

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  $L_{<sub>1</sub>}$ , 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  $L_{<sub>2</sub>}$  and a diameter  $D_{<sub>1</sub>}$ ; a guiding section positioned between the thread entrance and the axial end of the sleeve having a length,  $L_{<sub>3</sub>}$ ; characterized in that:  $0 < L_{<sub>3</sub>} - L_{<sub>2</sub>} < 12$ .

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

CPC (source: EP KR US)  
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Citation (applicant)  
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• US 4398756 A 19830816 - DURET JEAN [FR], et al  
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• DE 2800887 A1 19780713 - PADLEY & VENABLES LTD

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• [X] SE 520077 C2 20030520 - SANDVIK AB [SE]  
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• [X] WO 0138686 A1 20010531 - SANDVIK AB [SE]  
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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)  
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**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