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(54) Building element for a timber wall and a ceiling constructions and a producing method thereof

(57) A building element for timber wall and ceiling structures and the producing method thereof solve a problem of an easily producible building element that is based on a cross laminated massive timber plate (18) assembled from a layer of outer lamellas (2) and (4) and of an optional number of inner lamellas (3, 4, 5) with vertical ribs (1) or (1, 1') placed at certain spacing between the outer lamellas (2) in an optional sequence. In the compartments between the ribs (1) or (1, 1') insulation infill (19) can be placed and the whole setup can be closed with a cover plate (20). For the pre-stressed structures

of building elements, the vertical ribs (1) and/or (1') are curved in the tangential direction of the longitudinal axis by an optional distance of (X).

The last layer of the outer lamellas (2) with the intermediate vertical ribs (1) and (1') is glued and laid to the former layer of inner lamellas (3) preferentially simultaneously and fully and within the given sequence also as pressed in the press together with the other layers of lamellas (3, 4, 5) of the cross laminated massive plate (18).

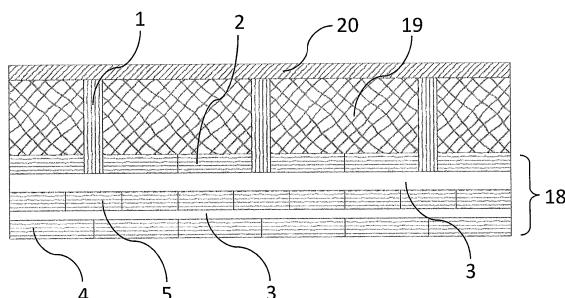


Fig. 1



PARTIAL EUROPEAN SEARCH REPORT

under Rule 62a and/or 63 of the European Patent Convention. This report shall be considered, for the purposes of subsequent proceedings, as the European search report

Application Number

EP 13 19 0754

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	<p>WO 02/31283 A1 (MARTINSONS TRAE AB [SE]) 18 April 2002 (2002-04-18) * page 7, line 3 - page 8, line 15; figures 2,9 *</p> <p>-----</p>	1	<p>INV. E04C2/296 E04C2/34 E04C2/38 E04B5/12</p> <p>TECHNICAL FIELDS SEARCHED (IPC)</p> <p>E04C E04B</p>
INCOMPLETE SEARCH			
<p>The Search Division considers that the present application, or one or more of its claims, does/do not comply with the EPC so that only a partial search (R.62a, 63) has been carried out.</p> <p>Claims searched completely :</p> <p>Claims searched incompletely :</p> <p>Claims not searched :</p> <p>Reason for the limitation of the search:</p> <p>see sheet C</p>			
Place of search	Date of completion of the search	Examiner	
Munich	19 November 2014	Valenta, Ivar	
CATEGORY OF CITED DOCUMENTS		<p>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</p> <p>& : member of the same patent family, corresponding document</p>	
<p>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</p>			

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**INCOMPLETE SEARCH
SHEET C**

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Claim(s) completely searchable:
8-13

15

Claim(s) searched incompletely:
1

20

Claim(s) not searched:
2-7

25

Reason for the limitation of the search:

1 Clarity

Claim 1

1.1 Claim 1 lacks clarity, since due to the expression "... into the last layer of the massive plate ..." (l. 3-4), it is not clear which layer is meant, since it is only known that the plate is massive.

1.2 Due to the expression "... the last layer of the massive plate with a certain spacing ..." (l. 3-4) claim 1 lacks clarity, since it is not clear whether is meant:

- a certain spacing between said layers of the massive plate, or
- a certain spacing between the ribs.

1.1 The expression "... optional number of layers (2 , 3, 4, 5, n)..." (l. 6) contradicts p. 6, l. 9 of the description "... at least 3 ore more layers ...".

1.2 The term "... vertical ribs ..." is misleading, since in l. 3 in the same claim uses for the same technical feature "ribs" without the adjective vertical. Are these the same ribs, or further, different ribs.

1.3 The expression "... their narrow side ..." in claim 1(l. 11) lacks an antecedent, since it has not been defined previously in the claims.

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

EP 13 19 0754

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 www.europeanpatentoffice.org. The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

19-11-2014

Patent document cited in search report	Publication date		Patent family member(s)	Publication date
W0 0231283	A1	18-04-2002	AT 354004 T DE 60126633 T2 DK 1325200 T3 EP 1325200 A1 NO 323896 B1 WO 0231283 A1	15-03-2007 22-11-2007 11-06-2007 09-07-2003 16-07-2007 18-04-2002