

Title (en)
TWO PHASE OR SUBCOOLING REHEAT SYSTEM

Title (de)
ZWEIPHASEN ODER UNTERKÜHLUNGS-AUFWÄRMSYSTEM

Title (fr)
SYSTEME DE RECHAUFFEMENT DE SURFUSION OU BIPHASIQUE

Publication
EP 1771691 A4 20090902 (EN)

Application
EP 05753763 A 20050524

Priority
• US 2005018164 W 20050524
• US 85236804 A 20040524

Abstract (en)
[origin: WO2005116540A1] A method for removing humidity from air comprising the steps of providing an air conditioning system comprising a continuous circuit through which a refrigerant flows form a compressor, through a condenser, through a heat exchanger, through an evaporator, and returning to the compressor, providing a bypass valve through which a portion of the refrigerant flows around the heat exchanger, providing a bypass circuit through which a portion of the refrigerant flows from a point upstream of the condenser to mix with the refrigerant at a point downstream of the condenser, providing a discharge gas valve for controlling the portion of the refrigerant flowing through the bypass circuit, measuring an outdoor temperature and a relative humidity, determining a cooling stage and operating the bypass valve and the discharge gas valve to remove a portion of the humidity from the air based upon the outdoor temperature, the relative humidity, and the cooling stage.

IPC 8 full level
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CPC (source: EP)
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Citation (search report)
• [Y] US 3798920 A 19740326 - MORGAN R
• [Y] US 2004079096 A1 20040429 - ITOH SATOSHI [JP], et al
• [A] US 5664425 A 19970909 - HYDE ROBERT E [US]
• [A] EP 0760453 A2 19970305 - CARRIER CORP [US]
• [A] US 5651258 A 19970729 - HARRIS BRADFORD F [US]
• [A] US 2961844 A 19601129 - MCGRATH WILLIAM L
• See references of WO 2005116540A1

Designated contracting state (EPC)
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DOCDB simple family (publication)
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