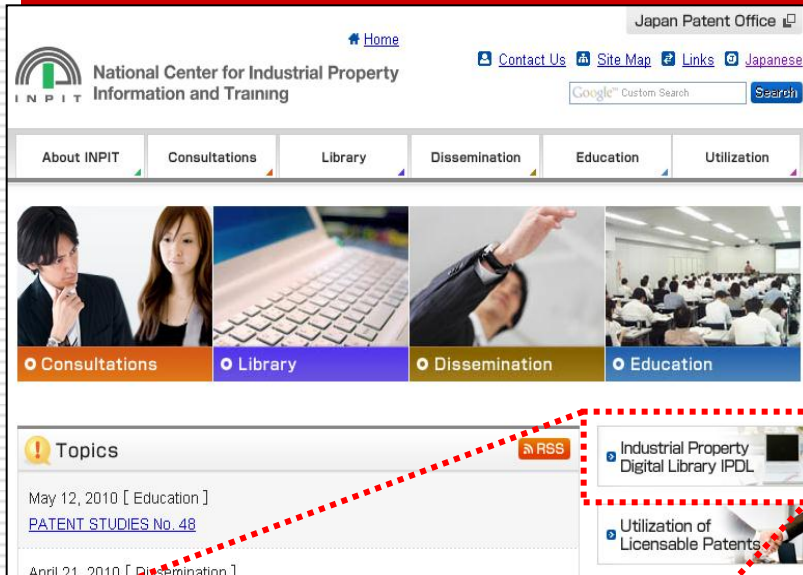
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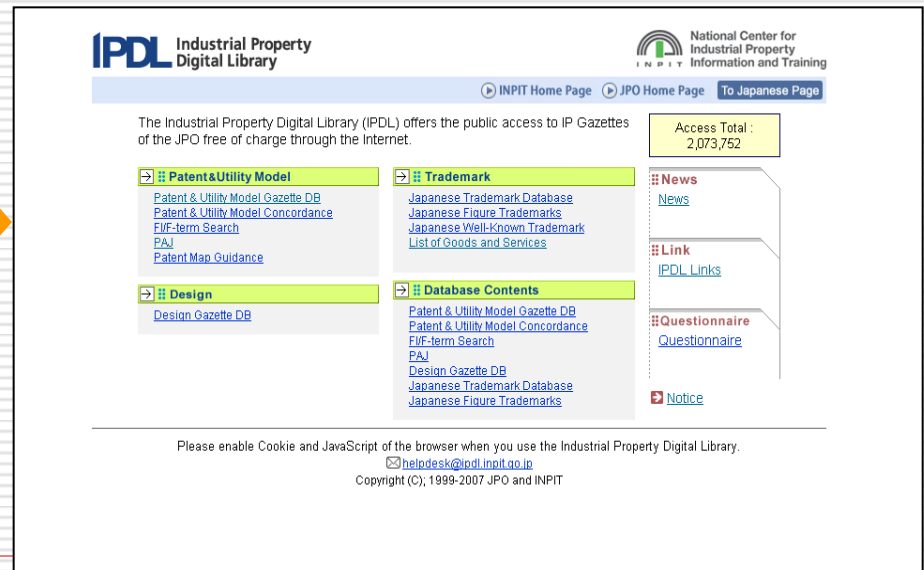
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Filing info	Patent 2000-401992 (28.12.2000)
Publication info	2002-200366 (16.7.2002)
Detailed info of application	Kind of final decision(Deemed to be withdrawn) Date of final decision in examination stage(25.3.2008)
Renewal date of legal status	(18.7.2008)

Filing info	Patent H08-005625 (17.1.1996)
Publication info	H09-192005 (29.7.1997)
Detailed info of application	Kind of examiner's decision(Grant) Kind of final decision(Grant) Date of final decision in examination stage(14.9.2001)
Date of request for examination	(11.6.1999)
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(43)Date of publication : **16.07.2002**

(51)Int.Cl. **H 11/00**
G 01/33
G 01/29/22
G 01/31/00
G 01/33/42

(21)Application number : **2001-281111**
(22)Date of filing : **28.11.2001**

JAPANESE [JP.2002-200366,A]

(54) GARDENING TOY
(57)Abstract:
PROBLEM TO BE SOLVED: To provide a gardening play for blooming flowers.
SOLUTION: This gardening toy has a main part of a toy which is formed to imitate a flower. A sensor part which detects an external stimulus is formed on the main part of a toy. When the toy body is stimulated, the sensor part is formed with petals. When stimulation is detected, there is a sliding direction.

