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PUMPING UNIT

Title (de)
FÖRDERAGGREGAT

Title (fr)
UNITÉ DE REFOULEMENT

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Abstract (en)
[origin: WO2018033273A1] Pumping assemblies are already known, comprising a drive shaft and a rotor rotatably arranged in a pump stator and driven by the drive shaft. The drive shaft has an oblique sliding plane which cooperates with the rotor and which permits the rotor to wobble about a drive axis of the drive shaft by the rotor axis thereof. The rotor has a toothing on the end side thereof facing away from the drive shaft, which engages with a toothing formed on the pump stator. Work spaces are formed between the toothing of the rotor and the toothing of the pump stator in order to pump pumping media. The drive shaft, the rotor and the pump stator are individual pump components which, in cooperation, have determined properties to fulfill, such as flow rate, effectiveness and pressure build-up, within determined tolerances. Whether the pump components together can fulfill these required properties can only be tested in a function test on the finished product, i.e. after the complete construction of the pump assembly. For the pump assembly according to the invention, the production costs are reduced. According to the invention, the drive shaft (2) is arranged in a bearing bushing (24) having a shoulder (31) protruding in a radial direction in relation to the drive axis (7), on which shoulder the pump stator (3) is retained by means of at least one retaining means (27).

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