

Title (en)
Turbomolecular pump.

Title (de)
Turbomolekularpumpe.

Title (fr)
Pompe turbomoléculaire.

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EP 0348931 A1 19900103 (FR)

Application
EP 89111755 A 19890628

Priority
FR 8808738 A 19880629

Abstract (en)
Turbomolecular pump comprising a rotor (40) and a stator (1, 42), the rotor being supported in the stator by bearings (3, 4), the stator (1, 42), in its part carrying the said bearings being pierced with a bore (6) equipped with a piston (13) delimiting with the said bore chambers (16, 17) forming grease reserves, at least one radial channel (9, 10) extending from each of these chambers, the said piston (13) possessing towards its outer end, means (14) for allowing it to penetrate into the said bore (6), characterised in that each channel (9, 10) terminates opposite a threaded cylindrical bearing surface (31, 32) integral with the rotor (40) and immediately adjacent to a supporting bearing (3, 4) of the rotor, bringing the grease axially to the said bearing along a circular ring, the said piston (13) being equipped with a gasket (25) located between the chambers (16, 17) and its outer end (26), the said means making it possible for the piston to penetrate into the bore comprising a drive means (20) activated periodically. <IMAGE>

Abstract (fr)
Pompe turbomoléculaire comprenant un rotor (40) et un stator (1, 42), le rotor étant supporté dans le stator par des paliers (3, 4), le stator (1, 42), dans sa partie portant lesdits paliers, étant percé d'un alésage (6) équipé d'un piston (13) délimitant avec ledit alésage des chambres (16, 17) constituant des réserves de graisse, au moins un canal radial (9, 10) partant de chacune de ces chambres, ledit piston (13) comportant, du côté de son extrémité externe, des moyens (14) pour permettre son enfoncement dans ledit alésage (6), caractérisée en ce que chaque canal (9, 10) aboutit en face d'une portée cylindrique filetée (31, 32), solidaire du rotor (40) et immédiatement contiguë à un palier (3, 4) support du rotor, apportant la graisse axialement audit palier selon une couronne circulaire, ledit piston (13) étant équipé d'un joint d'étanchéité (25) situé entre les chambres (16, 17) et son extrémité externe (26), lesdits moyens permettant l'enfoncement du piston dans l'alésage comportant un moyen moteur (20) mis en route périodiquement.

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Citation (search report)
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