


NOV.5.2015

Initiatives on High Value-added Patent Information service by Commercial Database Venders

JPDS Japan Patent Data Service Co.,Ltd.
Planning sec.
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Corporate Profile

Name Japan Patent Data Service Co., Ltd.(JPDS)

President NAKATA, Masatoshi

Establishment October 1988

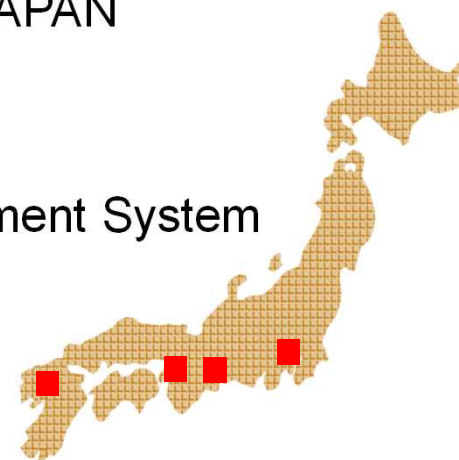
Capital 20 mill. JPY

Head Office Sumitomo-Fudosan Hibiya Bldg.
2-8-6, Nishi-Shimbashi, Minato-ku, Tokyo, JAPAN

Locations Tokyo, Nagoya, Osaka, Kyushu

Employees 43

Business Line Patent Retrieval Database, Patent Management System
Patent Search Service, IP Seminar
Other IP related businesses



History

1998 Oct.	Establishment for the purpose of providing patent information in and outside Japan
1992 Dec.	Patent retrieval software "JP-ROM" released
1993 May.	First-ever edited and processed sales of electronic patent data in Japan started
1997 Nov.	JP-ROM client server type released
2000 Nov.	Full text search service of 5 mill. specifications "JP-NET" released
2003 Jun.	New CSS (New Client Server System) released
2005 Dec.	Patent mining software released (Agreement with WIDES patent service Co.)
2006 Apr.	Inauguration of IP training section
2008 Jul.	Establishment of Chizai Works Co.
2009 Nov.	Translation service for foreign patents DB started
2012 Jan.	Sales agent agreement with Intellectual Property Publishing House Co. (China)
2012 Feb.	Sales agent agreement with Clairvolex Knowledge Processes Pvt. (India)
2013 Apr.	Establishment of Chizai System Development Co. Patent management system "PATAS" sales started
2014 Nov.	Establishment of JPDS International Patent Office
2015 Jan.	Patent management system for patent firms "PATDATA" sales started
2015 Apr.	Affiliation of WIDE'S patent service Co.

Products and Services



- ▶ Patent information retrieval service
「JP-NET / New CSS」



- ▶ Patent management system
「PATAS / PATDATA」



- ▶ Patent search service

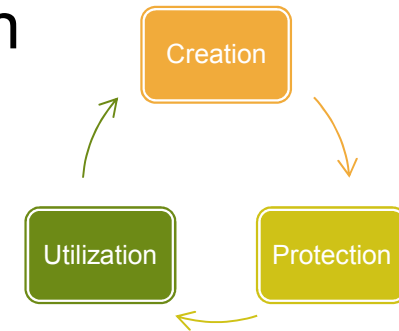


- ▶ IP seminar
「Chizai-Terakoya」

Role of Patent Information, Users' perspectives

- ▶ Key point for cycle of intellectual creation

- Patent information are used in various situations
- Critical information to utilize intellectual property



- ▶ Users(especially companies)' perspectives

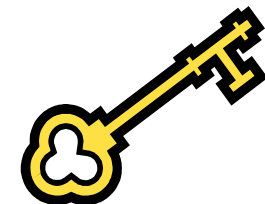
- Patent search (SDI, Monitoring, Prior-art, Rights information)
- Analysis(Patent mapping)

→Confirming the trends of Business Creation, Commercialization, Cases, R & D

Critical information for business decision

Importance of primary information is very high

→Fair and correct information have to be published.



