

Title (en)

SCREW COMPRESSOR WITH INTEGRAL BEARING COVER AND DISCHARGE PLENUM DIVIDER

Title (de)

SCHRAUBENKOMPRESSOR MIT INTEGRALEM LAGERDECKEL UND ABFÜHRKAMMERTEILER

Title (fr)

COMPRESSEUR À VIS AVEC REVÊTEMENT DE PALIER INTÉGRAL ET DIVISEUR DE PLÉNUM D'ÉVACUATION

Publication

EP 2097615 B1 20170712 (EN)

Application

EP 06850018 A 20061226

Priority

US 2006049289 W 20061226

Abstract (en)

[origin: WO2008079131A1] A three rotor screw compressor is provided with a bearing cover, and an integral discharge case having a divider wall formed integrally with the bearing cover. The bearing cover closes bearing chambers for each of three rotor shafts, and the divider wall divides a plenum into two distinct chambers. By providing the divider wall, noise and efficiency losses from intermixing of two discharge flows from two separate compression chambers is eliminated. By forming a divider wall integrally with the bearing cover, leakage which has existed in the prior art is eliminated.

IPC 8 full level

F04C 18/16 (2006.01); **F01C 21/10** (2006.01); **F04C 29/06** (2006.01)

CPC (source: EP US)

F04C 18/086 (2013.01 - EP US); **F04C 18/165** (2013.01 - EP US); **F04C 29/0035** (2013.01 - EP US); **F04C 29/065** (2013.01 - EP US); **F04C 29/068** (2013.01 - EP US); **F04C 2240/30** (2013.01 - EP US); **F04C 2240/50** (2013.01 - EP US)

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 NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2008079131 A1 20080703; CN 101778999 A 20100714; CN 101778999 B 20110817; EP 2097615 A1 20090909; EP 2097615 A4 20130213; EP 2097615 B1 20170712; ES 2634143 T3 20170926; HK 1146418 A1 20110603; US 2010135839 A1 20100603

DOCDB simple family (application)

US 2006049289 W 20061226; CN 200680056820 A 20061226; EP 06850018 A 20061226; ES 06850018 T 20061226; HK 11100273 A 20110112; US 44461410 A 20100113