

Title (en)

HERMETICALLY SEALED, HARDENED GLASS HOUSING AND METHOD FOR THE PRODUCTION THEREOF

Title (de)

HERMETISCH VERSCHLOSSENE GEHÄRTETE GLASUMHÄUSUNG UND VERFAHREN ZU DEREN HERSTELLUNG

Title (fr)

ENCEINTE EN VERRE TREMPÉ FERMÉE HERMÉTIQUEMENT ET PROCÉDÉ POUR LA FABRIQUER

Publication

EP 3999467 A1 20220525 (DE)

Application

EP 20750184 A 20200716

Priority

- DE 102019119195 A 20190716
- EP 2020070172 W 20200716

Abstract (en)

[origin: WO2021009297A1] The invention relates to a hermetically sealed housing comprising a base substrate and a cover substrate, which form at least one part of the housing, at least one functional region surrounded by the housing, wherein at least the cover substrate preferably comprises a glass-type material, wherein the base substrate and the cover substrate are joined in a hermetically sealed manner with at least one laser bonding line, wherein the laser bonding line has a height HL perpendicular to its connection plane, wherein at least the cover substrate has a hardened layer on the surface on the side opposite the laser bonding line, preferably a chemically hardened layer, wherein the hardened layer preferably exerts a compressive stress on the cover substrate.

IPC 8 full level

B81B 7/00 (2006.01); **B81C 1/00** (2006.01)

CPC (source: CN EP US)

B81B 7/0041 (2013.01 - CN EP); **B81B 7/0058** (2013.01 - US); **B81C 1/00269** (2013.01 - CN EP); **B81C 1/00333** (2013.01 - US); **B81C 2203/0109** (2013.01 - CN EP); **B81C 2203/0118** (2013.01 - US); **B81C 2203/0163** (2013.01 - US)

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)

DE 102019119195 A1 20210121; CN 114080368 A 20220222; EP 3999467 A1 20220525; JP 2022541499 A 20220926; US 11993511 B2 20240528; US 2022135398 A1 20220505; WO 2021009297 A1 20210121

DOCDB simple family (application)

DE 102019119195 A 20190716; CN 202080050150 A 20200716; EP 2020070172 W 20200716; EP 20750184 A 20200716; JP 2022502803 A 20200716; US 202217648007 A 20220114