CLAIMS [DETAILED DESCRIPTION](#) [TECHNICAL FIELD](#) [PRIOR ART](#) [EFFECT OF THE INVENTION](#) [TECHNICAL PROBLEM](#) [MEANS](#) [EXAMPLE DESCRIPTION OF DRAWINGS](#) [DRAWINGS](#)

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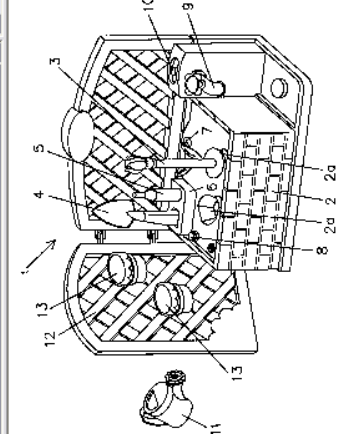
CLAIMS

[Claim(s)]
[Claim 1]A gardening toy which is provided with the following and characterized by said flexible region operating by detecting an external stimulus.
A sensor part which detects an external stimulus on a main part of a toy.
A flexible region formed by imitating vegetation.
An actuator which operates this flexible region to a sliding direction.

[Claim 2]A gardening toy, wherein this petal opens by constituting said flexible region from a petal and detecting an external stimulus in claim 1.
[Claim 3]A gardening toy, wherein this petal opens by constituting said flexible region from a petal and a leaf, and detecting an external stimulus in claim 1 or claim 2 or a leaf is extended.
[Claim 4]A gardening toy, wherein said petal opens by constituting a sensor part which detects said external stimulus from a photosensor in claim 1 thru/or claim 3, and detecting an external stimulus or a leaf is extended.
[Claim 5]A gardening toy outputting a sound by establishing a sound output means in said main part of a toy, and detecting an external stimulus in claim 1 thru/or claim 4, or speaking about language.
[Claim 6]A gardening toy whenever it defines uniformly migration length of an actuator which operates to said sliding direction in claim 1 thru/or claim 5 and detects an external stimulus, wherein said flexible region operates.

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(11)Publication number : 2002-200366
(43)Date of publication of application : 16.07.2002

(51)Int.Cl. A63H 11/00
A63H 3/33
A63H 29/22

(19)日本国特許庁 (J P) (12) 公開特許

(21)Application number : 2000-401992 (P2000-401992)
(22)Date of filing : 2000.12.28

(54) **GARDENING TOY**
(57)Abstract:
PROBLEM TO BE SOLVED: To provide a gardening play for blooming. SOLUTION: This gardening play has a moving section formed to move in a direction. When the toy body is formed with petals, stimulation is detected, the petals are moved in a direction.

(43)公開日 平成14年7月16日 (2002.7.16)

(51)Int.Cl. ⁷	識別記号	F I	7-21-1*(参考)
A63H 11/00		A63H 11/00	Z 2C150
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審査請求 未請求 請求項の数6 OL (全8頁)

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2.	2002 - 233661	GAME TOY
3.	2002 - 200366	GARDENING TOY
4.	2002 - 145345	DISPOSABLE COMPLETELY WATERPROOF FASHION COVER FOR PORTABLE TELEPHONE

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1. [JP,2001-100000,A](#)
2. [JP,2002-515220,A](#)
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4. [JP,3284900,B](#)
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8. [JP,2500001,Y](#)
9. [JP,02/001124,N1\(2002\)](#)

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2001-100000

(43)Date of publication of application : 13.04.2001

(51)Int.Cl.

