

Title (en)
TRANSPORT REFRIGERATION UNIT

Title (de)
TRANSPORTKÜHLEINHEIT

Title (fr)
UNITE FRIGORIFIQUE DE TRANSPORT

Publication
EP 2008035 A4 20130123 (EN)

Application
EP 07751951 A 20070228

Priority
• US 2007005220 W 20070228
• US 78724406 P 20060330

Abstract (en)
[origin: WO2007126523A1] A refrigerant unit associated with a product transport container is provided with a dual-path, parallel flow expansion circuit. The expansion circuit includes a primary expansion device disposed in a primary refrigerant flow path and an auxiliary expansion device disposed in a secondary refrigerant flow path. During operation of the refrigeration unit in a stable temperature maintenance mode, refrigerant flow is supplied to the evaporator coil through the primary refrigerant flow path only. During operation of the refrigeration unit in a temperature pull-down mode, to increase the refrigerant mass flow through the evaporator coil, refrigeration flow is supplied to the evaporator coil through the primary refrigerant flow path and the secondary refrigerant flow path of the expansion circuit.

IPC 8 full level
F25B 1/04 (2006.01); **F25B 40/06** (2006.01); **F25B 41/06** (2006.01)

CPC (source: EP US)
F25B 41/385 (2021.01 - EP US); **F25B 1/04** (2013.01 - EP US); **F25B 40/00** (2013.01 - EP US); **F25B 2400/13** (2013.01 - EP US); **F25B 2500/26** (2013.01 - EP US); **F25B 2600/2501** (2013.01 - EP US); **F25D 2400/28** (2013.01 - EP US)

Citation (search report)
• [XAY] DE 10055916 A1 20020523 - BSH BOSCH SIEMENS HAUSGERAETE [DE]
• [XAY] US 2306534 A 19421229 - FRERES MAX P
• [XA] JP 2002039637 A 20020206 - SHIN MEIWA IND CO LTD
• [XA] GB 2328270 A 19990217 - TOSHIBA KK [JP]
• [XA] DE 951815 C 19561108 - CARRIER CORP
• [X] JP 2002062020 A 20020228 - TOSHIBA CORP
• [E] EP 1923645 A1 20080521 - DAIREI CO LTD [JP], et al
• [A] US 3866439 A 19750218 - BUSSJAGER RUDY C, et al
• See references of WO 2007126523A1

Designated contracting state (EPC)
DE FR

DOCDB simple family (publication)
WO 2007126523 A1 20071108; CN 101416004 A 20090422; EP 2008035 A1 20081231; EP 2008035 A4 20130123; JP 2009532654 A 20090910; US 2009038322 A1 20090212

DOCDB simple family (application)
US 2007005220 W 20070228; CN 200780012258 A 20070228; EP 07751951 A 20070228; JP 2009502805 A 20070228; US 28277107 A 20070228