

Title (en)  
ROTARY COMPRESSOR

Title (de)  
ROTATIONSVERDICHTER

Title (fr)  
COMPRESSEUR ROTATIF

Publication  
**EP 3112683 A1 20170104 (EN)**

Application  
**EP 15755988 A 20150203**

Priority  
• JP 2014039064 A 20140228  
• JP 2015052976 W 20150203

Abstract (en)  
In a rotary compressor, when it is assumed that a vane width is  $W$ , the amount of eccentricity of an eccentric portion is  $e$ , a vane leading end curvature radius is  $R_v$ , an annular piston radius is  $R_r$ , and a non-sliding region width on each of both side portions of a vane leading end is  $W_t$ , the vane width  $W$  and the vane leading end curvature radius  $R_v$  are set such that the non-sliding region width  $W_t$  on each of both the side portions of the vane leading end defined by the following equation (A) is a value satisfying an equation (B):  $W_t = W / 2 \sqrt{e \times R_v / R_v + R_r}$   $0.3 \text{ mm} \leq W_t \leq 0.6 \text{ mm}$

IPC 8 full level  
**F04C 18/356** (2006.01); **F04C 23/00** (2006.01)

CPC (source: EP US)  
**F01C 21/0809** (2013.01 - EP US); **F04C 18/356** (2013.01 - EP US); **F04C 23/001** (2013.01 - US); **F04C 23/008** (2013.01 - EP US); **F01C 21/102** (2013.01 - EP US); **F04C 2210/268** (2013.01 - US); **F04C 2240/40** (2013.01 - US); **F04C 2250/20** (2013.01 - EP US); **F04C 2250/30** (2013.01 - EP US)

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

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
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**EP 15755988 A 20150203**; AU 2015224264 A 20150203; CN 201580008662 A 20150203; JP 2014039064 A 20140228; JP 2015052976 W 20150203; US 201515119091 A 20150203