Differences between Free and Paid DB

	Free DB	Paid DB
General	Highly public, Used by wide range of people	Used by corporate persons, dedicated to business use
Provider*	Government, Public institutions	Private companies
Role	Appropriate publication of accurate information.	Meet the users' requirements such as operational efficiency, unique information etc.
System scale	Large Accuracy is essential.	Vary on company size
Function	Available to the public, easy to use	Easy to use + high functionality

- ▶ A shift begins for providers
Gov. / Public Institutions ··· Paid DB
Private Companies ··· Free DB

Approach and Efforts by Paid DB

- ▶ Primary information (data source) are all common.
→ The most important point is how to differentiate.
= High value addition

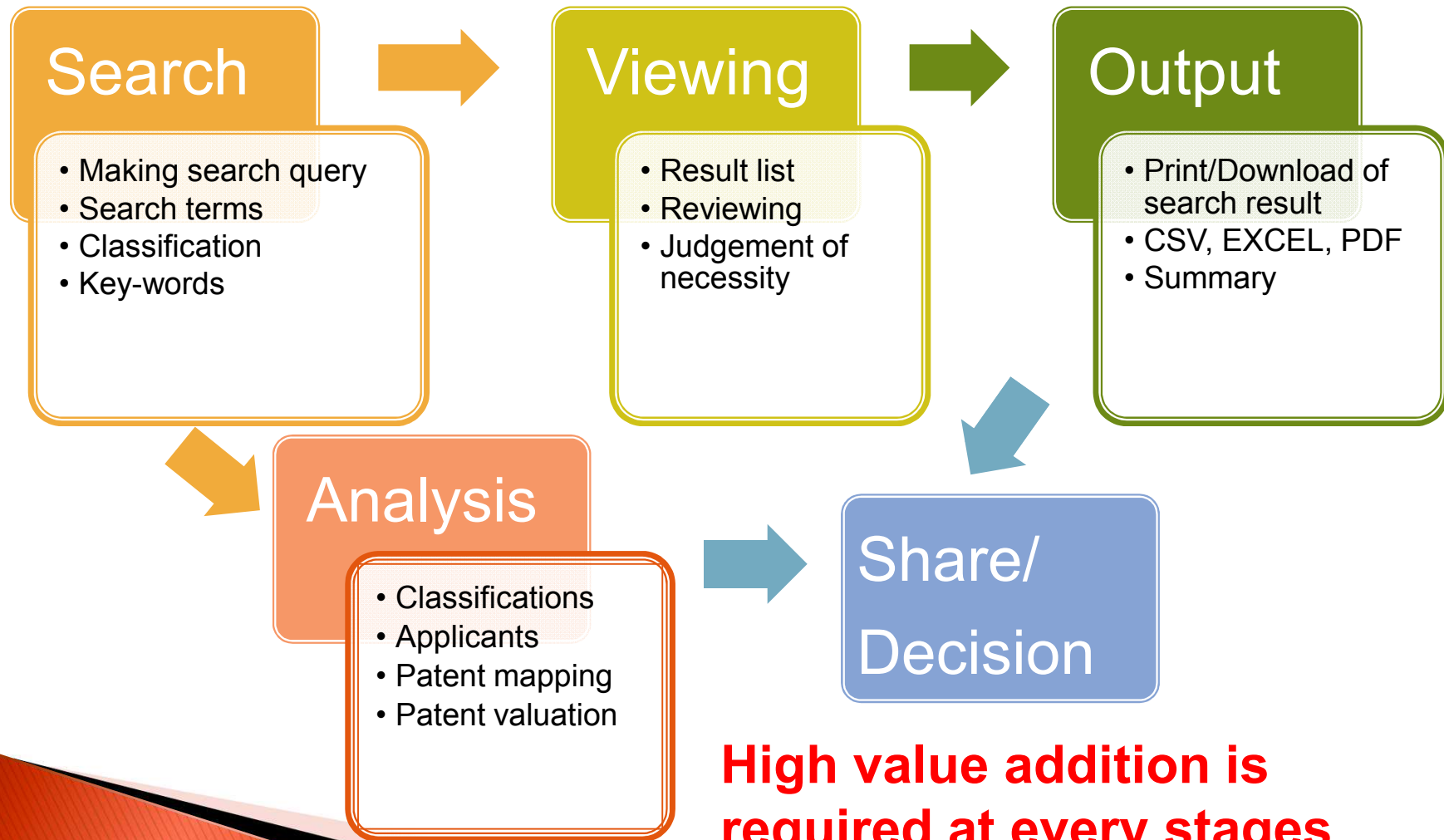
< Examples of high value addition >

- Speed ▪ Function (Usability) ▪ Unique search
- Analysis ▪ Information Coding ▪ Linkage with other systems
- Processing of primary information
- Abundant coverage of worldwide patent

→ need to work with users' needs in a balanced manner



Flow of Using Database



High Value Addition of JPDS Services

- ▶ JPDS services are unique in the world.
→ Closely related with high value addition
- ▶ Dedicated software with self-developed engine
 - Quick search and viewing
 - High security level
 - Usability, output
- ▶ Another high value addition
 - Regular version upgrade to reflect users' voice
 - Quality customer support
 - Fixed price



High Value Addition Case 1

~Speed~



- ▶ Depending on the technical field, searchers review 100 to 10,000 patent documents. Only a second will make a great difference to review vast amount of documents.



