

Abstract of disclosure

Pump for the conveyance of a fluid with varying viscosity

5 A pump for the conveyance of a fluid with varying viscosity is suggested which has a housing (2) having an inlet (3) and having an outlet (4) for the fluid to be conveyed, as well as having at least one impeller (7) for conveying the fluid from the inlet (3) to the outlet (4), the impeller being arranged on a rotatable shaft (5), as well as having a balance drum (6) for the relief of axial thrust, wherein the balance
10 drum (6) comprises a rotor (61) rotationally fixedly connected to the shaft (5), the rotor having a high pressure side (65) and a low pressure side (65), a stator (62) stationary with respect to the housing (2) and a relief passage (63) that extends between the rotor (61) and the stator (62) from the high pressure side (65) up to the low pressure side (64) of the rotor (61); and wherein a return passage (8) is
15 further provided which connects the low pressure side (63) of the rotor (61) to the inlet (3), wherein at least one intermediate passage (9, 9') is provided which opens into the relief passage (63) between the high pressure side (65) and the low pressure side (64) of the rotor (61); and wherein a blocking member (10, 10') is provided for the influencing of the flow through the intermediate passage (9, 9').

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(Fig. 1)