

# PATENT ABSTRACTS OF JAPAN NEWS

PAJ News is distributed overseas to provide the latest patent information of Japan and to maintain solid communication with foreign patent offices.

No. **19**  
2001

## 1. Expansion of searchable range and Japanese gazette display function of Searching PAJ in the IPDL

The searchable range of Searching PAJ in the IPDL (Industrial Property Digital Library) has been expanded since March 2001. Before the expansion, only the PAJ published after 1993 could be searched in the service. This time, PAJ data from 1976 to 1992 have been stored in Searching PAJ. Now, all the PAJ published by CD-ROMs are available to search by Searching PAJ in the IPDL.

The automated full text translation function “DETAIL” has been providing English text information of Publication of Unexamined Patent Applications (the original gazette of PAJ). This time, the Japanese gazette display function “JAPANESE” has been added, making it possible to view images of Publication of Unexamined Patent Applications in Japanese.

Although searchable range of Searching PAJ has been expanded, the automated full text translation function “DETAIL” can still be used for PAJ only published after 1993.

## 2. Introduction of new IPDL services - Patent Map Guidance (English) & FI/F-term Search (English) -

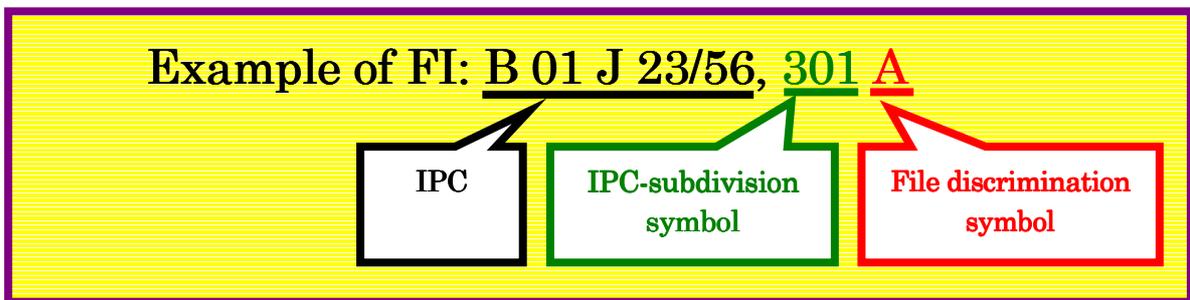
Since March 2001, we have started providing new English services, Patent Map Guidance (English) and FI/F-term Search (English) in the IPDL. We will introduce these new services.

## What is “FI”?

File Index (FI) is a classification used to organize prior art search files in the JPO.

In Japan, some technologies are unique to Japan, and some technological developments are more advanced than their counterparts in other countries. For the reasons, if the International Patent Classification (IPC) is adopted as it is, numerous patent documents will be collected in some IPC classifications, and efficient searches will not be possible in some technological fields. Therefore, the JPO has subdivided and expanded the IPC into the FI, to make prior art searches more efficient.

IPC is subdivided to add IPC-subdivision symbol (3-digits number) and/or file discrimination symbol (alphabet).



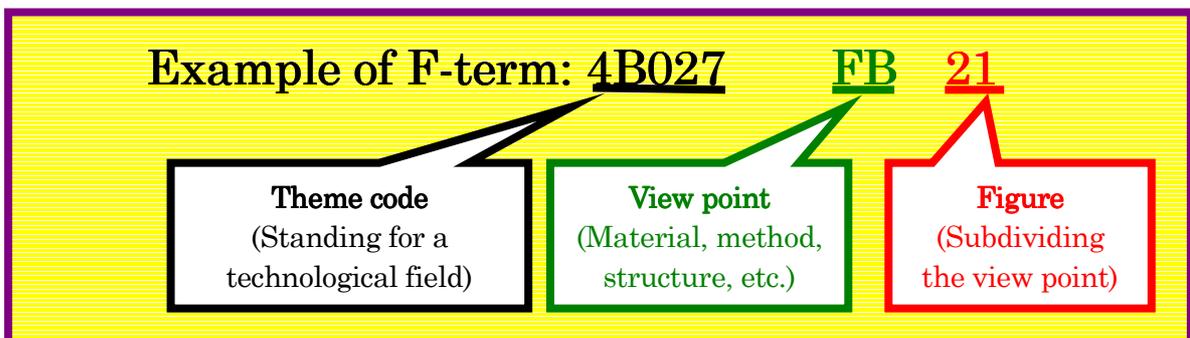
## What is “F-term”?

