

Title (en)
SLUDGER.

Title (de)
BOHRLOCHPUMPE.

Title (fr)
POMPE A TROUS DE MINE.

Publication
EP 0668969 A1 19950830 (DE)

Application
EP 93924559 A 19931030

Priority
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Abstract (en)
[origin: DE4237050A1] In the state of the art, sludgers for pumping visquous fluids in which a lower viscosity solvent liquid is added to the fluid are filled with the visquous fluid when they are sunk into the borehole. In order to start the sludger, therefore, a high starting torque caused by the unmixed visquous fluid must be overcome. In order to reduce the starting torque, a shutting-off device (19) is arranged before the actual pump inlet (18) for closing the sludger during sinking and preventing the entrance of visquous fluid. The shutting-off device is particularly useful for a turbopump in which the driving liquid of the turbine is used as liquid solvent, whereas the shutting-off device is hydraulically actuated by means of the driving liquid.

IPC 1-7
F04D 13/04; **F04D 13/10**; **F04D 15/00**; **E21B 43/12**; **E21B 34/10**

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CPC (source: EP US)
E21B 34/10 (2013.01 - EP US); **E21B 43/121** (2013.01 - EP US); **F04D 13/04** (2013.01 - EP US); **F04D 13/10** (2013.01 - EP US); **F04D 15/0022** (2013.01 - EP US)

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Designated contracting state (EPC)
DE GB

DOCDB simple family (publication)
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