

Title (en)  
DEVICE FOR THERMAL REGULATION OF AT LEAST ONE ELECTRICAL COMPONENT

Title (de)  
VORRICHTUNG ZUR THERMISCHEN REGELUNG MINDESTENS EINES ELEKTRISCHEN BAUTEILS

Title (fr)  
DISPOSITIF DE RÉGULATION THERMIQUE D'AU MOINS UN COMPOSANT ÉLECTRIQUE

Publication  
**EP 4073872 A1 20221019 (FR)**

Application  
**EP 20845402 A 20201211**

Priority  
• FR 1914323 A 20191212  
• FR 2020052399 W 20201211

Abstract (en)  
[origin: WO2021116628A1] Thermal regulation device (3) intended for at least one electrical component (5) whose temperature must be regulated, the thermal regulation device (3) comprising at least a housing (25), a cover lid (27) affixed to said housing (25) and a first circuit (15), configured to allow circulation of a dielectric fluid, the housing (25) comprising at least a plurality of lateral walls (29) delimiting an internal volume (500) of the housing (25) in which at least the electrical component (5) extends, the first circuit (15) comprising at least one dielectric fluid supply duct (49) formed between the housing (25) and the lid (27), at least one of the lateral walls (29) and/or the bottom wall (31) comprising at least one orifice (37) for spraying the dielectric fluid into the internal volume (500), this being fluidically connected at least to the supply duct (49).

IPC 8 full level  
**H01M 10/60** (2014.01); **H01M 10/6568** (2014.01); **H05K 7/20** (2006.01)

CPC (source: EP US)  
**H01M 10/613** (2015.04 - EP US); **H01M 10/625** (2015.04 - EP); **H01M 10/6555** (2015.04 - EP); **H01M 10/6556** (2015.04 - US); **H01M 10/6557** (2015.04 - EP); **H01M 10/6567** (2015.04 - EP); **H01M 10/6568** (2015.04 - US); **H01M 10/6569** (2015.04 - EP); **H01M 50/222** (2021.01 - US); **H01M 50/224** (2021.01 - US); **H01M 50/227** (2021.01 - US); **H01M 50/229** (2021.01 - US); **H01M 50/276** (2021.01 - US); **H01M 50/278** (2021.01 - US); **H01M 50/28** (2021.01 - US); **H05K 7/20236** (2013.01 - EP); **H05K 7/20327** (2013.01 - US); **H05K 7/20345** (2013.01 - US); **H01M 2220/20** (2013.01 - US); **Y02E 60/10** (2013.01 - EP)

Citation (search report)  
See references of WO 2021116628A1

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)  
**WO 2021116628 A1 20210617**; CN 115004452 A 20220902; EP 4073872 A1 20221019; FR 3104893 A1 20210618; FR 3104893 B1 20220107; US 2023017975 A1 20230119

DOCDB simple family (application)  
**FR 2020052399 W 20201211**; CN 202080094608 A 20201211; EP 20845402 A 20201211; FR 1914323 A 20191212; US 202017783281 A 20201211