

Title (en)

SELF-BORING SHIELD ANCHOR APPARATUS AND METHOD

Title (de)

SELBSTBOHRENDE ABSCHIRMUNGSANKERVORRICHTUNG UND VERFAHREN

Title (fr)

APPAREIL ET PROCÉDÉ D'ANCRAGE DE PROTECTION À PERÇAGE AUTOMATIQUE

Publication

EP 2997226 A2 20160323 (EN)

Application

EP 14728602 A 20140507

Priority

- GB 201308152 A 20130507
- GB 201400830 A 20140117
- GB 2014051396 W 20140507

Abstract (en)

[origin: GB2513942A] A drill bit 12 for anchoring a tensile load to a substrate 100, comprising a shaft 10 with a first cutting tip 12 attached in the form of a drill bit, a mandrel 14 on said shaft with a flareable sleeve 26 able to override the mandrel 14 comprising, forcing the flared sleeve 26 to push shields 24/28 outward, upon which shields the second cutting tips 20 & 22 are mounted, which are separately driveable to the first cutting tip, and an anchor 1, which anchors the assembly in place by expanding into the undercut made, thus preventing removal.

IPC 8 full level

E21D 21/00 (2006.01); **E21B 10/32** (2006.01)

CPC (source: EP GB)

B63B 21/26 (2013.01 - EP GB); **E02D 5/80** (2013.01 - GB); **E21B 10/30** (2013.01 - GB); **E21B 10/32** (2013.01 - GB); **E21D 21/00** (2013.01 - GB); **E21D 21/0033** (2013.01 - GB); **E21D 21/008** (2013.01 - GB); **F16B 13/00** (2013.01 - GB); **F16B 13/002** (2013.01 - GB); **F16B 2013/007** (2013.01 - GB); **F16B 2013/008** (2013.01 - GB)

Citation (search report)

See references of WO 2014181105A2

Designated contracting state (EPC)

AL 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 RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

GB 201400830 D0 20140305; **GB 2513942 A 20141112**; **GB 2513942 B 20170510**; EP 2997226 A2 20160323; GB 201308152 D0 20130612; GB 201520062 D0 20151230; GB 201520092 D0 20151230; GB 201520171 D0 20151230; GB 2529109 A 20160210; GB 2529109 B 20170510; WO 2014181105 A2 20141113; WO 2014181105 A3 20150416

DOCDB simple family (application)

GB 201400830 A 20140117; EP 14728602 A 20140507; GB 201308152 A 20130507; GB 2014051396 W 20140507; GB 201520062 A 20151113; GB 201520092 A 20140117; GB 201520171 A 20151116