

Title (en)
THREAD CLEARANCE

Title (de)
GEWINDESPIEL

Title (fr)
DÉGAGEMENT DE FILETAGE

Publication
EP 3933165 A1 20220105 (EN)

Application
EP 20183128 A 20200630

Priority
EP 20183128 A 20200630

Abstract (en)
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 (applicant)
• US 4332502 A 19820601 - WORMALD PHILIP J, et al
• US 4398756 A 19830816 - DURET JEAN [FR], et al
• US 4687368 A 19870818 - EKLOF AANGSTROEM KE T [SE], et al
• DE 2800887 A1 19780713 - PADLEY & VENABLES LTD

Citation (search report)
• [X] US 4968068 A 19901106 - LARSSON L KENNETH [SE]
• [X] SE 520077 C2 20030520 - SANDVIK AB [SE]
• [X] WO 03042493 A1 20030522 - SANDVIK AB [SE], et al
• [X] US 3537738 A 19701103 - FISCHER HANS CHRISTIAN PEDER, et al
• [X] EP 2383420 A1 20111102 - SANDVIK INTELLECTUAL PROPERTY [SE]
• [X] WO 0138686 A1 20010531 - SANDVIK AB [SE]
• [X] WO 9602729 A1 19960201 - SANDVIK AB [SE], et al
• [A] WO 2007133145 A1 20071122 - SANDVIK INTELLECTUAL PROPERTY [SE], et al

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 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