

Title (en)
EXCAVATION TOOL

Title (de)
AUSGRABUNGSWERKZEUG

Title (fr)
OUTIL D'EXCAVATION

Publication
EP 3517725 A4 20200513 (EN)

Application
EP 16916796 A 20160923

Priority
JP 2016078016 W 20160923

Abstract (en)
[origin: EP3517725A1] A drilling tool has a tool main body including a fitting hole portion and a striking force being applied to a tip side in an axial, and a fitting member including a fitting shaft portion, wherein the fitting shaft portion has a recessed groove, a locking pin is inserted into a pin hole provided in the tool main body, and is locked by the recessed groove, a fixing member for retaining the locking pin is fitted to an opening portion of the pin hole, a locking portion for locking the fixing member in a pin hole center line direction is provided in the opening portion, a recess is provided on an outer peripheral surface of the tool main body adjacent to the opening portion of the pin hole, the recess has an auxiliary member having a side surface capable of coming into contact with a side surface facing the recess of the fixing member and maintaining a locked state between the fixing member and the locking portion, and when viewed in a center line direction of the pin hole, a straight line connecting a center of the recess and a pin hole center line to each other extends in a direction intersecting an axis of the tool main body.

IPC 8 full level
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CPC (source: EP US)
E21B 10/327 (2013.01 - EP US); **E21B 10/633** (2013.01 - EP)

Citation (search report)

- [XAI] JP 4957440 B2 20120620
- [XI] WO 2016027739 A1 20160225 - MITSUBISHI MATERIALS CORP [JP]
- [A] JP 2004076370 A 20040311 - MITSUBISHI MATERIALS CORP
- See references of WO 2018055728A1

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)
EP 3517725 A1 20190731; **EP 3517725 A4 20200513**; **EP 3517725 B1 20210728**; WO 2018055728 A1 20180329

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