

Title (en)

Core drilling tool with a direct drive.

Title (de)

Direktangetriebenes Kernbohrwerkzeug.

Title (fr)

Outil carottier à entraînement direct.

Publication

EP 0276724 B1 19940921 (DE)

Application

EP 88100667 A 19880119

Priority

DE 3701914 A 19870123

Abstract (en)

[origin: US4875531A] A core drilling tool with direct drive consisting of an outer pipe that can be connected to a drilling shaft, a core drilling appliance reciprocally mountable in the outer pipe which in turn includes a core barrel that carries a drill bit and an inner pipe mounted in rotatable relation therewith and for reciprocal movement therewith, and a drilling mud driven motor that is integrally coupled to the core drilling appliance and is secured against rotation in the outer pipe and having reaction faces that are put under pressure to produce a downward axial feed force acting on both the core drilling appliance and the motor, plus a capture device for pulling up the motor together with the core drilling appliance. In order to produce a sufficiently great axial feed force of an adjustable size that is essentially independent of the exposure of the core drilling appliance, the motor is connected to the core drilling appliance to form a common movable unit and devices are provided for adjusting the axial feed force.

IPC 1-7

E21B 25/04; **E21B 4/02**

IPC 8 full level

E21B 4/02 (2006.01); **E21B 25/04** (2006.01); **E21B 44/00** (2006.01)

CPC (source: EP US)

E21B 4/02 (2013.01 - EP US); **E21B 25/04** (2013.01 - EP US); **E21B 44/005** (2013.01 - EP US)

Cited by

EP0380909A3; FR2675197A1; US6644424B1; WO9218740A1

Designated contracting state (EPC)

BE FR GB NL

DOCDB simple family (publication)

DE 3701914 C1 19880519; CA 1296319 C 19920225; EP 0276724 A2 19880803; EP 0276724 A3 19900822; EP 0276724 B1 19940921; US 4875531 A 19891024

DOCDB simple family (application)

DE 3701914 A 19870123; CA 557188 A 19880122; EP 88100667 A 19880119; US 14867688 A 19880125