

Title (en)

A ROCK DRILLING SYSTEM FOR GEOTHERMAL DRILLING, A METHOD AND USE OF SUCH A ROCK DRILLING SYSTEM

Title (de)

GESTEINSBOHRSYSTEM FÜR GEOTHERMISCHES BOHREN, VERFAHREN UND VERWENDUNG EINES SOLCHEN GESTEINSBOHRSYSTEMS

Title (fr)

SYSTÈME DE FORAGE DE ROCHE POUR FORAGE GÉOTHERMIQUE, PROCÉDÉ ET UTILISATION D'UN TEL SYSTÈME DE FORAGE DE ROCHE

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Application

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Abstract (en)

[origin: WO2020148333A1] The invention relates to a rock drilling system (10) for geothermal drilling. The rock drilling system (10) comprises a drilling rig (2) with a drill string (22) and a drilling hammer (4) for drilling a borehole (9); at least one air compressor (1) configured for driving the drilling hammer (4) and supplying compressed air into the borehole (9) via the drill string (22); a conveying chamber arrangement (3) configured to be arranged at a ground surface (12), wherein the conveying chamber arrangement (3) is configured to encircle the drill string (22) and to be connected to a borehole casing (44). The rock drilling system (10) further comprises an extraction device (5) connected to the conveying chamber arrangement (3) to draw air containing drill cuttings from the borehole (9), thereby controlling the flow of air upwards through the borehole (9). The invention also relates to a use of such a rock drilling system (10) for generation of geothermal energy and a method for geothermal drilling with such a rock drilling system (10).

IPC 8 full level

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Citation (search report)

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