

Title (en)
REFRIGERATION SYSTEM FOR COOLING A CONTAINER

Title (de)
KÄLTEANLAGE ZUR KÜHLUNG EINES CONTAINERS

Title (fr)
INSTALLATION FRIGORIFIQUE POUR REFROIDIR UN CONTENEUR

Publication
EP 2590878 B1 20200429 (DE)

Application
EP 11722022 A 20110528

Priority
• DE 102010026648 A 20100709
• EP 2011002649 W 20110528

Abstract (en)
[origin: WO2012003906A2] The invention relates to a refrigeration system for cooling the interior of a mobile refrigerated space, for example a refrigerated container, comprising two speed-controlled compressors, which can be operated in parallel as a single stage or one after the other as two stages by means of one controllable bypass line per compressor and a controllable valve device between the pressure side and the suction side of each compressor. The valve devices receive signals from a controller having algorithms, into which the usage temperature and ambient temperature are fed as a target value or measured value. The most energy-efficient operating modes and the rotational speeds of the compressors result from the requirements profile of the container refrigeration.

IPC 8 full level
F25B 1/10 (2006.01); **F25B 41/04** (2006.01); **F25D 11/00** (2006.01)

CPC (source: EP US)
F25B 1/10 (2013.01 - EP US); **F25B 41/20** (2021.01 - EP US); **F25B 49/022** (2013.01 - US); **F25B 2309/061** (2013.01 - EP US); **F25B 2400/0401** (2013.01 - EP US); **F25B 2400/075** (2013.01 - EP US); **F25B 2400/13** (2013.01 - EP US); **F25D 11/003** (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

DOCDB simple family (publication)
DE 102010026648 A1 20120112; DE 102010026648 B4 20151231; CN 103038146 A 20130410; CN 103038146 B 20150107;
EP 2590878 A2 20130515; EP 2590878 B1 20200429; US 2013104582 A1 20130502; US 9945597 B2 20180417; WO 2012003906 A2 20120112;
WO 2012003906 A3 20120308

DOCDB simple family (application)
DE 102010026648 A 20100709; CN 201180033734 A 20110528; EP 11722022 A 20110528; EP 2011002649 W 20110528;
US 201113808213 A 20110528