

Title (en)

SELF-STEERING DRILL STRING PIPE FOR ROTATING DRILL STRINGS OF ROCK DRILLING MACHINES

Publication

EP 0324870 B1 19910710 (DE)

Application

EP 88100657 A 19880119

Priority

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Abstract (en)

[origin: EP0324870A1] In a self-steering drill string pipe (1) for rotating drill strings of rock drilling machines which has an inner drilling shaft (2) with a flushing channel (4), which inner drilling shaft (2) can be connected to the drill string and the drilling tool, and a housing (10) which is mounted on this drilling shaft (2) in such a way as to be rotationally movable about the drilling shaft (2) and on which swing-out control strips (11-14) are arranged on the outside and in which the parts of the hydrostatic drives (24) acting on the control strip as well as the electronic (20) and electric control system are accommodated, the power requirement being produced by the rotary movement during the drilling operation, provision is made according to the invention for an annular space (26) to be present between the drilling shaft (2) and the housing (10), which annular space (26) has a radial connection (27) to the flushing channel of the drilling shaft and is closed off at both ends by one rotary non-return valve (28, 29) each sealing against the borehole flushing fluid, and for the annular space (26) to serve as a tank for the working fluid of the hydraulic system, which working fluid is formed by the borehole flushing fluid.

IPC 1-7

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IPC 8 full level

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CPC (source: EP US)

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Cited by

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