

Title (en)
BODY MADE OF A BRITTLE MATERIAL AND A METALLIC MATERIAL, AND METHOD FOR PRODUCING AN INTEGRAL CONNECTION BETWEEN A BRITTLE MATERIAL AND A METALLIC MATERIAL

Title (de)
KÖRPER AUS EINEM SPRÖDBRÜCHIGEN MATERIAL UND EINEM METALLISCHEN MATERIAL SOWIE EIN VERFAHREN ZUR HERSTELLUNG EINER STOFFSCHLÜSSIGEN VERBINDUNG EINES SPRÖDBRÜCHIGEN MATERIALS UND EINES METALLISCHEN MATERIALS

Title (fr)
CORPS CONSTITUÉ D'UNE MATIÈRE DE FAIBLE RÉSISTANCE MÉCANIQUE ET D'UNE MATIÈRE MÉTALLIQUE ET PROCÉDÉ DE FABRICATION D'UNE LIAISON DE MATIÈRE ENTRE UNE MATIÈRE DE FAIBLE RÉSISTANCE MÉCANIQUE ET UNE MATIÈRE MÉTALLIQUE

Publication
EP 3066058 A1 20160914 (DE)

Application
EP 14799680 A 20141023

Priority
• DE 102013018465 A 20131105
• EP 2014072725 W 20141023

Abstract (en)
[origin: WO2015067477A1] The invention relates to a body comprising at least one brittle material, in particular a glass ceramic, a glass, or a ceramic and comprising a metallic material, characterized in that the brittle material, together with the metallic material, forms a high-temperature resistant integral connection for temperatures of more than 250°C, in particular more than 300°C, preferably more than 400°C, in particular more than 500°C, and the connection of brittle material and metallic material comprises an intermediate layer between the brittle material and the metallic material, and the intermediate layer consists of a ductile material, preferably a ductile metal, in particular a ductile material, preferably a ductile metal, having an elongation at tear $\geq 1\%$, preferably $\geq 2\%$, in particular $\geq 4\%$, quite preferably $\geq 10\%$, in particular in the range 1% to 20%, especially in particular preferably in the range 2% to 15%.

IPC 8 full level
C03C 27/04 (2006.01)

CPC (source: EP)
C03C 17/06 (2013.01); **C03C 27/046** (2013.01); **F24C 15/10** (2013.01); **F24C 15/34** (2013.01)

Citation (search report)
See references of WO 2015067477A1

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 202014004212 U1 20140611; DE 102013018465 A1 20150507; DE 202014004182 U1 20140618; DE 202014004209 U1 20140721; DE 202014004210 U1 20140721; EP 3066058 A1 20160914; JP 2017501106 A 20170112; JP 3195484 U 20150122; JP 3195485 U 20150122; JP 3195486 U 20150122; JP 3195487 U 20150122; WO 2015067477 A1 20150514

DOCDB simple family (application)
DE 202014004212 U 20140520; DE 102013018465 A 20131105; DE 202014004182 U 20140520; DE 202014004209 U 20140520; DE 202014004210 U 20140520; EP 14799680 A 20141023; EP 2014072725 W 20141023; JP 2014005869 U 20141105; JP 2014005870 U 20141105; JP 2014005871 U 20141105; JP 2014005872 U 20141105; JP 2016550980 A 20141023