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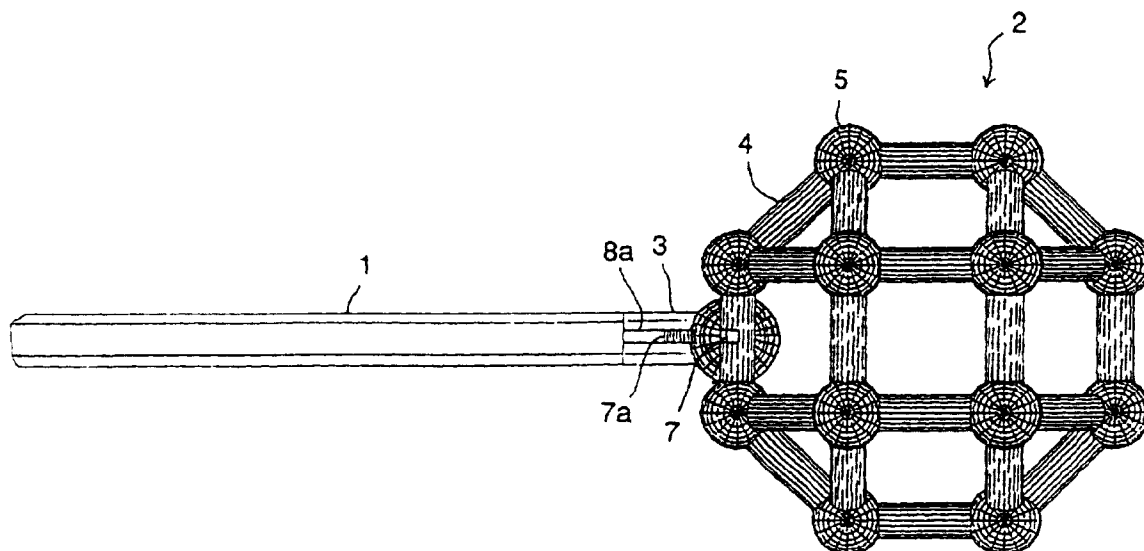
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(54) Node jointing system

(57) The present invention relates to a node jointing system comprising frame rods (1) and node elements (2) suitable for jointing said frame rods, whereby both ends of each frame rod (1) are provided with a hook-like clamp member (3) having a mouth of the clamp member arranged to open orthogonally sideways at the end of the frame rod (1), and said node element (2) being formed by a three-dimensional, hollow structure comprising shank rods (4) of equal length and circular cross section, which shank rods are connected to each other via corner pieces (5) of said node element and to which

shank rods (4) further the clamp members (3) of the frame rods can be lockably attached. The invention is characterized in that the node element (2) is formed into a 24-corner polyhedron in which the 48 equal-length edges are formed by said round shank rods (4) which are arranged into three pairs of octagonal parallel rings, each pair of rings being aligned to lay in a principal co-ordinate plane of its own and that said frame rod clamp member (3) has a locking pin (7) which is made spring-loadedly movable in the axial direction of the frame rod (1) so as to partially close the mouth opening (6) of the frame rod clamp member.

**Fig. 3****EP 0 794 295 A3**



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EUROPEAN SEARCH REPORT

Application Number
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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 (Int.Cl.6)
A,D	EP 0 307 628 A (WOLF ELMAR) 22 March 1989 * the whole document *	1,6,10	E04B1/19 E04B1/343
A	US 5 056 291 A (LEUNG WAN-KEUNG) 15 October 1991 * the whole document *	1,2,6,10	
A	BE 870 848 A (TRAVAUX HYDRAULIQUES ET ENTREPRISES GENERALES) 15 January 1979 * page 6 - page 9; figures *	1-7	
A	US 2 760 707 A (ANDERSON) 28 August 1956 * column 2, line 15 - line 40; figures 6,7 *	1-4,6	
A	DE 34 29 630 A (PERI WERK SCHWOERER KG ARTUR) 20 February 1986 * page 11, last paragraph - page 14; figures 1,2 *	1-3,6,7	
A	FR 1 196 693 A (UP-RIGHT, INC.) 25 November 1959 * page 1, left-hand column, last paragraph - right-hand column, paragraph 2; figure 1 *	1-4,6,8	TECHNICAL FIELDS SEARCHED (Int.Cl.6) E04B E04G
The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 20 August 1998	Examiner Paetzel, H-J
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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