

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2009/070974

## A. CLASSIFICATION OF SUBJECT MATTER

B32B15/08(2006.01)i, B05D5/06(2006.01)i, B05D7/14(2006.01)i, B32B15/09(2006.01)i

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

B32B15/08, B05D5/06, B05D7/14, B32B15/09

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922-1996	Jitsuyo Shinan Toroku Koho	1996-2010
Kokai Jitsuyo Shinan Koho	1971-2010	Toroku Jitsuyo Shinan Koho	1994-2010

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2004-17454 A (The Furukawa Electric Co., Ltd.), 22 January 2004 (22.01.2004), claims; paragraphs [0009], [0012], [0026], [0043]; fig. 1 (Family: none)	1-15
Y	JP 7-166125 A (Kobe Steel, Ltd.), 27 June 1995 (27.06.1995), claims (Family: none)	1-15
Y A	JP 10-44305 A (Kobe Steel, Ltd.), 17 February 1998 (17.02.1998), claims; paragraphs [0009], [0013], [0014]; examples (Family: none)	1-9, 13-15 10-12

 Further documents are listed in the continuation of Box C. See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"I" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;" document member of the same patent family

Date of the actual completion of the international search  
22 February, 2010 (22.02.10)Date of mailing of the international search report  
02 March, 2010 (02.03.10)Name and mailing address of the ISA/  
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2006-305841 A (Kobe Steel, Ltd.), 09 November 2006 (09.11.2006), claims; paragraphs [0046], [0049]; fig. 1, 3 (Family: none)	1-15
Y A	JP 2007-290358 A (Kobe Steel, Ltd.), 08 November 2007 (08.11.2007), paragraphs [0025], [0059] & WO 2007/116670 A1	4, 5 1-3, 6-15
Y A	JP 10-204656 A (Kobe Steel, Ltd.), 04 August 1998 (04.08.1998), paragraphs [0016], [0028] (Family: none)	6, 15 1-5, 7-14
Y A	JP 2006-35842 A (Kobe Steel, Ltd.), 09 February 2006 (09.02.2006), claims; paragraph [0067]; examples, tables 1 to 3, symbol 4 & US 2005/0181216 A1 & EP 1571188 A2	10-15 1-9
Y A	JP 2004-330703 A (Kobe Steel, Ltd.), 25 November 2004 (25.11.2004), claims; paragraphs [0036], [0037], [0053]; examples 1 to 7, 14 to 19 & US 2004/0224170 A1 & EP 1475226 A1	10-15 1-9
Y A	JP 2002-97408 A (Sumitomo Metal Industries, Ltd., Sumitomo Metal Steel Products Inc.), 02 April 2002 (02.04.2002), paragraphs [0011], [0029] (Family: none)	10-15 1-9

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**Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)**

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
  
2.  Claims Nos.:  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
  
3.  Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

**Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)**

This International Searching Authority found multiple inventions in this international application, as follows:

The specific technical feature of the invention as claimed in Claim 1 is defined by "said precoated film includes molecular cross-linked base resin and particles, wherein said precoated film includes 50% or more of gel fraction and has a surface roughness of 0.25  $\mu\text{m}$  or more in the arithmetic average (Ra) " while the specific technical feature of the invention as claimed in Claim 10 is defined by "said precoated film includes thermosetting resin comprising epoxy resin and non-yellowing type isocyanate hardner cross-linked between each other, and has 70-92 % of gel fraction."

These inventions do not have one or more of identical specific technical features and therefore fail to form a single general inventive concept.

1.  As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2.  As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of additional fees.
3.  As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
  
4.  No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

**Remark on Protest**

- The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- No protest accompanied the payment of additional search fees.