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# *JPO's Experience in Data Quality Management*

July 11, 2016

Patent Information Policy Planning Office  
JAPAN PATENT OFFICE

## **1. Introduction**

## **2. Organization**

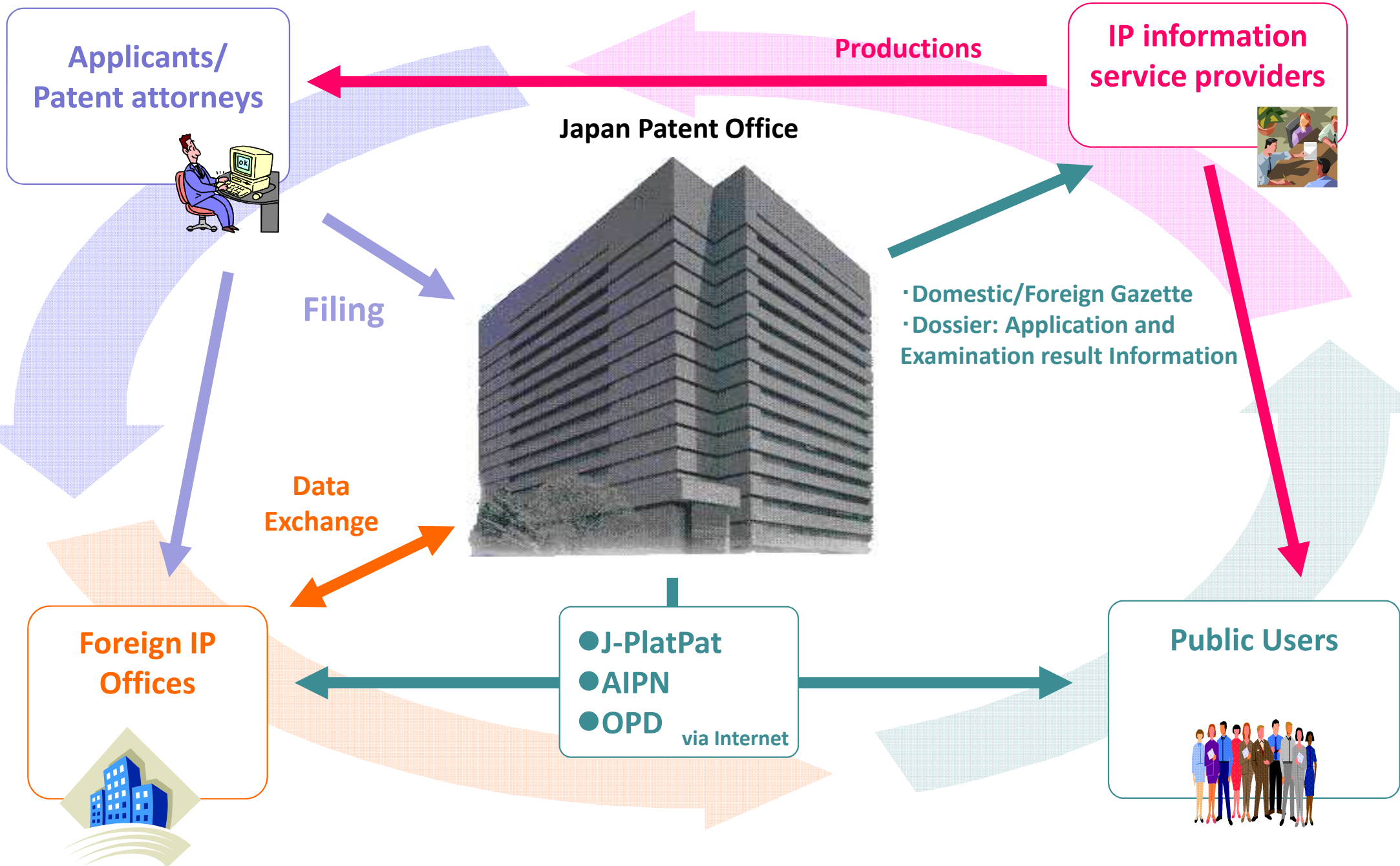
## **3. Initiatives for Data Quality Improvement**

## 1. Introduction

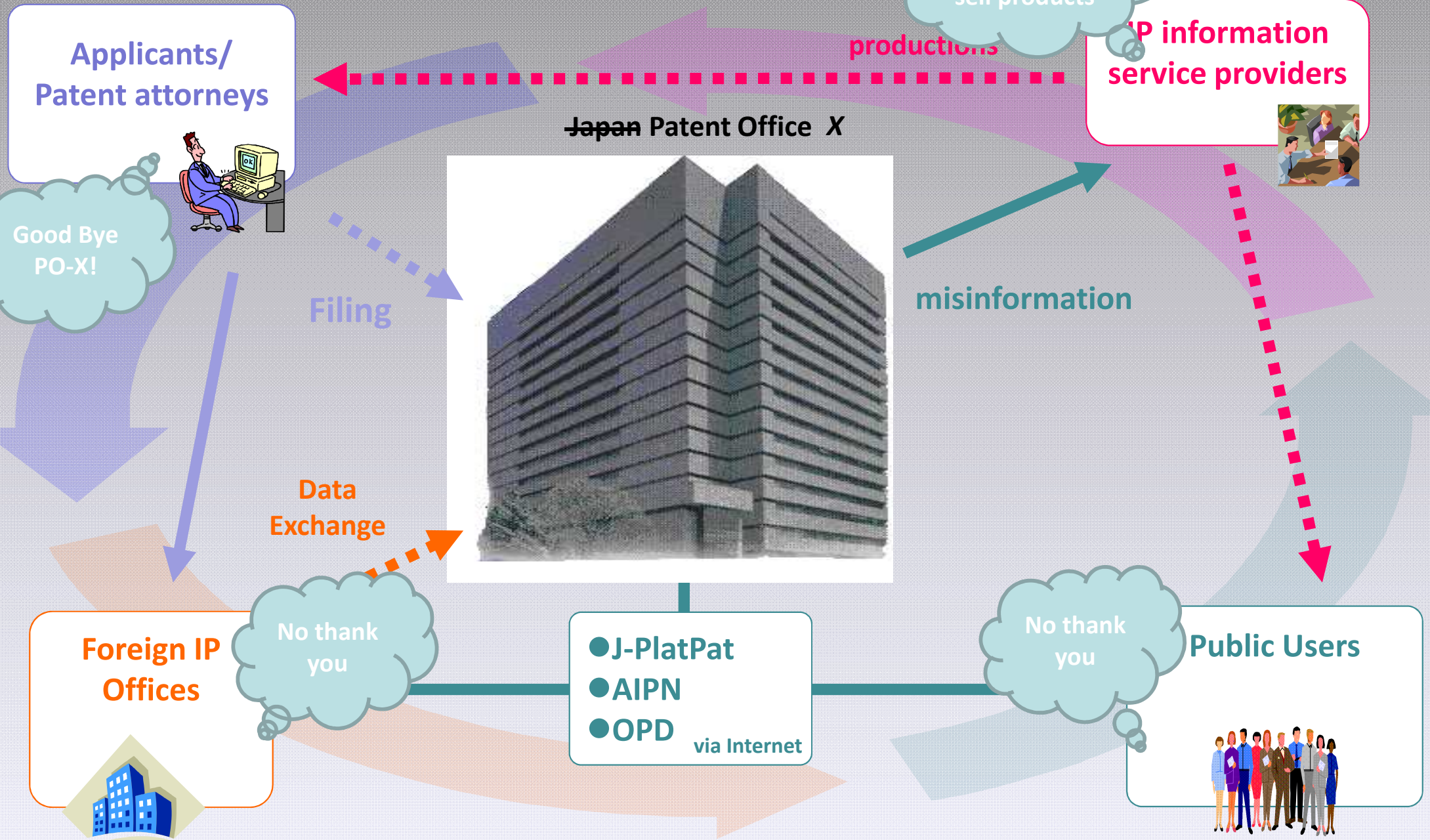
## 2. Organization

## 3. Initiatives for Data Quality Improvement

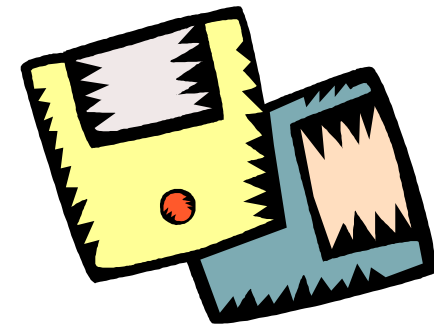
# Flow chart of IP information



# If there is "misinformation" in the flow, ...



- **Information on Application**
  - filing date, applicant name, application number, etc.
  - errors could be rare but serious
- **Patent Information**
  - gazette, dossier information, English abstract, etc.
  - some errors could be included
- **OA Related Data**
  - mail, doc, xls, etc.



