

Title (en)
COMPRESSOR COMPRISING A COMPRESSED GAS-ASSISTED PISTON

Title (de)
VERDICHTER MIT GASDRUCKGELAGERTEM KOLBEN

Title (fr)
COMPRESSEUR DOTÉ D'UN PISTON MONTÉ SUR PALIER À GAZ SOUS PRESSION

Publication
EP 2092195 A1 20090826 (DE)

Application
EP 07822074 A 20071031

Priority
• EP 2007061726 W 20071031
• DE 102006052430 A 20061107

Abstract (en)
[origin: WO2008055826A1] The invention relates to a compressor comprising a cylinder (22, 23) and a piston (25) that can be displaced in an oscillating manner in said cylinder (22, 23) and that has transverse play in relation to the displacement direction. In said compressor, an end surface (31) of the piston (25) delimits a compression chamber (26) in the cylinder (22, 23). The diameter of the piston (25) reduces towards the end surface (31).

IPC 8 full level
F04B 39/00 (2006.01)

CPC (source: EP US)
F04B 35/045 (2013.01 - EP US); **F04B 39/0005** (2013.01 - EP US); **F04B 39/0292** (2013.01 - EP US); **F04B 39/123** (2013.01 - EP US); **F05C 2203/0813** (2013.01 - EP US); **F05C 2253/12** (2013.01 - EP US)

Citation (search report)
See references of WO 2008055826A1

Citation (examination)
• US 5366350 A 19941122 - FUJII TOSHIRO [JP], et al
• EP 1600634 A2 20051130 - SANYO ELECTRIC CO [JP]
• US 5816783 A 19981006 - OSHIMA YASUHIRO [JP], et al
• US 2002127117 A1 20020912 - FUJII TOSHIRO [JP], et al

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 MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
DE 102006052430 A1 20080508; CN 101535644 A 20090916; EP 2092195 A1 20090826; RU 2009119391 A 20101220; RU 2432497 C2 20111027; US 2010021323 A1 20100128; WO 2008055826 A1 20080515

DOCDB simple family (application)
DE 102006052430 A 20061107; CN 200780041412 A 20071031; EP 07822074 A 20071031; EP 2007061726 W 20071031; RU 2009119391 A 20071031; US 51370207 A 20071031