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Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))
- of inventorship (Rule 4.17(iv))

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- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

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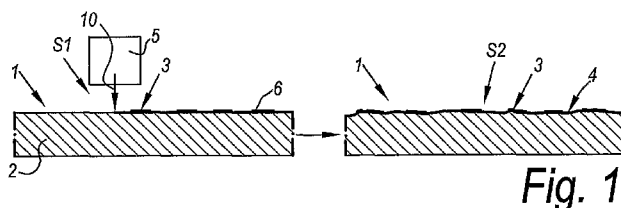
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(54) Title: METHODS FOR MANUFACTURING PRINTED AND STRUCTURIZED PANELS AND PANEL



(57) Abstract: Method for manufacturing panels of the type comprising at least a substrate (2) and a printed decor (3) with a relief (4) provided on this substrate (2) or also on an additional synthetic layer, the method consisting at least of printing, whether or not by the intermediary of primer layers (7), at least a portion of the decor (3) onto the substrate (2) and forming said relief (4), characterized in that said relief (4) is formed at least partially after said portion of the decor (3) already has been printed on the substrate (2).

INTERNATIONAL SEARCH REPORT

International application No
PCT/IB2008/001844

A. CLASSIFICATION OF SUBJECT MATTER
INV. B44C5/04 B44C1/24 B41M7/00

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)
B44C B41M

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

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 44 21 559 A (OSMETRIC ENTWICKLUNGS- UND PRODUKTIONS-GMBH & CO ET AL.) 21 December 1995 (1995-12-21)	1, 4, 5, 9, 11, 20
Y	see abstract column 3, line 64 - column 7, line 54; claims 2-18; figure 1	2, 3, 6-8, 10
Y	WO 01/48333 A (PERSTORP FLOORING AB) 5 July 2001 (2001-07-05) cited in the application the whole document	2, 10
Y	US 3 173 804 A (U. STANDFUSS) 16 March 1965 (1965-03-16) cited in the application the whole document	3
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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 document but published on or after the international filing date
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- "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

- "T" 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.
- "&" document member of the same patent family

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Name and mailing address of the ISA/

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International application 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	DE 27 21 292 A (TEMPELAARS, HENRIK J.M.) 16 November 1978 (1978-11-16) page 1; figures 1,2 page 12	6
Y	GB 1 510 810 A (EXXON RESEARCH AND ENGINEERING COMPANY) 17 May 1978 (1978-05-17) page 1, line 12 - page 3, line 47; figures 1,2	7,8
A	GB 1 108 549 A (DR. KURT HERBERTS & CO.) 3 April 1968 (1968-04-03) the whole document	1-11,20
A	EP 0 031 316 A (ISOVOLTA) 1 July 1981 (1981-07-01) the whole document	1-11,20
A	EP 1 419 902 A (KRONOTEC AG) 19 May 2004 (2004-05-19) the whole document	1-11,20
A	US 2006/144004 A1 (OKE NOLLET ET AL.) 6 July 2006 (2006-07-06) cited in the application the whole document	1-11,20

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IB2008/001844

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:

see additional sheet

1. As all required additional search fees were timely paid by the applicant, this international search report covers allsearchable claims.

2. As all searchable claims could be searched without effort justifying an 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.:

see additional sheet(s)

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.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-11,20

Delayed forming a relief on panels

2. claims: 12-19,21,22

Two successive structurizing steps on laminated panels

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/IB2008/001844

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
DE 4421559	A	21-12-1995	NONE
WO 0148333	A	05-07-2001	AT 261819 T 15-04-2004 AT 263031 T 15-04-2004 AT 281576 T 15-11-2004 AU 2239001 A 09-07-2001 AU 2239101 A 09-07-2001 AU 2239201 A 09-07-2001 AU 2414301 A 09-07-2001 AU 2414401 A 09-07-2001 AU 2414501 A 09-07-2001 CN 1425098 A 18-06-2003 DE 60009141 D1 22-04-2004 DE 60009141 T2 14-10-2004 DE 60009556 D1 06-05-2004 DE 60009556 T2 03-02-2005 DE 60015603 D1 09-12-2004 DE 60015603 T2 02-02-2006 EP 1240025 A1 18-09-2002 EP 1240026 A1 18-09-2002 EP 1242702 A1 25-09-2002 ES 2215775 T3 16-10-2004 ES 2217017 T3 01-11-2004 PT 1242702 E 31-01-2005 WO 0147724 A1 05-07-2001 WO 0147725 A1 05-07-2001 WO 0147726 A1 05-07-2001 WO 0147717 A1 05-07-2001 WO 0147718 A1 05-07-2001 SE 516696 C2 12-02-2002 SE 9904781 A 24-06-2001 US 2005281993 A1 22-12-2005 US 2006136083 A1 22-06-2006 US 7003364 B1 21-02-2006 US 6888147 B1 03-05-2005 US 6565919 B1 20-05-2003 US 6685993 B1 03-02-2004 US 6465046 B1 15-10-2002 US 6991830 B1 31-01-2006
US 3173804	A	16-03-1965	GB 930356 A 03-07-1963
DE 2721292	A	16-11-1978	NONE
GB 1510810	A	17-05-1978	CA 1125645 A1 15-06-1982 DE 2553906 A1 12-08-1976 DE 7538218 U 16-04-1981 FR 2293312 A1 02-07-1976 IT 1051013 B 21-04-1981 JP 1081846 C 29-01-1982 JP 51091303 A 10-08-1976 JP 56022701 B 27-05-1981 US 4092199 A 30-05-1978 US 4154882 A 15-05-1979
GB 1108549	A	03-04-1968	NONE
EP 0031316	A	01-07-1981	AT 365211 B 28-12-1981

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0031316	A	DE 3065331 D1	17-11-1983
EP 1419902	A	DE 10252865 A1	27-05-2004
		US 2007071949 A1	29-03-2007
		US 2004250911 A1	16-12-2004
US 2006144004	A1	06-07-2006	NONE