

Title (en)

METHOD FOR CONTROLLING THE PRESSURE OF A CONFINING FLUID IN A CONVEYOR AND A CONVEYOR FOR SUCH A METHOD

Title (de)

VERFAHREN ZUR DRUCKREGELUNG EINES SPERRMEDIUMS IN EINER FÖRDEREINRICHTUNG UND FÖRDEREINRICHTUNG FÜR EIN DERARTIGES VERFAHREN

Title (fr)

PROCÉDÉ DE RÉGLAGE DE LA PRESSION D'UN FLUIDE DE BLOCAGE DANS UN DISPOSITIF DE CONVOYAGE ET DISPOSITIF DE CONVOYAGE POUR UN TEL PROCÉDÉ

Publication

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Application

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Abstract (en)

[origin: US9303654B2] A method for the pressure regulation of a barrier fluid in a pumping device (10) is introduced, which includes a pump unit (11) with a shaft (12) and a pump housing (13), a drive unit (17), which is mechanically coupled to the pump unit and a shaft sealing arrangement (16.1, 16.2), which seals the pump housing (13) relative to the shaft (12). In the method, a pumping medium is pumped by means of the pumping device (10) and the barrier fluid is conveyed via a feed line (5.1, 5.2) to a common housing (18), in which the pump unit (11) and the drive unit (17) are arranged, in order to prevent a leakage of the pumping medium out of the pump housing (13). Additionally, the pressure of the supplied barrier fluid is increased when a pressure difference between the pressure of the supplied barrier fluid and a detected pressure of the pumping medium in the pump unit (11) falls below a pre-determined value. For this purpose a pressure reducing valve (1) for the differential-pressure is opened and the feed line is connected through to a source (3, 4) for the barrier fluid via the open valve, the pressure of which lies by more than the pre-determined value above the pressure of the pumping medium in the pump unit.

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