

Title (en)  
PLASTIC FIBER COMPOSITE MATERIAL/ALUMINUM LAMINATE, PRODUCTION AND USE THEREOF

Title (de)  
KUNSTSTOFFFASERVERBUNDWERKSTOFF-ALUMINIUM-LAMINAT SOWIE HERSTELLUNG UND VERWENDUNG

Title (fr)  
STRATIFIÉ ALUMINIUM-MATÉRIAUX COMPOSITE RENFORCÉ PAR DES FIBRES SYNTHÉTIQUES AINSI QUE FABRICATION ET UTILISATION  
DUDIT STRATIFIÉ

Publication  
**EP 3681711 A1 20200722 (DE)**

Application  
**EP 18759847 A 20180816**

Priority  
• DE 102017118940 A 20170818  
• DE 2018100717 W 20180816

Abstract (en)  
[origin: WO2019034211A1] The invention relates to a plastic fiber composite material/aluminum laminate having: at least one flat element made of aluminum and/or an aluminum alloy and a plastic fiber composite material comprising a matrix material which has a temporarily flowable and then hardened state initially or at least under a temperature effect, wherein the flat element and the plastic fiber composite material have at least one common composite surface and are connected together via said common composite surface, the at least one flat element has etched anchoring structures at least on all of the composite surfaces with the plastic fiber composite material, the anchoring structures have steps and undercuts, and the anchoring structures are filled and/or enclosed by the matrix material of the plastic fiber composite material. The invention further relates to the use of the plastic fiber composite material/aluminum laminate according to the invention and to a method for producing the plastic fiber composite material/aluminum laminate.

IPC 8 full level  
**B32B 15/14** (2006.01); **B32B 3/06** (2006.01); **B32B 3/30** (2006.01); **B32B 15/20** (2006.01)

CPC (source: EP US)  
**B32B 3/06** (2013.01 - EP US); **B32B 3/30** (2013.01 - EP); **B32B 15/14** (2013.01 - EP US); **B32B 15/20** (2013.01 - EP US);  
**B32B 37/12** (2013.01 - US); **B32B 38/10** (2013.01 - US); **B32B 2260/021** (2013.01 - EP US); **B32B 2260/046** (2013.01 - EP US);  
**B32B 2262/101** (2013.01 - EP US); **B32B 2262/106** (2013.01 - EP US); **B32B 2307/542** (2013.01 - EP US); **B32B 2605/18** (2013.01 - EP US)

Citation (search report)  
See references of WO 2019034211A1

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 2019034211 A1 20190221**; DE 102017118940 A1 20190221; EP 3681711 A1 20200722; US 11554573 B2 20230117;  
US 2020180273 A1 20200611

DOCDB simple family (application)  
**DE 2018100717 W 20180816**; DE 102017118940 A 20170818; EP 18759847 A 20180816; US 201816638822 A 20180816