

Title (en)
MULTI-STEP PISTON COMPRESSOR

Title (de)
MEHRSTUFIGER KOLBENVERDICHTER

Title (fr)
COMPRESSEUR A PISTON MULTI-ETAGE

Publication
EP 1395754 B1 20090401 (DE)

Application
EP 02742778 A 20020524

Priority
• DE 0201879 W 20020524
• DE 20108696 U 20010525

Abstract (en)
[origin: WO02095226A1] The invention relates to a novel piston compressor whose return valves have a very good closure force and are extremely tight. The inlet return valve (15) is provided with a first sealing membrane (17) and the outlet return valve (30) is provided with a third sealing membrane. The two sealing membranes (17,32) are produced from an elastic polymer which has high disruptive strength, high temperature compatibility and memory properties.

IPC 8 full level
F04B 25/02 (2006.01); **F04B 25/00** (2006.01); **F04B 27/02** (2006.01); **F04B 27/04** (2006.01); **F04B 39/00** (2006.01); **F04B 39/10** (2006.01); **F04B 53/10** (2006.01); **H04B 5/00** (2006.01); **H04M 1/60** (2006.01)

CPC (source: EP US)
F04B 25/02 (2013.01 - EP US); **F04B 27/02** (2013.01 - EP US); **F04B 27/0451** (2013.01 - EP US); **F04B 39/10** (2013.01 - EP US); **F04B 53/1075** (2013.01 - EP US); **F04B 53/108** (2013.01 - EP US); **F05C 2225/00** (2013.01 - EP US)

Cited by
DE102011083614A1; WO2012116923A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
WO 02095226 A1 20021128; AT E427423 T1 20090415; DE 20108696 U1 20010830; DE 50213413 D1 20090514; EP 1395754 A1 20040310; EP 1395754 B1 20090401; US 2005031476 A1 20050210

DOCDB simple family (application)
DE 0201879 W 20020524; AT 02742778 T 20020524; DE 20108696 U 20010525; DE 50213413 T 20020524; EP 02742778 A 20020524; US 47927304 A 20040923