

Title (en)

Improved bar for plane lattice spatial structures without junction knots.

Title (de)

Stab für flache Strukturen aus räumlichen Fachwerken ohne Knotenpunkte.

Title (fr)

Barre pour structures planes en treillis spatiales sans noeuds de liaison.

Publication

EP 0225299 A2 19870610 (EN)

Application

EP 86830363 A 19861205

Priority

IT 2310885 A 19851205

Abstract (en)

Some embodiments are described of an improved bar or rod (1, 1 min) adapted to form planar three-dimensional single or multiple layered lattice structures, without the need for connecting knots. The coupling among the various rods is simply performed by fastening together the X-shaped, substantially radially oriented flanges (5) of said bars. The relative angle theta between couples of rod flanges (5), which defines the geometrical coupling planes, and therefore the contact surfaces between two bars converging with their axes into the center of a virtual node (0), has to satisfy a predetermined relationship among the direction cosines (a, b, c) of said axes, each of which is coincident with the axis of a sheaf of planes corresponding to said flanges whose angular orientation has to be determined. An improved fastening means (7, 11) is also described, particularly adapted to fasten converging bar flanges (5) to each other, in view of the narrow room available.

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E04B 1/19

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CPC (source: EP)

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Cited by

EP2631378A4; WO9625565A1; US11324322B2; US11771227B2; US9291185B2; US11324323B2; US11974676B2

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