

Title (en)
RECIPROCATING PISTON PUMP FOR CONVEYING A MEDIUM

Title (de)
HUBKOLBENPUMPE ZUM FÖRDERN EINES MEDIUMS

Title (fr)
POMPE À PISTON ALTERNATIF POUR TRANSPORTER UN MILIEU

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Application
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Abstract (en)
[origin: WO2021254869A1] A reciprocating piston pump (1) is described for conveying a medium with a pumping module (2) with a cylinder head (6), a cylinder (7) and a reciprocating piston (8), and with a drive (3), wherein the reciprocating piston (8) has a reciprocating piston head (13) with a reciprocating piston head surface (14), wherein the cylinder head (6), the cylinder (7) and the reciprocating piston head (13) form a conveying chamber (35), wherein the reciprocating piston (8) is configured to convert a drive movement (32) into a conveying reciprocating movement (37), and wherein the cylinder head (6), the cylinder (7) and the reciprocating piston (8) are configured to convert the conveying reciprocating movement (37) into conveying of a medium. A problem of the present invention is specification of a reciprocating piston pump (1) with a media separation means. The problem is achieved by virtue of the fact that the reciprocating piston pump (1) has an auxiliary reciprocating piston (9), that the auxiliary reciprocating piston (9) is arranged between the drive (3) and the reciprocating piston (8), and has an auxiliary reciprocating piston head (17) with an auxiliary reciprocating piston head surface (18), that the cylinder (7), the reciprocating piston (8) and the auxiliary reciprocating piston head (17) form a lubricating volume (36), that the cylinder (7), the reciprocating piston (8) and the auxiliary reciprocating piston (9) are configured to convert the drive movement (32) into an auxiliary conveying reciprocating movement (33) of the auxiliary reciprocating piston (9) and to convert the latter via a lubricating medium in the lubricating volume into the conveying reciprocating movement (37), and that the auxiliary reciprocating piston head surface (18) is smaller than the reciprocating piston head surface (14).

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