

Title (en)
THREAD CLEARANCE

Title (de)
GEWINDESPIEL

Title (fr)
DÉGAGEMENT DE FIL

Publication
EP 4172455 A1 20230503 (EN)

Application
EP 21737073 A 20210629

Priority
• EP 20183128 A 20200630
• EP 2021067808 W 20210629

Abstract (en)
[origin: EP3933165A1] A female portion to form part of a thread joint for a percussive drilling tool comprising a mounting sleeve having an axial end, wherein the mounting sleeve surrounds an internal cavity having an axial inner wall at the opposing end of the mounting sleeve compared to the axial end; wherein the mounting sleeve has at least one substantially cylindrical internally threaded section having a length $L_{₁}$, a thread entrance towards the axial end and a thread exit towards the axial inner wall; a thread clearance section positioned between the axial inner wall and the thread exit having a length $L_{₂}$ and a diameter $D_{₁}$; a guiding section positioned between the thread entrance and the axial end of the sleeve having a length, $L_{₃}$; characterized in that: $0 < L_{₃} - L_{₂} < 12$.

IPC 8 full level
E21B 17/02 (2006.01); **E21B 17/042** (2006.01)

CPC (source: EP KR US)
E21B 17/02 (2013.01 - EP); **E21B 17/042** (2013.01 - EP); **E21B 17/0426** (2013.01 - EP KR US)

Citation (search report)
See references of WO 2022002911A1

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

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
EP 3933165 A1 20220105; AU 2021298830 A1 20230202; BR 112022026893 A2 20230124; CA 3179275 A1 20220106; CL 2022003779 A1 20230519; CN 115698463 A 20230203; EP 4172455 A1 20230503; JP 2023531271 A 20230721; KR 20230028299 A 20230228; MX 2022016467 A 20230201; PE 20230563 A1 20230404; US 2023272678 A1 20230831; WO 2022002911 A1 20220106

DOCDB simple family (application)
EP 20183128 A 20200630; AU 2021298830 A 20210629; BR 112022026893 A 20210629; CA 3179275 A 20210629; CL 2022003779 A 20221227; CN 202180040928 A 20210629; EP 2021067808 W 20210629; EP 21737073 A 20210629; JP 2022580423 A 20210629; KR 20227045169 A 20210629; MX 2022016467 A 20210629; PE 2022002973 A 20210629; US 202118013215 A 20210629