

Title (en)
Air compressor having tilted piston

Title (de)
Luftkompressor mit Kippkolben

Title (fr)
Compresseur d'air doté d'un piston incliné

Publication
EP 2320086 B1 20180314 (EN)

Application
EP 09175219 A 20091106

Priority
EP 09175219 A 20091106

Abstract (en)
[origin: EP2320086A1] An air compressor includes a cylinder housing having an outlet tube and an inner peripheral surface, a piston slidably received in the cylinder housing and having a piston rod, the piston is tilted relative to a longitudinal L or lateral axis T of the piston rod, and a motor is coupled to the piston for moving the piston relative to the cylinder housing in a reciprocating action in order to generate pressurized air. The piston rod is tilted relative to the longitudinal axis Z of the cylinder housing, and the piston is arranged to be perpendicular to the longitudinal axis Z and the inner peripheral surface of the cylinder housing when the piston is moved toward the outlet tube in a pumping stroke for effectively compressing and pumping the air in the cylinder housing.

IPC 8 full level
F04B 53/14 (2006.01); **F04B 1/04** (2006.01); **F04B 39/00** (2006.01)

CPC (source: EP)
F04B 1/0408 (2013.01); **F04B 39/0005** (2013.01); **F04B 53/14** (2013.01); **F04B 53/143** (2013.01); **F04B 53/146** (2013.01)

Citation (examination)

- WO 2010066448 A1 20100617 - DOUKAS AG [CH], et al
- US 6213725 B1 20010410 - CHOU WEN SAN [TW]

Cited by
EP2930361A3; EP2960502A1

Designated contracting state (EPC)
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