

(19)



(11)

EP 2 803 780 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
25.02.2015 Bulletin 2015/09

(51) Int Cl.:
E04C 2/24 (2006.01) **E04C 2/296** (2006.01)
E04C 2/38 (2006.01) **E04C 2/20** (2006.01)

(43) Date of publication A2:
19.11.2014 Bulletin 2014/47

(21) Application number: **14168376.3**

(22) Date of filing: **14.05.2014**

(84) Designated Contracting States:
**AL AT BE BG CH CY CZ DE DK EE ES FI FR GB
GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO
PL PT RO RS SE SI SK SM TR**
Designated Extension States:
BA ME

(72) Inventor: **Coyle, Sean**
Cookstown, Tyrone BT80 9DG (GB)

(74) Representative: **Hanna, John Philip et al**
Hanna IP
4th Floor
58 Howard Street
Belfast BT1 6PJ (GB)

(30) Priority: **14.05.2013 GB 201308646**

(71) Applicant: **Keystone Lintels Limited**
County Tyrone (GB)

(54) **A reinforced building panel**

(57) A laminated panel having an insulating core sandwiched between a pair of outside rigid boards, the panel having reinforcing members being adapted to reduce mechanical deformation of a perimeter of the lam-

inated panel. The panel has integrally formed reinforcing members. The reinforcing members are contained substantially within the boundary defined by the outer peripheral surface of the panel.

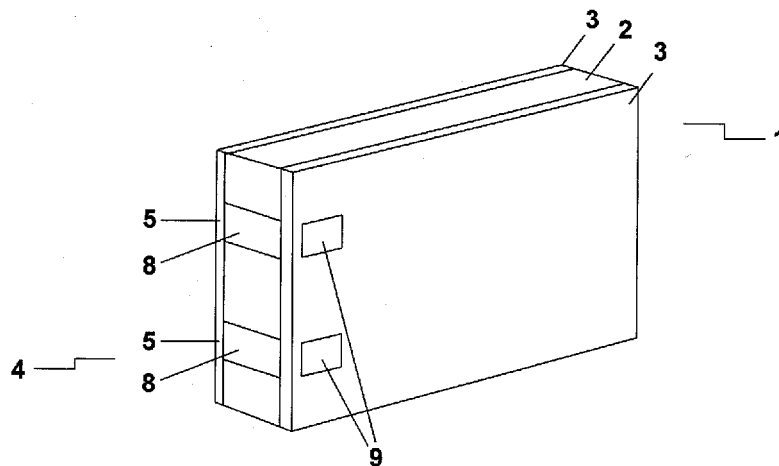


Figure 1

EP 2 803 780 A3



EUROPEAN SEARCH REPORT

 Application Number
EP 14 16 8376

5

10

15

20

25

30

35

40

45

50

55

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	GB 2 108 546 A (LAMCATEC U K LIMITED) 18 May 1983 (1983-05-18) * figures 3, 5 * * page 1, lines 71-89 * * page 2, lines 15-28 *	1-8,10, 15	INV. E04C2/24 E04C2/296 E04C2/38 E04C2/20
X	WO 2011/045778 A1 (KINGSPAN HOLDINGS IRL LTD [IE]; CURTIN DONAL [US]; SIMKO PETER [CA]; M) 21 April 2011 (2011-04-21) * page 4, lines 9-33 * * page 6, lines 5-22; figures 1, 7 *	1-8, 10-12	
X	GB 2 399 539 A (INTELLIGENT ENGINEERING [BS]) 22 September 2004 (2004-09-22) * page 4, line 5 - page 5, line 27; figure 1 *	1-8,10, 13,14	
X	GB 2 456 659 A (SMYTH MATTHEW [GB]) 29 July 2009 (2009-07-29) * pages 2-3; figure 1 *	1-9	
X	GB 888 899 A (SHEARWATER LTD) 7 February 1962 (1962-02-07) * page 1, lines 18-75; figure 1 *	1-8,10	TECHNICAL FIELDS SEARCHED (IPC) E04C
A	EP 2 530 212 A1 (KEYSTONE LINTELS LTD [GB]) 5 December 2012 (2012-12-05) * column 4, lines 32-35; figure 1 *	15	
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 16 January 2015	Examiner Vratsanou, Violandi
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			

EPO FORM 1503 03.02 (P04C01)

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

EP 14 16 8376

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

16-01-2015

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
GB 2108546 A	18-05-1983	NONE	
WO 2011045778 A1	21-04-2011	CA 2777635 A1 US 2012231231 A1 WO 2011045778 A1	21-04-2011 13-09-2012 21-04-2011
GB 2399539 A	22-09-2004	AT 375223 T CN 1761550 A DE 602004009415 T2 DK 1603703 T3 EP 1603703 A1 ES 2294472 T3 GB 2399539 A JP 2006521210 A KR 20050111777 A PT 1603703 E US 2006165480 A1 WO 2004082886 A1	15-10-2007 19-04-2006 24-07-2008 11-02-2008 14-12-2005 01-04-2008 22-09-2004 21-09-2006 28-11-2005 18-12-2007 27-07-2006 30-09-2004
GB 2456659 A	29-07-2009	NONE	
GB 888899 A	07-02-1962	NONE	
EP 2530212 A1	05-12-2012	NONE	