

Title (en)

SCISSOR TYPE COMPRESSION AND EXPANSION MACHINE USED IN A THERMAL ENERGY RECUPERATION SYSTEM

Title (de)

SCHERENARTIGE KOMPRESSIONS- UND EXPANSIONSMASCHINE IN EINEM WÄRMEENERGIERÜCKGEWINNUNGSSYSTEM

Title (fr)

MACHINE DE COMPRESSION ET DETENTE DE TYPE CISEAUX UTILISEE DANS UN SYSTEME DE RECUPERATION D'ENERGIE THERMIQUE

Publication

**EP 3259449 A1 20171227 (FR)**

Application

**EP 16705536 A 20160219**

Priority

- FR 1551498 A 20150220
- EP 2016053604 W 20160219

Abstract (en)

[origin: WO2016131979A1] The invention relates to a compression and expansion machine comprising a body (12a) with at least one chamber (12) of revolution about an axis of symmetry and rotary pistons (14a, 14b, 14c, 14d) rotating about the axis of symmetry and dividing the chamber into rotary cells (15a, 15b, 15c, 15d) rotating with the pistons, said machine further comprising a coordination device (22) for coordinating the movement of said pistons and configured so that, during one revolution, each cell (15a, 15b, 15c, 15d) performs at least one first expansion/contraction cycle corresponding to a stage of compressing a first stream of gas passing through this cell and at least one second expansion/contraction cycle corresponding to a stage of expanding a second stream of gas passing through this cell.

IPC 8 full level

**F01C 1/063** (2006.01)

CPC (source: EP US)

**F01C 1/063** (2013.01 - EP US); **F01C 1/07** (2013.01 - US); **F01C 21/18** (2013.01 - EP US); **F01K 7/36** (2013.01 - EP US); **F01K 23/065** (2013.01 - EP US); **F01K 23/14** (2013.01 - EP US); **F01K 25/10** (2013.01 - EP US); **F02G 1/02** (2013.01 - US); **F01C 21/008** (2013.01 - EP US); **F01D 17/105** (2013.01 - US)

Citation (search report)

See references of WO 2016131979A1

Designated contracting state (EPC)

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Designated extension state (EPC)

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DOCDB simple family (publication)

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