

Title (en)
PERCUSSION DRILL BIT WITH WEAR INSERTS

Title (de)
SCHLAGBOHRER MIT VERSCHLEISSEINSÄTZEN

Title (fr)
TRÉPAN À PERCUSSION AVEC INSERTS D'USURE

Publication
EP 3690180 A1 20200805 (EN)

Application
EP 19154474 A 20190130

Priority
EP 19154474 A 20190130

Abstract (en)
A percussion drill bit (1) with radial support means for guiding of the drill bit (1) within a bore of a formation. The drill bit (1) comprises a head (2) and a shaft (3) extending from the head (2) rearwards along a longitudinal axis (4) of the drill bit (1), wherein the head (2) is provided with drilling inserts (5), wherein the head (2) is shaped and sized to define a drilling diameter with a first radial distance (6) to the longitudinal axis (4) of the drill bit (1), wherein the shaft (3) is provided with a plurality of radially extending wear inserts (7) distributed around the circumference of the shaft (3), wherein the wear inserts (7) protrude equally far from the longitudinal axis (4) of the drill bit (1), and the second radial distance (8) is within the range of 93-97% of the first radial distance (6).

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

CPC (source: EP)
E21B 10/36 (2013.01); **E21B 17/0426** (2013.01); **E21B 17/1092** (2013.01)

Citation (applicant)
WO 2015175285 A1 20151119 - DOVER BMCS ACQUISITION CORP [US]

Citation (search report)
• [Y] US 4106578 A 19780815 - BEYER LEAMAN REX
• [Y] WO 2006054933 A1 20060526 - SANDVIK INTELLECTUAL PROPERTY [SE], et al
• [Y] US 2001018990 A1 20010906 - ASBERG BENGT [SE], et al
• [Y] US 5743345 A 19980428 - HOLLAR CHARLES D [US], 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)
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DOCDB simple family (application)
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