

Title (en)  
PUMP, RECIRCULATING DEVICE FOR A PUMP AND ROTOR SHAFT FOR A PUMP

Title (de)  
PUMPE, SOWIE EINE REZIKULATIONSEINRICHTUNG FÜR EINE PUMPE

Title (fr)  
POMPE, INSTALLATION DE RECIRCULATION POUR UNE POMPE ET ARBRE DE ROTOR POUR UNE POMPE

Publication  
**EP 2626563 B1 20200603 (DE)**

Application  
**EP 12176181 A 20120712**

Priority  
• EP 12154903 A 20120210  
• EP 12176181 A 20120712

Abstract (en)  
[origin: EP2626564A1] The pump (1) has a pump rotor (4) rotatably supported around a rotational axis (A) in a pump stator (3) in an operating state, and a rotor shaft (5) arranged in a shaft feedthrough (6) such that a lubricating film of a lubricating fluid is formed in a ring gap between the shaft and the feedthrough. A separation device (7) is arranged at the shaft for separating a predefinable quantity of an ingredient from pump fluid (2) by centrifugal force for providing the lubricating fluid to the gap. A recirculation device (8) is arranged such that gas (201) is recirculated with the separation device. The separation device is designed as a separation disk.

IPC 8 full level  
**F04D 7/04** (2006.01); **F04D 29/06** (2006.01)

CPC (source: EP US)  
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