

Title (en)

SPRAYABLE LAUNDRY PRE-TREATMENT COMPOSITION

Title (de)

SPRÜHBARE WÄSCHEVORBEHANDLUNGSZUSAMMENSETZUNG

Title (fr)

COMPOSITION DE PRÉTRAITEMENT DE BLANCHISSERIE PULVÉRISABLE

Publication

EP 4134423 A1 20230215 (EN)

Application

EP 21190970 A 20210812

Priority

EP 21190970 A 20210812

Abstract (en)

The present invention refers to a sprayable aqueous laundry pre-treatment composition comprising a multi-enzyme blend and Xanthan gum, a method for and the use of the inventive composition in stain removal as well as an aerosol dispenser comprising the inventive composition.

IPC 8 full level

C11D 3/386 (2006.01); **C11D 1/72** (2006.01); **C11D 3/20** (2006.01); **C11D 3/22** (2006.01); **C11D 3/48** (2006.01)

CPC (source: EP)

C11D 3/2065 (2013.01); **C11D 3/222** (2013.01); **C11D 3/38663** (2013.01); **C11D 17/0043** (2013.01); **C11D 3/2082** (2013.01); **C11D 3/2086** (2013.01); **C11D 3/48** (2013.01)

Citation (applicant)

- US 4648987 A 19870310 - SMITH WILLIAM L [US], et al
- WO 2016202572 A1 20161222 - UNILEVER NV [NL], et al
- WO 2008086916 A1 20080724 - HENKEL KGAA [DE], et al
- WO 2007131656 A1 20071122 - HENKEL KGAA [DE], et al
- WO 2017215925 A1 20171221 - HENKEL AG & CO KGAA [DE]
- EP 2021054688 W 20210225
- EP 2021054689 W 20210225
- WO 9102792 A1 19910307 - HENKEL RESEARCH CORP [US]
- WO 2008007319 A2 20080117 - PROCTER & GAMBLE [US], et al
- WO 9318140 A1 19930916 - NOVO NORDISK AS [DK]
- WO 0144452 A1 20010621 - NOVOZYMES AS [DK]
- GB 1243784 A 19710825 - NOVO TERAPEUTISK LABOR AS [DK]
- WO 9634946 A1 19961107 - NOVO NORDISK AS [DK]
- WO 0229024 A1 20020411 - NOVOZYMES AS [DK]
- WO 03057246 A1 20030717 - GENENCOR INT [US], et al
- EP 0258068 A2 19880302 - NOVO INDUSTRI AS [DK]
- EP 0305216 A1 19890301 - NOVO INDUSTRI AS [DK]
- EP 0218272 A1 19870415 - GIST BROCADES NV [NL]
- EP 0331376 A2 19890906 - AMANO PHARMA CO LTD [JP]
- WO 9506720 A1 19950309 - SHOWA DENKO KK [JP], et al
- WO 9627002 A1 19960906 - SHOWA DENKO KK [JP], et al
- WO 9612012 A1 19960425 - SOLVAY [BE], et al
- WO 2010065455 A2 20100610 - DANISCO US INC [US], et al
- WO 2011084412 A1 20110714 - DANISCO US INC [US], et al
- WO 2011084417 A1 20110714 - DANISCO US INC [US], et al
- WO 2011084599 A1 20110714 - DANISCO US INC [US], et al
- WO 2011150157 A2 20111201 - DANISCO US INC [US], et al
- WO 2012137147 A1 20121011 - DANISCO US INC [US], et al
- WO 03002711 A2 20030109 - HENKEL KGAA [DE], et al
- WO 03054177 A2 20030703 - HENKEL KGAA [DE], et al
- WO 2007079938 A2 20070719 - HENKEL KGAA [DE], et al
- WO 9964619 A2 19991216 - NOVO NORDISK AS [DK], et al
- WO 2017021515 A1 20170209 - NOVOZYMES AS [DK]
- WO 2017021516 A1 20170209 - NOVOZYMES AS [DK]
- WO 2017021517 A1 20170209 - NOVOZYMES AS [DK]
- WO 2017021518 A1 20170209 - NOVOZYMES AS [DK]
- WO 2015040159 A2 20150326 - NOVOZYMES AS [DK]
- D.A. BASKETTER ET AL.: "conducted several studies which are summarized in "Studies conducted for defining occupational and consumer exposure limits for enzyme protein respiratory allergens under REACH", TOXICOLOGY, vol. 268, 2010, pages 165 - 170

Citation (search report)

- [A] US 7566448 B2 20090728 - BECKER NATHANIEL T [US], et al
- [A] EP 0753556 A1 19970115 - PROCTER & GAMBLE [US]
- [A] EP 0839905 A1 19980506 - PROCTER & GAMBLE [US]
- [A] EP 1987125 A1 20081105 - REALCO 2001 S A N V [BE]

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

EP 4134423 A1 20230215; AU 2022207323 A1 20230302

DOCDB simple family (application)

EP 21190970 A 20210812; AU 2022207323 A 20220725