Title (en)

MUD SHAFT FOR THE DRILL STRING OF A ROTARY PERCUSSIVE DRILLING RIG, IMPACT STACK FOR A MUD SHAFT AND ROTARY PERCUSSIVE DRILLING RIG

Title (de)

SPÜLWELLE FÜR DAS BOHRGESTÄNGE EINER DREHSCHLAGBOHRANLAGE, PRALLPAKET FÜR EINE SPÜLWELLE UND DREHSCHLAGBOHRANLAGE

Title (fr)

ARBRE DE RINÇAGE POUR LA TIGE DE FORAGE D'UNE INSTALLATION DE FORAGE PAR ROTO-PERCUSSION, PAQUET D'IMPACT POUR UN ARBRE DE RINÇAGE ET INSTALLATION DE FORAGE PAR ROTO-PERCUSSION

Publication

EP 2029851 B1 20180829 (DE)

Application

EP 07720159 A 20070523

Priority

- CH 2007000262 W 20070523
- CH 8412006 A 20060524

Abstract (en)

[origin: WO2007134478A1] A mud shaft for fitting into an outer drill string (5) of a rotary percussive drilling rig (1) having an overburden percussion mechanism is described. In this case, the rotary percussive drilling rig (1) has a central chisel bit (3), which is rotationally driven and is subjected to axial blows by a down-the-hole hammer (4), and a rotationally driven drill bit (6) subjected to axial blows by an external hammer (7). The mud shaft (8) has a cylindrical body, on the axial end regions of which standardized connecting threads (81, 82) are provided for connecting to the outer drill string (5) and to the external hammer (7), and which, at its end region facing the down-the-hole hammer (4) in the fitted state, has a blind-hole-like receptacle (83) which is connected to a supply bore (94) for the down-the-hole hammer (4). Arranged in the receptacle (83) is an impact stack (9) which comprises a number of annular steel discs (91) and, preferably vulcanized, elastomer discs (92). In this case, an elastomer disc (92) is always arranged between each two steel discs (91).

IPC 8 full level

E21B 6/00 (2006.01); **E21B 4/20** (2006.01)

CPC (source: EP)

E21B 4/20 (2013.01); **E21B 6/00** (2013.01)

Cited by

CN114837592A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2007134478 A1 20071129; EP 2029851 A1 20090304; EP 2029851 B1 20180829

DOCDB simple family (application)

CH 2007000262 W 20070523; EP 07720159 A 20070523