

Title (en)
ROTARY COMPRESSOR

Title (de)
ROTATIONSVERDICHTER

Title (fr)
COMPRESSEUR ROTATIF

Publication
EP 2483563 A2 20120808 (EN)

Application
EP 10819498 A 20100924

Priority
• US 24631909 P 20090928
• US 2010050102 W 20100924

Abstract (en)
[origin: US2011076169A1] The eccentric on the crankshaft of a rotary compressor, as well as the roller that surrounds the crankshaft, is replaced by an elliptical cam that acts as a double eccentric. In this manner, the elliptical cam provides for proper balancing of the crankshaft and other components of the compressor, while eliminating the need to use counterweights. Specifically, the elliptical cam is symmetrical, resulting in equal forces acting on opposing sides of the elliptical cam. This allows the elliptical cam to maintain its balance throughout its rotation, even when operating at a high rate of revolution.

IPC 8 full level
F04C 29/00 (2006.01); **F04C 18/356** (2006.01); **F04C 29/02** (2006.01)

CPC (source: EP US)
F04C 18/356 (2013.01 - EP US); **F04C 29/0042** (2013.01 - EP US); **F04C 23/008** (2013.01 - EP US)

Citation (search report)
See references of WO 2011038174A2

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 SE SI SK SM TR

DOCDB simple family (publication)
US 2011076169 A1 20110331; BR 112012006836 A2 20170606; CA 2774105 A1 20110331; CN 102597525 A 20120718;
EP 2483563 A2 20120808; IN 2106DEN2012 A 20150821; WO 2011038174 A2 20110331; WO 2011038174 A3 20110728

DOCDB simple family (application)
US 88950810 A 20100924; BR 112012006836 A 20100924; CA 2774105 A 20100924; CN 201080042831 A 20100924;
EP 10819498 A 20100924; IN 2106DEN2012 A 20120309; US 2010050102 W 20100924