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(54) **SYSTEM FOR INTERNAL INSULATION OF BUILDINGS, IN PARTICULAR OF SLANTED ROOFS AND MOUNTING METHOD FOR THE INTERNAL INSULATION**

(57) In a system for internal insulation of buildings, in particular of slanted roofs with a wooden basic construction including rafters and/or beams and slats or profile strips arranged thereon at a distance attachment devices are used which are configured in two components, namely a base element and an attachment element adjustable relative thereto, wherein the relative positioning of attachment element and base element is fixable.

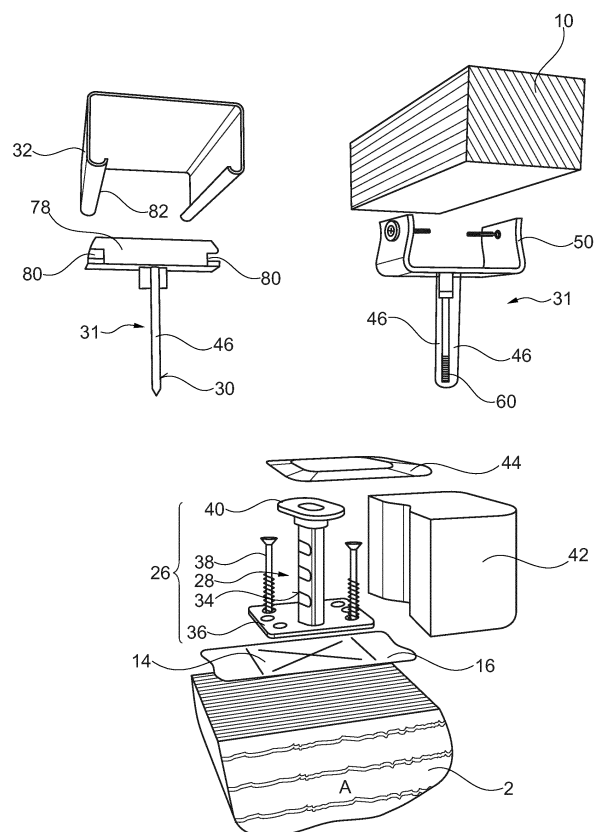


Fig. 5



EUROPEAN SEARCH REPORT

Application Number
EP 16 16 6581

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	EP 0 924 365 A1 (RAPID SA [FR]) 23 June 1999 (1999-06-23)	1-3,13, 14,20, 21,23-25 4	INV. E04B9/20 E04D13/16
Y	* figures 3-4 *		
X	FR 2 858 824 A1 (ETANCO L R [FR]) 18 February 2005 (2005-02-18)	1,3,13, 14,20, 23,24	ADD. E04F13/08 E04G21/18 E04B9/18
	* pages 1,2,6-9; figures 1-4 *		
X	GB 2 194 261 A (COLES FREDERICK CHARLES) 2 March 1988 (1988-03-02)	1,3,24	
	* figures 1,2B *		
Y	DE 43 39 979 A1 (TRIVISANI JOHANNES [DE]) 1 June 1995 (1995-06-01)	2,25	
	* abstract; figure 1 *		
Y	DE 199 63 028 A1 (ROCKWOOL MINERALWOLLE [DE]) 5 July 2001 (2001-07-05)	2,25	
	* figure 2 *		
Y	BE 562 356 A (GREGOROVIC, D. [BE]) 3 June 1960 (1960-06-03)	4	
	* figure 13 *		
A	GB 1 144 450 A (OWENS CORNING FIBERGLASS CORP) 5 March 1969 (1969-03-05)	16	
	* figures 9-13 *		
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
The Hague		15 December 2016	Leroux, Corentine
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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Application Number

EP 16 16 6581

CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing claims for which payment was due.

☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due and for those claims for which claims fees have been paid, namely claim(s):

☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.

☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.

☒ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:

1-6, 8-14, 16-25

☐ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

☐ The present supplementary European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims (Rule 164 (1) EPC).



LACK OF UNITY OF INVENTION
SHEET B

Application Number

EP 16 16 6581

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-3, 13, 14, 20, 21, 23-25

positioning the base elements at the rafters

2. claims: 4-6, 8-12, 16-19, 22

alternative fixation of the attachment element to the base element

3. claim: 7

additional support for insulation

4. claim: 15

lateral blocking of the slat element

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 16 16 6581

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0924365 A1	23-06-1999	EP 0924365 A1	23-06-1999
		FR 2772405 A1	18-06-1999
FR 2858824 A1	18-02-2005	NONE	
GB 2194261 A	02-03-1988	NONE	
DE 4339979 A1	01-06-1995	NONE	
DE 19963028 A1	05-07-2001	AT 294944 T	15-05-2005
		DE 19963028 A1	05-07-2001
		EP 1111289 A2	27-06-2001
BE 562356 A	03-06-1960	BE 562356 A	15-12-2016
		GB 874735 A	10-08-1961
GB 1144450 A	05-03-1969	BE 676985 A	24-08-1966
		DE 1609442 A1	26-03-1970
		GB 1144450 A	05-03-1969
		NL 6602543 A	29-08-1966
		US 3513613 A	26-05-1970