

Title (en)

RUBBER REPLACEMENT ARTICLES AND THEIR USE AS FOOTWEAR COMPONENTS

Title (de)

GUMMIERSATZARTIKEL UND IHRE VERWENDUNG ALS SCHUHWERKKOMPONENTEN

Title (fr)

ARTICLES DE REMPLACEMENT DU CAOUTCHOUC ET LEUR UTILISATION EN TANT QUE COMPOSANTS D'ARTICLES CHAUSSANTS

Publication

EP 3921355 A1 20211215 (EN)

Application

EP 20709402 A 20200203

Priority

- US 201916266894 A 20190204
- US 2020016412 W 20200203

Abstract (en)

[origin: WO2020163233A1] Rubber replacement articles prepared from curable compositions are provided. The curable compositions comprise: an isocyanate-functional prepolymer; a curing agent comprising a mixture of polyamines, wherein at least one polyamine has an amine equivalent weight of 125 to 250; and an abrasion resistant additive comprising organic particles demonstrating a volume average particle size of at least 5 microns. The isocyanate-functional prepolymer is (i) a reaction product of a polyisocyanate and a polyamine having primary and/or secondary amino groups; and/or (ii) a reaction product of a polyisocyanate and a polyol.

IPC 8 full level

C08G 18/75 (2006.01); **A43B 1/00** (2006.01); **A43B 23/00** (2006.01); **B33Y 70/00** (2020.01); **B33Y 80/00** (2015.01); **C08G 18/10** (2006.01); **C08G 18/24** (2006.01); **C08G 18/48** (2006.01); **C08G 18/50** (2006.01); **C08G 18/72** (2006.01); **C08G 18/73** (2006.01); **C08G 18/78** (2006.01); **C08G 18/79** (2006.01); **C08K 3/013** (2018.01); **C08K 3/22** (2006.01); **C08L 75/02** (2006.01); **C08L 75/08** (2006.01)

CPC (source: EP KR)

A43B 1/14 (2013.01 - KR); **A43B 13/04** (2013.01 - EP KR); **B29C 64/10** (2017.08 - KR); **B33Y 10/00** (2014.12 - KR); **B33Y 70/00** (2014.12 - EP); **B33Y 70/10** (2020.01 - KR); **B33Y 80/00** (2014.12 - EP); **C08G 18/10** (2013.01 - EP KR); **C08G 18/246** (2013.01 - EP); **C08G 18/325** (2013.01 - KR); **C08G 18/4825** (2013.01 - EP); **C08G 18/4854** (2013.01 - EP); **C08G 18/5024** (2013.01 - EP); **C08G 18/725** (2013.01 - EP); **C08G 18/73** (2013.01 - EP); **C08G 18/755** (2013.01 - EP); **C08G 18/7837** (2013.01 - EP); **C08G 18/792** (2013.01 - EP); **C08G 59/4064** (2013.01 - KR); **C08J 3/126** (2013.01 - KR); **C08K 3/013** (2018.01 - EP); **C08K 5/05** (2013.01 - KR); **C08L 23/06** (2013.01 - KR); **C08L 23/12** (2013.01 - KR); **C08L 75/02** (2013.01 - EP); **C08L 75/04** (2013.01 - KR); **C08L 75/08** (2013.01 - EP); **C09J 11/02** (2013.01 - KR); **C09J 163/00** (2013.01 - KR); **C08G 2410/00** (2013.01 - EP); **C08K 2201/005** (2013.01 - EP)

C-Set (source: EP)

1. **C08G 18/10 + C08G 18/725**
2. **C08G 18/10 + C08G 18/73**
3. **C08G 18/10 + C08G 18/7837**
4. **C08G 18/10 + C08G 18/792**
5. **C08G 18/10 + C08G 18/5024**
6. **C08G 18/10 + C08G 18/325**
7. **C08G 18/10 + C08G 18/6685**
8. **C08L 75/08 + C08L 23/14 + C08K 3/22**
9. **C08L 75/02 + C08L 23/14 + C08K 3/22**
10. **C08G 18/10 + C08G 18/3821**
11. **C08G 18/10 + C08G 18/3206**
12. **C08G 18/10 + C08G 18/6674**
13. **C08K 3/013 + C08L 75/02**
14. **C08K 3/013 + C08L 75/08**
15. **C08L 75/08 + C08K 3/013 + C08L 23/14**
16. **C08L 75/02 + C08K 3/013 + C08L 23/14**

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 2020163233 A1 20200813; AU 2020218495 A1 20210916; BR 112021015143 A2 20210928; CA 3128378 A1 20200813; CN 113366045 A 20210907; CN 113366045 B 20230502; EP 3921355 A1 20211215; JP 2022519589 A 20220324; KR 20210113657 A 20210916; MX 2021009348 A 20210910; SG 11202108356R A 20210830

DOCDB simple family (application)

US 2020016412 W 20200203; AU 2020218495 A 20200203; BR 112021015143 A 20200203; CA 3128378 A 20200203; CN 202080011755 A 20200203; EP 20709402 A 20200203; JP 2021545390 A 20200203; KR 20217025319 A 20200203; MX 2021009348 A 20200203; SG 11202108356R A 20200203