

Title (en)

REFRIGERATING SYSTEM AND METHOD FOR OPERATING A REFRIGERATING SYSTEM

Title (de)

KÄLTEANLAGE UND VERFAHREN ZUM BETREIBEN EINER KÄLTEANLAGE

Title (fr)

INSTALLATION FRIGORIFIQUE ET PROCEDE POUR FAIRE FONCTIONNER UNE INSTALLATION FRIGORIFIQUE

Publication

**EP 1714094 A1 20061025 (DE)**

Application

**EP 05707175 A 20050203**

Priority

- EP 2005001092 W 20050203
- DE 102004006271 A 20040209

Abstract (en)

[origin: WO2005075901A1] The invention relates to a novel refrigerating system comprising at least one refrigerating consumer provided with at least one evaporator, at least one supply line and at least one withdrawal line which enable the coolant or the coolant mixture to be supplied to and/or withdrawn from the refrigerating consumer(s). Expansion elements are associated with the evaporator(s). According to the invention, the expansion elements are embodied as modified expansion valves (a, b, c) and/or as modified linear expansion machines or the by-pass lines (4) are associated therewith, and a modified linear compressor (x, y, z) or a traditional compressor (x'), which comprises a by-pass line (5), is associated with each refrigerating consumer (V', V'', V'''). The modified expansion valve(s) (a, b, c) and/or the modified linear expansion machine(s) and/or the modified linear compressor(s) (x, y, z) have a working position which enables a through-flow without a considerable drop in pressure. The invention also relates to two alternative methods which are used to operate a refrigerating system.

IPC 8 full level

**F25B 5/02** (2006.01); **F25B 40/00** (2006.01); **F25B 41/00** (2006.01); **F25B 47/02** (2006.01)

CPC (source: EP US)

**F25B 5/02** (2013.01 - EP US); **F25B 40/00** (2013.01 - EP US); **F25B 41/00** (2013.01 - EP US); **F25B 47/02** (2013.01 - EP US); **F25B 41/40** (2021.01 - EP US); **F25B 2339/047** (2013.01 - EP US); **F25B 2400/0401** (2013.01 - EP US); **F25B 2400/0411** (2013.01 - EP US); **F25B 2400/073** (2013.01 - EP US); **F25B 2400/075** (2013.01 - EP US); **F25B 2400/14** (2013.01 - EP US); **F25B 2400/22** (2013.01 - EP US); **F25B 2500/01** (2013.01 - EP US)

Citation (search report)

See references of WO 2005075901A1

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 MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**WO 2005075901 A1 20050818**; DE 102004006271 A1 20050825; EP 1714094 A1 20061025; US 2007220910 A1 20070927

DOCDB simple family (application)

**EP 2005001092 W 20050203**; DE 102004006271 A 20040209; EP 05707175 A 20050203; US 58909105 A 20050203