

Title (en)

BEAMS AND FRAMES COMPRISED OF THIN IRON SHEET PLATES ASSOCIATED TO A CASTABLE AND HARDENABLE VEIL.

Title (de)

BALKEN UND STRUKTUREN AUS DÜNNEN BLECHEN, DIE MIT EINER GIESS- UND HÄRTBAREN HAUT VERBUNDEN SIND.

Title (fr)

POUTRES ET STRUCTURES CONSTITUEES DE TOLES MINCES ASSOCIEES A UN VOILE COULABLE- ET DURCISSABLE.

Publication

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Application

**EP 80901942 A 19810504**

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Abstract (en)

[origin: WO8101162A1] Beams and frames comprised essentially of thin iron sheet plates (1a, 1b and 14), associated to castable veils (2 and 2a), of for example concrete, by metal connectors (3e and 11). The beams may be reinforced by armatures (4a), embedded in the veils (2 and 2a). The position of the connectors is defined as follows: a) to prevent in the beams under a load a substantial buckling of the iron sheet plate (1 and 14), jeopardizing the structure, b) to transfer to iron sheet plates (1 and 14) the longitudinal sliding stresses generated by the armatures (4). The structure is completed by a welded lattice (16a), cross-bar (18) and reinforcement caissons (19) arranged at supporting points. Said structures may be prolonged at their ends by metal caissons allowing to form assemblies between different structures by means usually used in iron works (not represented).

Abstract (fr)

Poutres et structures principalement composees de toles minces (1a), (1b) et (14), associees a des voiles coulables (2) et (2a), du beton par exemple, par des connecteurs metalliques (3e) et (11). Les poutres peuvent etre renforcees par des armatures (4a), noyees dans les voiles (2) et (2a). La position des connecteurs est definie: a) pour empecher dans les poutres mises en charge un voilement notable des toles (1) et (14) mettant en peril la structure; b) pour transmettre aux toles (1) et (14), les contraintes de glissement longitudinal engendrees par les armatures (4). La structure est completee par un treillis soude (16a), des traverses (18) et des caissons de renfort (19), disposes aux points d'appui. Lesdites structures peuvent etre prolongees a leurs extremités de caissons metalliques permettant d'effectuer des assemblages entre differentes structures, par les moyens habituellement utilises en charpente metallique (non representes).

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