

Title (en)

DRILLING SYSTEM FOR RECOVERING NEARLY UNDISTURBED DRILL CORES FROM LOOSE TO SOLID GROUND

Title (de)

BOHRSYSTEM ZUM BERGEN VON NAHEZU UNGESTÖRTEN BOHRKERNEN AUS LOCKEREM BIS FESTEM GRUND

Title (fr)

SYSTÈME DE FORAGE POUR RÉCUPÉRER D'ÉCHANTILLON DE CAROTTE PRESQUE NON DÉTRESSÉS D'UN SOL MOBILE À PLEIN

Publication

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Application

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Priority

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Abstract (en)

[origin: CA3194478A1] The apparatus is operated with a conventional rotary drive with a pile driver hammer. The torque and the blows of the drill head are transmitted to a drilling starting pipe (8) with a drill bit. Within the rotating starting pipe (8) there is a non-rotating sleeve (17). It is applied at the bottom to the inner side of the drill bit rotating beneath it. As a particular feature, the sleeve (17) is connected in terms of compressive and tensile force via a sleeve adapter (21) to axially successive parts that are rotatable with respect to one another and a pressurizing, flushing and recovering pipe DSB (19), connected to said parts, with the rotating drill head. The DSB (19) rotates together with the drill head and the drill pipe, and the sleeve adapter (21) connects to the non-rotating sleeve (17). With the DSB, first of all the sleeve (17) is pressurized from above, secondly flushing is effected, in that the flushing water for the bore is guided in the DSB (19) and is pressed outwardly out of the sleeve (17), and thirdly the recovery of the sleeve (17) is enabled, for an approximately intact drilling sample.

IPC 8 full level

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