

Title (en)

CONSTRUCTION MEMBERS AND HINGE JOINTS FOR A DEFORMABLE STRUCTURE, AND DEFORMABLE LINEAR, PLANE OR SPATIAL STRUCTURE

Publication

EP 0018658 A3 19810107 (DE)

Application

EP 80102409 A 19800503

Priority

- CH 444279 A 19790505
- CH 564879 A 19790618
- CH 606679 A 19790628

Abstract (en)

[origin: EP0018658A2] The structure comprises structural elements (BE, FE1b) connected to one another linearly, in a plane or also in three dimensions by joints (GS). For pivoting or bending, the joints can be set up about an axis arranged transversely to the central connecting line between adjacent structural elements and/or, for torsion, set up about this central connecting line, and, in particular, for a change in the relative position of adjacent structural elements in the sense of pivoting, bending or torsion, can also be set up about a multiplicity of different axes. Suitable joints for this purpose are ball-and-socket joints or bending and torsion joints which can move in all directions. In addition to a freely reversible movement or a movement retained with only small counter forces, of the structural elements connected to one another by the joints, a movement is also possible in which, after relative motion, the structural elements retain the position attained and can be subjected to a load up to a certain limit without departing from this position. For the desired change in position, this limit must then be exceeded by appropriate deformation forces. Plastically deformable joint elements (BE1b) are especially suitable for this purpose. The structures are suitable for decorative purposes, for instance room dividers, wall hangings and underpinnings for ceilings in interior architecture as well as for technical purposes, for instance as fences, two-dimensional and three-dimensional lattices for subsoil reinforcement, screen elements and the like. <IMAGE>

IPC 1-7

E04C 2/40; **F16S 1/02**; **F16S 3/04**; **F16S 3/08**; **E04B 1/19**

IPC 8 full level

E02D 17/20 (2006.01); **E04B 1/344** (2006.01); **E04C 2/40** (2006.01)

CPC (source: EP)

E02D 17/20 (2013.01); **E02D 17/205** (2013.01); **E04B 1/344** (2013.01); **E04C 2/405** (2013.01)

Citation (search report)

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