

Title (en)

Adapter of a self-drilling chemically anchored attachment element

Title (de)

Adapter eines selbstbohrenden, chemisch verankerbaren Befestigungselementes

Title (fr)

Adaptateur d'un élément de fixation auto-perceur pouvant être ancré chimiquement

Publication

EP 2233683 A3 20170823 (DE)

Application

EP 10154602 A 20100225

Priority

DE 102009001464 A 20090311

Abstract (en)

[origin: EP2233683A2] The adapter has a base section provided on an adapter end at a distance from an engagement device (35), and a hollow cylindrical connecting sleeve section (25) connecting the base section and the engagement device. The connecting sleeve section comprises a threadlike inner profile, in part corresponding to a threaded outer profile on a shank, where adapter is formed by two element parts (22, 32) detachably connected to one another via a clutch device (41). A drill bit head is provided on one end of the shank with the threaded outer profile.

IPC 8 full level

E21B 17/03 (2006.01); **E21D 21/00** (2006.01)

CPC (source: EP US)

E21B 17/03 (2013.01 - EP US); **E21D 21/0053** (2016.01 - EP US); **E21D 21/0093** (2013.01 - EP US); **Y10T 279/3418** (2015.01 - EP US)

Citation (search report)

- [AD] DE 10336040 B4 20061228 - HILTI AG [LI]
- [A] WO 2007059580 A1 20070531 - GRAY PETER ANDREW [AU]
- [A] DE 3344511 A1 19850620 - DYCKERHOFF & WIDMANN AG [DE]
- [A] DE 4213363 A1 19921105 - ANI CORP LTD [AU]
- [A] GB 827591 A 19600210 - MASTABAR MINING EQUIP CO LTD

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

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

EP 2233683 A2 20100929; EP 2233683 A3 20170823; AU 2010200934 A1 20100930; AU 2010200934 B2 20111027; CA 2696292 A1 20100911; DE 102009001464 A1 20100916; US 2010230909 A1 20100916; ZA 201001728 B 20101124

DOCDB simple family (application)

EP 10154602 A 20100225; AU 2010200934 A 20100311; CA 2696292 A 20100311; DE 102009001464 A 20090311; US 66104310 A 20100310; ZA 201001728 A 20100310