

Title (en)
Mobile air conditioner

Title (de)
Tragbare Klimaanlage

Title (fr)
Climatiseur mobile

Publication
EP 1909043 A2 20080409 (EN)

Application
EP 07113596 A 20070801

Priority
CN 200610096263 A 20060929

Abstract (en)
The present invention relates to a mobile air conditioner which comprises an insulated housing (3) having a cooled air outlet (12) and a heated air outlet (13), an evaporator (1) located in the said housing (3), a condenser (2), an electrical fan (4) having an air chamber (5), and a reservoir (9) for collecting condensed water formed on the evaporator (1). The evaporator (1) is located between the air chamber (5) and cooled air outlet (12); while the condenser (2) is located between the air chamber (5) and heated air outlet (13). The cavity of the said reservoir (9) is in fluid connection with a drain channel (10) which has a drain meatus located in the air-discharge passage (6) extended from the air outlet (15) of the air chamber (5) to the condenser (2). The condensed water from the reservoir (9) to the drain channel can be atomized into tiny drips by rapid air flow from the air chamber (5). The tiny drips are blown through the drain channel (10) onto the condenser (2) for being heated and onto the evaporator (1) for being cooled, then flowing into the reservoir at last. The above-described process can be repeated circularly during the air conditioner being in operation. It is much more convenient that this treatment of condensed water can keep the reservoir (9) from being filled without emptying it manually.

IPC 8 full level
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CPC (source: EP US)
F24F 1/022 (2013.01 - EP US); **F24F 1/04** (2013.01 - EP US); **F24F 13/222** (2013.01 - EP US); **F24F 2013/225** (2013.01 - EP US)

Cited by
US9644852B2; WO2013108276A1

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