Title (en)

MULTI-CIRCUIT REFRIGERANT SYSTEM UTILIZING PULSE WIDTH MODULATION TECHNIQUES

Title (de)

PULSBREITENMODULATIONSTECHNIKEN VERWENDENDES MEHRFACHKREISKÄLTEMITTELSYSTEM

Title (fr)

SYSTEME REFRIGERANT A CIRCUITS MULTIPLES UTILISANT DES TECHNIQUES DE MODULATION DE DUREE D'IMPULSION

Publication

EP 1960717 A1 20080827 (EN)

Application

EP 05848400 A 20051130

Priority

US 2005043340 W 20051130

Abstract (en)

[origin: WO2007064320A1] A multi-circuit refrigerant system incorporates at least one component provided with a pulse width modulation control. This component can be controlled to adjust the capacity provided by the circuit incorporating the component. In this manner, the pulse width modulation component can be controlled to exactly tailor the capacity of that circuit to provide a total desired combined cooling capacity of the multiple circuits within the multi-circuit system configurations. In one embodiment, only one circuit in a multi-circuit refrigerant system incorporates a pulse width modulation controlled component. In another embodiment, a plurality of circuits are provided with pulse width modulation controlled components.

IPC 8 full level

F04B 49/00 (2006.01); **F25B 1/00** (2006.01); **F25B 7/00** (2006.01); **F25B 49/00** (2006.01)

CPC (source: EP US)

F25B 41/22 (2021.01 - EP US); **F25B 49/022** (2013.01 - EP US); F25B 1/04 (2013.01 - EP US); F25B 2400/06 (2013.01 - EP US); F25B 2600/026 (2013.01 - EP US); F25B 2600/2521 (2013.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2007064320 A1 20070607; CN 101454620 A 20090610; CN 101454620 B 20120704; EP 1960717 A1 20080827; EP 1960717 A4 20100825; HK 1133067 A1 20100312; US 2008250812 A1 20081016

DOCDB simple family (application)

US 2005043340 W 20051130; CN 200580052184 A 20051130; EP 05848400 A 20051130; HK 09110757 A 20091117; US 8895405 A 20051130