

Title (en)

METHOD FOR PRODUCING A REINFORCED CONCRETE PART, AND THUS-PRODUCED PART

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES STAHLBETONTEILS UND AUF DIESE WEISE HERGESTELLTES TEIL

Title (fr)

PROCEDE DE REALISATION D'UNE PIECE EN BETON ARME ET PIECE AINSI REALISEE

Publication

EP 2356292 A1 20110817 (FR)

Application

EP 09801519 A 20091209

Priority

- FR 2009052468 W 20091209
- FR 0858407 A 20081209

Abstract (en)

[origin: WO2010067023A1] The invention relates to a method for producing a reinforced concrete part (1), having a tensioned portion subjected to pull stresses and tending to stretch under the load, and which comprises a reinforcing frame (2) with at least one tensioned longitudinal bar (21) rigidly connected to the concrete by an adhesive connection that determines a tangential adhesive stress along said bar that varies on the basis of applied pull stresses. According to the invention, each tensioned longitudinal bar (21) has, on at least one portion of the length thereof, a discontinuous series of spaced blocking areas (25) that each comprise a plurality of means (23) for anchoring into the concrete and which are separated from each other by a series of sliding areas (26), in each of which an increase in the adhesion stress above a limit value causes the bar to disengage, without disrupting the concrete, on at least a portion (27) of the length between the two blocking areas (25a), (25'a) with an extension of the bar corresponding to applied pull stresses, said extension being distributed over the entire length of the disengaged portion (27) of the bar (21). The invention also covers the thus-produced parts and the reinforcing bars for implementing the method, comprising an alternating series of blocking areas and sliding areas.

IPC 8 full level

E04C 5/03 (2006.01); **E04C 5/06** (2006.01)

CPC (source: EP US)

E04B 1/22 (2013.01 - US); **E04C 5/03** (2013.01 - EP US); **E04C 5/0604** (2013.01 - EP US); **Y10T 428/249923** (2015.04 - EP US)

Citation (search report)

See references of WO 2010067023A1

Cited by

CN108571121A

Designated contracting state (EPC)

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)

FR 2939459 A1 20100611; **FR 2939459 B1 20200814**; EP 2356292 A1 20110817; EP 2356292 B1 20150923; JP 2012511647 A 20120524; JP 5497061 B2 20140521; US 11199000 B2 20211214; US 2011244211 A1 20111006; WO 2010067023 A1 20100617

DOCDB simple family (application)

FR 0858407 A 20081209; EP 09801519 A 20091209; FR 2009052468 W 20091209; JP 2011540172 A 20091209; US 200913133555 A 20091209