Title (en)

PEI PARTICLE FOAMS FOR APPLICATIONS IN AVIATION INTERIORS

Title (de)

PEI-PARTIKELSCHÄUME FÜR ANWENDUNGEN IM LUFTFAHRT-INTERIEUR

Title (fr)

MOUSSES À BASE DE PARTICULES DE PEI DESTINÉES À DES UTILISATIONS À L'INTÉRIEUR D'AVIONS

Publication

EP 3673009 A1 20200701 (DE)

Application

EP 18753207 A 20180820

Priority

- EP 17187663 A 20170824
- EP 2018072392 W 20180820

Abstract (en)

[origin: WO2019038213A1] Polyetherimide (PEI)-based polymer foams comply with the statutory requirements on interiors in aviation demanded by the aviation industry. The requirements concerning fire behaviour, resistance to media and mechanical strength in particular represent significant challenges. Suitable polymer foams are produced as semi-finished products in the prior art. Post-processing into shaped parts is uneconomic in terms of time and the use of material, because of the large volumes of cutting waste, for instance. The invention solves this problem in that the material that is, in principle, suitable can be processed into particle-foam shaped parts. Said shaped parts can be produced without post-processing in short cycle times and hence economically. Furthermore, new options arise for function integration, such as the direct foam moulding of inserts, etc., and in respect of design freedom.

IPC 8 full level

C08J 9/16 (2006.01); **C08J 9/04** (2006.01); **C08J 9/18** (2006.01); **C08J 9/232** (2006.01)

CPC (source: EP KR US)

B29B 9/06 (2013.01 - US); **B29B 9/065** (2013.01 - EP); **B29B 9/10** (2013.01 - KR); **B29B 9/12** (2013.01 - EP KR); **B29B 9/16** (2013.01 - KR); **B29C 44/02** (2013.01 - KR); **B29C 44/3461** (2013.01 - US); **B32B 5/20** (2013.01 - EP); **B32B 7/09** (2019.01 - EP); **B32B 7/12** (2013.01 - EP); **B32B 15/046** (2013.01 - EP); **B32B 21/047** (2013.01 - EP); **C08J 9/04** (2013.01 - EP KR); **C08J 9/16** (2013.01 - EP KR); **C08J 9/18** (2013.01 - EP KR US); **C08J 9/228** (2013.01 - US); **C08J 9/232** (2013.01 - EP KR); **C08J 9/236** (2013.01 - KR); B29B 2009/166 (2013.01 - KR); B29K 2079/085 (2013.01 - US); B29K 2105/04 (2013.01 - US); B32B 2250/02 (2013.01 - EP); B32B 2262/02 (2013.01 - EP); B32B 2266/0214 (2013.01 - EP); B32B 2266/06 (2013.01 - EP); B32B 2266/08 (2013.01 - EP); B32B 2266/10 (2016.11 - EP); B32B 2307/3065 (2013.01 - EP); B32B 2307/4026 (2013.01 - EP); B32B 2307/50 (2013.01 - EP); B32B 2307/54 (2013.01 - EP); B32B 2307/542 (2013.01 - EP); B32B 2307/71 (2013.01 - EP); B32B 2307/72 (2013.01 - EP); B32B 2307/7265 (2013.01 - EP); B32B 2605/18 (2013.01 - EP); C08J 2201/03 (2013.01 - EP US); C08J 2205/04 (2013.01 - EP US); C08J 2205/10 (2013.01 - EP); C08J 2207/00 (2013.01 - EP US); C08J 2379/08 (2013.01 - EP KR US)

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WO2024146840A1

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 2019038213 A1 20190228; AU 2018321107 A1 20200409; AU 2018321107 B2 20240516; AU 2018321107 C1 20240815; BR 112020003712 A2 20200901; CA 3073778 A1 20190228; CN 111566153 A 20200821; EP 3673009 A1 20200701; IL 272841 A 20200430; JP 2020531648 A 20201105; JP 7315534 B2 20230726; KR 102628067 B1 20240123; KR 20200044073 A 20200428; MX 2020001993 A 20200925; RU 2020111351 A 20210924; RU 2020111351 A3 20210928; SG 11202001473W A 20200330; TW 201920405 A 20190601; TW I851541 B 20240811; US 11814499 B2 20231114; US 2020207939 A1 20200702; US 2023105032 A1 20230406; ZA 202001702 B 20210526

DOCDB simple family (application)

EP 2018072392 W 20180820; AU 2018321107 A 20180820; BR 112020003712 A 20180820; CA 3073778 A 20180820; CN 201880067073 A 20180820; EP 18753207 A 20180820; IL 27284120 A 20200223; JP 2020511262 A 20180820; KR 20207008313 A 20180820; MX 2020001993 A 20180820; RU 2020111351 A 20180820; SG 11202001473W A 20180820; TW 107129090 A 20180821; US 201816640626 A 20180820; US 202218063075 A 20221207; ZA 202001702 A 20200318