

Title (en)
LOBE PUMP

Title (de)
DREHKOLBENPUMPE

Title (fr)
POMPE À PISTON ROTATIF

Publication
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Application
EP 19705493 A 20190214

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Abstract (en)
[origin: WO2019158631A1] The invention relates to a lobe pump having • a) a housing (10), which has an inlet (11) and an outlet (12) for the medium to be pumped, • b) at least one rotary piston (20), which is mounted driveably and rotatably in the housing (10) and which has at least two transport vanes (22) provided with a contour, which transport the medium to be conveyed from the inlet (11) to the outlet (12), • c) and a sealing element (30) per rotary piston (20), which sealing element is mounted on a sealing body (42) and runs against the contour of the rotary piston (20) as the rotary piston (20) rotates and performs a deployment movement from a minimum diameter of the rotary piston (20) to a maximum diameter of the rotary piston (20) and a retraction movement from the maximum diameter of the rotary piston (20) to the minimum diameter of the rotary piston (20) on different sides of the transport vanes (22), wherein • d) the path covered by the sealing element (30) on the infeed side (221) of the transport vane (22) during the retraction movement is shorter than the path on the outfeed side (222) during the deployment movement.

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