# Example of Information on Application

Identification numbers:  
For example,

- (A) application number
- (B) filing date
- (C) priority number
- (D) priority date

(E) final action by JPO's  
examiner

(F) internationally  
unified classification  
based on IPC

[基本項目]		(* 処分済 *)	
出願 (1) ( 11-123456)(11.04.30)	記号 (J1716 )	出願種別(01 )	新法
公開 (2000-312770)(12.11.14)	公開基準日 (11.04.30)	国内優先 (0)	
公告 ( ) ( ) ( )	優先 ( ) ( )	他 国	
審判 ( ) ( ) ( )	担当 ( ) ( )		
登録 ( ) ( ) ( )	異議 ( 0) 請求項数 ( 6) 出願料金 ( 21,000)		
公決 (起 ) (担 )	文献 ( ) 新規性 (0) 菌寄託 (0) 公害 ( )		
査定 ( ) (起 ) (担 )	前置 ( ) 解除 ( ) 公序・要約 ( )		
(完 ) (官 )	審査・評価請求 ( 0- ) 未請求 (0) 自動起案 ( )		
最終 (A09)(18.07.25)	公開準備 (1) 早期審査 ( )		
変更先 ( ) ( ) ( )	審決 ( ) ( )		
	原出願 ( ) ( ) ( ) 種別 ( )		
	期間延長 ( ) 最新起案日 (11.08.02)		
公表 ( ) ( ) ( )	翻訳提出 ( ) 国際出願 ( )		
再公表 ( ) ( ) ( )	国際公開 ( )		
公開IPC = A63F 7/02 330 FN	指定分類IPC		
公告IPC			
名称 検査装置			
出願人 代表 ( ) 種 (2) コト (888192747) 国 (18) 株式会社ソフィア *			
群馬県桐生市境野町 7丁目 201 番地			
代表 ( ) 種 (2) コト (599039234) 国 (21) 有限会社 マンウラ商会 *			
岐阜県岐阜市南鶴 2丁目 19番地			
代理人 種 (1) コト (100006688) 鹿嶋 英貴			
中間 (A85 ) 特許願 11.04.30 ( 21,000) 完 (A82-1 ) 手続補足 11.05.08 ( ) 完			
記録 (A11-2 ) 中間指令 11.08.10 (6895- ) A (A52-3 ) 補正書 11.08.25 ( ) 完			
(A96-7 ) 認定情報 11.09.01 ( ) (A96-7 ) 認定情報 11.09.01 ( )			
(A900 ) 未請求票 18.07.04 ( )			
新出願			
国内優先 (先)			

Bibliographic data:  
For example,

- (G) applicant
- (H) inventor

(I) record of  
procedure for  
examination

# Example of Patent Information - Publication of Unexamined Patent Application

**(F) internationally unified classification based on IPC**

(51) Int. Cl.<sup>7</sup>  
G 0 1 B 3/00  
G 0 2 C 26/00  
23/02

識別記号  
1 0 1

F I				テマコード(参考)
G 0 1 B	3/00	101	A	2C032
G 0 2 C	26/00			2F029
				23/02
A 4 5 C	12/00	101	A	
A 4 7 B	23/02			

**Kinds of Publication**

**A: unexamined patent application**  
**B: examined (granted) patent application**

**Identification numbers:**  
**For example,**  
**(A) application number**  
**(B) filing date**  
**(C) priority number**  
**(D) priority date**

(21)出願番号 特願平11-123456  
(12)出願日 平成11年11月10日(1999.11.10)  
(31)優先権主張番号 83304359.9  
(32)優先日 平成10年11月12日(1998.11.12)  
(33)優先権主張国 フランス(FR)

(71)出願人 390003011  
パテント コーポレーション  
Patent Cooperation  
アメリカ合衆国ケンタッキー州ルイビル  
ビー・オー・ボックス 35090 ルイビルガ  
レリアブラウン タワー 1500 (無番地)  
(71)出願人 090000423  
日本特許発明株式会社  
東京都千代田区内幸町4丁目5番6号  
(72)発明者 発明 太郎  
神奈川県横須賀市巻1丁目2200番地  
(74)代理人 123456789  
弁理士 代理 太郎 (外2名)

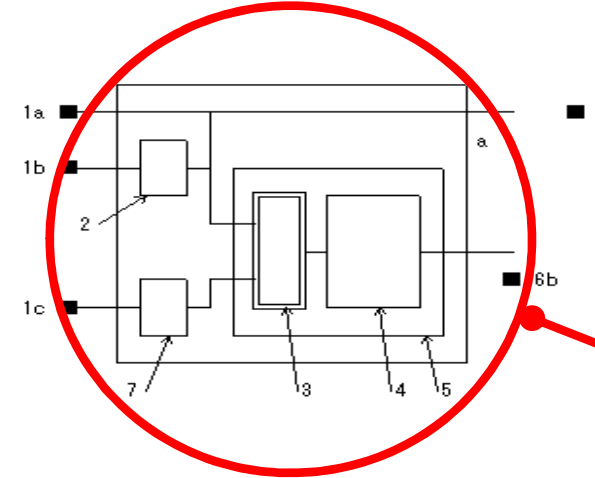
**Bibliographic data:**

**(G) applicant**  
**(H) inventor**

特許法第30条第1項適用申請有り 平成10年9月21日付  
画像工学会研究専門委員会主催の1992年度画像符号化シ  
ンポジウム(RSCJ92)において文書をもって発表  
特許法第65条の2第2項第4号の規定により明細書及び  
図面の一部は不掲載とする。

(54)【発明の名称】 ファクシミリ走査装置

(57)【要約】 <修正有>  
【目的】 ファクシミリ端末パラメータ識別方法に関し、  
ファクシミリ装置機能のパラメータ拡張を容易とする。  
【構成】 通信時の端末パラメータを識別する方法におい  
て、端末パラメータを含む制御信号の送信端末1 a、  
bは制御信号のファクシミリ情報フィールドを、複数の  
サブフィールドに分離し、各サブフィールドの情報を分  
離するファクシミリ情報フィールドのデータ中には現れ  
ない特定の識別コードを挿入してファクシミリ情報フ  
ィールドを作成する。制御信号の受信端末7はファクシ  
ミリ情報フィールド内の上記特定の識別コードを検出し、  
ファクシミリ情報フィールドを複数のサブフィールドに  
分離して、各サブフィールドの情報の内容を解析し相手  
端末の端末パラメータの内容を検出する。装置機能のパ  
ラメータを拡張する場合はユニークコードを挿入して可  
変長の端末パラメータを分離する。