【Cache function】

Once viewing a document, downloading the following documents data will run automatically in the background. This enables users to move to the documents very faster.

The time to change the documents

Jplat-pat・・・about 3 to 7 seconds

JP-NET (cache)・・・0.1 seconds

High Value Addition Case 2

~Unique Search Function~



- ▶ Databases have to equip improved search functions to narrow down the vast amount of search result. It is important to review the result with clear goal of the search.

① Applicant search (name standardization / group companies)

→ change of the company name and affiliated companies etc.

② Status information

→ remove lapsed patents easily

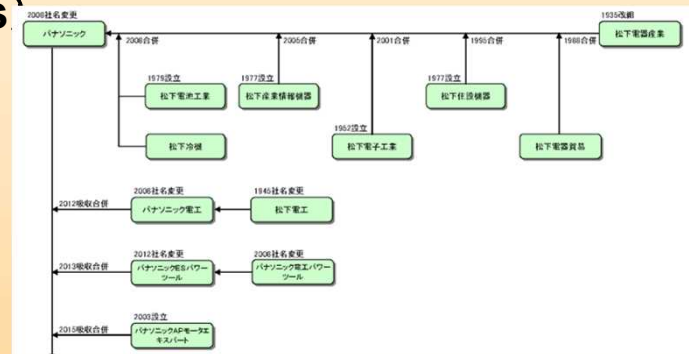
③ Prosecution history information

→ Request for examination (importance↑)、

Third-party observation etc. action to influence the value of patents

④ Citing / Cited information

→ Citation by examiners and applicants are important references.



- ▶ Complex search query
→ Easy to make complex combination of Boolean operators that free DBs are unable.

High Value Addition Case 3-1

~Unique Viewing~



- ▶ It is important to check the necessary information quickly when reviewing the patents. In order to achieve this point, various kinds of formats are provided.

【Result list】

Abstract, numbers of citing and cited documents and patent family information etc. can be displayed.

【Display publication】

Five kinds of displaying formats are available. “Layout display” enables customization.

特許番号	発明の名称	IPC	出願人	ステータス	ファミリー
特開2013-137020	騒音を低減するための先端形状を含むエロfoilおよびそのエロfoilを製作するための方法	F01D 26/88B6	ゼネラル・エレクトリック	公開	
特開2012-062782	ガスタービンエンジン	F04D 29/54	株式会社IHI	公開	
特開2012-145012	ガスタービンエンジン	F04D 29/54	株式会社IHI	公開	
特表2008-535734	離・着陸時における低騒音レベルの航空機	B64D 27/20	エアバス・フランス	公開	

【請求の範囲】
 1. A combined sump structure (30) in an engine (10) comprising: a sump area including one or more sumps (31,33); a single oil supply (50) being provided for all sumps; and a combined sump drain (60).
 2. The combined sump structure (30) of claim 1, further comprising: the one or more sumps being a B sump (31) and a O sump (33); one or more B sump scavenges (52,54); one or more O sump scavenges (62); and, the combined sump drain being a B/O sump drain (58).
 3. The combined sump structure (30) of claim 2, further comprising: the one or more sumps being supported by a single frame assembly; wherein the B Sump is comprised of a middle member and a forward member; the O Sump is comprised of an aft member and the middle member; and, an oil supply extending through a single supply oil passageway in the aft direction passing into the frame assembly at a forward end of the aft member and thereby through the aid and aft members.
 4. The combined sump structure (30) of claim 3, wherein the oil supply line passes through the B sump to reach the O sump.
 5. The combined sump structure (30) of either of claim 3 or 4, wherein the combined sump frame assembly includes a rear bearing assembly further including a scavenge passageway or surface adjacent the rear bearing assembly which passes radially outward to a sump trap, the supply oil passageway

High Value Addition Case3-2 ~Unique Viewing~



【Text Viewing・highlighting bar】

Viewing text information with drawings. Drawings can be rotated. Highlighting bar enables to find the keywords easily. Highlighting words can be color-coded according to synonyms used in search query.

