

Title (en)
Cooling System

Title (de)
Kühlsystem

Title (fr)
Système de refroidissement

Publication
EP 1630496 A3 20070829 (EN)

Application
EP 05255234 A 20050825

Priority
KR 20040068118 A 20040827

Abstract (en)
[origin: EP1630496A2] A cooling system including a compressor (10) compressing a refrigerant and a condenser (60) condensing the compressed refrigerant, includes: an evaporator section (51, 52) having a plurality of evaporators (51, 52) evaporating the refrigerant condensed in the condenser (60); a switching valve (30) on a refrigerant line between the condenser (60) and the evaporator, and selectively switching a refrigerant supply to the plurality of evaporators (51, 52); and a refrigerant expansion part (41, 42) adjacent to at least one of the evaporators, allowing refrigerant introduced into the plurality of evaporators (51, 52) through the switching valve (30) to expand. A refrigerant inlet of the refrigerant expansion part (41, 42) adjacent to any of the evaporators is connected to the switching valve (30), and a refrigerant outlet thereof is connected to an inlet of another evaporator.

IPC 8 full level
F25B 47/02 (2006.01); **F25B 39/02** (2006.01); **F25D 21/04** (2006.01)

CPC (source: EP KR US)
F25B 39/022 (2013.01 - EP US); **F25B 47/02** (2013.01 - EP KR US); **F25D 21/06** (2013.01 - KR); **F25B 2347/021** (2013.01 - EP US); **F25B 2400/052** (2013.01 - EP US); **F25B 2500/18** (2013.01 - EP US); **F25B 2600/2511** (2013.01 - EP US)

Citation (search report)
• [X] GB 2143014 A 19850130 - HOTPOINT LTD
• [X] WO 0237038 A1 20020510 - ARCELIK AS [TR], et al

Cited by
CN109442836A; DE102015120138B4

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 NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
EP 1630496 A2 20060301; **EP 1630496 A3 20070829**; KR 100597748 B1 20060707; KR 20060019433 A 20060303; US 2006042310 A1 20060302

DOCDB simple family (application)
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