G21K 5/08

H05G 2/00

H05G 1/52

H05H 1/24

(21)Application number : 11-274301

(71)Applicant : TOYOTA MACS INC

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1. Application	H08-100000	2. Unexamined	H08-200000	3. Application	S60-135204
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Application Number	08-100000(1996)	07-007313(1995)	60-135204(1985)	03-270805(1991)	
Unexamined Publication Number	JP,09-288913,A(1997)	JP,08-200000,A(1996)	JP,61-010240,A(1986)	JP,05-105372,A(1993)	
Examined Publication Number			JP,08-034772,B(1996)		
Registration Number		JP,3237738,B	JP,2129250,B	JP,2500001,B	

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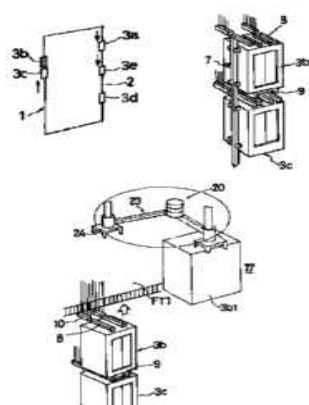
PATENT ABSTRACTS OF JAPAN

(11)Publication number : **05-105372**
(43)Date of publication of application : **27.04.1993**

(51)Int.Cl. **B66B 9/10**
B66B 1/06
B66B 9/02

(21)Application number : **03-270805** (71)Applicant : **KAJIMA CORP**
(22)Date of filing : **18.10.1991** (72)Inventor : **YASUTOMI SHIGEFUMI**
KIMURA RYUICHI
KIMATA NOBUYUKI
MATSUI NOBUYUKI
MATSUNAGA YOSHINORI
MASUDA SADAOKI
KITAMURA YOSHINORI

(54) **OPERATION SYSTEM FOR VERTICAL CONVEYOR DEVICE**
(57)Abstract:
PURPOSE: To enable cage operation corresponding to the conveyed quantity and allow operation to be continued even with the generation of a defective cage by performing the circulating operation of all cages at the time of large quantity conveyance, while moving unnecessary cages or the defective cage into a stand-by part at the time of small quantity transportation or the generation of the defective cage, and performing the circulating operation of the remaining cages.
CONSTITUTION: At the time of small quantity conveyance, that is, at the non-rush time, the excess number of cages 3 are let stand by in a stand-by space, and a small number of remaining cages 3 are put in circulating operation. When the cage 3b gets out of operation in an up-passage 1 due to the failure of the drive unit 7 of the cage 3b during the operation of five cages 3a-3e, the following cage 3c is lifted, and the cage 3b is connected to the cage 3c by a grab 9 provided at the underfloor of the cage 3f so as to move the defective cage 3b up to the uppermost floor FT.



