

Title (en)

MEANS FOR ANCHORING A ROCK BOLT MADE OF CONCRETE STEEL IN A DRILL HOLE.

Title (de)

MITTEL ZUM VERANKERN VON FELSANKERN, HERGESTELLT AUS STAHLBETON, IN EINEM BOHRLOCH.

Title (fr)

MOYEN D'ANCRAGE D'UN BOULON D'ANCRAGE EN ACIER D'ARMATURE DANS UN TROU DE FORAGE.

Publication

EP 0680545 A1 19951108 (EN)

Application

EP 94904195 A 19940112

Priority

- FI 9400014 W 19940112
- FI 930414 A 19930129

Abstract (en)

[origin: WO9417283A1] An anchoring means for anchoring a rock bolt made of concrete steel in a drill hole. The anchoring means comprises a body portion (1) intended to surround the concrete steel (6) and having a longitudinal slit (1a) at one side. The body portion (1) further comprises fixing tabs (4, 5) on the inside and gripping tabs (2, 3) on the outside for gripping the inner surface of the hole. The concrete steel (6) is inserted through the slit (1a) inside the body portion (1) so that the fixing tabs (4, 5) are positioned between the gripping protuberances (6a) of the concrete steel (6) and lock the anchoring means immovably in the longitudinal direction of the steel (6).

IPC 1-7

E21D 21/00; **E21D 20/02**

IPC 8 full level

E21D 20/02 (2006.01); **E21D 20/00** (2006.01); **E21D 21/00** (2006.01)

CPC (source: EP)

E21D 21/008 (2013.01)

Citation (search report)

See references of WO 9417283A1

Designated contracting state (EPC)

AT CH DE FR GB IT LI SE

DOCDB simple family (publication)

WO 9417283 A1 19940804; AT E163318 T1 19980315; AU 5834994 A 19940815; AU 675282 B2 19970130; CA 2154901 A1 19940804; CA 2154901 C 20050531; DE 69408570 D1 19980326; DE 69408570 T2 19980910; EP 0680545 A1 19951108; EP 0680545 B1 19980218; FI 91913 B 19940513; FI 91913 C 19940825; FI 930414 A0 19930129; JP 3230160 B2 20011119; JP H08508797 A 19960917; PL 172767 B1 19971128; PL 309944 A1 19951113; ZA 94153 B 19940818

DOCDB simple family (application)

FI 9400014 W 19940112; AT 94904195 T 19940112; AU 5834994 A 19940112; CA 2154901 A 19940112; DE 69408570 T 19940112; EP 94904195 A 19940112; FI 930414 A 19930129; JP 51639694 A 19940112; PL 30994494 A 19940112; ZA 94153 A 19940111