Title (en)

BEAM ASSEMBLY FOR COMPOSITE FLOOR

Title (de)

TRÄGERANORDNUNG FÜR VERBUNDBODEN

Title (fr)

ASSEMBLAGE DE POUTRE POUR DALLE COMPOSITE

Publication

EP 3540141 A1 20190918 (EN)

Application

EP 19162834 A 20190314

Priority

NL 2020588 A 20180314

Abstract (en)

Assembly of a steel girder for a composite floor including concrete hollow-core slabs, and a coupling device for connecting the hollow-core slabs to the girder, wherein the girder comprises:- at least one laterally extending lower flange having a support surface for support ends of the hollow-core slabs and- a web extending upwards from the lower flange, wherein the coupling device comprises:- a number of coupling rods which with the one, first end are intended to be accommodated in the respective longitudinal voids of the hollow-core slabs or in joints between the hollow-core slabs and to be secured to them by poured concrete, and at the other, second end are provided with a coupling protrusion projecting transverse from the respective coupling rod,- at least one coupling rail attached to the web of the girder, which rail extends substantially parallel to the lower flange, and which has a length of at least the width of a hollow-core slabs in horizontal direction by a coupling wall, and is provided with an opening continuing in longitudinal direction for access of the coupling protrusions to the accommodation space, wherein the coupling wall in a coupling position that is rotated relative to the insertion position.

IPC 8 full level

E04B 5/29 (2006.01); E04C 3/293 (2006.01)

CPC (source: EP) E04B 5/29 (2013.01); E04C 3/293 (2013.01)

Citation (search report)

- [A] EP 2405070 A2 20120111 DELTASTAAL B V [NL]
- [A] DE 202015104628 U1 20161205 PFEIFER HOLDING GMBH & CO KG [DE]
- [A] CN 105019595 A 20151104 UNIV SOUTHEAST
- [A] KR 20100002506 A 20100107 UNIV SEOUL IND COOP FOUND [KR]

Cited by

CN113378255A

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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BA ME

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