

Title (en)
CENTRIFUGAL PUMP AND METHOD FOR VENTING

Title (de)
KREISELPUMPENAGGREGAT UND VERFAHREN ZUM ENTLÜFTEN

Title (fr)
POMPE CENTRIFUGE ET PROCÉDÉ DE PURGE D'AIR

Publication
EP 3293397 B1 20181024 (DE)

Application
EP 16188626 A 20160913

Priority
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Abstract (en)
[origin: US2018073509A1] A centrifugal pump assembly (2) includes an impeller, an electric drive motor (4), driving the impeller (12), and a back-flow channel (24), forming a flow connection from a delivery side (18) to a suction side (16). A valve (26), in a pressure-dependent manner, closes the flow connection. A control device (28) adjusts/sets the speed (n) of the drive motor (4), and is configured with a venting function for venting the centrifugal pump assembly (2) on operation. According to the venting function, after the detection of an air accumulation, the speed (n) of the drive motor (4) is automatically reduced, and subsequently the speed (n) is rapidly increased again. A method is also provided for removing an air accumulation from a centrifugal pump assembly during operation, which method includes reducing the speed (n) of the centrifugal pump assembly and subsequently rapidly increasing the speed (n) of the centrifugal pump again.

IPC 8 full level
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CN113898591A; EP3929445A1; US11746795B2

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