

Title (en)

Radiator for home heating with a two-phase heat transfer fluid

Title (de)

Heizkörper für Haushalte mit Zweiphasen-Wärmeübertragungsmittel

Title (fr)

Radiateur pour chauffage domestique à fluide caloporteur diphasique

Publication

EP 2023055 B1 20151007 (FR)

Application

EP 08300223 A 20080617

Priority

FR 0756987 A 20070807

Abstract (en)

[origin: EP2023055A1] The radiator has a container (3) for storing a heat transfer fluid, and an electric heating resistor (6) destined to raise the temperature of the fluid to a given temperature, in order to change the phase of the fluid. A section of connecting zones (5) separating the container and channels (4) is higher than or equal to an expression i.e. $(Ax P^{>4>>5>})/n$, where A is constant that depends on nature of the fluid and temperature of the fluid, n is number of channels, and P is power of the electric heating resistor. The heat transfer fluid is water, ethanol, synthetic polymer material such as chlorofluorocarbon, and a HFR 7100(RTM: hydrofluoroether).

IPC 8 full level

F24H 3/00 (2006.01)

CPC (source: EP US)

F24H 3/004 (2013.01 - EP US); **F24D 2220/10** (2013.01 - EP US)

Cited by

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DOCDB simple family (publication)

EP 2023055 A1 20090211; **EP 2023055 B1 20151007**; FR 2919919 A1 20090213; FR 2919919 B1 20120518; JP 2009041899 A 20090226; US 2009041441 A1 20090212; US 7949236 B2 20110524

DOCDB simple family (application)

EP 08300223 A 20080617; FR 0756987 A 20070807; JP 2008151083 A 20080609; US 13210708 A 20080603