

Title (en)
Variable capacity compressor.

Title (de)
Verdichter mit veränderlicher Fördermenge.

Title (fr)
Compresseur à volume variable.

Publication
EP 0190013 A2 19860806 (EN)

Application
EP 86300455 A 19860123

Priority
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Abstract (en)
A variable capacity compressor (40) has an inclined plate (10) which is rotated by a rotor (8) attached to a drive shaft (4). The rotary motion is converted by a pair of shoes (19) which make sliding contact with both faces of the plate (10) into reciprocating motion of a piston (21) so that fluid may be pumped from a suction chamber (27) into a discharge chamber (28). The shoes (19) have spherically curved surfaces which allow the plate (10) to pivot relatively to the piston (21) and which are arranged to be coincident with the surface of a notional common sphere of radius (R) so as to prevent pivoting of the plate (10) from causing a gap to appear between the plate (10) and the shoes (19). A bellows (34) is used to control the pressure in a chamber (1a) so that changes of pressure are used to cause the plate (10) to pivot about a pin (11) and thereby alter the stroke of the piston (21).

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Cited by
EP0256793A1; US5027612A; FR2759425A1; US5168716A; EP0283963A3; AU606139B2; EP0334634A1; EP0282190A1; US5336056A; USRE35878E; US4874295A; US5189886A; US4747753A; EP0513871A3; US4842488A; EP0259760A3; FR2767359A1; US4882909A; US5025636A; US6336392B1; WO9217705A1

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