The screenshot shows a software window titled "JP-ROM検索システム - [JP0500 テキスト表示 (運動表示)]". The interface is divided into several panes:

- Left Pane:** A vertical list of document entries. The selected entry is "特開2000-128088 <選択:OFF>".
- Text Pane:** Displays the abstract and detailed description of the patent. The text is highlighted in green and red. Key terms like "空気流" (air flow) and "衝撃波" (shock wave) are highlighted in green, while "超音速領域" (supersonic region) is highlighted in red. The text describes a method for reducing drag on an aircraft wing by placing engine nacelles at specific positions to manage shock waves and pressure distribution.
- Figure Pane (Top Left):** Shows a 3D perspective drawing of an aircraft with engine nacelles (N) and a wing (W). Labels include "機体 F" (fuselage), "エンジンセル N", "主翼 W", and "ナセル最大径 D".
- Figure Pane (Top Right):** A 2D cross-sectional diagram of a wing and engine nacelle, showing the nacelle's position relative to the wing's leading edge.
- Figure Pane (Bottom Left):** A graph titled "主翼上面の圧力分布 (M=0.78, Cl=0.40)". The x-axis is "X/C" (0.0 to 1.0) and the y-axis is "Pressure Coefficient". It shows pressure distribution curves for different nacelle positions: "エンジンセルなし" (no nacelle), "エンジンセル位置 X/C=0.15", and "エンジンセル位置 X/C=0.30". A region of high pressure is labeled "衝撃波が発生している" (shock wave is occurring).
- Figure Pane (Bottom Right):** A diagram showing a "超音速領域" (supersonic region) and a "衝撃波" (shock wave) on a wing, with "伴流" (wake flow) indicated.

High Value Addition Case 4

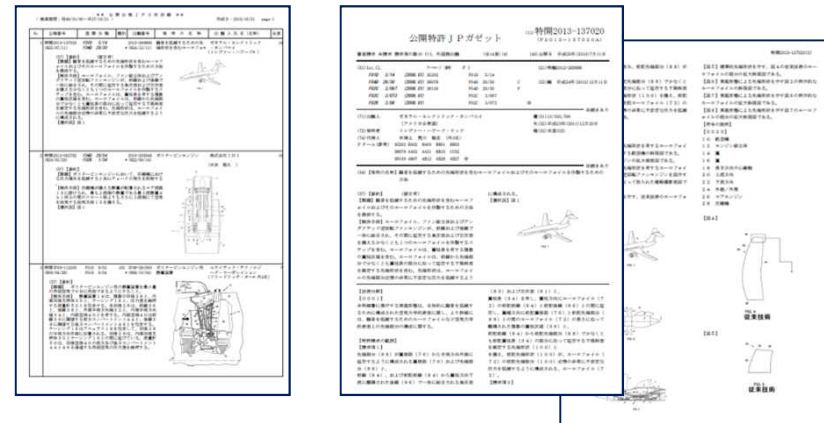
~output~

- ▶ Considering how users utilize the search results, various kinds of formats are available

【print/PDF】

Batch output up to 5,000 documents at a time. Users can select an appropriate form from various kinds.

【CSV・EXCEL】



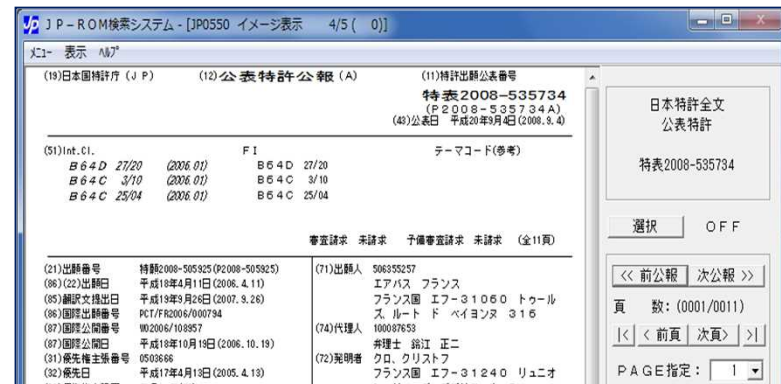
Excel download with drawings. It is available to display publications by clicking the link at publication number.

