

Title (en)

MECHANICAL CONNECTION SYSTEM FOR COMPOSITE FLOOR, ALLOWING QUICK ASSEMBLY AND DISASSEMBLY OF THE COMPOSITE FLOOR AND REUSE OF THE COMPONENTS OF SAME, AND CORRESPONDING COMPOSITE FLOOR

Title (de)

MECHANISCHES VERBINDUNGSSYSTEM FÜR VERBUNDBODEN, DAS EINE SCHNELLE MONTAGE UND DEMONTAGE DES VERBUNDBODENS UND WIEDERVERWENDUNG DER KOMPONENTEN DESSELBEN ERLAUBT, UND ENTSPRECHENDER VERBUNDBODEN

Title (fr)

SYSTÈME DE CONNEXION MÉCANIQUE POUR PLANCHER MIXTE, PERMETTANT UN MONTAGE ET UN DÉMONTAGE RAPIDES DU PLANCHER MIXTE ET LA RÉUTILISATION DE SES COMPOSANTS, ET PLANCHER MIXTE CORRESPONDANT

Publication

EP 3987117 B1 20230809 (FR)

Application

EP 20737282 A 20200615

Priority

- FR 1906564 A 20190618
- IB 2020055574 W 20200615

Abstract (en)

[origin: WO2020254941A1] The invention concerns a mechanical connection system (1) for connecting a concrete slab (D) to a steel beam (P) to which at least one dowel-type connector (C) is attached. The system comprises, for each connector (C), a frustoconical metal nut (2) having a threaded through-hole (22) into which the connector (C) is screwed, a frustoconical metal sleeve (3) assembled to the nut (2) by conical connection and, for each recess (D1) in the slab (D), a metal cage (4) intended to be assembled in contact with the recess (D1). Sealing concrete (B) fills the recess (D1), such that the slab (D) is secured to the beam (P) by keying by the sealing concrete (B) and the connection system (1). The invention also concerns a composite floor in which at least one concrete slab (D) is secured to at least one steel beam (P) by means of this connection system (1).

IPC 8 full level

E01D 19/12 (2006.01); **E04B 5/04** (2006.01); **E04B 5/10** (2006.01)

CPC (source: EP)

E01D 19/125 (2013.01); **E04B 5/04** (2013.01); **E04B 5/10** (2013.01)

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

DOCDB simple family (publication)

FR 3097586 A1 20201225; **FR 3097586 B1 20210716**; EP 3987117 A1 20220427; EP 3987117 B1 20230809; EP 3987117 C0 20230809; WO 2020254941 A1 20201224

DOCDB simple family (application)

FR 1906564 A 20190618; EP 20737282 A 20200615; IB 2020055574 W 20200615