

Title (en)

FOAMS BASED ON THERMOPLASTIC ELASTOMERS

Title (de)

SCHAUMSTOFFE AUF BASIS THERMOPLASTISCHER ELASTOMERE

Title (fr)

MOUSSES A BASE D'ÉLASTOMÈRES THERMOPLASTIQUES

Publication

**EP 3781617 A1 20210224 (DE)**

Application

**EP 19717938 A 20190418**

Priority

- EP 18168425 A 20180420
- EP 2019060123 W 20190418

Abstract (en)

[origin: WO2019202090A1] The invention relates to particle foams of thermoplastic polyurethane and polystyrene, shaped parts manufactured therefrom, a method for producing the particle foams and shaped parts, and the use of the shaped parts as shoe midsoles, insoles, combined soles, and cushioning elements for shoes.

IPC 8 full level

**C08J 9/232** (2006.01); **A43B 13/04** (2006.01); **C08J 9/00** (2006.01)

CPC (source: EP KR US)

**A43B 13/04** (2013.01 - EP KR); **B29C 48/40** (2019.02 - US); **C08J 9/0061** (2013.01 - EP KR US); **C08J 9/18** (2013.01 - EP KR US); **C08J 9/232** (2013.01 - EP KR); **C08J 9/24** (2013.01 - US); **B29C 2948/92704** (2019.02 - US); **B29L 2031/504** (2013.01 - US); **B29L 2031/507** (2013.01 - US); **C08G 2110/0008** (2021.01 - EP); **C08G 2110/0041** (2021.01 - EP); **C08G 2110/0066** (2021.01 - EP); **C08G 2350/00** (2013.01 - EP); **C08G 2410/00** (2013.01 - EP); **C08J 2201/03** (2013.01 - US); **C08J 2203/06** (2013.01 - US); **C08J 2207/00** (2013.01 - EP KR); **C08J 2300/22** (2013.01 - EP KR US); **C08J 2300/26** (2013.01 - EP KR); **C08J 2375/04** (2013.01 - EP KR US); **C08J 2425/06** (2013.01 - EP KR US)

C-Set (source: EP)

**C08L 75/04** + **C08L 53/02**

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 2019202090 A1 20191024**; BR 112020019980 A2 20210126; CA 3096988 A1 20191024; CN 111989360 A 20201124; EP 3781617 A1 20210224; JP 2021522368 A 20210830; KR 20210005657 A 20210114; MX 2020011118 A 20201111; TW 201943795 A 20191116; US 11773231 B2 20231003; US 2021122894 A1 20210429

DOCDB simple family (application)

**EP 2019060123 W 20190418**; BR 112020019980 A 20190418; CA 3096988 A 20190418; CN 201980026873 A 20190418; EP 19717938 A 20190418; JP 2020558494 A 20190418; KR 20207033588 A 20190418; MX 2020011118 A 20190418; TW 108113574 A 20190418; US 201917047166 A 20190418