

Title (en)
OIL-LESS COMPRESSOR WITH SEAL-DUST PROTECTION

Title (de)
ÖLFREIER VERDICHTER MIT DICHTUNGSSTAUBSCHUTZ

Title (fr)
COMPRESSEUR AUTOLUBRIFIANT AVEC PROTECTION CONTRE LA POUSSIÈRE

Publication
EP 1869322 A4 20091111 (EN)

Application
EP 05714646 A 20050318

Priority
• CA 2005000408 W 20050318
• CA 2005000395 W 20050317

Abstract (en)
[origin: WO2006096957A1] An oil-less compressor, having polymeric seals and a crank mechanism which is vulnerable to dust arising from such seals, is provided with a dust-exclusion barrier that protects the crank mechanism from being exposed to such dust. The first stage of the compressor preferably draws its intake from the crankcase, providing a pressure differential and gas flow that sweeps seal dust away from the crank mechanism.

IPC 8 full level
F04B 39/04 (2006.01); **F04B 25/00** (2006.01); **F04B 39/00** (2006.01); **F04B 53/14** (2006.01)

CPC (source: EP US)
F04B 25/00 (2013.01 - EP US); **F04B 25/005** (2013.01 - EP US); **F04B 39/0005** (2013.01 - EP US); **F04B 39/0022** (2013.01 - EP US); **F04B 39/04** (2013.01 - EP US); **F04B 39/12** (2013.01 - EP US); **F04B 53/146** (2013.01 - EP US)

Citation (search report)
• [X] US 4889039 A 19891226 - MILLER BERNARD F [US]
• [X] AU 6808381 A 19810625 - COMMMW SCIENTIFIC & IND RESEAR
• [XA] EP 0833054 A2 19980401 - TEIKOKU PISTON RING CO LTD [JP]
• [X] EP 0340150 A1 19891102 - DIGITAL EQUIPMENT CORP [US]
• [A] US 3204864 A 19650907 - MALAKER STEPHEN F, et al
• See references of WO 2006096957A1

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 MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
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DOCDB simple family (application)
CA 2005000408 W 20050318; EP 05714646 A 20050318; ES 05714646 T 20050318; JP 2008501119 A 20050318; PL 05714646 T 20050318; SI 200531673 T 20050318; US 90871808 A 20081117