

Title (en)
DRILL BIT

Title (de)
BOHRMEISSEL

Title (fr)
TRÉPAN

Publication
EP 3505717 A1 20190703 (EN)

Application
EP 18214476 A 20181220

Priority
FI 20176174 A 20171227

Abstract (en)
A drill bit (1) comprises a body (2) of the drill bit (1) and at a distance from a face of the drill bit (1), reamer blade wings (21) moving outwards from a side (6) of the body (2) of the drill bit (1). When the drill bit (1) is rotated in the intended drilling direction, the reamer blade wings (21) are adapted to move outwards from the side (6) of the body (2) of the drill bit (1), extending outside the largest outer diameter of the body (2) of the drill bit (1) to enlarge the hole being drilled. When the drill bit (1) is rotated in the opposite direction, the reamer blade wings (21) are adapted to return inside the largest outer diameter of the body (2) of the drill bit (1) for pulling the drill bit (1) out of the hole being drilled.

IPC 8 full level
E21B 10/32 (2006.01)

CPC (source: CN EP FI US)
E21B 7/208 (2013.01 - FI); **E21B 10/32** (2013.01 - CN EP FI US); **E21B 10/327** (2013.01 - FI); **E21B 10/40** (2013.01 - FI);
E21B 10/42 (2013.01 - CN); **E21B 10/60** (2013.01 - CN); **E21B 10/66** (2013.01 - FI)

Citation (search report)

- [X] GB 2465653 A 20100602 - BULROC [GB]
- [X] US 5934394 A 19990810 - FAREHAM MICHAEL [HK]
- [X] WO 2005085581 A1 20050915 - NG LEECHIN [CN]
- [X] CN 1435300 A 20030813 - BYONG-DUK LIM [KR]
- [X] KR 20150125755 A 20151110 - C&P TECH CO LTD [KR]

Cited by
CN111206884A; WO2023110450A1

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)
EP 3505717 A1 20190703; **EP 3505717 B1 20201125**; CN 109973018 A 20190705; CN 109973018 B 20210730; ES 2854996 T3 20210923;
FI 20176174 A1 20190628; PL 3505717 T3 20210712

DOCDB simple family (application)
EP 18214476 A 20181220; CN 201811605716 A 20181227; ES 18214476 T 20181220; FI 20176174 A 20171227; PL 18214476 T 20181220