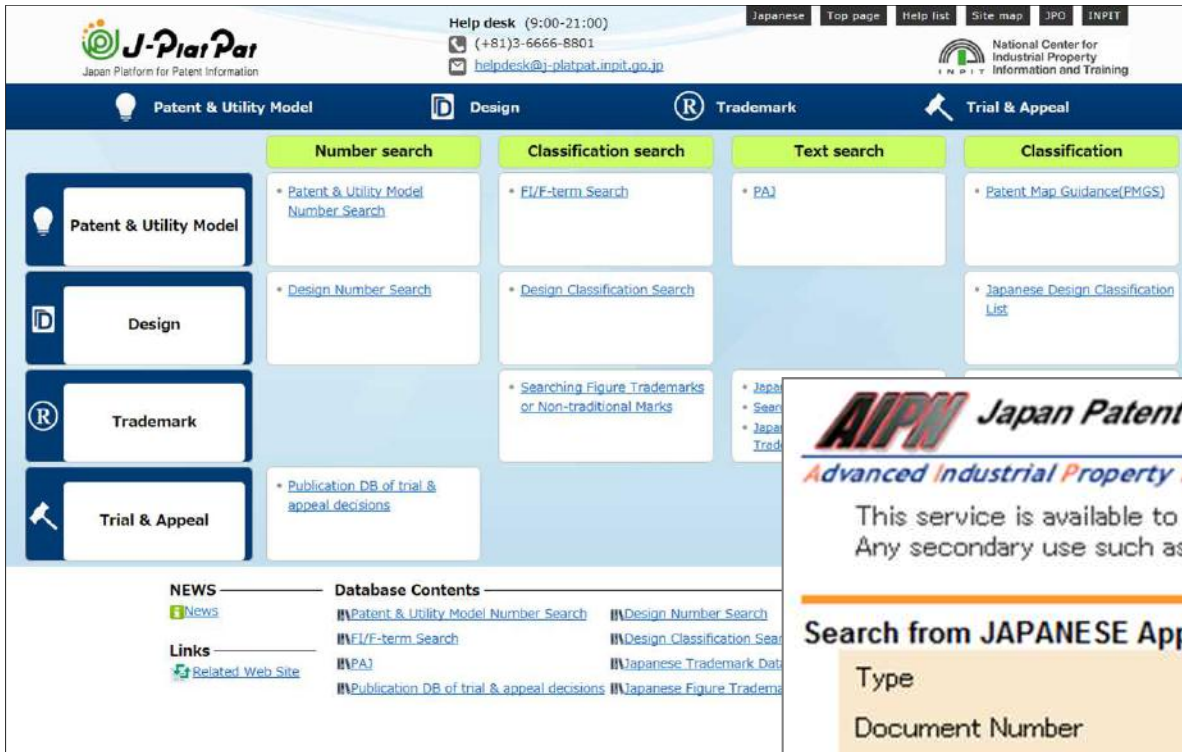


**Representative drawing of the present invention**

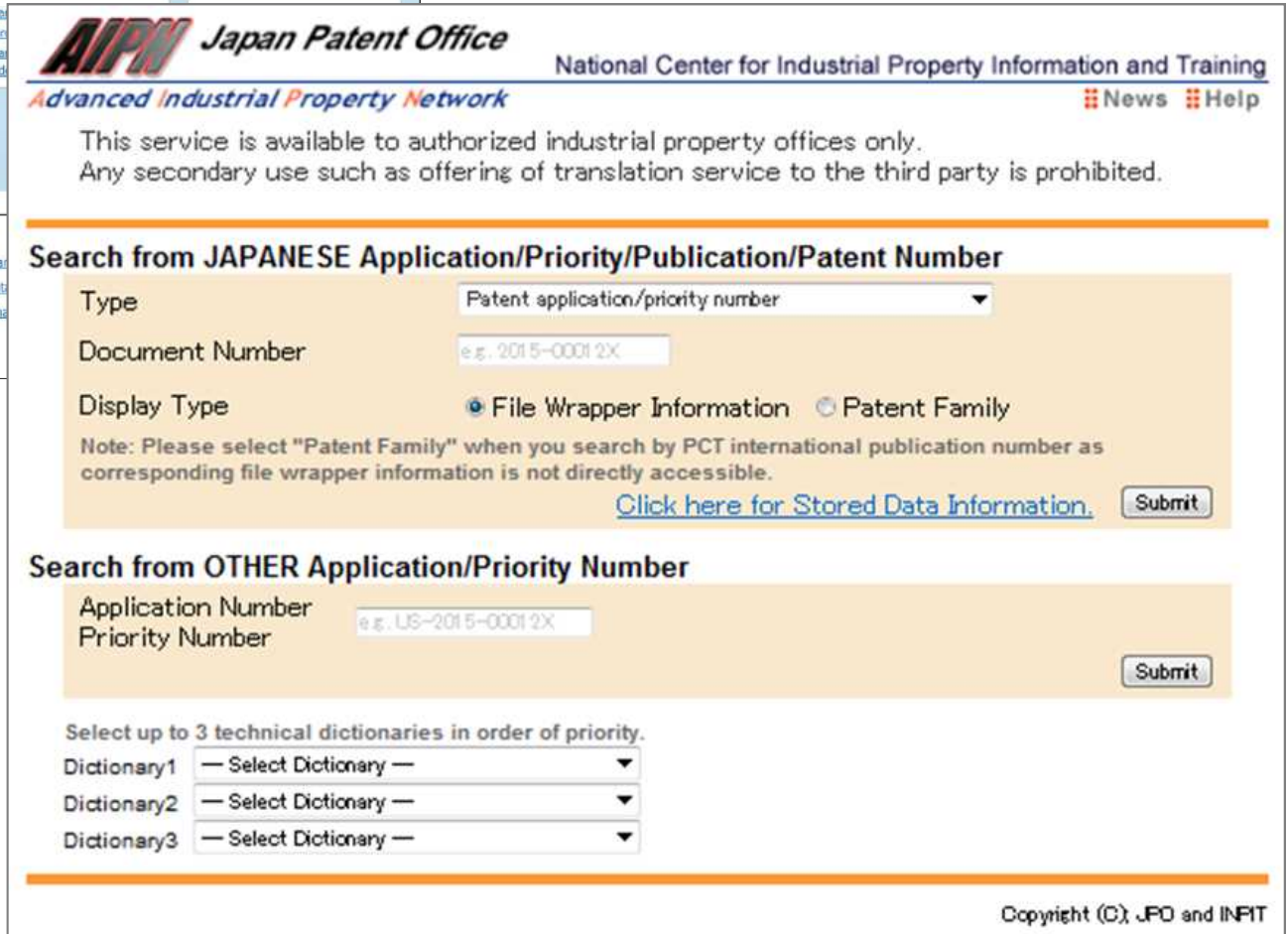
**Abstract of the present invention**



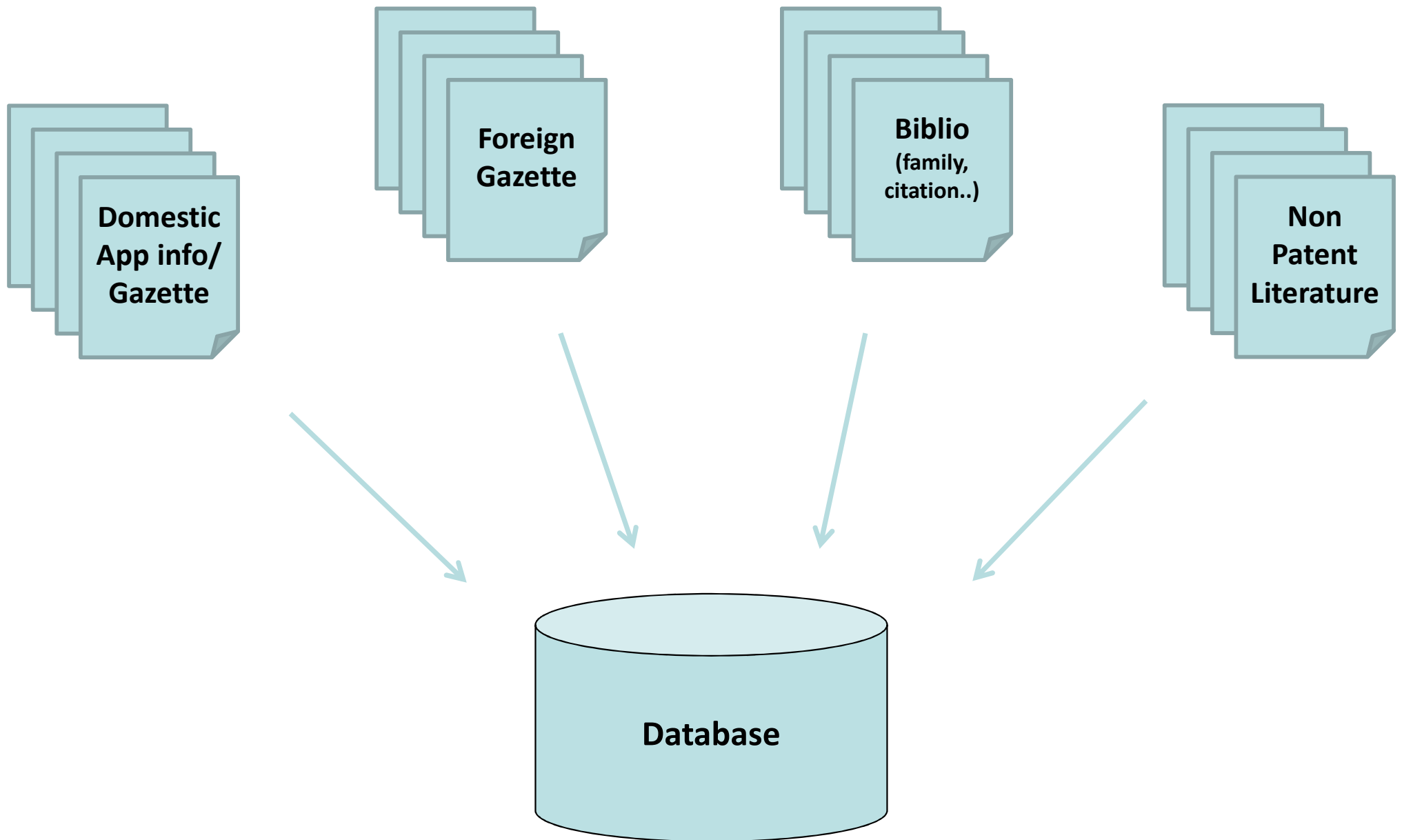
# Provision of information via Internet



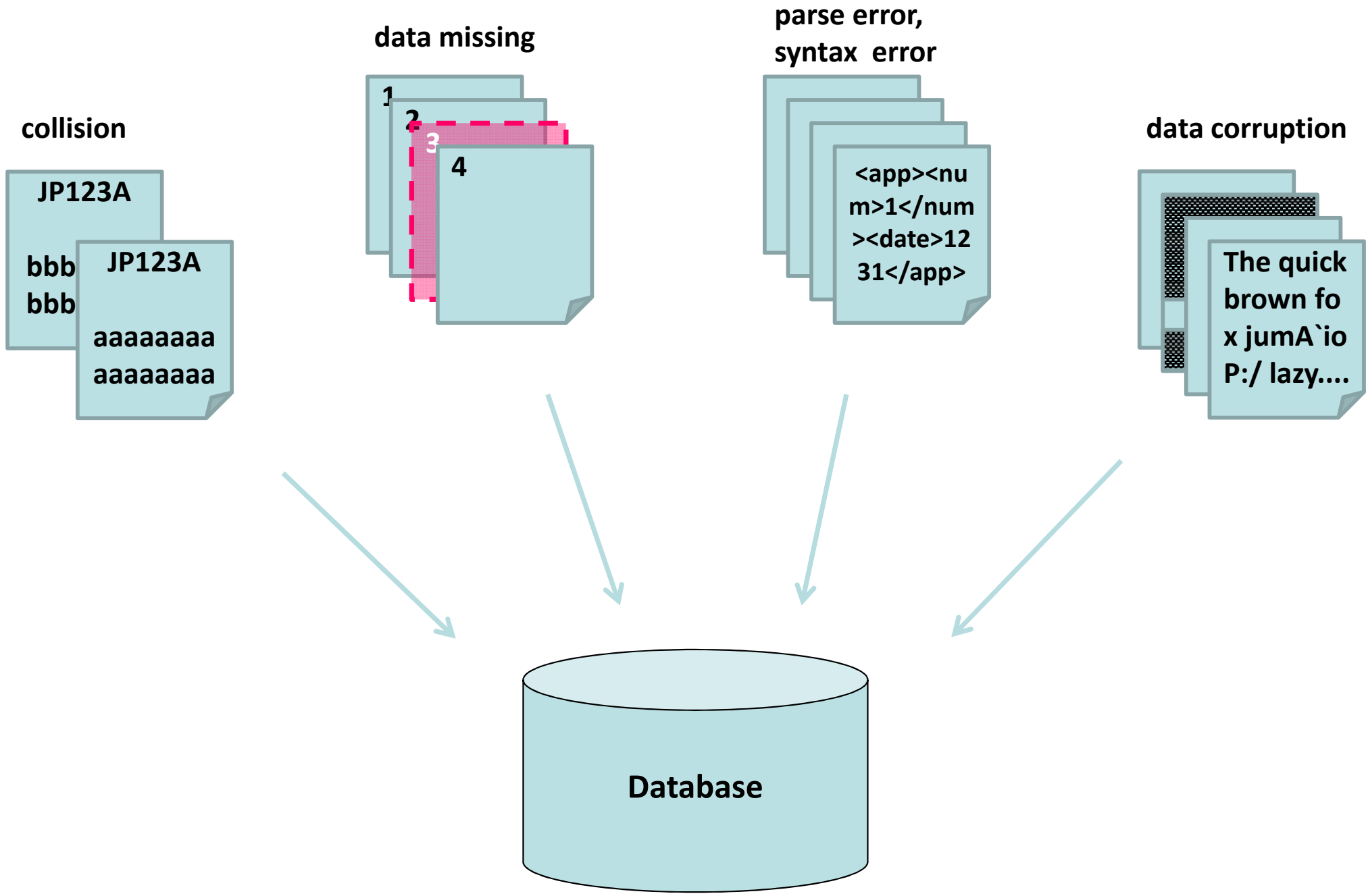
The screenshot shows the J-Plat Pat website interface. At the top, there is a header with the J-Plat Pat logo, contact information for the help desk, and navigation links for Japanese, Top page, Help list, Site map, JPO, and INPIT. Below the header is a main navigation bar with icons for Patent & Utility Model, Design, Trademark, and Trial & Appeal. The main content area is divided into four search categories: Number search, Classification search, Text search, and Classification. Each category contains several search options with links. For example, under Number search, there are links for Patent & Utility Model Number Search and Design Number Search. Under Classification search, there are links for FI/F-term Search, Design Classification Search, and Searching Figure Trademarks or Non-traditional Marks. Under Text search, there is a link for PAJ. Under Classification, there are links for Patent Map Guidance (PMGS) and Japanese Design Classification List. At the bottom of the page, there are sections for NEWS, Database Contents, and Links.



