

Title (en)

VAPOR CYCLE CENTRIFUGAL COMPRESSOR WITH VARIABLE RETURN CHANNEL VANES

Title (de)

DAMPFKREISLAUFVERDICHTER MIT VARIABLEN RÜCKLAUFKANALSCHAUFELN

Title (fr)

COMPRESSEUR CENTRIFUGE À CYCLE DE VAPEUR AVEC AUBES À CANAL DE RETOUR VARIABLE

Publication

EP 3521628 A1 20190807 (EN)

Application

EP 19155609 A 20190205

Priority

- US 201815889962 A 20180206
- US 201816006771 A 20180612

Abstract (en)

A vapor cycle compressor includes a controller section, a drive section in communication with the controller section, and a compression section operatively engaged with the drive section. The compression section includes a first compression stage and a return channel assembly downstream of the first compression stage. The return channel vane assembly includes return channel vanes that are configured to adjust their angle of orientation. The compression section also includes a second compression stage downstream of the return channel vane assembly, wherein inlet guide vanes are absent between the return channel vane assembly and the second compression stage.

IPC 8 full level

F04D 17/12 (2006.01); **F04D 29/46** (2006.01)

CPC (source: EP)

F04D 17/122 (2013.01); **F04D 29/462** (2013.01)

Citation (applicant)

- US 2300766 A 19421103 - ADOLF BAUMANN
- US 15/889,962 B

Citation (search report)

- [X1] US 2015354599 A1 20151210 - NAWROCKI GILLES [FR], et al
- [XY] WO 2016071415 A1 20160512 - NUOVO PIGNONE SRL [IT]
- [XY] JP S5672300 A 19810616 - HITACHI LTD
- [YA] EP 2484916 A1 20120808 - SIEMENS AG [DE]
- [A] WO 2011071846 A2 20110616 - DRESSER RAND CO [US], et al

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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