

Title (en)

CONTROLLING THE GAP GEOMETRY IN AN ECCENTRIC SCREW PUMP

Title (de)

REGELUNG DER SPALTGEOMETRIE IN EINER EXZENTERSCHNECKENPUMPE

Title (fr)

RÉGULATION DE LA GÉOMÉTRIE D'ÉCARTEMENT DANS UNE POMPE À VIS EXCENTRIQUE

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Application

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Abstract (en)

[origin: WO2018130718A1] The invention relates to an eccentric screw pump (1) for delivering liquids loaded with solids, having a rotor (4) wound helically, a stator (2), having an inlet (10) and an outlet (12), in which the rotor (4) is rotatably arranged about a longitudinal axis (L1) of the stator, and which has a screw-like inner wall (8) corresponding to the rotor (4), wherein the rotor has a form tapering toward the outlet (12) or the inlet (10), preferably a conical form and/or a varying eccentricity (e1, e2), and wherein rotor (4) and stator (2) are arranged relative to each other and formed such that at least one chamber (5) is formed, which is used for conveying the liquid, and the chamber is separated off by a narrowing (7) in particular a sealing line (D). The invention is characterized by an adjusting device for adjusting an axial relative position of rotor (4) and stator (2), wherein the adjusting device (39) is designed to widen the narrowing (7) between rotor (4) and stator (2).

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