

Title (en)
METHOD AND DEVICE FOR PRODUCING PRE-TENSIONED ANCHORINGS

Title (de)
VERFAHREN UND VORRICHTUNG ZUR HERSTELLUNG VON VORGESpanNTEN VERANKERUNGEN

Title (fr)
PROCEDE ET DISPOSITIF POUR PRODUIRE DES ANCRAGES PRECONTRAINTS

Publication
EP 1727967 B1 20070822 (DE)

Application
EP 05714183 A 20050322

Priority
• AT 2005000101 W 20050322
• AT 5092004 A 20040323

Abstract (en)
[origin: WO2005090753A1] The invention concerns a method and device for boring, particularly percussion boring or rotary percussion boring, a hole (2) in soil or rock material and for forming an anchoring. According to the invention, a borehole (2) is formed by inserting a drill bit (4), and a casing tube (7) is placed inside the borehole (2) during the boring process. Once the borehole (2) is completed, the boring rods (5) are detached from the drill bit (4) and removed from the borehole (2). The periphery of the casing tube (7) is provided with a number of passage openings (23) for discharging hardenable material. A tensioning device (13, 14) for the anchor, particularly an anchor plate and a screw that can be screwed onto the casing tube (7), can be fixed to the end of the casing tube (7) protruding from the borehole (2). Anchoring or fixing elements (15) for anchoring the casing tube (7) on the surrounding inner wall (2) of the borehole are provided, in particular, on the end area of the casing tube (7) oriented toward the drill bit (4).

IPC 8 full level
E21D 21/00 (2006.01); **E02D 5/76** (2006.01)

CPC (source: EP KR US)
E21D 21/00 (2013.01 - KR); **E21D 21/0033** (2013.01 - EP US); **E21D 21/0053** (2016.01 - EP US); **E21D 21/008** (2013.01 - EP US)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2005090753 A1 20050929; AT 509159 A1 20110615; AT 509159 B1 20110915; AT E371096 T1 20070915; AU 2005224275 A1 20050929; CA 2559457 A1 20050929; CN 1934334 A 20070321; DE 502005001322 D1 20071004; DK 1727967 T3 20080102; EP 1727967 A1 20061206; EP 1727967 B1 20070822; ES 2290890 T3 20080216; HR P20060352 A2 20061231; HR P20060352 B1 20080229; JP 2007530825 A 20071101; KR 20060130262 A 20061218; PL 1727967 T3 20080131; PT 1727967 E 20071115; US 2007012482 A1 20070118; US 7320371 B2 20080122; ZA 200607626 B 20070627

DOCDB simple family (application)
AT 2005000101 W 20050322; AT 05714183 T 20050322; AT 5092004 A 20040323; AU 2005224275 A 20050322; CA 2559457 A 20050322; CN 200580009333 A 20050322; DE 502005001322 T 20050322; DK 05714183 T 20050322; EP 05714183 A 20050322; ES 05714183 T 20050322; HR P20060352 A 20061017; JP 2007504208 A 20050322; KR 20067022015 A 20061023; PL 05714183 T 20050322; PT 05714183 T 20050322; US 52366906 A 20060920; ZA 200607626 A 20060912