

Title (en)
System for the refrigeration of a liquid and method for controlling said system

Title (de)
System zum Kühlen einer Flüssigkeit und Verfahren zur Steuerung dieses Systems

Title (fr)
Système de réfrigération d'un liquide et procédé pour commander un tel système

Publication
EP 2535671 A3 20150708 (EN)

Application
EP 12171665 A 20120612

Priority
IT MI20111061 A 20110613

Abstract (en)
[origin: EP2535671A2] A system for the refrigeration of a liquid suitable for circulating between at least one inlet (1) and at least one outlet (2) of a primary liquid cooling circuit (3), comprises at least a first air-cooled refrigeration unit (4) having at least a first air-cooled cooling coil (6) inserted on the primary liquid cooling circuit (3), at least a second refrigeration unit (5) with a cooling cycle having at least one evaporator (7) inserted on the primary liquid cooling circuit (3) in cascade with the first air-cooled cooling coil (6), means for shutting off the first air-cooled cooling coil (6) from the primary liquid cooling circuit (3), forced air ventilation means suitable for acting on at least the first air-cooled cooling coil (6) and on at least a second air-cooled cooling coil (10) provided for at least one condenser of the second refrigeration unit (5) for condensing the refrigerant fluid operating in the cooling cycle, there being further provided a secondary liquid circuit (13) on which at least the first air-cooled cooling coil (6) and at least one secondary exchanger (14) for subcooling the refrigerant fluid leaving the second air-cooled cooling coil are inserted.

IPC 8 full level
F25B 25/00 (2006.01); **F25B 41/00** (2006.01); **F25D 16/00** (2006.01)

CPC (source: EP)
F25B 25/005 (2013.01); **F25B 41/00** (2013.01)

Citation (search report)

- [X] EP 2233863 A2 20100929 - JOHNSON CONTROLS TECHNOLOGY C [US]
- [A] EP 1134523 A1 20010919 - RC GROUP S P A [IT]
- [A] GB 2218499 A 19891115 - MITSUBISHI ELECTRIC CORP [JP]

Cited by
WO2021099955A1; CN114740915A; CN115006866A; IT201900021486A1; ITUA20162491A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
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