

Title (en)
USE OF A REINFORCING ELEMENT FOR INSTALLATIONS IN CONCRETE STRUCTURES

Title (de)
VERWENDUNG EINES BEWEHRUNGSELEMENTS FÜR EINBAUTEN IN BETONKONSTRUKTIONEN

Title (fr)
EMPLOI D'UN ÉLÉMENT D'ARMURE À INTRODUIRE DANS DES CONSTRUCTIONS EN BÉTON

Publication
EP 3181772 B1 20231018 (DE)

Application
EP 16205449 A 20100903

Priority
• IB 2009053923 W 20090908
• EP 10766337 A 20100903
• IB 2010053985 W 20100903

Abstract (en)
[origin: WO2011030178A1] Construction elements are disclosed which allow potential weaknesses in the statics caused by recessed media lines to be nearly or fully eliminated. The disclosed construction elements make it possible to integrate the construction units in the planning phase and/or shortly before casting the concrete. Said construction elements provide added security to structural engineers and allow for greater economy since the structure does not need to be reinforced in any other way. The construction elements consist of at least one tensioning element (2), a mounting device (4), and an anchoring device (3).

IPC 8 full level
E04B 5/43 (2006.01); **E04B 5/48** (2006.01); **E04C 5/06** (2006.01); **E04C 5/18** (2006.01)

CPC (source: EP US)
E04B 5/43 (2013.01 - EP US); **E04B 5/48** (2013.01 - EP US); **E04C 5/0645** (2013.01 - EP US); **E04C 5/18** (2013.01 - EP US)

Citation (examination)
• JP H08302902 A 19961119 - OHBAYASHI CORP
• JP H0762793 A 19950307 - OHBAYASHI CORP
• JP H07207837 A 19950808 - OTA KIZAI KK
• DE 20201525 U1 20030618 - REHAU AG & CO [DE]
• JP H05321404 A 19931207 - KAWATETSU TECHNO WIRE KK
• JP H06322890 A 19941122 - TOOATSU KK

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)
WO 2011030178 A1 20110317; CA 2773779 A1 20110317; EP 2475827 A1 20120718; EP 2475827 B1 20171129; EP 3181772 A1 20170621; EP 3181772 B1 20231018; US 2012240496 A1 20120927; WO 2011030270 A1 20110317

DOCDB simple family (application)
IB 2009053923 W 20090908; CA 2773779 A 20100903; EP 10766337 A 20100903; EP 16205449 A 20100903; IB 2010053985 W 20100903; US 201013394556 A 20100903