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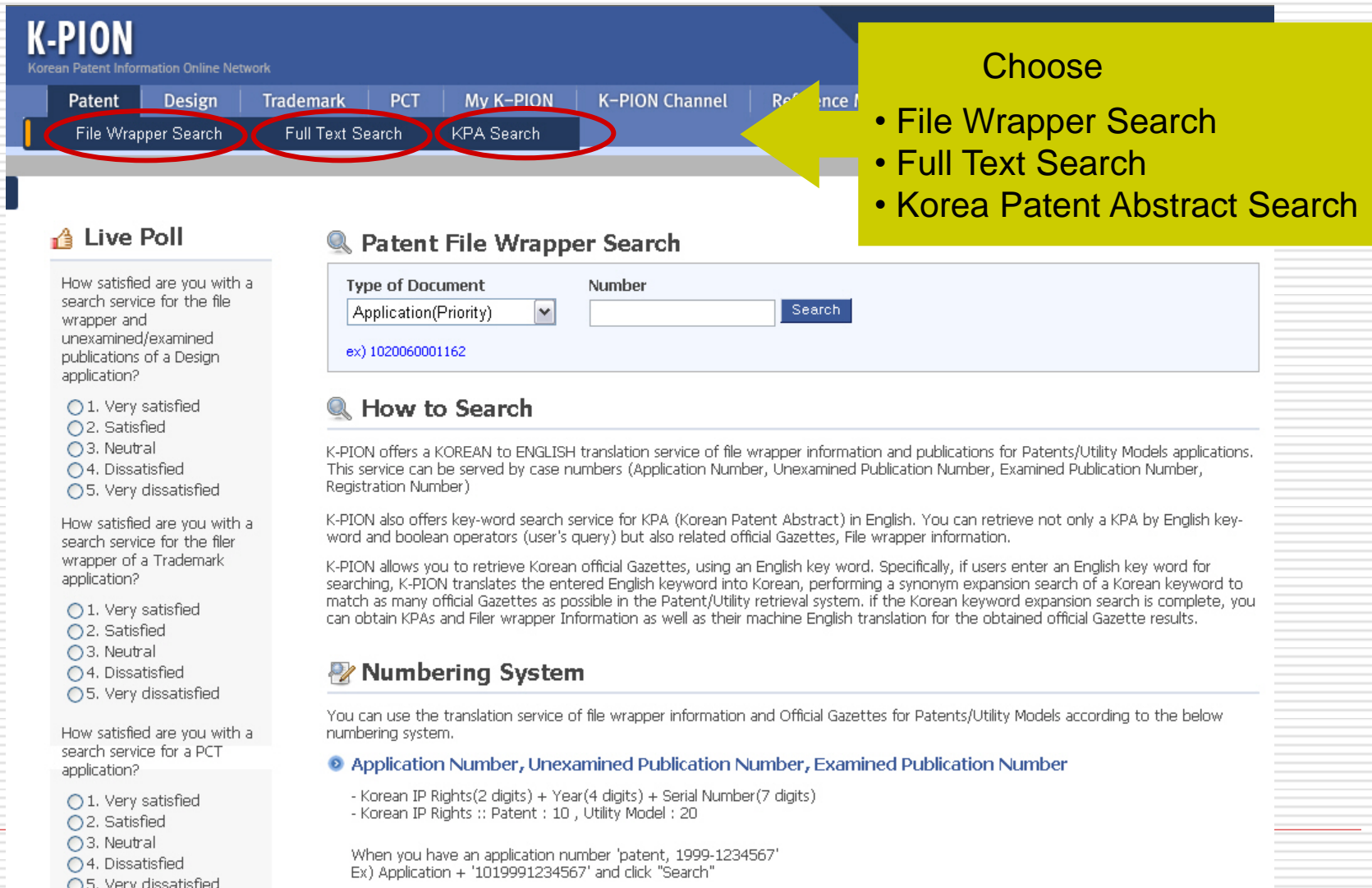
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