

Title (en)  
Multi-functioning air conditioning system

Title (de)  
Multifunktionsklimaanlage

Title (fr)  
Système de climatisation multifonction

Publication  
**EP 2469199 A1 20120627 (EN)**

Application  
**EP 10425393 A 20101224**

Priority  
EP 10425393 A 20101224

Abstract (en)  
Multi-functioning air-conditioning system able to provide hot or cold air and sanitary hot water, wherein a first circuit comprises at least a heat regenerator (1), a condenser/evaporator (2), a "lap" refrigerating battery (3), a four outputs flux adjusting valve (11, 11'), flux adjusting solenoid valves (12, 12', 13, 13', 14, 14', 10, 10'), a compressor (15, 15'), a throttling valve (16); a second circuit comprises at least a heat regenerator (1), a condenser/evaporator (2), a "lap" refrigerating battery (3), flux distributing pumps (4, 7), accumulation tanks (5, 6), a four outputs flux adjusting valve (11, 11'), flux adjusting solenoid valves (12, 12', 13, 13', 14, 14', 10, 10'), a compressor (15, 15'), a throttling valve (16), characterized in that: the regenerator (1) and a condenser/evaporator (2) function as two machines in series and they are shared by the first and the second circuit; at least a lap refrigerating battery (3) is introduced in the two circuits systems which is apt to carry out the defrosting without producing negative energy on the evaporator.

IPC 8 full level  
**F25B 5/04** (2006.01); **F25B 6/04** (2006.01); **F25B 13/00** (2006.01); **F25B 47/02** (2006.01)

CPC (source: EP)  
**F25B 5/04** (2013.01); **F25B 6/04** (2013.01); **F25B 13/00** (2013.01); **F25B 47/022** (2013.01); **F25B 2313/02741** (2013.01); **F25B 2339/047** (2013.01); **F25B 2400/06** (2013.01)

Citation (search report)  
• [A] US 5996356 A 19991207 - KISHIMOTO AKIO [JP], et al  
• [A] WO 2010021321 A1 20100225 - DAIKIN IND LTD [JP], et al  
• [A] JP 2003106712 A 20030409 - SANYO ELECTRIC CO, et al  
• [A] EP 0805312 A2 19971105 - SANYO ELECTRIC CO [JP]

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)  
**EP 2469199 A1 20120627**

DOCDB simple family (application)  
**EP 10425393 A 20101224**