

Title (en)

HVAC COMPRESSOR WITH MIXED AND RADIAL COMPRESSION STAGES

Title (de)

HLK-VERDICHTER MIT GEMISCHTEN UND RADIALEN VERDICHTUNGSSTUFEN

Title (fr)

COMPRESSEUR CVCA AVEC DES ÉTAPES DE COMPRESSION MIXTE ET RADIALE

Publication

EP 3633202 B1 20240327 (EN)

Application

EP 19200465 A 20190930

Priority

- US 201862740464 P 20181003
- US 201916430848 A 20190604

Abstract (en)

[origin: EP3633202A1] A refrigerant compressor according to an exemplary aspect of the present disclosure includes, among other things, a first compression stage arranged in a main refrigerant flow path. The first compression stage is a mixed compression stage having both axial and radial components. The compressor further includes a second compression stage arranged in the main refrigerant flow path downstream of the first compression stage. The second compression stage is a radial compression stage.

IPC 8 full level

F25B 1/10 (2006.01); **F04D 1/00** (2006.01); **F04D 3/00** (2006.01); **F04D 17/06** (2006.01); **F04D 17/12** (2006.01); **F04D 19/02** (2006.01); **F25B 1/053** (2006.01)

CPC (source: CN EP US)

F04D 17/025 (2013.01 - US); **F04D 17/06** (2013.01 - EP); **F04D 17/12** (2013.01 - EP); **F04D 17/122** (2013.01 - US); **F04D 19/028** (2013.01 - EP US); **F04D 29/403** (2013.01 - US); **F25B 1/00** (2013.01 - CN); **F25B 1/053** (2013.01 - EP); **F25B 1/10** (2013.01 - EP US); **F25B 41/00** (2013.01 - CN); **F25B 41/31** (2021.01 - CN)

Cited by

EP4015829A1

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

DOCDB simple family (publication)

EP 3633202 A1 20200408; **EP 3633202 B1 20240327**; CN 110986403 A 20200410; CN 110986403 B 20231031; US 2020109879 A1 20200409

DOCDB simple family (application)

EP 19200465 A 20190930; CN 201910899790 A 20190923; US 201916430848 A 20190604