

Title (en)  
Centrifugal pump with backflow prevention valve.

Title (de)  
Kreispumpe mit dem Rückfluss verhinderndem Ventil.

Title (fr)  
Pompe centrifuge avec clapet de non-retour.

Publication  
**EP 0664398 A1 19950726 (DE)**

Application  
**EP 95100590 A 19950118**

Priority  
DE 4401658 A 19940121

Abstract (en)  
The pump has the delivery medium emerging from the last stage is pressed into a ring space (13) surrounding the stages, from which it flows to the outlet. The back flow valve (10-12) is arranged abutting the ring space. It is arranged in the flow direction behind the pump, partic. behind the last pump stage, and near the bearing and/or the shaft seal (5) which is turned away from the pump suction and pressure connections (6, 7). The back flow valve surrounds a chamber (9) with a ring membrane (12), into which the pump and partic. the last pump stage delivers. The support surface for the ring membrane is formed by an externally conically formed support part (10) with through flow apertures (11) located inside the ring membrane.

Abstract (de)  
Die Erfindung betrifft eine Kreispumpe, insbesondere mehrstufige Inlinepumpe mit die Laufradwelle tragenden Lagern 4, bzw. Dichtungen 5 und mit einem den Rückfluß verhindernden Ventil 10-12, wobei das aus der letzten Stufe austretende Fördermedium in einen die Stufe(n) umgebenden Ringraum 13 gedrückt wird, von dem es zum Auslaß hin strömt, wobei das Rückflußventil 10-12 im Ringraum insbesondere angrenzend an den Ringraum angeordnet ist. <IMAGE>

IPC 1-7  
**F04D 15/00**; **F04D 1/06**

IPC 8 full level  
**F04D 1/06** (2006.01); **F04D 15/00** (2006.01)

CPC (source: EP)  
**F04D 1/066** (2013.01); **F04D 15/0083** (2013.01)

Citation (search report)

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