

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)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)
EP 2320086 A1 20110511; **EP 2320086 B1 20180314**; DK 2320086 T3 20180618; HU E039222 T2 20181228; PL 2320086 T3 20180928; TR 201808183 T4 20180723

DOCDB simple family (application)
EP 09175219 A 20091106; DK 09175219 T 20091106; HU E09175219 A 20091106; PL 09175219 T 20091106; TR 201808183 T 20091106