

Title (en)
Borehole boring method and machine

Title (de)
Werkzeug und Verfahren zum Bohren eines Bohrloches

Title (fr)
Procédé et outil de forage d'un trou

Publication
EP 0741227 B1 20030813 (EN)

Application
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Priority
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Abstract (en)
[origin: EP0741227A2] A pilot hole (6) is drilled in a ground (1) by a first drilling unit having a rotary table (3) and a down-the-hole drill (2) (see FIG. 1A). A guide rod (7) is inserted into the pilot hole (6). A second drilling unit (8) is then mounted on the guide rod (7). This second drilling unit (8) is provided with an earth drilling bucket (19a) for drilling the ground (1), hydraulic cylinders (60) for fixing a stationary unit (10) of the second drilling unit on a wall of a target borehole (7a) in the ground (1), and another hydraulic cylinder (21) for causing the earth drilling bucket (19a) to advance. Drilling reaction force during boring work can thus be supported by both the wall of the target borehole (7a) and the guide rod (7). While being rotated, the earth drilling bucket (19a) is caused to advance over a distance corresponding to a stroke of the hydraulic cylinder (21). This operation is repeated until the target borehole (7a) is formed over its entire length. <IMAGE>

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