High Value Addition Case5

~Processing the primary information~

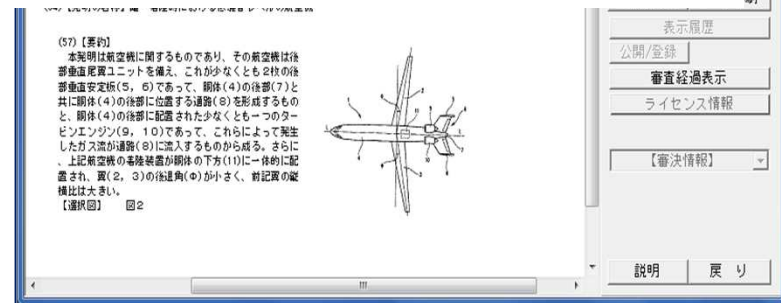
【Citation group (Citing and cited information)】

Unique search key extracted from citation information from examiners and applicants. Linkage from original patent to another patent. This shortens the time to approach to important documents when reviewing prior-art and related publications



【Family information】

Using priority numbers, worldwide 80 countries are linked together. Application strategy and differences in rights among countries can be checked.

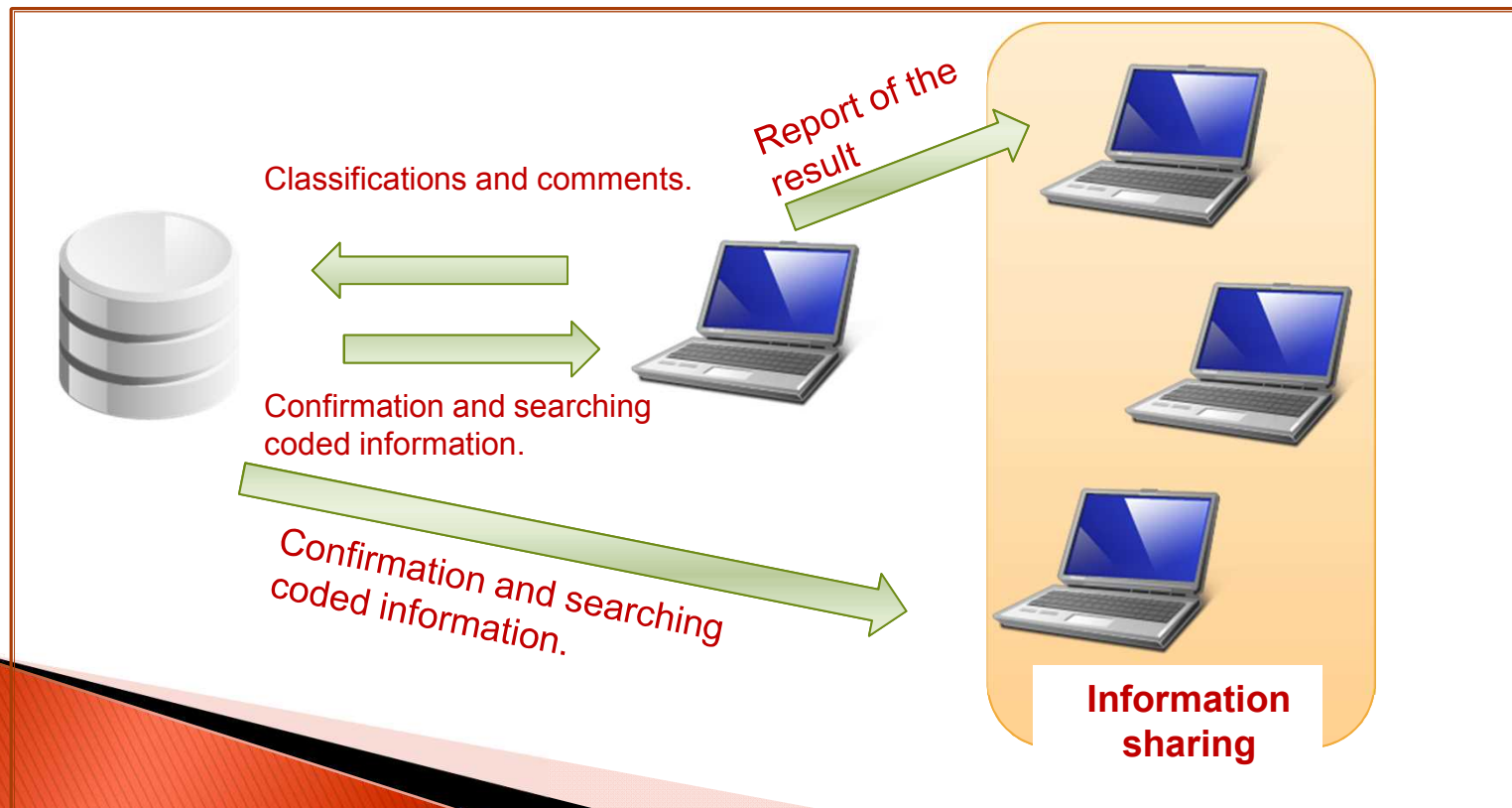


High Value Addition Case 6

~ Coding and sharing information ~

- ▶ One of the important points in company utilization.
Coding and sharing of the information to utilize the search result.

