

Title (en)
A refrigeration plant

Title (de)
Kälteanlage

Title (fr)
Installation frigorifique

Publication
EP 1637819 A3 20061227 (EN)

Application
EP 05445051 A 20050622

Priority
SE 0402168 A 20040910

Abstract (en)
[origin: EP1637819A2] A refrigeration plant comprising a refrigerant circuit (10) including a first pump (12), a first heat consumer (11, 14), at least two secondary heat exchangers (31-33) which are connected in parallel across conducting parts (10a, 10b) of the circuit (10) said parts (10a, 10b) being connecting to the heat consumer (11) and functioning to cool a respective heat emitting unit (51-53, 51'-53') which is through-passed by refrigerant and which belongs to at least one refrigeration plant (41';41-43), such as a refrigerator or freezer. The pumps (12 21) are adapted to drive the refrigerant in mutually opposite directions such that the circuit will obtain a low pressure side (10a) and a high pressure side (10b). The plant also includes a pressure difference sensor (22) which detects the pressure difference between the low pressure side (10a) and the high pressure side (10b). The second pump (21) is adapted to deliver a generally constant flow of refrigerant. A shunt line (60) is established between the high pressure side (10b) and the low pressure side (10a) and contains a device (61) for controlling the flow of refrigerant through the shunt line (60), wherein the flow controlling device (61) is controlled by the pressure difference sensor so as to maintain a generally constant pressure difference between the high pressure side (10b) and the low pressure side (10a).

IPC 8 full level
F25B 25/00 (2006.01); **F25B 29/00** (2006.01); **F25B 49/02** (2006.01)

IPC 8 main group level
F25B (2006.01)

CPC (source: EP)
F25B 25/005 (2013.01); **F25B 29/003** (2013.01); **F25B 49/02** (2013.01); **F25B 2400/06** (2013.01)

Citation (search report)
• [DA] EP 1262722 A2 20021204 - INGENJOERS LENNART ASTEBERG AB [SE]
• [A] WO 0119519 A1 20010322 - MIRAI ELECTRONICS AB [SE], et al

Cited by
US11584483B2; US10399642B2; US10435118B2; US10953956B2

Designated contracting state (EPC)
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Designated extension state (EPC)
AL BA HR LV MK YU

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