

Title (en)
CENTRIFUGAL PUMP WITH SLIDING ROTOR

Title (de)
KREISELPUMPE MIT VERSCHIEBBAREM ROTOR

Title (fr)
POMPE CENTRIFUGE À ROTOR COULISSANT

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Application
EP 16733866 A 20160506

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Abstract (en)
[origin: WO2016179619A1] The invention relates to a centrifugal pump (1), in particular a water pump, which is designed as a radial pump or a mixed flow pump, comprising an impeller (3) which is arranged in a housing (2) in a rotatable manner about an axis (8), is connected to a driveshaft (7), and has an impeller main part (4) that has impeller blades (6) and an impeller covering body (5). The impeller main part (4) and the impeller covering body (5) can be moved axially relative to each other via an adjusting device (22). In order to achieve an active and reliable regulation of the centrifugal pump (1) over the entire rotational speed and temperature range with very low drive power, the impeller main part (4) is arranged on the driveshaft (7) or the impeller covering body (5) in an axially movable manner, and the adjusting device (22) is operatively connected to the impeller main part (4).

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