



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
18.11.2015 Bulletin 2015/47

(51) Int Cl.:
E04D 13/035 (2006.01) E04D 3/14 (2006.01)

(43) Date of publication A2:
08.10.2008 Bulletin 2008/41

(21) Application number: **08153544.5**

(22) Date of filing: **28.03.2008**

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

(71) Applicant: **VKR Holding A/S**
2970 Hørsholm (DK)

(72) Inventor: **Picco, Vincenzo**
DK-3000, Helsingør (DK)

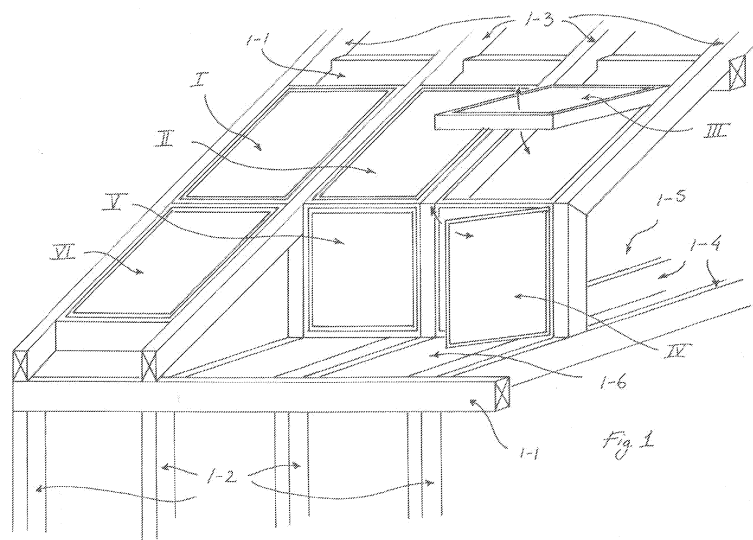
(74) Representative: **Rohde, Vibeke Warberg et al**
Awapatent A/S
Rigensgade 11
1316 Copenhagen K (DK)

(30) Priority: **30.03.2007 DK 200700497**

(54) **Structural beam system**

(57) The invention relates to a load-bearing structure for a building comprising a first set (1-1) of beams arranged substantially horizontally and a second set (1-2) of beams arranged at right angles in relation to the first set (1-1) of beams, said first (1-1) and second (1-2) sets of beams forming a frame, which confines a number of rectangular sections. Each frame section can be occupied by a panel, such as an infill, a window (I,II,III,IV,V,VI), a door or a solar energy collector. The beams of at least one set is provided with one or more feathers (3-1), (3-3), which in the mounted state, projects at substantially right angles to the frame plane, runs along substantially

the entire length of the beam in parallel with the length axis thereof along the side of the beam so that no part of the feather projects above the upper level of the frame, and defines a groove (3-2),(3-4) running in parallel with the length axis of beam, the groove (3-2),(3-4) being located between the main portion of the beam and the feather (3-1),(3-3). Feathers (3-1),(3-3) and grooves (3-2),(3-4) may be provided on both sides of the beams. Windows (I,II,III,IV,V,VI) or other types of panels are mounted on the load-bearing structure by fitting grooves in the window frame or mounting brackets (3-6) secure thereto over the beam feathers (3-1),(3-3).





EUROPEAN SEARCH REPORT

Application Number
EP 08 15 3544

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 113 352 A (HOPE HENRY DONALD) 21 February 1918 (1918-02-21) * figures 1, 3 *	1-9	INV. E04D13/035 E04D3/14
X	GB 2 241 975 A (HILL LEIGH [GB]) 18 September 1991 (1991-09-18) * figures 4-6 *	1-9	
Y	EP 0 674 058 A1 (MEKO FENSTER AG [CH]) 27 September 1995 (1995-09-27) * figure 3 *	1-9	
Y	GB 111 218 A (HULME WILLIAM ARNOLD) 22 November 1917 (1917-11-22) * figure 1 *	1-9	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (IPC)
			E04D
Place of search		Date of completion of the search	Examiner
The Hague		13 October 2015	Demeester, Jan
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 03.82 (P04C01)

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

EP 08 15 3544

5

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.

13-10-2015

10

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
GB 113352	A	21-02-1918	NONE	

GB 2241975	A	18-09-1991	NONE	

EP 0674058	A1	27-09-1995	AT 180030 T	15-05-1999
			DE 59505878 D1	17-06-1999
			EP 0674058 A1	27-09-1995
			JP H0842257 A	13-02-1996

GB 111218	A	22-11-1917	NONE	

15

20

25

30

35

40

45

50

55

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82