

Title (en)

CONNECTION METHOD BETWEEN STEEL-PLATE CONCRETE STRUCTURE AND DIFFERENT STRUCTURE

Title (de)

VERBINDUNGSVERFAHREN ZWISCHEN EINER STAHLPLATTENBETONSTRUKTUR UND EINER ANDEREN STRUKTUR

Title (fr)

PROCEDE DE LIAISON ENTRE STRUCTURE EN BETON A TOLE D'ACIER ET STRUCTURE DIFFERENTE

Publication

EP 2617910 A1 20130724 (EN)

Application

EP 10857320 A 20100927

Priority

- KR 20100090152 A 20100914
- KR 2010006555 W 20100927

Abstract (en)

The present invention relates to a connection method between a steel-plate concrete structure and a different structure in which stress reduction on a connection surface between the steel-plate concrete structure (SC) and the different structure is prevented when the steel-plate concrete structure and the different structure are connected to each other, and a load is continuously and uniformly transmitted into a wall structure to improve connection performance between the steel-plate concrete structure and the different structure. To this end, the connection method between a steel-plate concrete structure, in which concrete is filled between steel plates facing and spaced apart from each other, and a different concrete structure, in which concrete is constructed on an iron reinforcing bar or an iron-frame reinforcing bar, includes: disposing a mold around a space in which concrete is constructed to form the different concrete structure to dispose iron reinforcing bars or iron-frame reinforcing bars inside the mold so that the iron reinforcing bars or the iron-frame reinforcing bars are vertically and horizontally cross-coupled to each other; disposing a steel plate to be connected on a portion of an inner surface of the mold in a direction in which the steel-plate concrete structure and the steel plate for connection are connected to each other; constructing concrete into an inner space of the mold to form a different concrete structure; coupling a steel plate for the steel-plate concrete structure to the steel plate for connection; and constructing concrete inside the steel plate for the steel-plate concrete structure to integrally connect the steel-plate concrete structure to the different concrete structure.

IPC 8 full level

E04B 1/28 (2006.01); **E04B 1/16** (2006.01); **E04B 1/58** (2006.01); **E04B 2/86** (2006.01); **G21C 13/093** (2006.01)

CPC (source: EP)

E04B 1/16 (2013.01); **E04B 1/161** (2013.01); **E04B 2/8635** (2013.01); **E04B 2002/867** (2013.01)

Cited by

CN103924710A; CN106988455A; CN103437423A; CN105113664A; WO2018115307A1

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 SE SI SK SM TR

DOCDB simple family (publication)

EP 2617910 A1 20130724; **EP 2617910 A4 20140226**; KR 101011070 B1 20110125; WO 2012036335 A1 20120322

DOCDB simple family (application)

EP 10857320 A 20100927; KR 2010006555 W 20100927; KR 20100090152 A 20100914