The screenshot shows the AIPN Japan Patent Office search interface. At the top, there is a header with the AIPN logo, the text "Japan Patent Office", and "National Center for Industrial Property Information and Training". Below the header is a navigation bar with links for News and Help. The main content area is titled "Search from JAPANESE Application/Priority/Publication/Patent Number". It contains a search form with the following fields: Type (a dropdown menu set to "Patent application/priority number"), Document Number (a text input field with the example "e.g. 2015-00012X"), and Display Type (radio buttons for "File Wrapper Information" and "Patent Family", with "File Wrapper Information" selected). Below the form is a note: "Note: Please select 'Patent Family' when you search by PCT international publication number as corresponding file wrapper information is not directly accessible." There is a "Submit" button and a link "Click here for Stored Data Information." Below this is another search form titled "Search from OTHER Application/Priority Number" with fields for Application Number and Priority Number (both with the example "e.g. US-2015-00012X") and a "Submit" button. At the bottom, there is a section for selecting technical dictionaries: "Select up to 3 technical dictionaries in order of priority." followed by three dropdown menus labeled Dictionary1, Dictionary2, and Dictionary3, each with "Select Dictionary" as the placeholder text.



# Examples of Data Errors

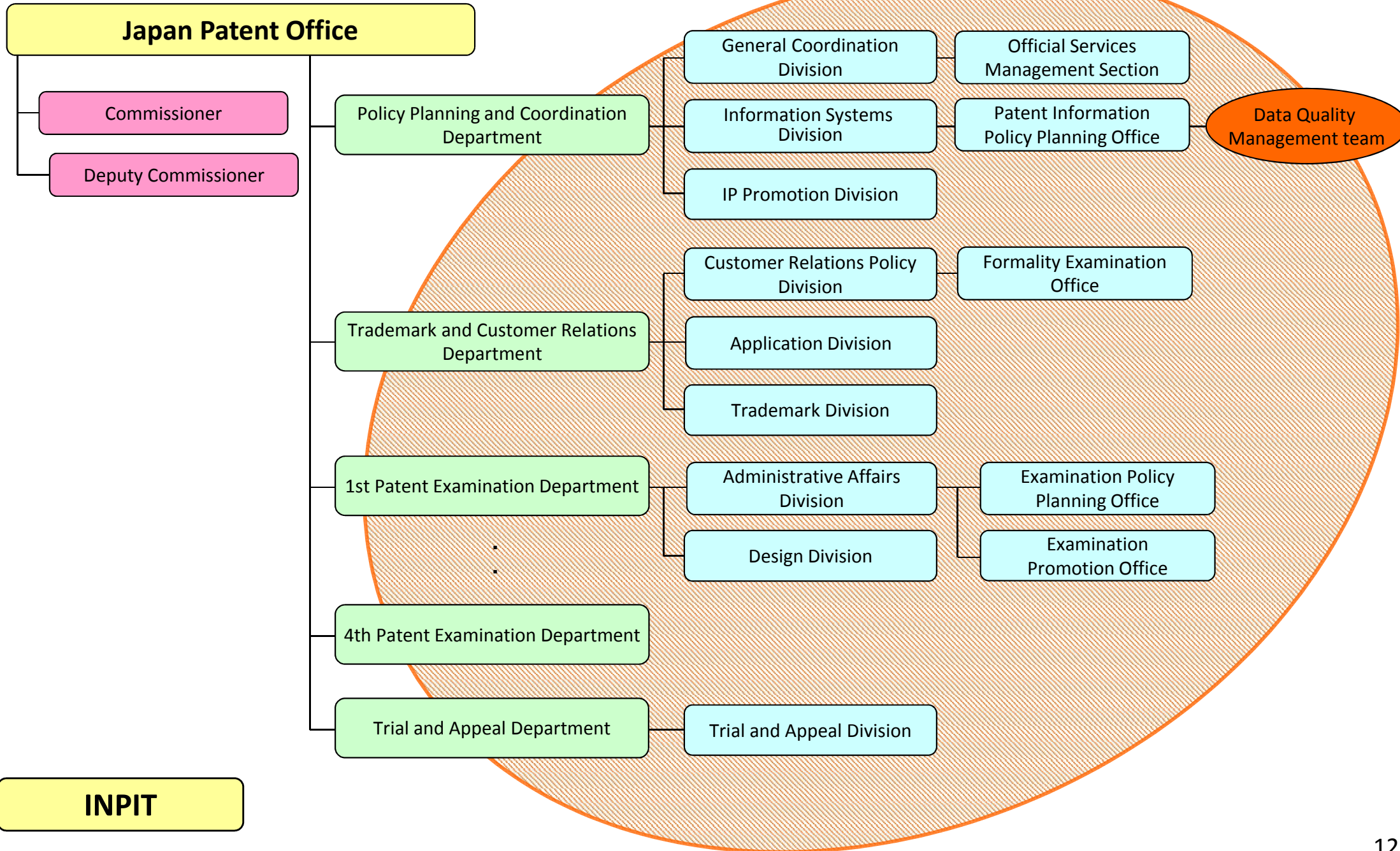


1. Introduction

**2. Organization**

3. Initiatives for Data Quality Improvement

# Organization of the JPO



- **Initiatives**

- data quality management
- collecting and storing foreign patent information; including error correction, if any

