

Title (en)  
BORING ASSEMBLY AND ASSOCIATED BORING METHOD

Title (de)  
BOHRANORDNUNG UND ZUGEHÖRIGES BOHRVERFAHREN

Title (fr)  
ENSEMBLE DE FORAGE ET PROCÉDÉ DE FORAGE ASSOCIÉ

Publication  
**EP 3735507 B1 20240214 (FR)**

Application  
**EP 19700057 A 20190104**

Priority  
• FR 1850103 A 20180105  
• EP 2019050139 W 20190104

Abstract (en)  
[origin: WO2019134956A1] This boring assembly (10) extends along a main axis (A – A') and comprises: • - a boring head (18) comprising: • + at least one first nozzle (20); • + at least one second nozzle (22), the or each second nozzle being different from the or each first nozzle; • - a first delivery device (26) configured to deliver a jet of abrasive-free water at a pressure comprised between 2000 bar and 4000 bar to the at least one first nozzle; • - a second delivery device (28) configured to deliver a jet containing at least one abrasive material at a pressure comprised between 2000 bar and 6000 bar to the at least one second nozzle.

IPC 8 full level  
**E21B 7/18** (2006.01); **B26F 3/00** (2006.01); **E04G 23/08** (2006.01); **E21B 10/60** (2006.01)

CPC (source: EP US)  
**E21B 7/16** (2013.01 - US); **E21B 7/18** (2013.01 - EP US); **E21B 7/24** (2013.01 - US); **E21B 10/60** (2013.01 - EP); **E21B 21/065** (2013.01 - US)

Citation (examination)  
US 2868509 A 19590113 - WILLIAMS PHILIP S

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

DOCDB simple family (publication)  
**WO 2019134956 A1 20190711**; EP 3735507 A1 20201111; EP 3735507 B1 20240214; FR 3076568 A1 20190712; FR 3076568 B1 20201127; JP 2021510187 A 20210415; JP 7266606 B2 20230428; US 11384602 B2 20220712; US 2020347679 A1 20201105

DOCDB simple family (application)  
**EP 2019050139 W 20190104**; EP 19700057 A 20190104; FR 1850103 A 20180105; JP 2020537179 A 20190104; US 201916960038 A 20190104