

A HEAD FOR INJECTING A FLUID UNDER PRESSURE TO BREAK UP  
GROUND FROM A BOREHOLD

A B S T R A C T

5           The present invention provides a head (30) for  
injecting a fluid under pressure for breaking up the  
ground from a borehole and mounted at the end of a string  
of rods. The body of the drilling head has a bottom wall  
10 for mounting a mechanical drilling tool having a feed  
pipe (84), at least one injection nozzle, and duct-  
forming means (50) for connecting the feed pipe with  
liquid at the inlet of said nozzle, the duct-forming  
means (50) presenting a mean line having a radius of  
15 curvature that varies continuously, the right section of  
said duct-forming means (50) decreasing regularly over at  
least half its length from its first end towards its  
second end. The injection head further comprises at  
least one pipe (52, 54) for feeding said mechanical tool,  
20 said pipe being connected at a first end to said duct-  
forming means (50) and at a second end to a chamber (56)  
disposed at the bottom end of said injection head and  
fitted with a controllable shutter member (66) interposed  
between said chamber (56) and the pipe (84) for feeding  
25 said mechanical tool.

FIG. 2