

Title (en)
DEVICE FOR THERMALLY REGULATING AN ELECTRONIC COMPONENT

Title (de)
VORRICHTUNG ZUR THERMISCHEN REGELUNG EINES ELEKTRONISCHEN BAUTEILS

Title (fr)
DISPOSITIF DE RÉGULATION THERMIQUE POUR UN COMPOSANT ÉLECTRIQUE

Publication
EP 4078720 A1 20221026 (FR)

Application
EP 20842266 A 20201207

Priority
• FR 1915327 A 20191220
• FR 2020052314 W 20201207

Abstract (en)
[origin: WO2021123554A1] Device (1) for thermally regulating an electrical or electronic component (3, 31) to be temperature-controlled, the electrical or electronic component (3, 31) being capable of giving off heat during operation, the thermal regulation device (1) comprising a housing (27) configured to house the electrical or electronic component (3, 31), a circuit (43) and a device (45) for spraying a dielectric fluid having a phase change temperature such that the fluid can be vaporised upon contact with the electrical or electronic component (3, 31), the housing (27) comprising at least one wall (5) for condensing the dielectric fluid in its vaporised form and an external face (7) and/or an internal face (9) comprising at least reliefs (11) configured to promote condensation of the dielectric fluid in the vaporised state.

IPC 8 full level
H01M 10/6551 (2014.01); **H01M 10/6569** (2014.01)

CPC (source: EP US)
H01M 10/625 (2015.04 - US); **H01M 10/6551** (2015.04 - EP US); **H01M 10/6569** (2015.04 - EP US); **H01M 50/209** (2021.01 - US); **Y02E 60/10** (2013.01 - EP)

Citation (search report)
See references of WO 2021123554A1

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

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
FR 3105717 A1 20210625; FR 3105717 B1 20220114; CN 115136388 A 20220930; EP 4078720 A1 20221026; US 2023387496 A1 20231130; WO 2021123554 A1 20210624

DOCDB simple family (application)
FR 1915327 A 20191220; CN 202080096998 A 20201207; EP 20842266 A 20201207; FR 2020052314 W 20201207; US 202017786946 A 20201207