

Title (en)

ELECTRONIC DEVICE HAVING A COOLING APPARATUS, AND ASSOCIATED ASSEMBLY METHOD

Title (de)

ELEKTRONISCHES GERÄT MIT KÜHLVORRICHTUNG UND EIN ZUGEHÖRIGES MONTAGEVERFAHREN

Title (fr)

APPAREIL ÉLECTRONIQUE MUNI D'UN DISPOSITIF DE REFROIDISSEMENT ET PROCÉDÉ DE MONTAGE AFFÉRENT

Publication

EP 3677105 A1 20200708 (DE)

Application

EP 18815550 A 20181127

Priority

- AT 509882017 A 20171129
- EP 2018082722 W 20181127

Abstract (en)

[origin: WO2019105941A1] The invention relates to an electronic device, in particular a control device, which is arranged in a housing (1) and comprises a carrier plate (2). The housing (1) has at least a first housing part (3) and a second housing part (4) and accommodates a spring carrier (6) which is braced with the housing (1) and mechanically and thermally contacts the carrier plate (2) via at least a first plastic spring (7). According to the invention, the housing (1) has, on its outer surface, at least one first plug connector (8) in the form of a molding on the housing (1), at least a first contact-making element (10), which is connected to the carrier plate (2), is arranged in the at least first plug connector (8), and a heat sink (11) is in contact with the carrier plate (2), said heat sink being in the form of an insert in the at least first housing part (3). The result is a compact device with effective cooling and a favourable possibility for adaptation of a plug assembly to a predefined limited installation space.

IPC 8 full level

H05K 7/20 (2006.01); **H05K 5/00** (2006.01)

CPC (source: AT EP)

H01R 12/724 (2013.01 - AT); **H05K 5/0043** (2013.01 - EP); **H05K 5/0069** (2013.01 - AT); **H05K 7/20854** (2013.01 - AT EP); **H01R 12/724** (2013.01 - EP)

Citation (search report)

See references of WO 2019105941A1

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 2019105941 A1 20190606; AT 520694 A1 20190615; AT 520694 B1 20200115; EP 3677105 A1 20200708

DOCDB simple family (application)

EP 2018082722 W 20181127; AT 509882017 A 20171129; EP 18815550 A 20181127