

Title (en)

DEVICE FOR TIGHTLY CLOSING BOREHOLES THAT ARE SUBJECTED TO THE ACTION OF PRESSURE MEDIUM

Title (de)

VORRICHTUNG ZUM DICHTEN VERSCHLIESSEN VON DRUCKMITTELBEAUFSCHLAGTEN BOHRUNGEN

Title (fr)

DISPOSITIF POUR OBTURER DE MANIERE ETANCHE DES ALESAGES SOLLICITES EN PRESSION

Publication

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Application

EP 02701187 A 20020111

Priority

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- DE 10102452 A 20010115

Abstract (en)

[origin: WO02055911A2] According to the invention, the piston (13) is suddenly driven out due to the action of the compressed air that is conducted into the cylinder (12), whereby displacing, via the piston rod (11) and the punch (10), the impact pin (4) against the stopper (3) that is inserted inside area (2b) of the borehole (2). The stopper (3) is both driven into area (2a) of the borehole (2) as well as pressed against the wall of the area (2b) of the borehole (2) due to the suddenly effective energy of the elements of the system (piston piston rod punch) that are placed in motion. The portions of energy reflected during impact, i.e. the rebound, are directed via the slide (14) into the spring (16) in which they are absorbed by means of elastic deformation. A gap briefly occurs between the slide (14) and the stop (17). The tension of the spring (16) that can be adjusted by the adjusting nut (18) is used to establish the extent of the magnitude of the rebound energy, which is absorbed by the spring and which is thus not available for deforming the stopper (3). In the event of a low spring tension, the portion of energy, which does not act upon the stopper (3), is greater than in the event of a high spring tension. This enables a fine dosing of the impact work acting upon the stopper (3).

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F16J 1/00

IPC 8 full level

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