Title (en)

A LAUNDRY CARE OR DISH CARE COMPOSITION COMPRISING A POLY ALPHA-1,6-GLUCAN DERIVATIVE

Title (de)

WÄSCHEPFLEGE- ODER GESCHIRRPFLEGEZUSAMMENSETZUNG MIT EINEM POLY-ALPHA-1,6-GLUCAN-DERIVAT

Title (fr)

COMPOSITION POUR L'ENTRETIEN DU LINGE OU DE LA VAISSELLE COMPRENANT UN DÉRIVÉ DE POLY ALPHA-1,6-GLUCANE

Publication

EP 3922704 A1 20211215 (EN)

Application

EP 20180331 A 20200616

Priority

US 202063037016 P 20200610

Abstract (en)

The present invention relates to a laundry care or dish care composition comprising a poly alpha-1,6-glucan derivative, wherein the poly alpha-1,6-glucan derivative comprises:(i) a poly alpha-1,6-glucan backbone of glucose monomer units, wherein greater than or equal to 40% of the glucose monomer units are linked via alpha-1,6 glycosidic linkages, and optionally at least 5% of the backbone glucose monomer units have branches via alpha-1,2 and/or alpha-1,3 glycosidic linkages; and(ii) at least one hydrophobic organic group linked to the poly alpha-1,6-glucan backbone through a (-OSO₂-) linkage moiety;wherein, the poly alpha-1,6-glucan backbone has a weight average degree of polymerization of at least 5;wherein, the poly alpha-1,6-glucan derivative has a degree of substitution of ether linkage moiety of from 0.001 to 3.00; andwherein the poly alpha-1,6-glucan derivative is substantially free from hydrophilic substitution.

IPC 8 full level

C11D 3/22 (2006.01)

CPC (source: EP)

C11D 3/228 (2013.01)

Citation (applicant)

- US 2015232785 A1 20150820 - PAULLIN JAYME L [US], et al
- US 10005850 B2 20180626 - KASAT RAHUL B [US], et al
- WO 2015183714 A1 20151203 - DU PONT [US]
- WO 2017091533 A1 20170601 - DU PONT [US]
- US 62871796 P
- US 6020303 A 20000201 - CRIPE THOMAS ANTHONY [US], et al
- US 6060443 A 20000509 - CRIPE THOMAS ANTHONY [US], et al
- "Structural Analysis of Polysaccharides", 2005, TAYLOR & FRANCIS GROUP LLC, article "Food Carbohydrates: Chemistry, Physical Properties, and Applications"
- LOAN ET AL., MACROMOLECULES, vol. 33, pages 5730 - 5739
- NAESSENS ET AL., J. CHEM. TECHNOL. BIOTECHNOL., vol. 80, pages 845 - 860
- SARWAT ET AL., INT. J. BIOL. SCI., vol. 4, pages 379 - 386
- ONILUDE ET AL., INT. FOOD RES. J., vol. 20, pages 1645 - 1651
- VUILLEMIN ET AL., J. BIOL CHEM., vol. 291, 2016, pages 7687 - 7702

Citation (search report)

- [XI] US 2019202942 A1 20190704 - LU HELEN S M [US], et al
- [XI] US 2020002646 A1 20200102 - HUANG ZHENGZHENG [US], et al
- [A] US 2019390138 A1 20191226 - SIVIK MARK ROBERT [US], et al

Cited by

WO2024094802A1; WO2024094803A1; WO2024119298A1; WO2024094800A1; EP4386074A1; EP4321604A1; WO2024036126A1; WO2024129520A1

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)

EP 3922704 A1 20211215

DOCDB simple family (application)

EP 20180331 A 20200616