

Title (en)
CENTRIFUGAL COMPRESSOR

Title (de)
ZENTRIFUGALVERDICHTER

Title (fr)
COMPRESSEUR CENTRIFUGE

Publication
EP 2886875 A4 20151007 (EN)

Application
EP 13859857 A 20130625

Priority
• JP 2012268402 A 20121207
• JP 2013067359 W 20130625

Abstract (en)
[origin: EP2886875A1] In order to suppress surging and to increase operational efficiency while expanding the operational range, a high-pressure compressed fluid is fed from a volute part (22) through connecting parts (40A) and into a diffuser flow path (35), said diffuser flow path (35) being formed between an annular disk part (31) and an annular disk (32) in a diffuser part (30). Thus, it is possible to prevent a reverse flow region (H) from extending toward the rear edge of the diffuser part (30) due to detachment occurring from the annular disk (32).

IPC 8 full level
F04D 29/42 (2006.01); **F04D 29/44** (2006.01); **F04D 29/66** (2006.01)

CPC (source: CN EP KR)
F04D 17/10 (2013.01 - CN EP KR); **F04D 29/422** (2013.01 - CN EP); **F04D 29/444** (2013.01 - CN EP KR); **F04D 29/684** (2013.01 - CN EP KR); **F05D 2250/52** (2013.01 - EP)

Citation (search report)
• [A] DE 1428102 A1 19690206 - GERAETEBAU EBERSPAECHER OHG
• [A] DE 4125487 C1 19920617 - MTU FRIEDRICHSHAFEN GMBH [DE]
• [A] US 2399072 A 19460423 - THOMPSON WENDELL S
• See references of WO 2014087690A1

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)
EP 2886875 A1 20150624; **EP 2886875 A4 20151007**; **EP 2886875 B1 20160803**; CN 104838149 A 20150812; CN 104838149 B 20170419; JP 2014114727 A 20140626; JP 6138470 B2 20170531; KR 101743376 B1 20170602; KR 20150046181 A 20150429; WO 2014087690 A1 20140612

DOCDB simple family (application)
EP 13859857 A 20130625; CN 201380050088 A 20130625; JP 2012268402 A 20121207; JP 2013067359 W 20130625; KR 20157006939 A 20130625