

Title (en)

Piston compressor with reduced size

Title (de)

Hubkolbenverdichter für gasförmige Medien mit verringerter Bauhöhe

Title (fr)

Compresseur à piston de taille réduite

Publication

**EP 1394413 B1 20161012 (DE)**

Application

**EP 02019521 A 20020831**

Priority

EP 02019521 A 20020831

Abstract (en)

[origin: EP1394413A1] The compressor has connected drive and crankcase. The maximum pivot angle (238) of a longitudinal piston ring axis (64) relative to the longitudinal axis (220) of the cylinder track (58) is smaller during the up stroke of the piston, than during the down stroke. The longitudinal track axis is parallel offset relative to a first spatial axis (222), and is turnable relative to it through an angle of between 0,5degrees and 7degrees. The crossing point of track axis and first spatial axis is positioned within the up and down movements (228) of the piston within the cylinder track.

IPC 8 full level

**F04B 39/00** (2006.01); **F04B 39/12** (2006.01); **F04B 35/01** (2006.01)

CPC (source: EP KR US)

**F04B 39/0022** (2013.01 - EP US); **F04B 39/0094** (2013.01 - EP US); **F04B 39/12** (2013.01 - KR)

Citation (examination)

US 5644969 A 19970708 - LEU SHAWN A [US], et al

Cited by

WO2018082800A1; EP1801416A1; CN103742392A; DE102012024757A1; DE102010054709A1; DE102016013036A1; DE102012005345A1; DE102012005345B4

Designated contracting state (EPC)

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DOCDB simple family (publication)

**EP 1394413 A1 20040303; EP 1394413 B1 20161012**; JP 2004092638 A 20040325; KR 100935749 B1 20100106; KR 20040020037 A 20040306; US 2004042919 A1 20040304; US 7179064 B2 20070220

DOCDB simple family (application)

**EP 02019521 A 20020831**; JP 2003179945 A 20030624; KR 20030060173 A 20030829; US 65247303 A 20030902