

Title (en)  
Hydraulic drilling apparatus and method

Title (de)  
Vorrichtung und Verfahren zum hydraulischen Bohren

Title (fr)  
Dispositif et procédé pour le forage hydraulique

Publication  
**EP 1600602 A2 20051130 (DE)**

Application  
**EP 05010058 A 20050509**

Priority  
DE 102004026234 A 20040528

Abstract (en)  
A tube (2) with a boring crown (3) at its lower end is rotated and lowered vertically to make a narrow vertical bore (31). A cutting arrangement (46) near the bottom of the tube has a fixed sideways-extending tube (6) with a fluid jet nozzle (7). This enlarges the bore radius (23) to slightly more than the radius swept out by the end of the tube. A long tube (8) with a fluid jet nozzle (10) may swing from a resting place (8a) inside the drilling tube to a deployed position where it sweeps out an enlarged radius (24). A powerful fluid jet from the nozzle cuts out the bore to an even larger radius (25), forming a cavity to accommodate the foot of a concrete pile.

Abstract (de)  
Die Erfindung betrifft eine Vorrichtung und ein Verfahren zum Bearbeiten des Bodens. Dabei wird ein Abbaugestänge in den Boden eingebracht. Über einen ausstellbaren Schwenkarm wird eine Flüssigkeit in den Boden injiziert, wodurch Bodenmaterial gelöst wird. <IMAGE>

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**E21B 43/29**; **E21B 7/18**

IPC 8 full level  
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