

Title (en)
UNDERWATER DRILLING DEVICE AND METHOD FOR OBTAINING AND ANALYSING SOIL SAMPLES OF THE BED OF A BODY OF WATER

Title (de)
UNTERWASSER-BOHRVORRICHTUNG UND VERFAHREN ZUM BESCHAFFEN UND ANALYSIEREN VON BODENPROBEN EINES
GEWÄSSERBODENS

Title (fr)
DISPOSITIF DE FORAGE IMMERGÉ ET PROCÉDÉ D'OBTENTION ET D'ANALYSE D'ÉCHANTILLONS DE SOL DU FOND D'UN PLAN D'EAU

Publication
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Application
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Abstract (en)
[origin: WO2015172818A1] The invention relates to an underwater drilling device and a method for obtaining and analysing soil samples of the bed of a body of water. An underwater drilling device with a base frame is lowered in a body of water and placed on the bed of a body of water. With a drilling drive that is mounted on the base frame and able to move vertically, a drill string consisting of at least one tubular drill string element is drilled into the bed of the body of water in a first drilling step, wherein a core sample is accommodated in a holder in the tubular drill string element. The holder with the core sample is stored in a storage location of a second storage region on the base frame. Subsequently, at least one further drilling step is carried out with a further drill string element. By means of at least one sensor device arranged on a base frame in a surrounding area of the drilling axis, at least one physical and/or chemical property of the core sample is determined. The data thus determined is saved in a data processing device together with data relating to the storage location of the core sample in the second storage region.

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