

Pump for conveying a highly viscous fluid

Abstract:

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 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 length (L) in the axial direction (A), wherein the ratio of the length (L) of the gap (9) and the diameter (D) of the impeller opening (8) is at most 0.092.

(Fig. 1)