File forming term (F-term) is the technical term for computerized searches of patent documents, developed from multiple viewpoints in the JPO.

While the IPC is organized from single technical viewpoint, F-term is expanded or re-organized the IPC, in some technological fields, from multiple technical viewpoints (purpose, use, structure, materials, manufacturing method, method of processing and operation, means of control, and so on).

Please note that since F-term has been created to improve search efficiency in some specific technological fields, F-term does not cover all technologies.

F-term consists of a 5-digits theme code, a 2-digits viewpoint, and a 2-digits figure.



FI and F-term are given to patent documents as the search keys for all years. Therefore, if you use the latest FI/F-term as the search key, patent documents in all years can be searched just one operation.

## Procedure of patent document searches using FI/F-term

When you search patent documents using FI/F-term, the following two-step operation should be proceeded.

1. Search FI/F-term corresponding to the technological field that you want to investigate
2. Search patent documents using the FI/F-term

The following example explains brief search method of patent document using FI/F-term. The example shows searching method of the patent documents concerning bending wood technology.

### 2.1 Searching method of Patent Map Guidance (English)

The Patent Map Guidance (PMGS) enables you to look up the FI/F-term that corresponds to the technology you want to investigate. FI has hierarchical structure and you can refer to FI from summary to detail, expanding from upper to lower level. In this example, the FI of wood bending technology is found, expanding from “B” to “B27H1/00”.

Japanese Patent Office  
Industrial Property Digital Library

Notice

NEWS (2000-12-18 Updated)  
QUESTIONNAIRE

Japanese

Access Total 405

1. Click “Patent Map Guidance” on the IPDL top page.

1. Search for Beginners (Patent & Utility Model, Trademark)  
2. Patent & Utility Model  
Patent & Utility Model Gazette DB, Patent & Utility Model Concordance, IPC Search, FI/F-term Search(Japanese), [FI/F-term Search\(English\)](#), Search Page of Unexamined Patent Gazette, [Searching PAJ](#), Searching Patent Gazette, Patent Map Guidance(Japanese), [Patent Map Guidance\(English\)](#)

Patent Map Guidance

MENU NEWS HELP

Inquiry  
Hit each service name, or enter a code to the query

• [FI](#)  Search  
e.g. A61K A61K6 C08L27/06 A61K7/46@A A61K7/46,315@A

• [F-term](#)  Search  
e.g. 5B 5B001

Selected Indication type becomes effective when a lower layer from the main group of the FI is indicated.

Indication Type  List  Target  The same layer

2. Click “FI” to find the FI corresponding to the technology that you want to investigate(in this example, wood bending technology).

MENU HELP

\*\* FI Section / Broad-Facet Selection \*\*

A section or Broad-Facet can be chosen on this screen. Click on a section to indicate, or Broad-

- [ASection](#) SECTION A - HUMAN NECESSITIES
- [BSection](#) SECTION B - PERFORMING OPERATIONS; TRANSPORTING (Note)
- [CSection](#) SECTION C - CHEMISTRY; METALLURGY (Note)
- [DSection](#) SECTION D - TEXTILES; PAPER
- [ESection](#) SECTION E - FIXED CONSTRUCTIONS
- [FSection](#) SECTION F - MECHANICAL ENGINEERING; LIGHT
- [GSection](#)
- [HSection](#)
- [Broad-](#)

MENU

3. Wood bending is one of the technology of wood processing. Section B “performing operations” can include wood processing. Therefore, Click “B Section” to see more detailed information of the section B

4. “Working wood” can include wood bending technology. Click “B27” to expand the FI “B27” to lower level.

\*\* FI Class Selection \*\*

A class of the "B"section can be chosen on this screen. Click on a class to indicate.

- [B27](#) WORKING OR PRESERVING WOOD OR SIMILAR MATERIAL; NAILING OR STAPLING MACHINES IN GENERAL
- [B28](#) WORKING CEMENT, CLAY, OR STONE

MENU HELP TOP BACK NEXT Upper layer

\*\* FI Subclass Selection \*\*

A subclass contained in the class "B27" can be chosen on this screen. Click on a subclass to indicate.

saw blades 51/00; machine tool frames, beds, pillars or like members.

