

Title (en)

METHOD FOR PRODUCING MOLDED PARTS FROM PARTICLE FOAMS

Title (de)

VERFAHREN ZUR HERSTELLUNG VON FORMTEILEN AUS PARTIKELSCHÄUMEN

Title (fr)

PROCÉDÉ POUR PRODUIRE DES PIÈCES MOULÉES À PARTIR DE MOUSSES DE PARTICULES

Publication

EP 3999302 A2 20220525 (DE)

Application

EP 20757953 A 20200717

Priority

- DE 102019119488 A 20190718
- IB 2020056737 W 20200717

Abstract (en)

[origin: CA3147880A1] The invention relates to a method for producing molded parts from particle foams, comprising: providing particle-foam particles; wetting the particle-foam particles with an aqueous emulsion of at least one polyolefin and thereby obtaining functionalizable particle-foam particles; drying the wetted and functionalizable particle-foam particles; molding the functionalizable particle-foam particles; heating the molded, functionalizable particle-foam particles to a temperature below the melting range of the particle-foam particles and thereby functionalizing the molded, functionalizable particle-foam particles, the particle-foam particles being bonded to each other; and cooling and thereby obtaining the particle-foam molded part, the aqueous emulsion of the at least one polyolefin being an aqueous emulsion that comprises at least one polyolefin transferred into the liquid state by means of an anhydride of an unsaturated carboxylic acid and modified by means of methacrylic acid ester copolymers.

IPC 8 full level

B29C 44/34 (2006.01); **B29C 67/20** (2006.01); **C08J 9/224** (2006.01); **C08J 9/232** (2006.01)

CPC (source: EP US)

B29C 35/0805 (2013.01 - US); **B29C 44/3461** (2013.01 - EP US); **B29C 44/445** (2013.01 - US); **B29C 67/205** (2013.01 - EP US); **B29C 67/207** (2013.01 - EP); **C08J 9/224** (2013.01 - EP); **C08J 9/232** (2013.01 - EP); **B29C 44/445** (2013.01 - EP); **B29K 2023/00** (2013.01 - EP); **C08J 2323/12** (2013.01 - EP); **C08J 2451/08** (2013.01 - EP); **C08L 51/08** (2013.01 - EP)

Citation (search report)

See references of WO 2021009720A2

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 102019119488 A1 20210121; CA 3147880 A1 20210121; EP 3999302 A2 20220525; JP 2023505919 A 20230214; US 2022134611 A1 20220505; WO 2021009720 A2 20210121; WO 2021009720 A3 20210311

DOCDB simple family (application)

DE 102019119488 A 20190718; CA 3147880 A 20200717; EP 20757953 A 20200717; IB 2020056737 W 20200717; JP 2022502850 A 20200717; US 202217577427 A 20220118