

Title (en)  
DUAL-FLOW CENTRIFUGAL PUMP

Title (de)  
DOPPELFLUTIGE KREISELPUMPE

Title (fr)  
POMPE CENTRIFUGE DOUBLE FLUX

Publication  
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Application  
**EP 11723310 A 20110509**

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Abstract (en)  
[origin: WO2011157485A1] The invention relates to a double-flow centrifugal pump, in particular a cooling water pump for a marine diesel engine or ballast water delivery pump, having a pump housing (2) and having a double-flow impeller (7) rotationally fixedly arranged on a rotationally driven shaft (3), wherein using said impeller a fluid can be suctioned from two axial sides from a negative pressure area (10) and can be delivered in the radial direction into a positive pressure area (11), wherein the negative pressure area (10) is sealed off with respect to the positive pressure area (11) by means of at least two sealing gaps (19, 20) which are spaced apart axially from each other and which are formed between the impeller (7) and at least one stationary pump component (23), in particular the pump housing (2) and/or an insert part (24). According to the invention, the sealing gaps (19, 20) are formed as axial gaps arranged axially between the impeller (7) and the pump component (23) and extending in the circumferential direction and in the radial direction, wherein the gap width (s) of said axial gaps is less than the radial spacing (a) of the impeller (7) from all the components arranged with a radial spacing from the impeller (7).

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