- [B27C](#) PLANING, DRILLING, MILLING, TURNING, OR UNIVERSAL MACHINES (machine tools in general B23; working wood using abrasive, e.g. sanding, devices B24; tools for these purposes B27G)
- [B27D](#) WORKING VENEER OR PLYWOOD (applying liquids or other fluent materials to surfaces in general B05; erinding, sanding, or polishing of wood B24; applying adhesives or glue to surfaces of wood B27G)
- [B27F](#) DOVETAILED WORK; TENONS; SLOTTED JOINTS; MANUFACTURE OF CASES, TRUNKS OR BOXES; MANUFACTURE OF BUILDING CONSTRUCTIONS E04B 1/38; JOINING OF METALS
- [B27G](#) ACCESSORY MACHINES OR APPARATUS FOR WORKING WOOD; PRESSES FOR PRODUCING FRAMES, PRESS FRAMES
- [B27H](#) BENDING; COOPERAGE; WHEEL-MAKING

5. “Bending” under “Working wood” is relevant to wood bending technology. Click “B27H” to expand the FI “B27H” to lower level.

6. “Bending wood” is appropriate for wood bending technology. Click “1/00” to expand the FI to the lowest level.

\*\* FI Main Group Selection \*\*

A main group or Facet contained in "B27H" can be chosen on this screen. Click on a main group or Facet to indicate.

- [1/00](#) Bending wood, e.g. wood stock[2]
- [3/00](#) Manufacture of constructional elements of tubs, coops or barrels (ass)
- [5/00](#) Manufacture of tubs, coops or barrels (from veneer strips or sheets B)
- [7/00](#) Manufacture of wheels wholly or predominantly made from wood, e.g.

MENU HELP TOP BACK NEXT Former main group Follow

\*\* FI (List Indication) \*\*

This screen shows all FIs contained in the main group or Facet "1/00".

Click on a subclass to indicate. Refer to HELP for more information.

Indication Type  List  Table

- [1/00](#) Bending wood, e.g. wood stock[2] 2B210

7. The FI “B” is expanded to one of the lowest levels, from “B” to “B27”, “B27” to “B27H” and “B27H” to “B27H1/00”. The Patent Map Guidance (PMGS) indicates that the wood bending technology can be searched by the FI “B27H1/00”.

## 2.2 Searching method of FI/F-term Search (English)

After referring to the FI/F-term by the PMGS, you can search the patent documents using the FI/F-term.

Japanese Patent Office  
Industrial Property Digital Library

Notice

NEWS (2000-12-18 Updated)  
QUESTIONNAIRE

Japanese

Access Total 405

1. Search for Beginners (Patent & Utility Model, Trademark)  
2. Patent & Utility Model  
Patent & Utility Model Gazette DB, Patent & Utility Model Concordance, IPC Search, FI/F-term Search(Japanese), [FI/F-term Search\(English\)](#), Search Page of Unexamined Patent Gazette, [Searching PAJ](#), Searching Patent Gazette, Patent Map Guidance(Japanese), [Patent Map Guidance\(English\)](#)

8. Click “FI/F-term Search” on the IPDL top page.

FI/F-term Search

MENU NEWS HELP

Data Type  
This choice can be omitted. (When you have no check, all Data Types are chosen.)  
 Patent  Utility Model  Patent Specification (An old gazette)

Theme --- e.g. 2C001  
Enter a F-term Theme in the box below.  
[ ]

Publication Year  
You can specify a range of Publication Year to narrow your search.  
This choice can be omitted.  
From: 1993 - To: 1993

FI/F-term --- e.g. AA01+[A63F9/22]  
Enter the query into the box below, up to 500 letters (essential requirement for searching)  
Boolean operators: “+” means ‘OR’, “\*” means ‘AND’, “-” means ‘NOT’.  
B27H1/00

Display Type  
All Pages

Priority of search result display  
Check the kind of document.  
 unexamined applications  examined applications

Search

9. You can input publication year as an additional condition, to limit search range.

10. Input FI “B27H1/00” to search patent document corresponding to bending wood technology.  
FI/F-term is the essential requirement for searching.

