

Title (en)

COMPRESSION SYSTEM AND METHOD HAVING CO-AXIAL FLOW DEVICE

Title (de)

KOMPRESSIONSSYSTEM UND VERFAHREN MIT KOAXIALER STRÖMUNGSVORRICHTUNG

Title (fr)

SYSTÈME ET PROCÉDÉ DE COMPRESSION COMPRENANT UN DISPOSITIF D'ÉCOULEMENT COAXIAL

Publication

**EP 2971763 A1 20160120 (EN)**

Application

**EP 14715742 A 20140306**

Priority

- US 201361801688 P 20130315
- US 201414191187 A 20140226
- US 2014021376 W 20140306

Abstract (en)

[origin: US2014271250A1] A system, including a compressor including a cylinder with a chamber, a first axial end portion, and a second axial end portion, and a piston in the chamber of the cylinder, the piston is configured to reciprocate along a cylinder axis between the first and second axial end portions, and a co-axial flow device coupled to compressor, the co-axial flow device includes a first wall disposed about a first passage along an axis, a second passage disposed about the first wall along the axis, and a second wall disposed about the second passage along the axis, the first passage includes a first axial opening in fluid communication with the chamber while the piston moves in a first axial direction, and the second passage includes a second axial opening in fluid communication with the chamber while the piston moves in a second axial direction opposite from the first axial direction.

IPC 8 full level

**F04B 27/00** (2006.01); **F04B 27/02** (2006.01); **F04B 27/04** (2006.01); **F04B 39/10** (2006.01); **F16K 3/08** (2006.01)

CPC (source: EP MX RU US)

**F04B 27/00** (2013.01 - MX); **F04B 27/005** (2013.01 - EP US); **F04B 27/02** (2013.01 - EP MX RU US); **F04B 27/04** (2013.01 - MX); **F04B 27/0451** (2013.01 - EP US); **F04B 27/0456** (2013.01 - EP US); **F04B 39/10** (2013.01 - MX); **F04B 39/1013** (2013.01 - EP US); **F04B 39/1046** (2013.01 - EP US); **F04B 39/12** (2013.01 - US); **F04B 49/22** (2013.01 - US); **F16K 3/08** (2013.01 - MX); **F16K 3/085** (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)

**US 2014271250 A1 20140918**; AU 2014237764 A1 20150924; AU 2014237764 B2 20171123; EP 2971763 A1 20160120; MX 2015012734 A 20160706; RU 2015138148 A 20170419; RU 2683353 C2 20190328; SG 10201706803U A 20171030; SG 11201506997U A 20151029; WO 2014149887 A1 20140925

DOCDB simple family (application)

**US 201414191187 A 20140226**; AU 2014237764 A 20140306; EP 14715742 A 20140306; MX 2015012734 A 20140306; RU 2015138148 A 20140306; SG 10201706803U A 20140306; SG 11201506997U A 20140306; US 2014021376 W 20140306