Title (en)

REVERSIBLE SYSTEM FOR RECOVERING THERMAL ENERGY BY SAMPLING AND TRANSFER OF CALORIES FROM ONE OR MORE MEDIA INTO ONE OR MORE OTHER SUCH MEDIA

Title (de)

REVERSIBLES SYSTEM ZUR RÜCKGEWINNUNG VON WÄRMEENERGIE DURCH ENTNAHME UND ÜBERTRAGUNG VON WÄRMEENERGIE VON EINEM ODER MEHREREN MEDIEN IN EIN ODER MEHRERE ANDERE SOLCHER MEDIEN

Title (fr)

SYSTÈME RÉVERSIBLE DE RÉCUPÉRATION D'ÉNERGIE CALORIFIQUE PAR PRÉLÈVEMENT ET TRANSFERT DE CALORIES D'UN OU PLUSIEURS MILIEUX DANS UN AUTRE OU PLUSIEURS AUTRES MILIEUX QUELCONQUES

Publication

EP 2318783 B1 20180919 (FR)

Application

EP 09761796 A 20090612

Priority

- EP 2009057310 W 20090612
- FR 0803258 A 20080612

Abstract (en)

[origin: WO2009150234A1] The invention relates to a reversible system for recovering thermal energy by the sampling and transfer of calories from one or more media into one or more other such media. The innovation is a novel principle of refrigeration operation enabling the following operations to be carried out with a non-reversible plate heat exchanger, a reversible plate heat exchanger, and a finned battery on an outer air circuit: the total or partial return of calories onto the non-reversible heat exchanger from the outer battery or from the reversible heat exchanger in evaporation mode; the total or partial return of calories onto the reversible heat exchanger from the outer battery; refrigeration production onto the reversible heat exchanger with the total or partial discharge of calories onto the non-reversible heat exchanger and/or the outer battery.

IPC 8 full level

F25B 13/00 (2006.01)

CPC (source: EP US)

F25B 13/00 (2013.01 - EP US); F25B 29/003 (2013.01 - EP US); F25B 40/00 (2013.01 - EP US); F25B 40/04 (2013.01 - EP US); F25B 47/022 (2013.01 - EP US); F25B 2313/004 (2013.01 - EP US); F25B 2313/009 (2013.01 - EP US); F25B 2313/02331 (2013.01 - EP US); F25B 2313/02732 (2013.01 - EP US); F25B 2400/04 (2013.01 - EP US); F25B 2400/0401 (2013.01 - EP US); F25B 2400/075 (2013.01 - EP US); F28D 7/106 (2013.01 - EP US)

Designated contracting state (EPC)

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 SE SI SK TR

DOCDB simple family (publication)

WO 2009150234 A1 20091217; BR PI0915033 A2 20151027; BR PI0915033 B1 20191231; BR PI0915033 B8 20200128; CA 2727414 A1 20091217; CA 2727414 C 20170110; DK 2318783 T3 20190121; EP 2318783 A1 20110511; EP 2318783 B1 20180919; FR 2932553 A1 20091218; FR 2932553 B1 20130816; US 2011209491 A1 20110901; US 8726684 B2 20140520

DOCDB simple family (application)

EP 2009057310 W 20090612; BR PI0915033 A 20090612; CA 2727414 A 20090612; DK 09761796 T 20090612; EP 09761796 A 20090612; FR 0803258 A 20080612; US 99734409 A 20090612