- **Staff**

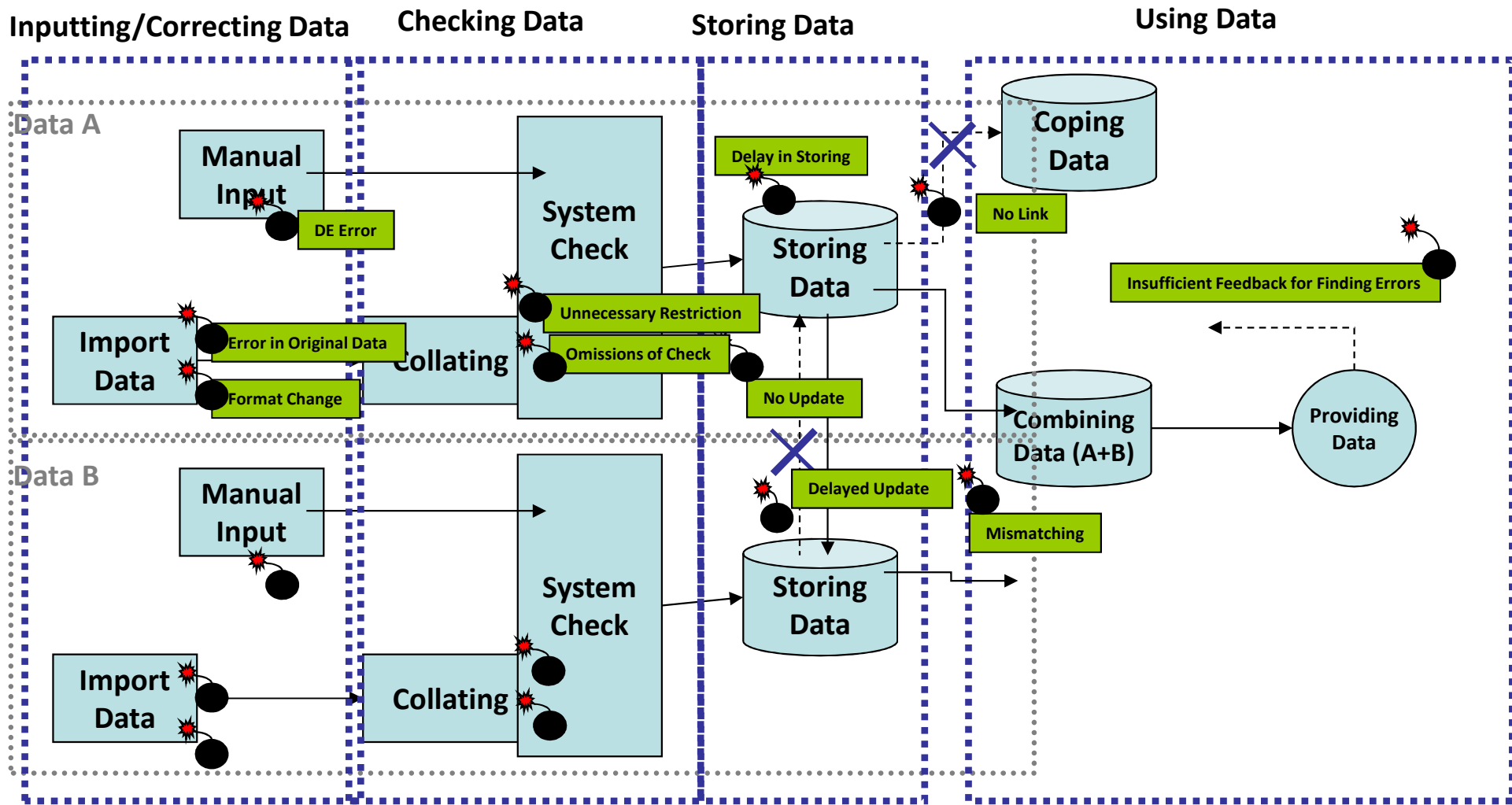
- 5 persons
  - 2 examiners
  - 3 technical staff

1. Introduction

2. Organization

**3. Initiatives for Data Quality Improvement**

# Where do data errors occur?







- **Prevention of Errors**
- **Monitoring of Errors**
- **Correction of Errors**

# Example1: Prevention of Errors

Online Filing Software

**Warning:**  
No "title of invention" is found.  
Please click the link to see the  
details/for your reference.

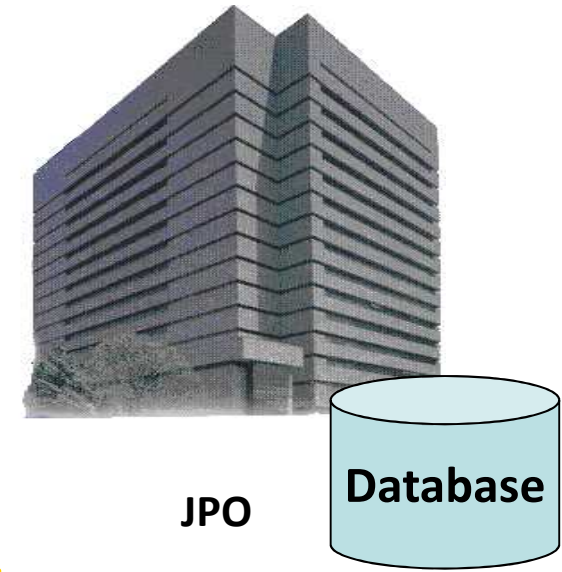
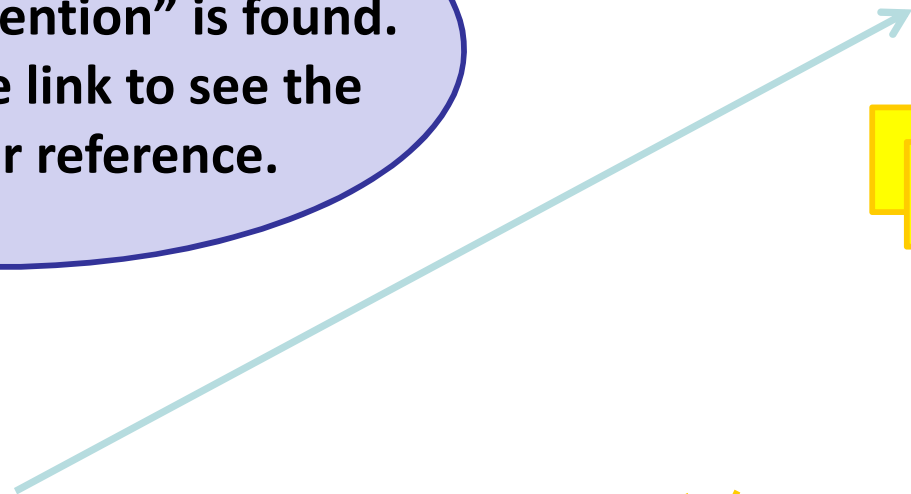


Applicants

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>.....  
.....  
</app>
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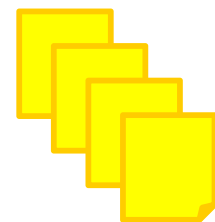


