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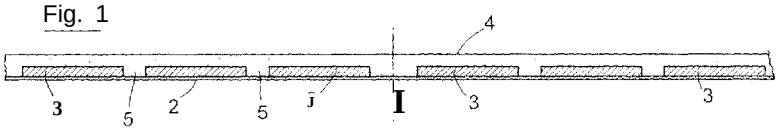
— *with international search report (Art. 21(3))*

— *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))*

(88) Date of publication of the international search report:
4 October 2012

(54) Title: A PREFABRICATED COMPOSITE INSULATION BOARD

Fig. 1



(57) Abstract: A prefabricated composite insulation board (1) comprises a facing (2) of a flexible sheet material and a plurality of vacuum insulation panels (VIP) (3) adhesive! } bonded thereto. A body of insulating foam (4) overlies the vacuum insulating panels (3) and the carrier (2). There are gaps (5) between adjacent vacuum insulation panels (3) and these gaps are filled with the loam (4). Alternatively, groups of VIP's (3) may be positioned close to one another and gaps (6) left at defined locations. These gaps (6) may be used to provide regions at which the panel may be cut to a desired length without cutting through and VIP's (3). External mark - ings such as cut-lines **(7)** may be provided to indicated the location of these gaps (6). To manufacture a composite insulation board (1) of the invention on a continuous production line a facing sheet (2) with a pre-applied adhesive (6) is provided on a supply reel (10). The adhesive may be heat activated.

WO 2012/001672 A3

INTERNATIONAL SEARCH REPORT

International application No
PCT/IE2011/0OQ033

A. CLASSIFICATION OF SUBJECT MATTER
INV. E04B1/80
ADD.

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)
E04B

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 practicable, 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	JP 2000 248653 A (MATSUSHITA REFRIGERATION) 12 September 2000 (2000-09-12) paragraph [Q030] - paragraph [0Q54] ; figures 1-3	1-22, 24-33
A	WO 2004/051134 A2 (MATSUSHITA REFRIGERATION [JP]; TENRA T0M0HISA [JP]; FUJIM0T0 TAKAO [JP]) 17 June 2004 (2004-06-17) abstract; figure 1	11
A	JP 2005 282840 A (ACHILLES CORP) 13 October 2005 (2005-10-13) paragraph [0051] - paragraph [0071]; figures 3-5	24-33

☐ 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) orwhich 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

"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

Date of the actual completion of the international search	Date of mailing of the international search report
27 July 2012	02/08/2012

Name and mailing address of the ISA/	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Dieterle, Sibille

3

INTERNATIONAL SEARCH REPORT

International application No.
PCT/IE2011/00Q033

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.: 23, 34, 35
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:

see FURTHER INFORMATION sheet PCT/ISA/210

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:

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 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.:

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

Continuation of Box 11.2

Claims Nos.: 23, 34, 35

no meaningful search possible

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.2), should the problems which led to the Article 17(2) declaration be overcome.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
PCT/ I E201 1/0OQ033

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