

Title (en)

ELECTRIC HEATER IN AIR CONDITIONER FOR VEHICLE, AND METHOD FOR MANUFACTURING SAME

Title (de)

ELEKTRISCHER HEIZER IN EINER KLIMAAANLAGE FÜR EIN FAHRZEUG UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)

DISPOSITIF DE CHAUFFAGE ÉLECTRIQUE DANS CLIMATISEUR POUR VÉHICULE ET SON PROCÉDÉ DE FABRICATION

Publication

**EP 3530502 A4 20191113 (EN)**

Application

**EP 17881949 A 20171115**

Priority

- JP 2016241415 A 20161213
- JP 2017041144 W 20171115

Abstract (en)

[origin: EP3530502A1] The distance between an upper holding wall 81a and a lower holding wall 82a of a downstream frame-forming member 80 is kept equal to or larger than the total dimension of heating bodies 50 to 53, fins 54, insulating plates 56 to 58, and an upper spring member 55 in a stacking direction of these components.

IPC 8 full level

**B60H 1/22** (2006.01); **B60H 1/03** (2006.01); **F24H 3/04** (2006.01); **H05B 3/06** (2006.01)

CPC (source: EP)

**F24H 3/0464** (2013.01); **F24H 3/0476** (2013.01); **H05B 3/06** (2013.01)

Citation (search report)

- [XYI] EP 1564503 A1 20050817 - CATEM GMBH & CO KG [DE]
- [Y] JP 2002124332 A 20020426 - SUMITOMO WIRING SYSTEMS
- [Y] EP 1432287 A1 20040623 - CATEM GMBH & CO KG [DE]
- [A] EP 2017547 A1 20090121 - CATEM GMBH & CO KG [DE]
- See references of WO 2018110192A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 3530502 A1 20190828**; **EP 3530502 A4 20191113**; **EP 3530502 B1 20200819**; CN 109982880 A 20190705; JP 2018095074 A 20180621; JP 6936575 B2 20210915; WO 2018110192 A1 20180621

DOCDB simple family (application)

**EP 17881949 A 20171115**; CN 201780072228 A 20171115; JP 2016241415 A 20161213; JP 2017041144 W 20171115