

Title (en)

Free cooling chiller

Title (de)

Kühler mit freier Kühlung

Title (fr)

Réfrigérant à refroidissement naturel

Publication

**EP 1855070 A3 20091125 (EN)**

Application

**EP 07009535 A 20070511**

Priority

IT PD20060186 A 20060512

Abstract (en)

[origin: EP1855070A2] Free cooling chiller (1) comprising a primary circuit (2) of a refrigerating plant, provided with an evaporator (6), a condenser group (5) and a compressor (4) and able to perform heat exchange by means of the evaporator (6) with a secondary circuit (3) for transferring refrigerating power to user appliances. The secondary circuit (3) is provided with a return line (10) intercepted by a free cooling group (13) and a circuit for bypassing the free cooling group. The chiller (1) is provided with a support structure (14) defining a containing compartment (16) acted on by an air flow produced by a ventilation unit (15). The condenser group (5) and the free cooling group (13), which are intercepted by corresponding gate valves (17,18), communicate via separate sections with the compartment (16).

IPC 8 full level

**F25D 17/02** (2006.01)

CPC (source: EP)

**F25D 16/00** (2013.01); **F25D 17/02** (2013.01)

Citation (search report)

- [DA] GB 2218499 A 19891115 - MITSUBISHI ELECTRIC CORP [JP]
- [DA] US 5970729 A 19991026 - YAMAMOTO MASAYUKI [JP], et al

Cited by

US2010242532A1; EP2091314A3; EP2503866A3; EP2498025A3; US2018187915A1; US10557643B2; US11022349B2; US11175076B2; US11359847B2; US11774154B2; US9179580B2; US11506406B2; US10739045B2; US11598549B2; WO2011003692A1; US10488061B2; US11199356B2; US11415330B2; US11867426B2; US8199504B2; EP2498024A2; EP2498025A2; EP2503866A2; US8839638B2

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 MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

**EP 1855070 A2 20071114**; **EP 1855070 A3 20091125**; **EP 1855070 B1 20110316**; AT E502270 T1 20110415; DE 602007013137 D1 20110428; IT PD20060186 A1 20071113

DOCDB simple family (application)

**EP 07009535 A 20070511**; AT 07009535 T 20070511; DE 602007013137 T 20070511; IT PD20060186 A 20060512