

Title (en)  
DRILL FOR CHISELING STONE

Title (de)  
BOHRER FÜR DIE MEISSELNDE BEARBEITUNG VON GESTEIN

Title (fr)  
FORET POUR LE TRÉPANAGE DE ROCHE

Publication  
**EP 3645229 A1 20200506 (DE)**

Application  
**EP 18731458 A 20180619**

Priority  
• EP 17178102 A 20170627  
• EP 2018066259 W 20180619

Abstract (en)  
[origin: WO2019002025A1] The invention relates to a drill (1) for chiseling stone, the drill having an impact surface (7) on an insertion end (6), a hollow shaft (4) inside which a conveying duct (35) is provided, and a drill head (2). The drill head (2) has three or more blades (14) and one or more intake openings (3) on an end face (12). Inside the drill head (2) are intake ducts (30) which connect the intake openings (3) to the conveying duct (35). In at least one of the intake ducts (30), a first portion (32) of the intake duct (30) bordering the intake opening (3) has a first inclination relative to the drill axis (11) and a second portion (33) of the intake duct (30) bordering the hollow shaft (4) has a second inclination relative to the drill axis (11). The second inclination is larger than the first inclination.

IPC 8 full level  
**B28D 1/14** (2006.01); **B23B 51/00** (2006.01); **B28D 7/02** (2006.01)

CPC (source: EP US)  
**B25D 17/02** (2013.01 - EP US); **B28D 1/146** (2013.01 - EP); **B28D 7/02** (2013.01 - EP); **B25D 2217/0003** (2013.01 - EP US); **B25D 2217/0057** (2013.01 - US); **B25D 2222/72** (2013.01 - US)

Citation (search report)  
See references of WO 2019002025A1

Cited by  
US2020156163A1; US11691204B2

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 3421205 A1 20190102**; CN 110799316 A 20200214; CN 110799316 B 20211221; EP 3645229 A1 20200506; EP 3645229 B1 20210728; JP 2020525678 A 20200827; JP 6925456 B2 20210825; US 11850716 B2 20231226; US 2020215674 A1 20200709; WO 2019002025 A1 20190103

DOCDB simple family (application)  
**EP 17178102 A 20170627**; CN 201880042833 A 20180619; EP 18731458 A 20180619; EP 2018066259 W 20180619; JP 2019572094 A 20180619; US 201816626184 A 20180619