

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

Title (de)
ÖLFREIER VERDICHTER MIT DICHTUNGSSTAUBSCHUTZ

Title (fr)
COMPRESSEUR AUTOLUBRIFIANT AVEC PROTECTION CONTRE LA POUSSIERE

Publication
EP 1869322 A4 20091111 (EN)

Application
EP 05714646 A 20050318

Priority
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• 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)
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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