

Title (en)  
CENTRIFUGAL PUMP

Title (de)  
ZENTRIFUGALPUMPE

Title (fr)  
POMPE CENTRIFUGE

Publication  
**EP 3821131 A4 20220330 (EN)**

Application  
**EP 19834912 A 20190513**

Priority  
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Abstract (en)  
[origin: WO2020013729A1] A centrifugal pump contains an impeller mounted in a housing, inlet and discharge chambers of the pumped medium, a jet ejector device with an inlet channel for supplying the medium from the chamber to the impeller, a nozzle, a tube and a channel. The nozzle is installed in alignment with the channel and connected to the chamber with its inlet. The tube is arranged in the chamber. The pump has a valve made with a seat and a spring-mounted and membrane-fixed shut-off control element. In the housing, a bypass channel is made hydraulically parallel to the nozzle. The flow-type control cavity is formed by the membrane and connected to the chamber with through holes and, and to the inlet nozzle. The valve seat is made on the edge of the bypass channel. The invention is designed to decrease the size and weight of the pump through optimum implementation of the valve and nozzle.

IPC 8 full level  
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CPC (source: EP RU)  
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Citation (search report)  
• [A] US 2457388 A 19481228 - LUNG KENNETH R  
• [A] EP 0645541 A1 19950329 - STUEBBE ASV GMBH [DE]  
• [A] DE 2504292 A1 19760805 - BOUS EWALD  
• See also references of WO 2020013729A1

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