

Title (en)

Structure and method of connecting I-Type prestressed concrete beams using steel brackets

Title (de)

Konstruktion und Verfahren zur Verbindung von Type-I Spannbetonträgern unter Verwendung von Stahlkonsolen

Title (fr)

Structure et procédé pour la fixation des poutres en béton précontraint du type-I utilisant des consoles en acier

Publication

EP 1548190 A3 20060301 (EN)

Application

EP 04012158 A 20040522

Priority

KR 20030095319 A 20031223

Abstract (en)

[origin: EP1548190A2] A structure and method of connecting a plurality of PSC-I beams (PSC-I beams) to each other using steel brackets. The beam connecting structure, each having a sheath pipe therein, includes an end plate which is mounted on each of both ends of each of the PSC-I beams, with a through hole provided on an upper portion of the end plate to correspond to the sheath pipe embedded in each of the PSC-I beams; a steel bracket integrally which is provided on the end plate to be perpendicular to the end plate; a bracket coupling plate to integrally couple the aligned steel brackets to each other; a bottom connecting plate which is provided on lower ends of the aligned steel brackets to connect the steel brackets to each other; a connecting sheath pipe which is provided between the PSC-I beams so that both ends of the connecting sheath pipe are respectively inserted into the through holes of the neighboring end plates of the PSC-I beams while the PSC-I beams are arranged linearly; a prestress strand which is inserted in the sheath pipes of the PSC-I beams and the connecting sheath pipe; and a concrete part which is filled in a space between the PSC-I beams to embed the aligned steel brackets, the bracket coupling plate and the connecting sheath pipe in the concrete part.

IPC 8 full level

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CPC (source: EP KR US)

E01D 2/00 (2013.01 - EP US); **E01D 2/02** (2013.01 - EP KR US); **E01D 2101/285** (2013.01 - EP US)

Citation (search report)

- [A] DE 3114219 A1 19821104 - SCHRECK PHILIPP DIPL ING
- [A] DE 1256671 B 19671221 - DYCKERHOFF & WIDMANN AG
- [A] GB 1417027 A 19751210 - SOUM R

Cited by

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Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

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