

Pump for conveying a highly viscous fluid

Abstract:

5 A pump for conveying a highly viscous fluid is proposed comprising a casing
(2) with at least a first inlet (3) and an outlet (4) for the fluid, an impeller (5) for
conveying the fluid from the inlet (3) to the outlet (4), wherein the impeller (5)
is arranged on a rotatable shaft (6) for rotation around an axial direction (A),
and comprises a front shroud (7) facing the first inlet (3) of the pump, wherein
10 the casing (2) is provided with a stationary impeller opening (8) for receiving
the front shroud (7) of the impeller (5) and having a diameter (D), wherein the
front shroud (7) and the stationary impeller opening (8) form a gap (9) having
a width (R) in a radial direction perpendicular to the axial direction (A),
wherein the ratio of the width (R) of the gap (9) and the diameter (D) of the
impeller opening (8) is at least 0.0045.

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(Fig. 1)