



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
20.06.2001 Bulletin 2001/25

(51) Int Cl.7: **E04B 1/58, F16B 37/04**

(43) Date of publication A2:
30.08.2000 Bulletin 2000/35

(21) Application number: **00650012.8**

(22) Date of filing: **24.02.2000**

(84) Designated Contracting States:
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE
 Designated Extension States:
AL LT LV MK RO SI

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(30) Priority: **26.02.1999 GB 9904317**

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(54) **An elongate structural member**

(57) An elongate structural member 1 for joining support beams 2 of a wall or roof cladding system comprises a rolled tube 3 with an axially extending seam 4. A single piece plastics entrapping member 10 is inserted into opposite end openings 6, 7 of the tube 3. A threaded insert in the form of a nut 11 is held captive in a member 10 at one end opening 6 and a threaded insert in the

form of a bolt 12 is held captive in another member 10 at the opposite end opening 7. Each entrapping member 10 comprises a head part 15 which is external of the tube 3 and a shank 16 which is inserted into the tube 3. A circumferentially extending groove 17 is formed between the head 15 and the shank 16 to receive a swaged part 19 of the tube 3, on assembly.

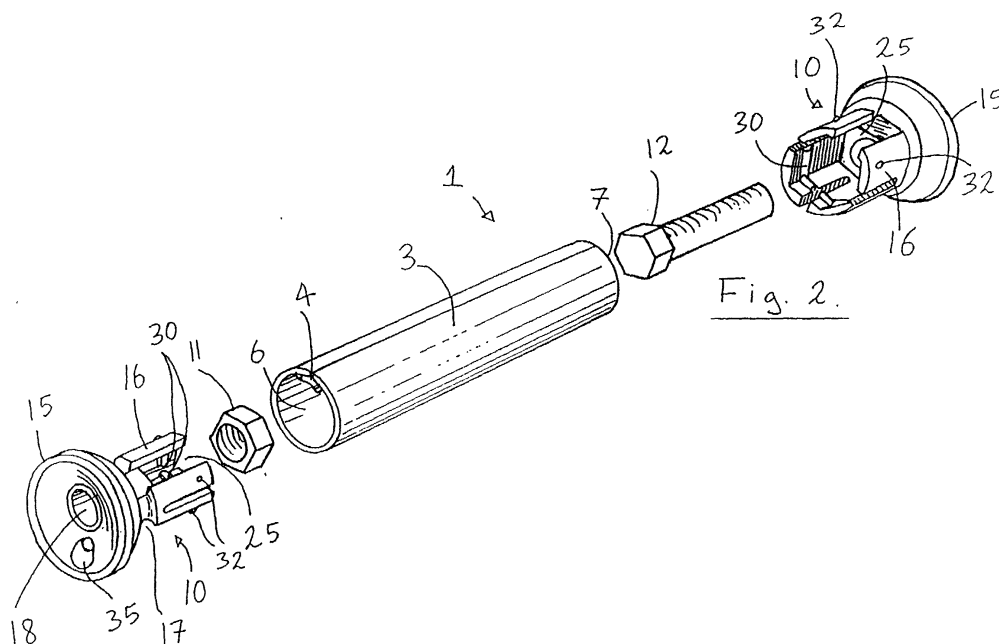


Fig. 2.



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 00 65 0012

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
D, Y	GB 2 169 678 A (WARD BROTHERS) 16 July 1986 (1986-07-16)	1, 3, 6	E04B1/58 F16B37/04
A	* the whole document * ---	2, 5, 8, 10	
Y	US 3 783 922 A (PETRUS S) 8 January 1974 (1974-01-08) * the whole document * -----	1, 3, 6	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			E04B F16B
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 26 April 2001	Examiner Vrugt, S
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 00 65 0012

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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26-04-2001

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
GB 2169678	A	16-07-1986	NONE	
US 3783922	A	08-01-1974	AU 5963673 A	27-02-1975
			FR 2198567 A	29-03-1974
			JP 49092458 A	03-09-1974