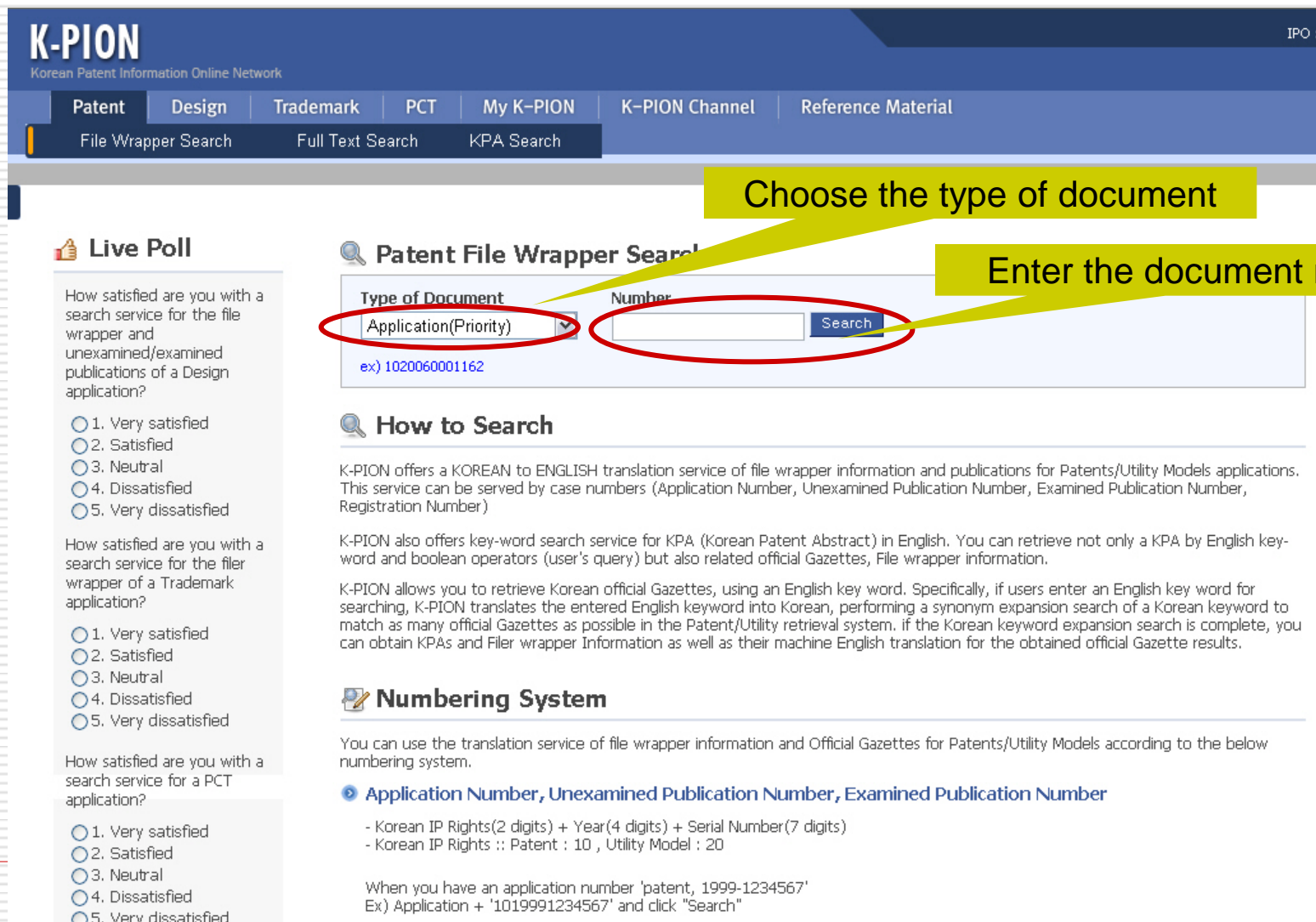
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Application No. **1020040108790** HIGH SPEED ANALOG ENVELOPE DETECTOR