【Utilizing example】



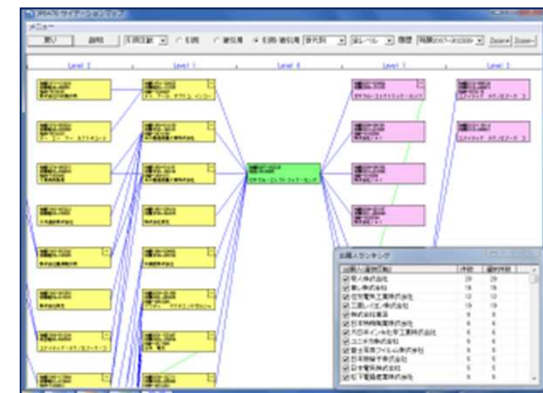
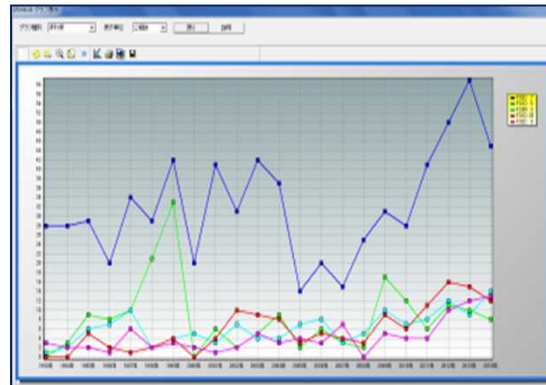
High Value Addition Case 7

~Analysis function~

In IP strategy, analysis of technology trend is essential. Recently patent valuation etc. has been used.

【Patent mapping function】

By reflecting the search result directly to patent map, it is available to analyze the search result seamlessly.



【Analysis software Pat-Mining】

Result list can be incorporated to software. Deep analysis and patent valuation are available.



High Value Addition Case 8

~Linkage~

- ▶ It has been standard function of paid DB.
Especially linkage between patent management software is big advantage.

【Linkage between management software】 Incorporation of prosecution history, connection to publication

Correct information for their own applications, joint applications and others can be incorporated by linking database and management software without human errors.



Patent Retrieval Database Industry in Japan

- ▶ Unique market and growth in special language of Japanese.
→ Not so much foreign vendors coming into 2-byte character market.
- ▶ Deep “Omotenashi” spirit of hospitality by Japanese
Detailed functionalities are requested all the time.
→ Many trivial improvements from customers.
It is important to accept these with a better improvements.



Advantages of Utilizing Patent Information

- ▶ Avoid unnecessary R & D expenditures
- ▶ Avoid and identifying infringement
- ▶ Technology information as public resources
- ▶ Business method to protect projects and gain profit

★ **Utilizing the patent rights correctly is essential.**
★ **Shortcut to influence the awareness at companies**
(Infringement, case and license are not known by ordinary employees)

It is important to consider the significance of patent information.

Summary

- ▶ Commercial databases are equipped with functions that are unavailable in free databases. Meeting the demands from users, it contributes to IP industry.
- ▶ Nothings available without primary information form patent and trademark offices. The industry begins at information from Government.
- ▶ The achievements from value added services are visible i.e. Numbers of applications worldwide
- ▶ Patent information from any countries are all valuable
- ▶ Patent information from Japan are also valuable other countries



Summary

- ▶ No disadvantages of utilizing patent information
- ▶ Importance of patent information from history
- ▶ Among Japanese companies there are some anxieties for rights protection arising from lack of information.
(They sometimes expand their market with the products that the rights has already been expired.)
- ▶ Patent information dissemination → Development of domestic industry + Attract foreign companies coming in
→ Economic development
- ▶ Mutual utilization of patent information will lead to technological development in the world.



Thank you for listening.

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<http://www.jpds.co.jp>

