

Title (en)

A structural node joint, especially for use in grid structures.

Title (de)

Eine Knotenverbindung für Bauelemente, insbesondere für die Anwendung bei Gitterkonstruktionen.

Title (fr)

Jonction avec noeud pour éléments de construction, notamment à utiliser pour charpentes à treillis.

Publication

EP 0386606 A1 19900912 (EN)

Application

EP 90103898 A 19900228

Priority

DK 112789 A 19890308

Abstract (en)

In a structural node joint of the kind comprising a) a hollow connecting member (1), in the wall (2) of which a number of through-going attachment holes (3,4) are formed, b) the adjacent ends of a number of rod-shaped or tubular elements (5,6), c) a number of attachment screws (7,8), the heads (9) abut against the inside of the wall (2), and the shafts (10) of which extend outwardly through the attachment holes (3,4) and are screwed into said ends of the elements (4,6), and d) an access opening (11) formed in the wall (2) of the connecting member (1), said access opening (11) being sufficiently large to allow the introduction of the screws (7,8) and possibly associated washers (19) through the opening into the internal cavity of the connecting member (1), said access opening being closable by means of a releasably secured closure member (12), the features consist in e) that the access opening (11) is not substantially larger than what is necessary to allow the heads (9) of the screws (7,8) and possibly associated washers (19) to be introduced through it, and f) that a thread (14) is formed in the access opening (11). n

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E04B 1/38; F16B 7/00

IPC 8 full level

E04B 1/19 (2006.01)

CPC (source: EP)

E04B 1/1906 (2013.01); **E04B 2001/1927** (2013.01); **E04B 2001/196** (2013.01)

Citation (search report)

- GB 2192965 A 19880127 - PING TAN EE
- DD 55868 A
- US 4353662 A 19821012 - DU CHATEAU STEPHANE
- PATENT ABSTRACTS OF JAPAN, vol. 11, no. 232 (C-437)[2679], 29th July 1987, page 70 C 437; & JP-A-62 045 336 (TOYO BIYUUT K.K.) 27-02-1987
- PATENT ABSTRACTS OF JAPAN, vol. 9, no. 74 (C-273)[1797], 3rd April 1985, page 161 C 273; & JP-A-59 210 013 (AJINOMOTO K.K.) 28-11-1984
- PATENT ABSTRACTS OF JAPAN, vol. 9, no. 108 (C-280)[1831], 11th May 1985, page 71 C 280; & JP-A-60 001 122 (MIDORI JUJI K.K.) 07-01-1985
- PATENT ABSTRACTS OF JAPAN, vol. 12, no. 70 (C-479)[2917], 4th March 1988, page 104 C 479; & JP-A-62 209 010 (KOBAYASHI KOOC K.K.) 14-09-1987

Cited by

WO2022008395A1; CN105672477A; DE19702459A1; DE9209660U1; EP0557234A1; GR1001159B

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