

Title (en)  
Compression apparatus

Title (de)  
Kompressionsvorrichtung

Title (fr)  
Appareil de compression

Publication  
**EP 2853850 A1 20150401 (EN)**

Application  
**EP 14177378 A 20140717**

Priority  
JP 2013176278 A 20130828

Abstract (en)  
A compression apparatus in the present invention includes a compressor including a cylinder for compressing a gas, a gas cooler for cooling the gas compressed in the cylinder, and a circulation passage for guiding the gas compressed in the cylinder into the gas cooler. The gas cooler is diffusion bonded to the cylinder. In order to reduce the size of the compression apparatus, the circulation passage extends through an area in which the gas cooler and the cylinder face each other. At least areas surrounding the area are diffusion bonded.

IPC 8 full level  
**F28D 9/00** (2006.01); **F04B 39/06** (2006.01); **F04B 39/12** (2006.01); **F17C 5/06** (2006.01)

CPC (source: EP KR US)  
**F04B 5/00** (2013.01 - EP US); **F04B 37/12** (2013.01 - EP US); **F04B 39/06** (2013.01 - EP US); **F04B 39/064** (2013.01 - EP US); **F04B 39/12** (2013.01 - EP US); **F04B 43/14** (2013.01 - KR); **F28D 9/0043** (2013.01 - EP US); **F28D 9/0093** (2013.01 - EP US); **F28D 9/02** (2013.01 - KR); **F28D 2021/0047** (2013.01 - EP US); **F28F 2275/061** (2013.01 - EP US)

Citation (applicant)  
JP 2000283668 A 20001013 - EBARA CORP

Citation (search report)  
• [IA] EP 0796996 A1 19970924 - ATLAS COPCO AIRPOWER NV [BE]  
• [A] US 2013192806 A1 20130801 - NOISHIKI KOJI [JP], et al  
• [A] US 2009047144 A1 20090219 - LEECE NORMAN KAY [GB], et al  
• [A] US 6077053 A 20000620 - FUJIKAWA TAKAO [JP], et al  
• [E] JP 2014152703 A 20140825 - KOBE STEEL LTD  
• [E] EP 2803857 A1 20141119 - KOBE STEEL LTD [JP]

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 2853850 A1 20150401**; **EP 2853850 B1 20190403**; BR 102014021400 A2 20160628; CN 104421135 A 20150318; JP 2015045251 A 20150312; KR 20150026867 A 20150311; US 2015059569 A1 20150305

DOCDB simple family (application)  
**EP 14177378 A 20140717**; BR 102014021400 A 20140828; CN 201410430042 A 20140828; JP 2013176278 A 20130828; KR 20140110520 A 20140825; US 201414336463 A 20140721