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<app><num>1</num>  
>.....  
..<title>.....  
</app>
```



JPO

Database



# Example2: Prevention of Errors

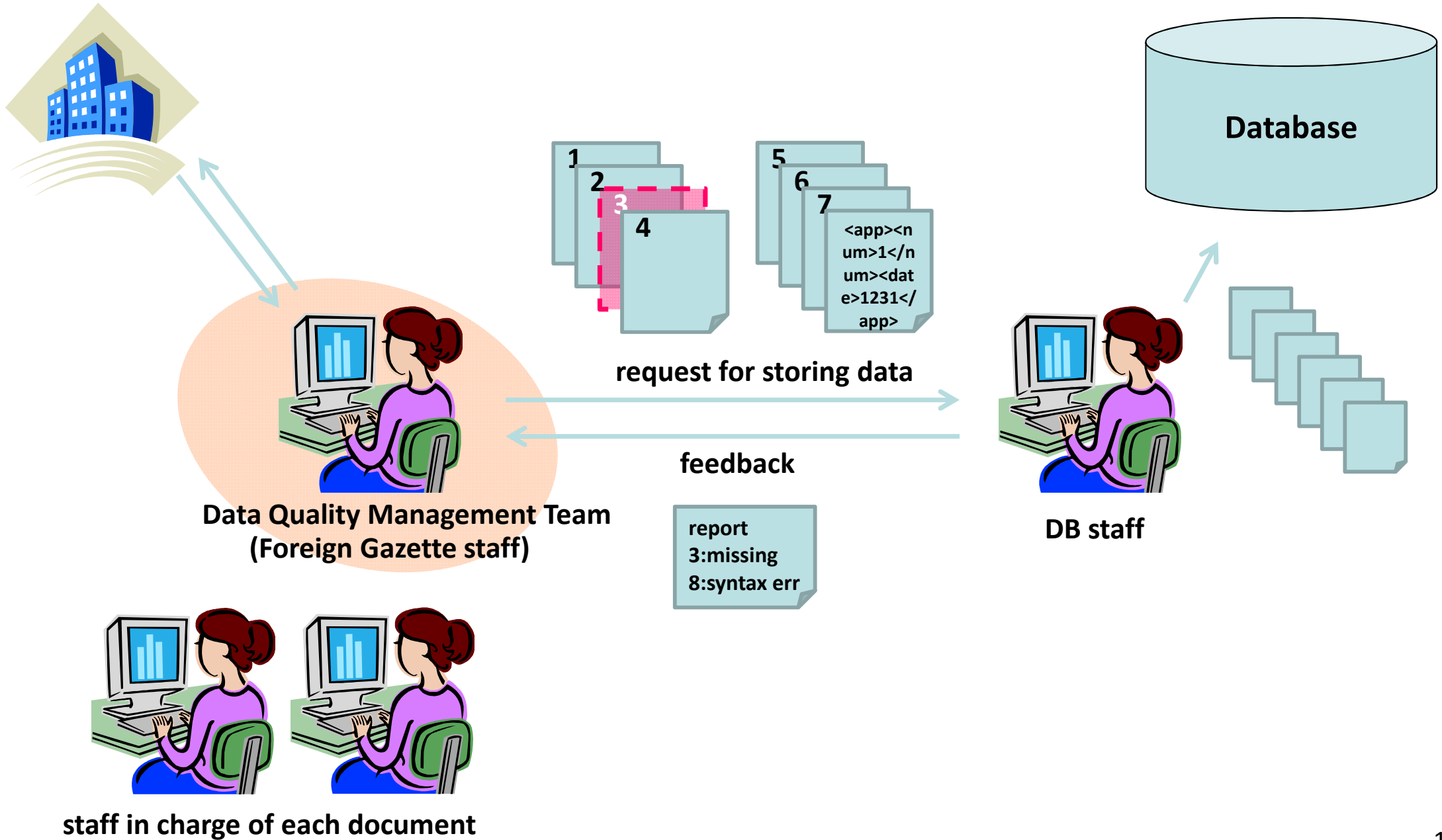
[基本項目] (\* 処分済 \*)

出願 (1) ( 11-123456)(11.04.30) 記号 (J1716 ) 出願種別(01 )新法  
 公開 (2000-312770)(12.11.14) 公開基準日 (11.04.30) 国内優先 (0)  
 公告 ( ) ( ) 優先 ( ) 他 国  
 審判 ( ) ( ) ( ) 担当 ( ) ( )  
 登録 ( ) ( ) 異議 (0) 請求項数 ( 6) 出願料金( 21,000)  
 公決 (起 ) (担 ) 文献 ( ) 新規性 (0) 菌寄託 (0) 公害 ( )  
 査定 ( ) (起 ) (担 ) 前置 ( ) 解除 ( ) 公序・要約 ( )  
 (発 ) (官 ) 審査・評価請求 (0-) 未請求 (0) 自動起案 ( )  
 最終 (A09)(18.07.25) 公開準備 (1) 早期審査 ( )  
 変更先 ( ) ( ) ( ) 審決 ( ) ( )  
 原出願 ( ) ( ) ( ) 種別 ( ) ( )  
 期間延長 ( ) 最新起案日 (11.08.02)  
 公表 ( ) ( ) 翻訳提出 ( ) 国際出願 ( )  
 再公表 ( ) ( ) 国際公開 ( )  
 公開IPC # A63F 7/02 330 FN 指定分類IPC  
 公告IPC  
 名称 検査装置  
 出願人 代表 ( ) 種 (2) コト (000132747) 国 (10) 株式会社ソフィア \*  
 群馬県桐生市境野町7丁目201番地  
 代表 ( ) 種 (2) コト (599059234) 国 (21) 有限会社 マツウラ商会 \*  
 岐阜県岐阜市南鶉2丁目19番地  
 代理人 種 (1) コト (100096699) 鹿嶋 英貴  
 中間 (A63 ) 特許願 11.04.30 ( 21,000) 完 (A82-1 ) 手続補足 11.05.06 ( ) 完  