FI/F-term Search

MENU NEWS HELP

Data Type  
This choice can be omitted. (When you have no check, all Data Types are chosen.)  
 Patent  Utility Model  Patent Specification (An old gazette)  Utility Model Specification (An old gazette)

Theme --- e.g. 2C001  
Enter a F-term Theme in the box below.  
[ ]

Publication Year  
You can specify a range of Publication Year to narrow your search.  
This choice can be omitted.  
From: 1993 - To: 1993

FI/F-term --- e.g. AA01+[A63F9/22]  
Enter the query into the box below, up to 500 letters (essential requirement for searching)  
Boolean operators: “+” means ‘OR’, “\*” means ‘AND’, “-” means ‘NOT’.  
B27H1/00

Display Type  
All Pages

Priority of search result display  
Check the kind of document, which you want to indicate the Search  
 unexamined applications  examined applications  
Hit list can be displayed when the search results are within 500.

Search Results 8

Search List

11. 8 documents are found by the search condition.

12. Click “List” to see the hit list.

DOCUMENT 0/8  
DOCUMENT NUMBER  
Publicly known date order

1. [JP.05-148850.A\(1993\)](#)
2. [JP.05-138611.A\(1993\)](#)
3. [JP.05-131402.A\(1993\)](#)
4. [JP.05-096515.A\(1993\)](#)
5. [JP.05-031706.A\(1993\)](#)
6. [JP.05-024005.A\(1993\)](#)
7. [JP.05-018073.A\(1993\)](#)
8. [JP.05-008202.A\(1993\)](#)

Click the document number in the left window, which you want to display.

13. Hit list is displayed. Click "JP05-008202A(1993)" to see the PAJ document corresponding to the publication number.

14. Click "DETAIL" to see English information of the original gazette of the PAJ via automated full text translation function.

DOCUMENT 8/8  
DOCUMENT NUMBER  
Publicly known date order

**DETAIL** **JAPANESE**

PATENT ABSTRACTS OF JAPAN

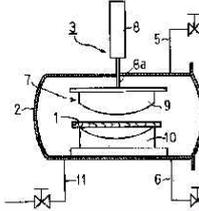
(1)Publication number : 05-013202  
(4)Date of publication of application : 19.01.1993

(5)Int.Cl. B27H 1/00  
B27D 1/08

(2)Application number : 03-160742 (7)Applicant : HISAKA WORKS  
(2)Date of filing : 02.07.1991 (7)Inventor : TANAHASHI MOTOYUKI  
OTA SHINGI

(54) PROCESSING METHOD AND PROCESSING DEVICE OF BENT WOOD

(57)Abstract:  
PURPOSE: To obtain bent wood which can maintain permanently a form and contrive drastic shortening of a processing time and making into a single process, by a method wherein after wood is heated and softened under an atmosphere of high-temperature and high-pressure steam, bending processing of the same is performed by a press and the same is made into fixation under a state kept as it is.  
CONSTITUTION: Wood 1, which is going to process, is put on a bottom force 10 of a press mold 7 arranged within a high-temperature and high-pressure vessel 2 and closed up tightly. Then after high-temperature and high-pressure steam is fed through an arranged pipe 5 and the wood 1 is softened, a top force 9 is lowered by a press cylinder 8 and the wood 1 is bending-molded into a fixed shape. In addition, at this time, the wood 1 may be compressed so that a sectional area of the wood 1 becomes about 1/2-1/3 times of the same. Then the same is kept for a fixed time as it is under this pressed state and a deformation is fixed. The deformation of the obtained bent wood is not restored by absorption of water or moisture and a processing time can be shortened drastically as compared with high-frequency processing.



