

Title (en)
MULTI-OPERATION FRICTION DRILLING TOOL

Title (de)
MULTIFUNKTIONALER FLIESSBOHRER

Title (fr)
OUTIL DE FLUO-PERCAGE MULTI-OPÉRATIONS

Publication
EP 3680040 B1 20220427 (EN)

Application
EP 18789472 A 20180907

Priority
• PT 11028017 A 20170907
• IB 2018056842 W 20180907

Abstract (en)
[origin: EP3680040A1] Multioperation friction drilling tool allowing three different final operations to be performed in the same drilling: drilling, calibration and threading. The friction drilling tool of the present disclosure has a friction self-piercing segment, a calibration segment, a thread-opening segment and a stop segment. The calibration segment allows calibrated holes to be obtained, if that is the final objective, or preparing the hole for a thread-opening operation in the material drained on the walls of the already-calibrated hole, depending on the user's choice. An embodiment of the friction drilling multioperation tool sequentially comprises a plurality of distinct axial segments: a support segment, a thread-opening segment, a calibration segment of predetermined diameter and a friction self-piercing segment, which may comprise a cylindrical stop-spacer segment.

IPC 8 full level
B21J 5/06 (2006.01)

CPC (source: EP PT)
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Cited by
CN114682860A

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