

Title (en)
ECCENTRIC SCREW PUMP WITH A MODULAR DESIGN

Title (de)
EXZENTERSCHNECKENPUMPE IN MODULARER BAUWEISE

Title (fr)
POMPE À CAVITÉ PROGRESSIVE PRÉSENTANT UNE STRUCTURE MODULAIRE

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Application
EP 21736956 A 20210601

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Abstract (en)
[origin: WO2021244688A1] The invention relates to an eccentric screw pump with a rotor, which forms a conveyor screw, and a stator, which forms a screw thread and in which the rotor circulates during a conveying operation. The stator comprises a single-part or multipart stator housing, in which a stator lining made of an elastomer material is located, said lining forming the screw thread. The stator lining forms a projection at least on one side in the direction along the pump longitudinal axis, said projection protruding from the stator housing such that a free force introduction surface is formed. A force can be applied via the free force introduction surface, said force compressing the stator lining into the stator housing so that the stator lining is transversely elongated in the stator housing, leading to a constriction of the screw thread. The projection can be surrounded by a mobile support tube which is moved relative to the stator housing in the direction along the longitudinal axis of the stator housing for compression purposes.

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