

Title (en)
Connecting element for slabs.

Title (de)
Verbindungselement für Platten.

Title (fr)
Élément d'assemblage pour plaques.

Publication
EP 0099972 A1 19840208 (DE)

Application
EP 83105223 A 19830526

Priority
DE 3224899 A 19820703

Abstract (en)
1. Connecting element for panels of which the side edges are held in U-shaped receiving clamps which consist in each case of two mutually parallel walls and a connecting web which keeps these spaced apart, the clamps being assembled together to form a node by which a plurality of panels can be assembled together to form a three-dimensional structure each receiving clamp (1) having associated with it and extending parallel with the connecting web (5) hinge sleeves (12), the axial length of which corresponds to a fraction of the height (h) of the walls (3, 4) measured in the direction of the connecting web and which are adapted to be assembled in alignment with at least one further hinge sleeve (12') of another receiving clamp (2) through a fixing pin (120) which forms the hinge pin (23), characterised in that associated with each receiving clamp (1) there is in each case only one hinge sleeve (12) which is mounted on the connecting web (5) and offset to the hinge sleeve of the other receiving clamp by the amount corresponding to its axial length and in the direction of the hinge axis (23) and in that an axial intermediate space between the hinge sleeves which is created upon assembly is bridged by an inserted intermediate sleeve (20), the dimensions of which correspond to those of the hinge sleeves.

Abstract (de)
Es wird ein Verbindungselement für Platten beschrieben, das aus U-förmigen Aufnahmeklammern (1, 2, 15) besteht, die untereinander zu einem Knoten zusammensetzbar sind. Jede Aufnahmeklammer ist dabei mit einer Scharnierhülse (12) versehen, deren axiale Länge nur einem Bruchteil der in Richtung des Verbindungssteiges gemessenen Höhe entspricht. Diese Scharnierhülsen (12) können mit weiteren Scharnierhülsen (12', 12b) anderer Aufnahmeklammern über einen die Scharnierachse bildenden Befestigungsbolzen (13) fluchtend zusammengesetzt werden. Diese Ausgestaltung weist den Vorteil auf, daß alle Aufnahmeklammern (1, 2, 15) mit den daran befestigten Platten im beliebigen Winkel zueinander eingestellt werden können, so daß weitgehend Freiheit in der ?Anordnung ? der zusammenzuhaltenden Platten gegeben ist.

IPC 1-7
E04B 1/60; **F16B 5/06**; **E04H 1/12**

IPC 8 full level
E04B 1/344 (2006.01); **E04H 1/12** (2006.01); **E05D 3/04** (2006.01); **F16B 5/06** (2006.01); **E04B 1/58** (2006.01)

CPC (source: EP)
E04B 1/344 (2013.01); **E04H 1/1272** (2013.01); **E05D 3/04** (2013.01); **E04B 2001/5868** (2013.01)

Citation (applicant)
• DE 710889 C 19410923 - MAX ISRAEL FRANKEN
• DE 2163994 A1 19720727 - OFARRELL F
• CH 357535 A 19611015 - COCHET ROBERT [CH], et al
• DE 1284596 B 19681205 - STAEGER HANS, et al

Citation (search report)
• [X] DE 2163994 A1 19720727 - OFARRELL F
• [A] DE 2921545 A1 19801204 - GASSLER KURT
• [A] DE 1817273 A1 19691023 - POWER PLAY LTD
• [A] CH 357535 A 19611015 - COCHET ROBERT [CH], et al

Cited by
EP1905924A1; BE1027830B1; DE102012102028A1; CN114838041A; CN109440939A; FR2724737A1; BE1009538A5; US5751477A; CN107761965A; EP3842597A1; US10188205B2; WO2015154867A1; US10612721B2; US10955085B2

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