

Title (en)
GUIDE ADAPTER

Title (de)
FÜHRUNGSADAPTER

Title (fr)
ADAPTATEUR DE GUIDAGE

Publication
EP 3983636 A1 20220420 (EN)

Application
EP 20732202 A 20200610

Priority
• EP 19180284 A 20190614
• EP 2020066081 W 20200610

Abstract (en)
[origin: EP3751092A1] The present invention relates to a guide adapter (100) for guiding a drill bit during percussion drilling, said guide adapter is intended to be arranged between the drill bit and an elongated drill string extending along an axis A, said drill bit having a first radius (Rf) transverse to axis A. The guide adapter comprises: a sleeve shaped adapter body (101) intended to extend along axis A and comprising a forward end (102) with a first coupling (104) intended for connecting the guide adapter to the drill bit, and a rear end (103) with a second coupling (105) intended for connecting the guide adapter (100) to the drill string; and a plurality of guiding elements (106) extending substantially radially in relation to axis A from the sleeve shaped adapter body (101), wherein the guiding elements (106) extend along 60% or less of the adapter body length (L) along axis A and are arranged in the rear end (103) of the adapter body (101), said guiding elements (106) in the rear end (103) has an extension in radial direction from axis A substantially equal to said first radius (Rf) and curved, straight or stepwise reduced radial extension towards the forward end along axis A. The invention furthermore relates to a drill arrangement comprising the guide adapter.

IPC 8 full level
E21B 10/36 (2006.01); **E21B 17/042** (2006.01); **E21B 17/10** (2006.01)

CPC (source: EP KR US)
E21B 10/36 (2013.01 - EP KR US); **E21B 17/042** (2013.01 - EP KR); **E21B 17/1078** (2013.01 - EP KR US)

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 3751092 A1 20201216; EP 3751092 B1 20220810; AU 2020290668 A1 20211125; BR 112021024847 A2 20220118;
CA 3136576 A1 20201217; CL 2021003258 A1 20220819; CN 113966431 A 20220121; EP 3983636 A1 20220420; JP 2022537522 A 20220826;
KR 20220017408 A 20220211; MX 2021015490 A 20220203; PE 20212337 A1 20211216; PL 3751092 T3 20221031;
US 2022259929 A1 20220818; WO 2020249611 A1 20201217

DOCDB simple family (application)
EP 19180284 A 20190614; AU 2020290668 A 20200610; BR 112021024847 A 20200610; CA 3136576 A 20200610;
CL 2021003258 A 20211207; CN 202080043114 A 20200610; EP 2020066081 W 20200610; EP 20732202 A 20200610;
JP 2021573859 A 20200610; KR 20217039971 A 20200610; MX 2021015490 A 20200610; PE 2021001780 A 20200610;
PL 19180284 T 20190614; US 202017618795 A 20200610