BACK NEXT  
MENU SEARCH  
HELP

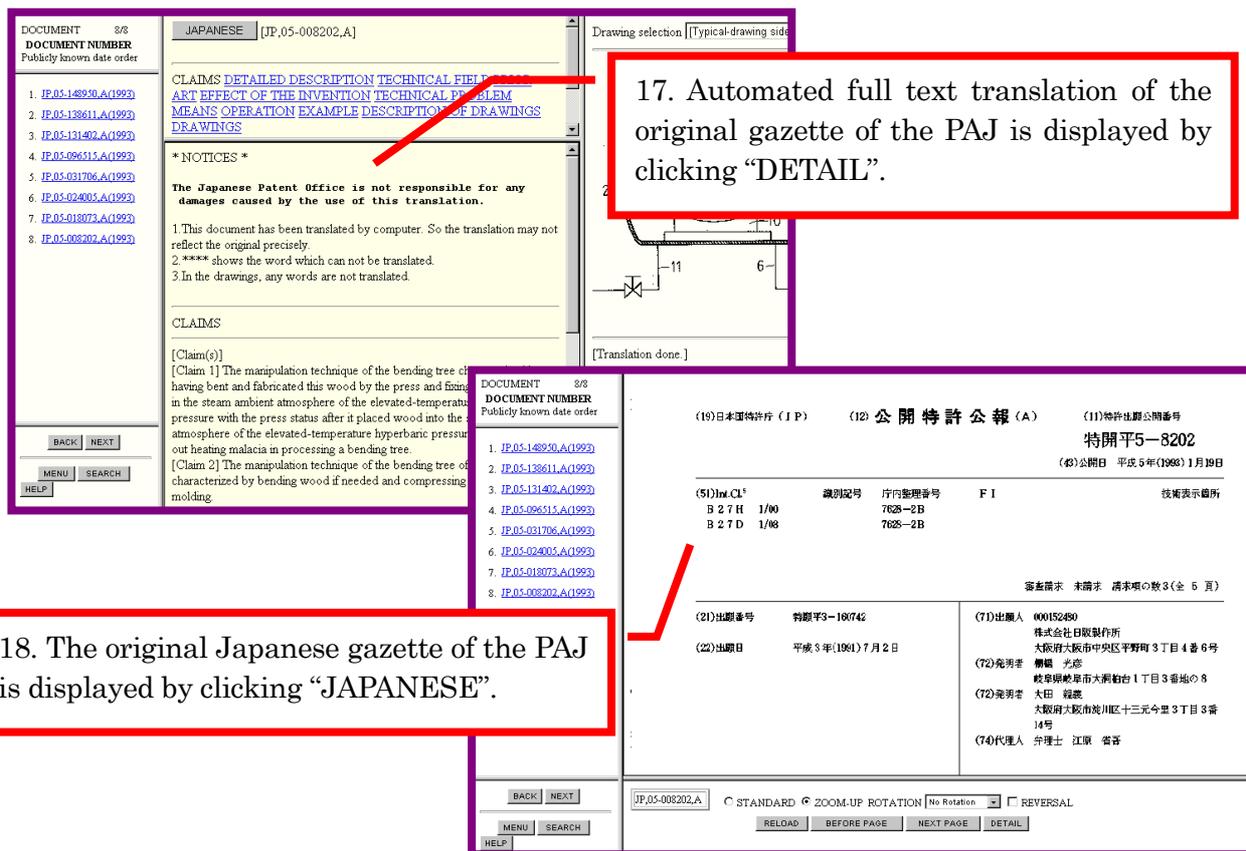
15. Click "Japanese" to see the original Japanese gazette of the PAJ.

LEGAL STATUS

[Date of request for examination]	05.06.1998
[Date of sending the examiner's decision of rejection]	
[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]	
[Date of final disposal for application]	
[Patent number]	3059982
[Date of registration]	28.04.2000
[Number of appeal against examiner's decision of rejection]	
[Date of requesting appeal against examiner's decision of rejection]	
[Date of extinction of right]	

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16. Legal status is indicated at the bottom of each PAJ.



### 3 Correction of incorrect years of the claim of priority in the PAJ

As we reported in PAJ News No. 18, there were some incorrect data in the years of the claim of priority, in the PAJ published in 2000.

The incorrect data have been corrected now.

#### PAJ CD-ROMs containing incorrect data (7 CD-ROMs)

2000-4[64]	MIJP0001PAJ [12-000001/12-032800]
2000-5[65]	MIJP0002PAJ [12-032801/12-064900]
2000-6[66]	MIJP0003PAJ [12-064901/12-092900]
2000-7[67]	MIJP0004PAJ [12-092901/12-125600]
2000-8[68]	MIJP0005PAJ [12-125601/12-152700]
2000-9[69]	MIJP0006PAJ [12-152701/12-184800]
2000-10[70]	MIJP0007PAJ [12-184801/12-209900]

Revised versions of these 7 CD-ROMs have already been issued and sent to patent authorities in Japan and abroad. PAJ/CD-ROM users are kindly requested to replace these 7 CD-ROMs with the revised versions corresponding to the same volume numbers. To avoid confusion, please reject the old CD-ROMs containing the incorrect data.

Corrected data have already been stored in the Searching PAJ in the IPDL.



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