

Title (en)

DRILLING TOOL AND DEVICE WITH SELF-MAINTAINED AXIAL VIBRATIONS

Title (de)

BOHRWERKZEUG UND VORRICHTUNG MIT SELBST AUFRECHTERHALTENEN AXIALEN SCHWINGUNGEN

Title (fr)

DISPOSITIF ET OUTIL DE PERCAGE A VIBRATIONS AXIALES AUTO-ENTRETENUES

Publication

EP 2021143 A1 20090211 (FR)

Application

EP 07728983 A 20070510

Priority

- EP 2007054531 W 20070510
- FR 0651773 A 20060517

Abstract (en)

[origin: WO2007131936A1] In order to effect drilling without any risk of blockage of the cutting tool used, a drilling device uses means for producing a self-maintained axial vibration of the tool that has the effect of breaking up the swarf of the material removed from the hole in order to facilitate discharge thereof. The means for producing the self-maintained axial vibration are also such that the spindle of the tool can have a direction substantially different from the rotation axis of the means used for rotating the tool. Such a device is particularly advantageous for producing deep holes or during the use of cutting tools producing asymmetric cutting forces. In a particularly advantageous embodiment, the means for producing the self-maintained axial vibration and for enabling the rotation axis of the tool to have a direction substantially different from the rotation axis of the drive means form part of the cutting tool.

IPC 8 full level

B23B 47/34 (2006.01)

CPC (source: EP US)

B23B 29/125 (2013.01 - EP US); **B23B 31/08** (2013.01 - EP US); **B23B 47/34** (2013.01 - EP US); **Y10T 408/23** (2015.01 - EP US)

Citation (search report)

See references of WO 2007131936A1

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DOCDB simple family (publication)

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