Title (en)

Air cooling system for a piston compressor

Title (de)

Kühlluftsystem für einen Kolbenkompressor

Title (fr)

Système de refroidissement pour un compresseur à piston

Publication

EP 1031727 A2 20000830 (DE)

Application

EP 00103181 A 20000217

Priority

DE 19908308 A 19990226

Abstract (en)

The compressor has one or more cylinders (11, 12) and a crank shaft in a crank housing (15). The crankshaft is set vertical and underneath the cylinder a drive assembly (13), such as an electric motor, is coupled to the crankshaft. A ventilator (20) coupled to the drive assembly or crankshaft produces an air current which moves upwards along the drive assembly and along the cylinder. Compressed air flowing out of the or each cylinder is guided in pipes (34, 35) exposed to the cooling air current of the ventilator.

Abstract (de)

Bekannt sind Kompressoren mit zwei Zylindern in Boxeranordnung. Der erfindungsgemäße Kompressor weist eine vertikal gerichtete Kurbelwelle auf. Der elektrische Antriebsmotor ist unterhalb der Zylinder angeordnet und mit einem Radiallüfter versehen. Die Kühlluft strömt aufwärts am Antriebsmotor und an den Zylindern entlang. <IMAGE>

IPC 1-7

F04B 39/06

IPC 8 full level

F04B 27/02 (2006.01); **F04B 39/00** (2006.01); **F04B 39/06** (2006.01); **F04B 41/00** (2006.01); **F04D 17/08** (2006.01); **F04D 25/08** (2006.01)

CPC (source: EP)

F04B 39/0033 (2013.01); **F04B 39/066** (2013.01)

Citation (applicant)

US 1791672 A 19310210 - HINCKLEY FREDERICK P

Cited by

CN101776060A; DE102006025084A1; DE102007019126B4; DE102007010139A1; DE102007010139B4; WO2007101684A1; DE102007019126A1; US8123499B2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 1031727 A2 20000830; **EP 1031727 A3 20010321**; **EP 1031727 B1 20060531**; AT 328198 T 20060615; DE 19908308 A1 20000831; DE 50012837 D1 20060706; ES 2265307 T3 20070216; JP 2000337258 A 20001205; JP 3481898 B2 20031222; US 6364632 B1 20020402

DOCDB simple family (application)

EP 00103181 A 20000217; AT 00103181 T 20000217; DE 19908308 A 19990226; DE 50012837 T 20000217; ES 00103181 T 20000217; JP 2000051961 A 20000228; US 51217600 A 20000224