Bibliography Data	Transaction History	Publication Document	Date (DD/MM/YYYY)
Application Number	1020040108790	Application Date	20/12/2004
Unexamined Publication Number	1020060070145	Unexamined Publication Date	23/06/2006
Examination Request Date	20/12/2004		
Examined Publication Number	-	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 Number	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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Publication Document

Date (DD/MM/YYYY)	English Doc Name	Korean Doc Name	Status	View	Download
31/10/2006	Decision to grant	등록결정서	DISP		
19/07/2006	Amendment to Description, etc	명세서등보정서	RGAA		
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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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.

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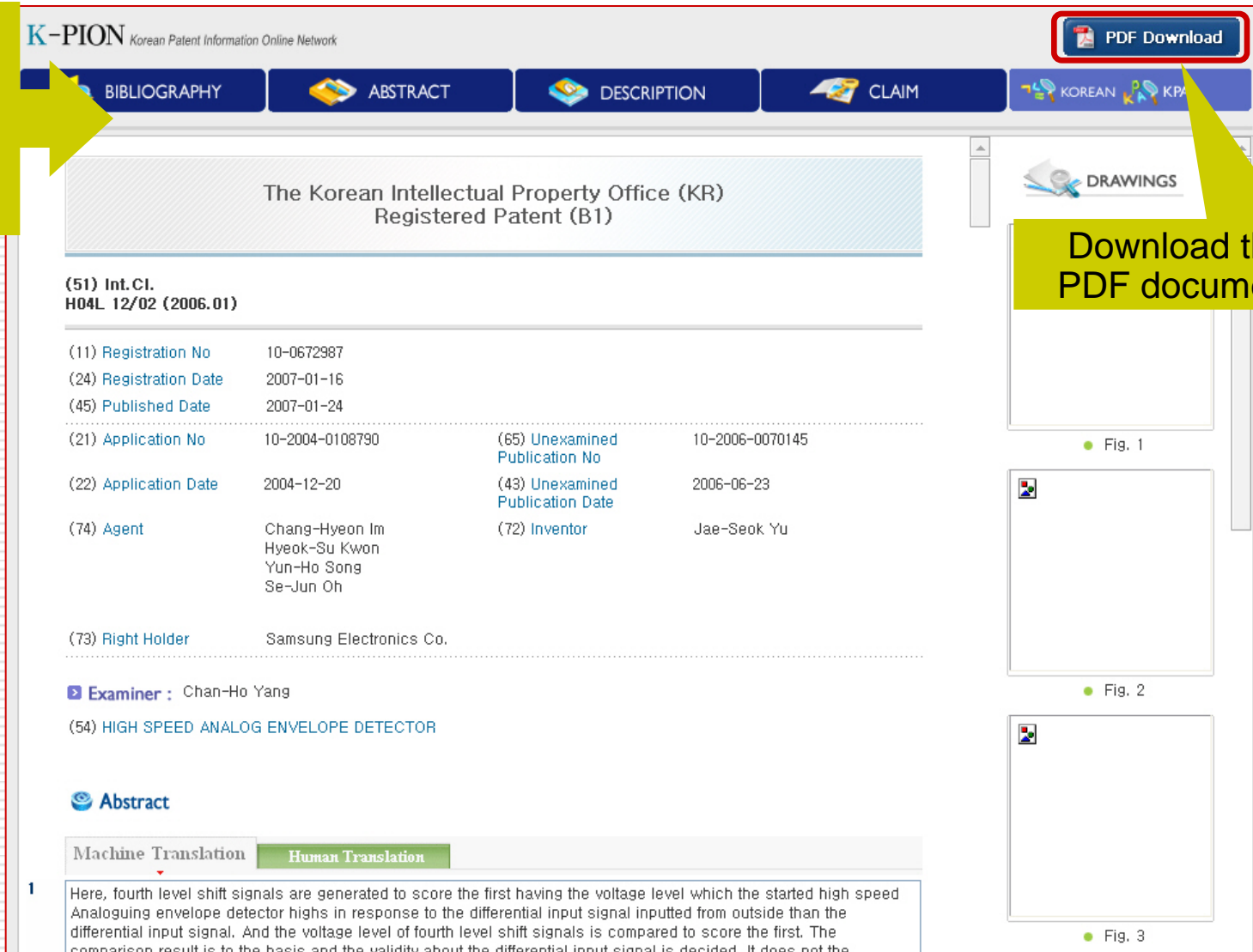
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The Korean Intellectual Property Office (KR)
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(51) Int.Cl.
H04L 12/02 (2006.01)

(11) Registration No	10-0672987	(65) Unexamined Publication No	10-2006-0070145
(24) Registration Date	2007-01-16	(43) Unexamined Publication Date	2006-06-23
(45) Published Date	2007-01-24	(72) Inventor	Jae-Seok Yu
(21) Application No	10-2004-0108790	(73) Right Holder	Samsung Electronics Co.
(22) Application Date	2004-12-20		
(74) Agent	Chang-Hyeon Im Hyeok-Su Kwon Yun-Ho Song Se-Jun Oh		

Examiner : Chan-Ho Yang

(54) HIGH SPEED ANALOG ENVELOPE DETECTOR

Abstract

Machine Translation Human Translation

1 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

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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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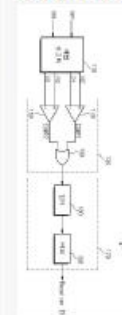
Application No.	1020040108790	Application Date	20/12/2004
Unexamined Publication No.	1020060070145	Unexamined Publication Date	23/06/2006
Examination Request Date	20/12/2004		
Examined Publication No.		Published Date	24/01/2007
Designated Class Code (IPC Code)	H04L 12/02	Number of Claims	13
Representative 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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