

Title (en)
SEDIMENT CORE-BORING DRILLING PROCESS SUITABLE FOR SUBMARINE ROPE CORE-BORING DRILL

Title (de)
SEDIMENTKERNBOHRUNGSVERFAHREN FÜR UNTERSEESEILKERNBOHRER

Title (fr)
PROCÉDÉ DE CAROTTAGE DE SÉDIMENTS ADAPTÉ À UN CAROTTIER À CÂBLE SOUS-MARIN

Publication
EP 3690182 B1 20211124 (EN)

Application
EP 19849850 A 20190427

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Abstract (en)
[origin: EP3690182A1] Disclosed is a sediment core-drilling process for a submarine wire-line coring drill rig, including 1) lowering the drill rig; 2) drilling in a pressure-suction mode; 3) drilling in a rotation-pressure-suction mode; 4) cutting sediment cores; 5) recovering a core inner tube; 6) cleaning bottom of hole; 7) punching before adding a drill pipe; 8) lowering another core inner tube; 9) adding the drill pipe; 10) punching after adding the drill pipe; 11) repeating the steps 2)-10) until a given hole depth is reached; 12) recovering the drill pipe and a wire-line coring outer tube drilling tool; 13) recovering the submarine wire-line coring drill rig. The core-drilling process provided herein is suited to working conditions without mud lubrication and mud protection for hole wall. This invention has advantages of low disturbance and high efficiency in coring and is suitable for remote operation.

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Cited by
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