

Title (en)

CORROSION-PROTECTED SELF-DRILLING ANCHOR AND ANCHOR SUBUNIT AND METHOD FOR THE PRODUCTION THEREOF

Title (de)

KORROSIONSGESCHÜTZTER SELBSTBOHRANKER SOWIE ANKERTEILEINHEIT UND VERFAHREN ZU DESSEN HERSTELLUNG

Title (fr)

CHEVILLE AUTOFOREUSE PROTÉGÉE CONTRE LA CORROSION, ET BLOC D'ÉLÉMENTS DE CHEVILLE, ET LEUR PROCÉDÉ DE FABRICATION

Publication

**EP 2257690 A1 20101208 (DE)**

Application

**EP 09721454 A 20090318**

Priority

- EP 2009001994 W 20090318
- DE 102008014700 A 20080318

Abstract (en)

[origin: US2011070034A1] A corrosion-protected, self-drilling anchor and an anchor subunit and to a method for the production thereof is provided. A self-drilling anchor of the invention includes a number of anchor subunits, each with a hollow bar element, which are connected together by the formation of an axial bell butt joint to form a connected pull and pressure member. The first subunit t its end has a drill bit and the subunit is connected non-rotatably with its end to a drilling and injection device. It is provided according to the invention that each hollow bar element is surrounded by a sheathing except for its end sections and the annular gap between the sheathing and hollow bar element is grouted with a first corrosion protection compound. A coupler in the area of the bell butt joint fits tightly against the sheathings of the two hollow bar elements which are part of the bell butt joint. The hollow space between the coupler and hollow bar elements is filled with a second corrosion protection compound. A method of the invention provides for the prefabrication of a number of anchor subunits at the factory to drill these into the substrate at the site of the anchor to be produced and thereby for connecting them together with the formation of bell butt joints, whereby in the area of the bell butt joint a coupler fits tightly against the ends of two neighboring sheathings and the hollow space between the coupler and hollow bar element is filled with a second corrosion protection compound.

IPC 8 full level

**E21D 21/00** (2006.01)

CPC (source: EP US)

**E21D 21/0013** (2013.01 - EP US); **E21D 21/0053** (2016.01 - EP US)

Citation (search report)

See references of WO 2009115307A1

Cited by

CN102269001A

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 TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

**US 2011070034 A1 20110324; US 8142109 B2 20120327**; AT E525549 T1 20111015; AU 2009226749 A1 20090924; BR PI0910396 A2 20151006; CA 2718556 A1 20090924; DE 102008014700 A1 20090924; EP 2257690 A1 20101208; EP 2257690 B1 20110921; ES 2374147 T3 20120214; PT 2257690 E 20111215; WO 2009115307 A1 20090924

DOCDB simple family (application)

**US 88627410 A 20100920**; AT 09721454 T 20090318; AU 2009226749 A 20090318; BR PI0910396 A 20090318; CA 2718556 A 20090318; DE 102008014700 A 20080318; EP 09721454 A 20090318; EP 2009001994 W 20090318; ES 09721454 T 20090318; PT 09721454 T 20090318