

Title (en)
PISTON-CYLINDER ARRANGEMENT FOR A RECIPROCATING COMPRESSOR

Title (de)
KOLBEN-ZYLINDER-ANORDNUNG FUER EINEN KOLBENVERDICHTER

Title (fr)
ENSEMBLE PISTON-CYLINDRE POUR UN COMPRESSEUR A PISTONS

Publication
EP 1831562 B1 20080618 (DE)

Application
EP 05818221 A 20051216

Priority
• EP 2005013602 W 20051216
• DE 102004061236 A 20041220

Abstract (en)
[origin: WO2006066828A1] Disclosed is a piston-cylinder arrangement for a reciprocating compressor, especially a swashplate compressor, comprising a light metal piston (2) which is axially movable within a cylinder (1) and the face of which is fixed to a piston rod (6) via at least one fastening screw (5) that extends through a through-bore (4) of the piston (2) in the direction of travel of the piston. The inventive piston-cylinder arrangement is characterized in that the through-bore (4) of the piston (2) is provided with a recess while a fastening bush (7) encompassing an annular bottom section (12) and an adjacent hollow cylinder-type wall section (13) is provided. Said fastening bush (7) protrudes into the recess of the through-bore (4) in order to accommodate the head of the fastening screw (5) while resting against the adjacent piston area (9) via a radially outward extending peripheral section (14) which adjoins the wall section (13) of the fastening bush (7).

IPC 8 full level
F04B 39/00 (2006.01); **F04B 27/10** (2006.01); **F04B 53/14** (2006.01); **F16J 1/00** (2006.01)

CPC (source: EP)
F04B 27/0878 (2013.01); **F04B 39/0005** (2013.01); **F04B 39/0022** (2013.01); **F04B 53/147** (2013.01)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2006066828 A1 20060629; AT E398731 T1 20080715; DE 102004061236 B3 20060831; DE 502005004481 D1 20080731; EP 1831562 A1 20070912; EP 1831562 B1 20080618

DOCDB simple family (application)
EP 2005013602 W 20051216; AT 05818221 T 20051216; DE 102004061236 A 20041220; DE 502005004481 T 20051216; EP 05818221 A 20051216