

Title (en)
REFRIGERATION SYSTEM AND METHOD WITH CONTROLLABLE HEAT RECOVERY

Title (de)
KÜHLSYSTEM UND -VERFAHREN MIT STEUERBARER WÄRMERÜCKGEWINNUNG

Title (fr)
SYSTEME ET PROCEDE DE REFRIGERATION A RECUPERATION DE CHALEUR REGLABLE

Publication
EP 1802922 A4 20100602 (EN)

Application
EP 05800853 A 20050930

Priority
• US 2005035349 W 20050930
• US 61544004 P 20040930

Abstract (en)
[origin: WO2006039580A1] A method for providing controllable amounts of heat recovery from a refrigerant circuit includes the steps of providing a cooling circuit comprising a compressor, a condenser, an expansion device and an evaporator connected in series by refrigerant flow lines; providing a heat recovery circuit comprising a heat recovery heat exchanger, the heat recovery circuit being connected to the cooling circuit so that the heat recovery heat exchanger is in parallel with the condenser, and the heat recovery heat exchanger being in heat exchange relationship with a fluid to be heated based upon an end-user demand for heat; and selectively flowing refrigerant through the condenser of the cooling circuit and the heat recovery heat exchanger of the heat recovery circuit so as to maintain temperature of the fluid within a temperature band around a set point provided by the end user.

IPC 8 full level
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Citation (search report)
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• [X] JP 2004156847 A 20040603 - MATSUSHITA ELECTRIC IND CO LTD
• [X] US 6502412 B1 20030107 - DUBE SERGE [CA]
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• [Y] FR 2516223 A2 19830513 - ZUNDEL DANIEL [FR]
• See references of WO 2006039580A1

Designated contracting state (EPC)
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WO 2006039580 A1 20060413; CN 101065624 A 20071031; EP 1802922 A1 20070704; EP 1802922 A4 20100602;
US 2009120110 A1 20090514

DOCDB simple family (application)
US 2005035349 W 20050930; CN 200580040776 A 20050930; EP 05800853 A 20050930; US 57631605 A 20050930