

Title (en)
PISTON ASSEMBLY FOR ALTERNATIVE COMPRESSOR

Title (de)
KOLBENANORDNUNG FÜR ALTERNATIVE VERDICHTER

Title (fr)
ENSEMBLE PISTON POUR COMPRESSEUR ALTERNATIF

Publication
EP 2659025 A1 20131106 (EN)

Application
EP 11854223 A 20111208

Priority
• BR PI1009955 A 20101227
• BR 2011000460 W 20111208

Abstract (en)
[origin: WO2012088571A1] The present invention refers to a piston/cylinder assembly for alternative compressor, wherein the piston performs a reciprocating movement inside the cylinder, wherein piston surface (1) and cylinder surface have a surface roughness parameter Rpk of less than about 60 nm and a surface roughness parameter Rvk of less than 100 nm; and said piston surface (1) receives a coating comprising at least a support layer 2 and at least a DLC layer (3).

IPC 8 full level
C23C 16/26 (2006.01); **C23C 16/27** (2006.01); **C23C 16/30** (2006.01)

CPC (source: EP KR)
C23C 14/06 (2013.01 - KR); **C23C 16/27** (2013.01 - KR); **F04B 35/045** (2013.01 - EP); **F04B 39/00** (2013.01 - KR); **F04B 39/0005** (2013.01 - EP); **F04B 39/12** (2013.01 - EP); **F04B 53/14** (2013.01 - KR); **F16J 1/00** (2013.01 - KR); **F05C 2201/0433** (2013.01 - EP); **F05C 2203/0808** (2013.01 - EP); **F05C 2203/083** (2013.01 - EP); **F05C 2203/0856** (2013.01 - EP); **F05C 2253/12** (2013.01 - EP)

Citation (search report)
See references of WO 2012088571A1

Designated contracting state (EPC)
AL 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 RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2012088571 A1 20120705; AR 084603 A1 20130529; BR PI1009955 A2 20130611; CN 103298972 A 20130911; CN 103298972 B 20161221; EP 2659025 A1 20131106; JP 2014502691 A 20140203; KR 20140067961 A 20140605; SG 191408 A1 20130830; TW 201235566 A 20120901; TW I461605 B 20141121

DOCDB simple family (application)
BR 2011000460 W 20111208; AR P110104945 A 20111227; BR PI1009955 A 20101227; CN 201180064821 A 20111208; EP 11854223 A 20111208; JP 2013546527 A 20111208; KR 20137018894 A 20111208; SG 2013050299 A 20111208; TW 100149001 A 20111227