

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 A3 20010321 (DE)**

Application

**EP 00103181 A 20000217**

Priority

DE 19908308 A 19990226

Abstract (en)

[origin: EP1031727A2] 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.

IPC 1-7

**F04B 39/06**; F04B 39/00

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 US)

**F04B 39/0033** (2013.01 - EP US); **F04B 39/066** (2013.01 - EP US)

Citation (search report)

- [YA] US 4492533 A 19850108 - TSUGE KAZUO [JP]
- [YA] DE 1916857 A1 19701015 - KAESER KOMPRESSOREN
- [A] GB 1454140 A 19761027 - PAGET W W
- [A] GB 2096711 A 19821020 - GRESCO SPA
- [A] DE 1996999 U 19681121 - KLEIN SCHANZLIN & BECKER AG [DE]

Cited by

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

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