

Title (en)

HEATER AND OUTDOOR UNIT FOR REFRIGERATION UNIT PROVIDED WITH HEATER

Title (de)

HEIZELEMENT UND AUSSENEINHEIT FÜR EINE KÜHLEINHEIT MIT DEM HEIZELEMENT

Title (fr)

RÉCHAUFFEUR ET UNITÉ EXTÉRIEURE POUR UNE UNITÉ DE RÉFRIGÉRATION ÉQUIPÉE D'UN RÉCHAUFFEUR

Publication

EP 2792955 A4 20151202 (EN)

Application

EP 12857382 A 20121212

Priority

- JP 2011271295 A 20111212
- JP 2012007949 W 20121212

Abstract (en)

[origin: EP2792955A1] An outdoor unit (10) includes a casing (20) including four side surfaces (4). The outdoor unit (10) includes an outdoor heat exchanger (30) disposed in the casing (20), including four heat exchange surfaces (30a) corresponding to the side surfaces (4) of the casing (20), and including an opening (3a) disposed on side surfaces of the outdoor heat exchanger (30). A heater (75) is in a shape of a rectangular frame along a lower end portion of the outdoor heat exchanger (30), and avoids freeze of drain water on the outdoor heat exchanger (30). The heater (75) includes hinges (70) allowing the heater to fold longitudinally.

IPC 8 full level

F24F 1/22 (2011.01); **F24F 1/18** (2011.01); **F24F 1/36** (2011.01); **F24F 1/46** (2011.01); **F24F 1/50** (2011.01); **F24F 11/00** (2006.01); **F24F 13/22** (2006.01)

CPC (source: EP US)

F24F 1/18 (2013.01 - EP US); **F24F 1/22** (2013.01 - EP US); **F24F 1/36** (2013.01 - EP US); **F24F 1/46** (2013.01 - EP US); **F24F 1/50** (2013.01 - EP US); **F24F 11/42** (2017.12 - EP US); **F24F 2013/221** (2013.01 - EP US); **F24F 2221/34** (2013.01 - EP US)

Citation (search report)

- [A] WO 2011027709 A1 20110310 - MITSUBISHI HEAVY IND LTD [JP], et al
- [A] JP 2011112311 A 20110609 - DAIKIN IND LTD
- See references of WO 2013088713A1

Cited by

EP3690329A1; US11428421B2; CN110770509A; EP3663659A4

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