 記録 (A11-2 ) 中間指令 11.08.10 (6895- ) A (A52-3 ) 補正書 11.08.25 ( ) 完  
 (A96-7 ) 認定情報 11.09.01 ( ) (A96-7 ) 認定情報 11.09.01 ( )  
 (A300 ) 未請求票 18.07.04 ( )  
 新出願  
 国内優先 (先)

The last 1 digit of the applicant code is a “check digit” and enables us to find some inconsistency before data entry.

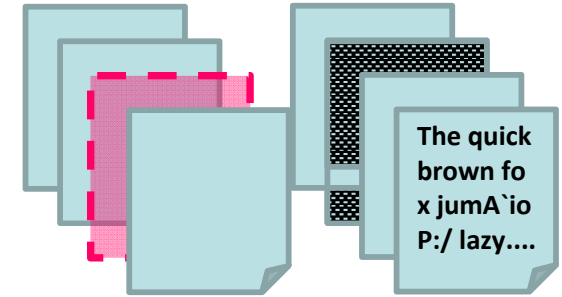
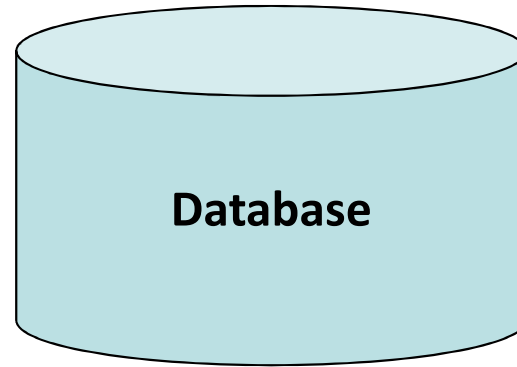
# Example3: Prevention of Errors

Foreign IP offices



# Example4: Monitoring of Errors

Foreign IP offices



data exchange

fix

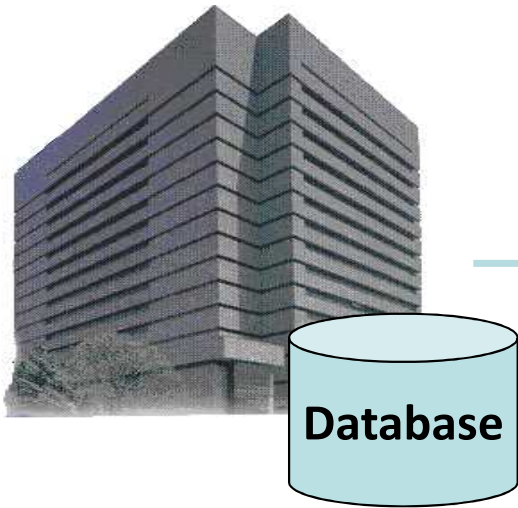
screening

JPO examiners,  
JPO staff

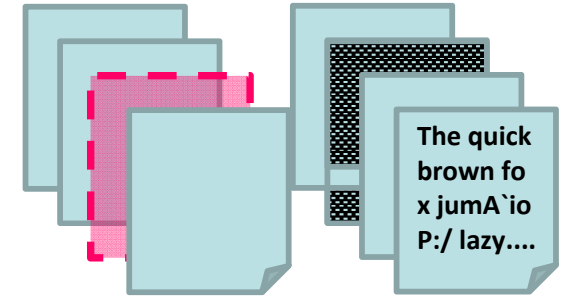
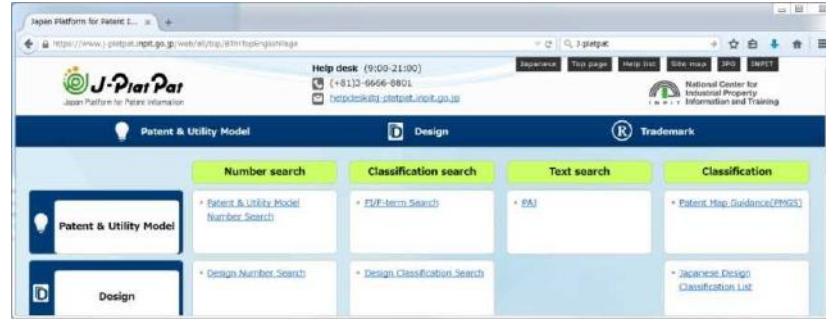
report

Data Quality Management Team

# Example4: Monitoring of Errors



via Internet (J-PlatPat, OPD, AIPN)

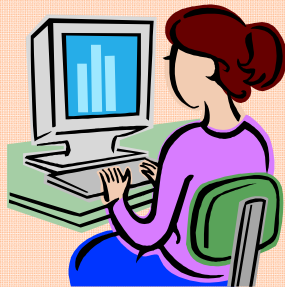


fix

report

report

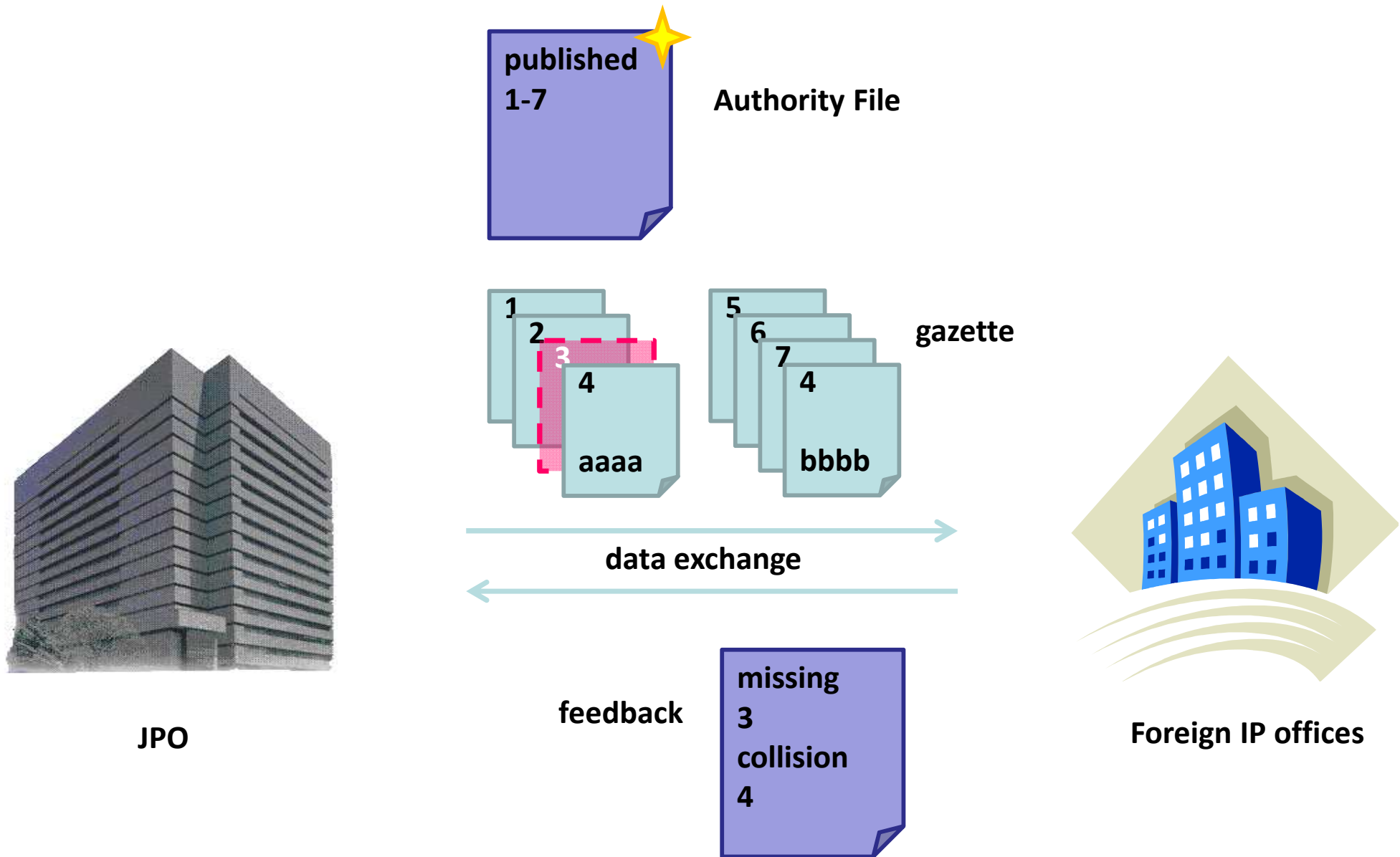
Public Users,  
Foreign IP Offices



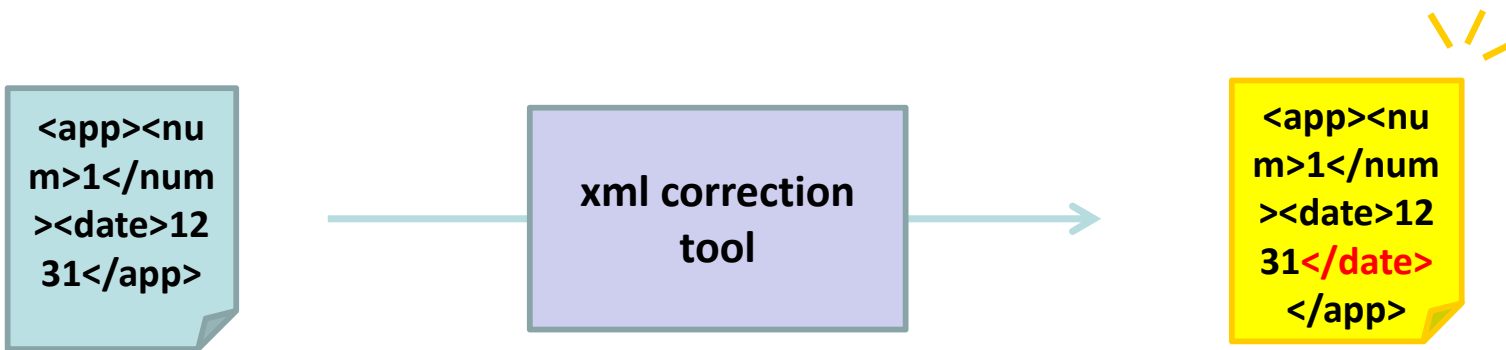
Data Quality Management Team



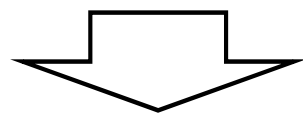
# Example5: Monitoring of Errors



# Example6: Correction of Errors



