Title (en)

Method of construction for mounting framed plate girders for bridges and halls as well as kit of conjugated constructional elements.

Title (de)

Bauweise zur montagemässigen Herstellung von Rahmentragkonstruktionen für Überbrückungen und Hallen mit zugeordnetem Bauelementensatz.

Title (fr)

Forme de construction pour le montage de charpentes en cadre pour portiques et halles ainsi que set d'éléments de construction associé.

Publication

EP 0152518 A1 19850828 (DE)

Application

EP 84109226 A 19840803

Priority

DE 3329000 A 19830811

Abstract (en)

1. System for the manufacture of prefabricated assemblies of frame structures as spanning constructions and for halls in the form of complete sets of construction elements of which the one linear, torsion-resistant member (1) with a specially formed cross-section (11, 10, 9, 8, 9, 10, 11) is being shaped to a configuration of a frame girder with frame corners (4) by being partially severed and bend off at several points (4) thus producing a spanning or roof area, respectively, composed of the spanning member and abutment or a wall area, respectively, of one or several members in that but a fraction of the cross-section of the linear and torsion-resistant member (1) is being severed while the non-affected (not being severed) members is being bent ; this assembly being significant for the fact that, by being complemented with one of the subsequent frame angles (vepsiln1) and by due consideration of the envisaged plate (21/22) cut at an angle (vepsiln2) across to the axis of the member and of longitudinal cuts along the part forming the trough of the cross-section (8, 9), the two cut ends (21, 22, 8) can, on the flexure of the un-affected (non-cut part of the cross-section (10) of the member (1), be slid into and over each-other and the ends being thus overlapping, can be bent and pressed together enabling in this manner the establishing of connections on said overlapping ends, with and without exerting contact pressure, by connection elements such as screws or by welding ; the assembly system being, moreover, significant in that the frame construction can be torsionally resistant (7) or articulated (2) being mounted on a flat footing (6) as well as on a pile or sheet pile foundation (5), respectively.

Abstract (de)

Diese Bauweise ist getragen von einem zentralen Bauelement, dem biegesteifen Profilstab (1), der an mindest einer Stelle zum Rahmeneck (4) ausgebildet ist, in dem etnweder der Boden (8) und der Steg (9) des Querschnittes des Profilstabes nach einer vom Abbiegewinkel abhängigen Schnittfigur (22) geschnitten wird und im Schenkel (10) gebogen wird, oder auch im Schenkel (10), dann aber im Boden gebogen, und sodann an den überdeckenden Endteilen verschweisst (23) oder verschraubt (22) wird, um als Wand bzw. Stiel und als Dach bzw. Riegel eingebaut zu werden, wobei an den Schenkeln (10) die Stäbe aneinander kraftschlüssig verbunden (11, 12, 13, 15, 17, 19) verbunden werden.

IPC 1-7

E04B 1/18; E04C 3/40

IPC 8 full level

E04B 1/18 (2006.01); **E04C 3/38** (2006.01); **E04C 3/40** (2006.01)

CPC (source: EP)

E04C 3/38 (2013.01)

Citation (search report)

- [A] FR 689578 A 19300909
- [A] EP 0033619 A2 19810812 - PATERSON JOHN [AU], et al
- [A] US 3755975 A 19730904 - HERZER J, et al

Designated contracting state (EPC)

AT FR GB IT

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