

Title (en)
Air-conditioning apparatus and method

Title (de)
Klimaanlage und entsprechendes Verfahren

Title (fr)
Appareil et procédé de climatisation d'air

Publication
EP 1923641 A3 20090506 (EN)

Application
EP 07253053 A 20070802

Priority
CN 200610148467 A 20061114

Abstract (en)
[origin: EP1923641A2] An air-conditioning apparatus includes upper and lower chambers (21, 22), and first and second heat exchange units (3, 4) respectively disposed in the upper and lower chambers (21, 22) and respectively having first and second working fluids (30, 40). The first heat exchange unit (3) has a condenser (31) and a first fan (32) adapted to draw air into the upper chamber (21) for exchange of heat with the condenser (31). The second heat exchange unit (4) has an evaporator (41) and a second fan (42) adapted to draw air into the lower chamber (22) for exchange of heat with the evaporator (41). First and second tubing units (6, 7) are respectively connected to the condenser (31) and the evaporator (41) and each has a heat exchange tube section (61, 71). The heat exchange tube sections (61, 71) of the first and tubing units (6, 7) are associated with each other such that the second working fluid (40) transfers heat to the first working fluid (30).

IPC 8 full level
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CPC (source: EP)
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Citation (search report)

- [XY] US 3111813 A 19631126 - WOLFRAM BLUMENTRITT
- [Y] GB 1050798 A
- [X] US 2947150 A 19600802 - ROEDER JR JOHN
- [X] GB 981419 A 19650127 - SIEMENS ELEKTROGERAETE GMBH
- [X] GB 980458 A 19650113 - SIEMENS ELEKTROGERAETE GMBH
- [X] US 2932953 A 19600419 - JOHN BECKET FREDERICK, et al
- [A] US 2004177621 A1 20040916 - CHEN TSUNG-CHIH [TW]
- [A] US 4718249 A 19880112 - HANSON WALLACE G [US]
- [A] FR 2407447 A1 19790525 - LUTARD FRANCOIS [FR]
- [A] US 3054840 A 19620918 - ALSING CARL F

Cited by
EP2295879A1

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