

Title (en)

Piston compressor for oil-free gas compression.

Title (de)

Kolbenkompressor zum ölfreien Verdichten eines Gases.

Title (fr)

Compresseur à piston pour comprimer un gaz sans lubrification.

Publication

EP 0527701 B1 19950125 (DE)

Application

EP 92810552 A 19920720

Priority

CH 238191 A 19910812

Abstract (en)

[origin: US5199345A] The piston compressor exhibits at least one piston (7) which is supported to be freefloating and connected via a piston rod (6) to a crosshead (5). The piston rod slides in a guide bearing (8) next to the crosshead in a gland (11) next to the cylinder. A ring (15) of porous material is arranged on the piston rod (6) between the guide bearing (8) and the gland (11). The ring (15) exhibits a circumferential groove which is intended for receiving a tubular spring and the depth of which-measured from the outside transversely to the longitudinal axis (6') of the piston rod-is at least as great as the outer diameter of one turn of the tubular spring.

IPC 1-7

F04B 39/04

IPC 8 full level

F04B 39/00 (2006.01); **F04B 39/04** (2006.01)

CPC (source: EP US)

F04B 39/041 (2013.01 - EP US); **Y10S 277/902** (2013.01 - EP US)

Cited by

EP0598553A1; AT409291B

Designated contracting state (EPC)

AT CH DE FR GB IT LI NL SE

DOCDB simple family (publication)

EP 0527701 A1 19930217; **EP 0527701 B1 19950125**; AT E117770 T1 19950215; BR 9202945 A 19930330; CA 2075759 A1 19930213; CA 2075759 C 19951017; DE 59201272 D1 19950309; JP 3241445 B2 20011225; JP H05195956 A 19930806; US 5199345 A 19930406

DOCDB simple family (application)

EP 92810552 A 19920720; AT 92810552 T 19920720; BR 9202945 A 19920730; CA 2075759 A 19920811; DE 59201272 T 19920720; JP 21399792 A 19920811; US 90219092 A 19920622