```
<Bibliographic>
<!-- Temp tag<!DOCTYPE SYSTEM>Temp tag -->
<!-- Temp tag< APSVER="2.2"><PATDOC>Temp tag -->
<DP n="1" type="SOFT"/>
<PatentDOC>
```

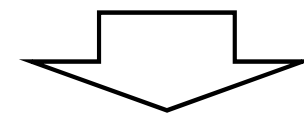


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<Bibliographic>
<!-- Temp tag<!DOCTYPE SYSTEM>Temp tag -->
<!-- Temp tag< APSVER="2.2"><PATDOC>Temp tag -->

<PatentDOC>
```

deletion of tag

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<DOC>
<BIJ> applicant name: ABC corp.
<ABJ> abstract: apparatus for...
<DRJ> Fig.1 is a side view, Fig.2 is a sectional view...
<DEJ> This invention relates to .....
```



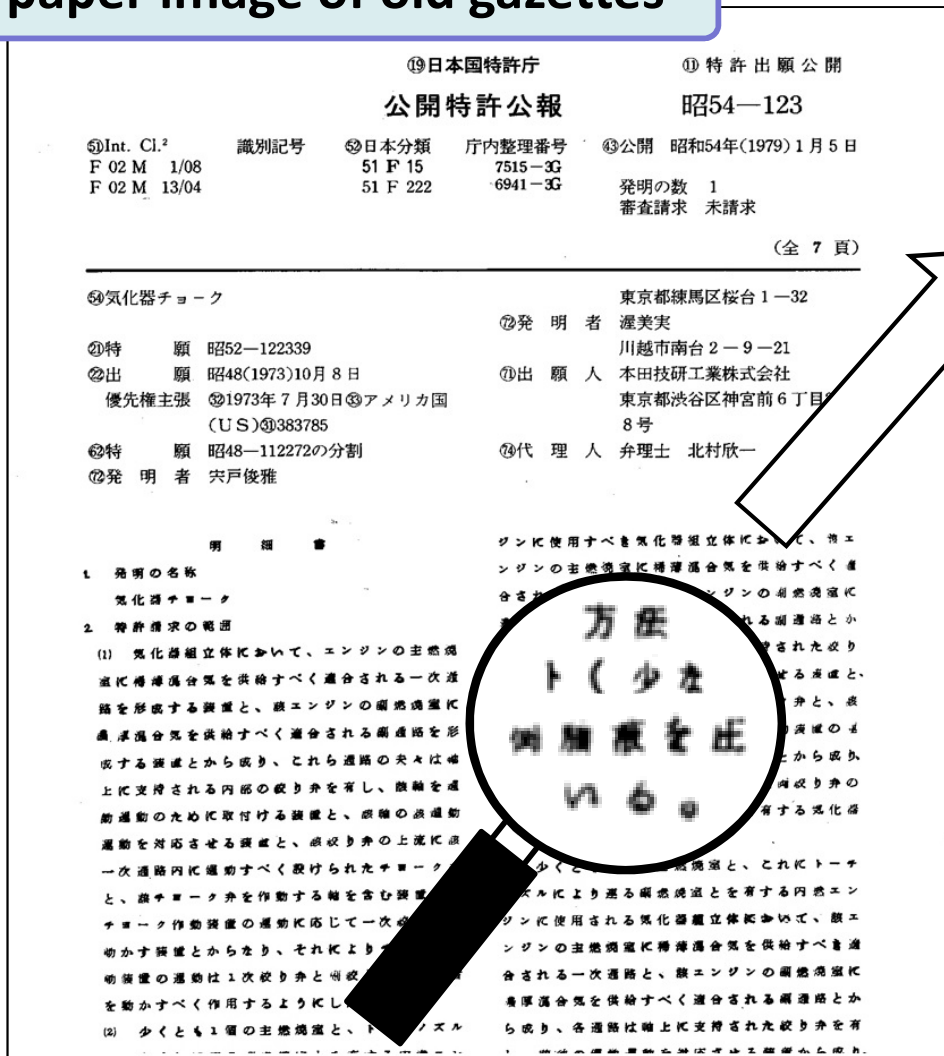
```
<DOC>
<BIJ> applicant name: ABC corp.
<ABJ> abstract: apparatus for...
<DEJ> This invention relates to .....
```

re-order of tag



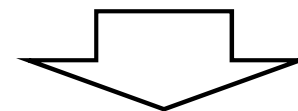
# Example7: Correction of Errors

## paper image of old gazettes



## OCR text data

かくて、**m**温度が通常るとき、**置**は**チ曹**  
**ー**りの開放を全開と全閉との間の**中間位**  
**aiKifr**容する。

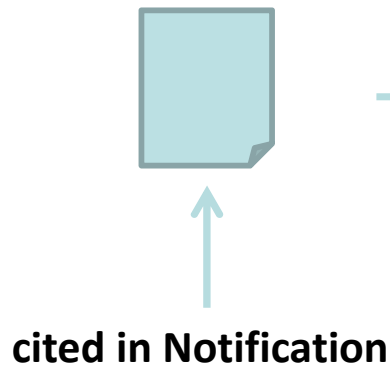


## machine translation

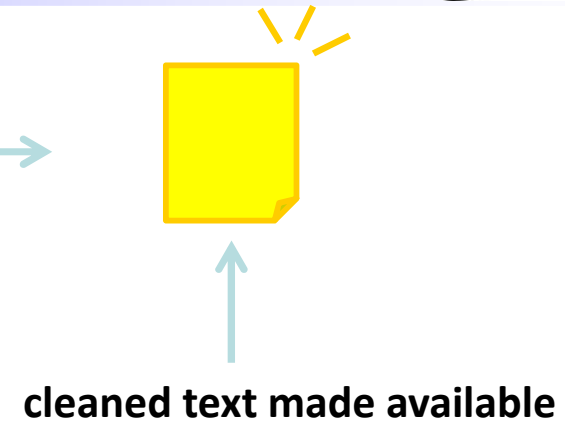
**Nucleus, m** The ambient temperature is in the normal, "**location is Chi Cao** - intermediate position **aiKifr contents of** between **Ri** valve fully open and fully closed the opening of the.

- OCR (optical character reader) data contains many recognition errors
- This error causes mistranslation of machine translation

# Example7: Correction of Errors



7-8 weeks



## OCR text data

かくて、**m** 周囲温度が通常するとき、**」**置は**チ曹**  
**ーリ**弁の開放を全開と全閉との間の中間位  
**aiKifr**容する。

## cleaned text data

かくて、**周** 周囲温度が通常するとき、**装**置は  
**チョーク**弁の開放を全開と全閉との間の中  
間位置に**許**容する。

## machine translation

**Nucleus, m** The ambient temperature is in the normal, "**location is Chi Cao** - intermediate position **aiKifr contents of** between **Ri** valve fully open and fully closed the opening of the.

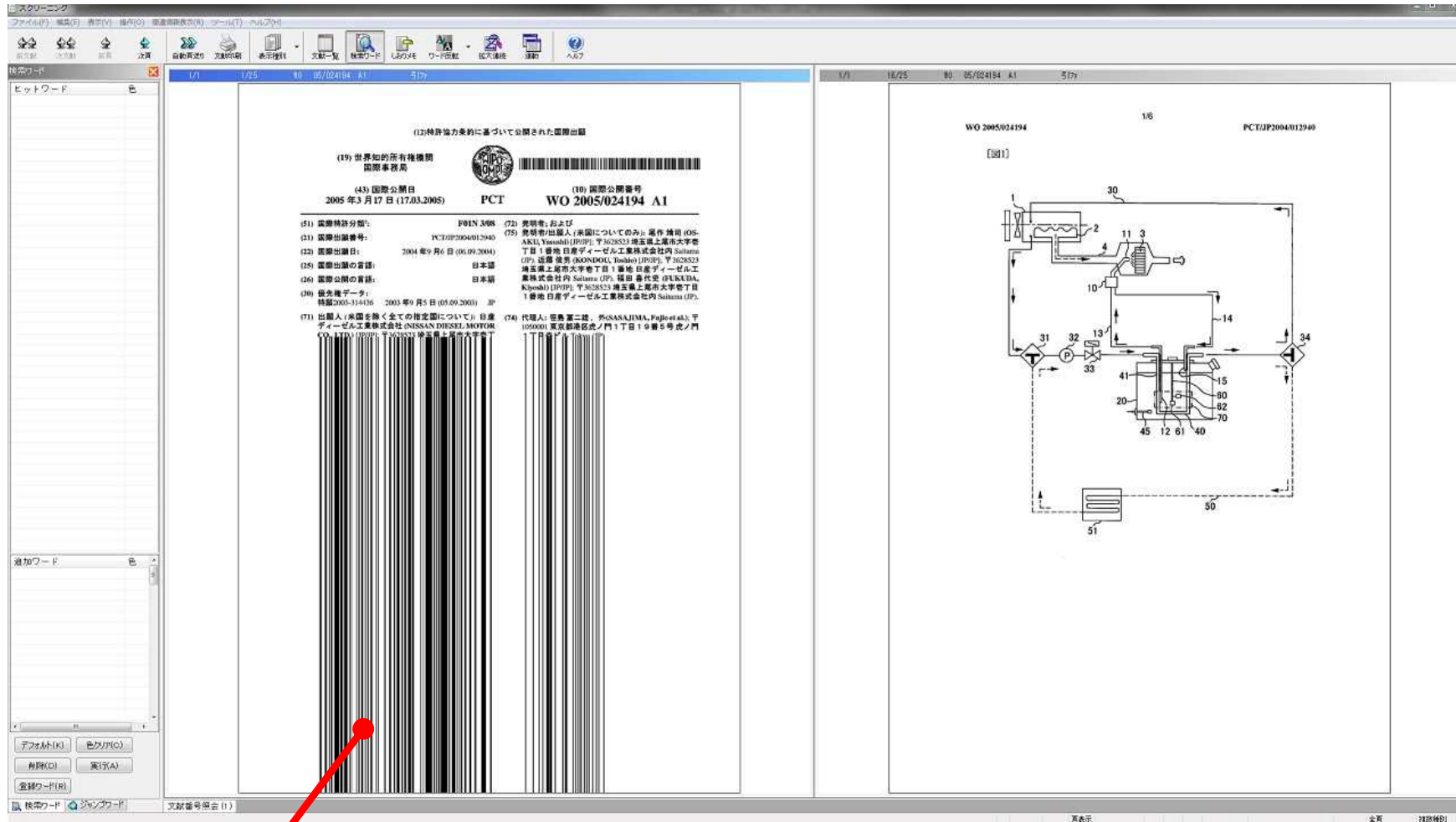
## machine translation

**Thus**, the ambient temperature is the normal, **the device allows** an intermediate position between the fully open and fully closed the opening of the **choke** valve.

- **Patent Information is very important for economy**
- **Monitoring is the most important effort in Data Quality Improvement**
- **Management team is one of the models to improve Data Quality**



***Thank you for your attention***



corrupted image



The screenshot shows the Data Management Intranet website. The browser address bar displays [http://www.data-management.jpo.go.jp/cgi-bin/DM/contentsV2/DM\\_hoi](http://www.data-management.jpo.go.jp/cgi-bin/DM/contentsV2/DM_hoi). The page title is "データ管理イントラネット by 特許情報管理班" and the user is identified as "[4449]上田 翔太". A navigation menu includes "ホーム", "お知らせ", "庁議報告等", "関連サイト", "班内限り", and "文献蓄積状況". A "ホーム" button is highlighted. A "データ不正事象報告へ" link is circled in red and labeled "mail launcher". A "What's New" section contains a notice dated 2016/04/21 regarding the OA separation. A "データ品質改善サイクル" (Data Quality Improvement Cycle) diagram is shown below, consisting of four stages: 現状認識 (Current Status Recognition), 問題分析・類似事象調査 (Problem Analysis and Similar Incident Investigation), 業務・システム改善/データ修正 (Business/System Improvement/Data Correction), and データ定常業務の監視 (Monitoring of Data Regular Business). The cycle flows from Current Status Recognition to Problem Analysis, then to Business/System Improvement, then to Monitoring, and finally back to Current Status Recognition.

データ不正事象報告へ

mail launcher

What's New

- 2016/04/21 [OA分離後のデータ管理イントラネットについてを追加しました。](#)

データ品質改善サイクル

現状認識  
・データ取扱業務の把握  
・データベース内容の把握  
・過去の不具合事象の収集

問題分析・類似事象調査  
・不具合・障害情報の分析

業務・システム改善/データ修正  
・業務・システムの改善  
・不具合データの修正

データ定常業務の監視  
・蓄積状況・データ仕様の把握  
・新規不具合・障害報告の把握



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 (57) **ABSTRACT**

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**Related U.S. Application Data**

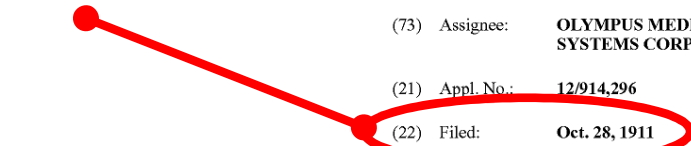
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(30) **Foreign Application Priority Data**

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A medical system includes an endoscope which is a first medical instrument, a gas supply apparatus which is a second medical instrument that supplies a gas to an insertion site at which an insertion portion of the endoscope is inserted, a biological information acquiring apparatus which is a biological information detection section that detects a blood flow rate at the insertion site as a biological information detected value, a manipulation information acquiring apparatus which is a manipulation information detection section that contacts the insertion portion of the endoscope and is combined with a roller that rotates as the insertion portion moves forward or backward to detect an amount of rotation of the roller as manipulation information, and a system control apparatus provided with a control section that outputs an instruction signal for changing an amount of gas supply to the gas supply apparatus according to the detected value detected by the biological information acquiring apparatus and the manipulation information detected by the manipulation information acquiring apparatus.

Filing: 1911?



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