

Title (en)
FABRIC AND HOME CARE COMPOSITION

Title (de)
STOFF- UND HEIMPFLEGEZUSAMMENSETZUNG

Title (fr)
COMPOSITION DE SOIN POUR LE LINGE ET LE DOMICILE

Publication
EP 4386074 A1 20240619 (EN)

Application
EP 23216689 A 20231214

Priority
EP 22214214 A 20221216

Abstract (en)
The present invention relates to fabric and home care compositions comprising specific esteramines and/or salts thereof. The compositions are particularly suitable as laundry detergent compositions.

IPC 8 full level
C11D 3/37 (2006.01); **C11D 3/30** (2006.01); **C11D 3/386** (2006.01); **C11D 11/00** (2006.01)

CPC (source: EP)
C11D 3/30 (2013.01); **C11D 2111/12** (2024.01)

Citation (applicant)

- FR 2977585 B1 20150828 - ARD SA [FR]
- WO 2015172158 A1 20151112 - INOLEX INVESTMENT CORP [US]
- WO 2011002746 A1 20110106 - INOLEX INVESTMENT CORP [US], et al
- SU 1276661 A1 19861215 - INST FARMAKOLOGII AMN SSSR [SU]
- JP S4976822 A 19740724
- JP S5136735 B2 19761012
- WO 2019007750 A1 20190110 - BASF SE [DE]
- WO 2019007754 A1 20190110 - BASF SE [DE]
- WO 2019110371 A1 20190613 - BASF SE [DE]
- WO 2020002162 A1 20200102 - BASF SE [DE]
- WO 2020144030 A1 20200716 - BASF SE [DE]
- WO 2022002761 A2 20220106 - BASF SE [DE]
- WO 2014169403 A1 20141023 - POLYMER CHEMICAL CO LTD [CN]
- US 2015361219 A1 20151217 - GU XIAOJUN [CN], et al
- WO 2016008401 A1 20160121 - TENG XIN [CN]
- WO 2010055343 A1 20100520 - MEMBRANE EXTRACTION TECH LTD [GB], et al
- US 2017056548 A1 20170302 - LEE BRUCE P [US], et al
- WO 2004067737 A2 20040812 - NOVOZYMES AS [DK], et al
- WO 2015091989 A1 20150625 - NOVOZYMES AS [DK]
- WO 2015091990 A1 20150625 - NOVOZYMES AS [DK]
- WO 2015024739 A2 20150226 - HENKEL AG & CO KGAA [DE]
- WO 2015143360 A2 20150924 - DANISCO US INC [US]
- US 6312936 B1 20011106 - POULOSE AYROOKARAN J [US], et al
- US 5679630 A 19971021 - BAECK ANDRE [BE], et al
- US 4760025 A 19880726 - ESTELL DAVID A [US], et al
- DE 102006022216 A1 20071115 - HENKEL KGAA [DE]
- DE 102006022224 A1 20071115 - HENKEL KGAA [DE]
- WO 2015089447 A1 20150618 - DANISCO US INC [US]
- WO 2015089441 A1 20150618 - DANISCO US INC [US]
- WO 2016066756 A2 20160506 - NOVOZYMES AS [DK]
- WO 2016066757 A2 20160506 - NOVOZYMES AS [DK]
- WO 2016069557 A1 20160506 - DANISCO US INC [US]
- WO 2016069563 A1 20160506 - DANISCO US INC [US]
- WO 2016069569 A2 20160506 - DANISCO US INC [US]
- WO 2017089093 A1 20170601 - UNILEVER NV [NL], et al
- WO 2020156419 A1 20200806 - NOVOZYMES AS [DK], et al
- WO 8906270 A1 19890713 - NOVO INDUSTRI AS [DK]
- WO 2005052161 A2 20050609 - GENENCOR INT [US], et al
- WO 2005052146 A2 20050609 - GENENCOR INT [US], et al
- WO 2007044993 A2 20070419 - GENENCOR INT [US], et al
- WO 2014194032 A1 20141204 - DANISCO US INC [US]
- WO 2014194054 A1 20141204 - DANISCO US INC [US]
- WO 2014194117 A2 20141204 - DANISCO US INC [US]
- WO 2015193488 A1 20151223 - NOVOZYMES AS [DK]
- WO 2016075078 A2 20160519 - NOVOZYMES AS [DK]
- WO 9217577 A1 19921015 - NOVO NORDISK AS [DK]
- US 5352604 A 19941004 - WILSON CHARLES R [US], et al
- US 7153818 B2 20061226 - BREVES ROLAND [DE], et al
- WO 9700324 A1 19970103 - KAO CORP [JP], et al
- EP 1022334 A2 20000726 - KAO CORP [JP]
- WO 9402597 A1 19940203 - NOVO NORDISK AS [DK], et al
- WO 9418314 A1 19940818 - GENENCOR INT [US]
- WO 9623874 A1 19960808 - NOVO NORDISK AS [DK], et al
- WO 9743424 A1 19971120 - GENENCOR INT [US]

- US 5856164 A 19990105 - OUTTRUP HELLE [DK], et al
- WO 9923211 A1 19990514 - NOVO NORDISK AS [DK]
- WO 9623873 A1 19960808 - NOVO NORDISK AS [DK], et al
- WO 0060060 A2 20001012 - NOVO NORDISK AS [DK]
- WO 2006002643 A2 20060112 - NOVOZYMES AS [DK], et al
- US 6093 A 18490206
- US 562 A 18380109
- WO 2009149130 A2 20091210 - DANISCO US INC [US], et al
- WO 2016091688 A1 20160616 - HENKEL AG & CO KGAA [DE]
- WO 2014099523 A1 20140626 - DANISCO US INC [US]
- WO 2014164777 A1 20141009 - DANISCO US INC [US]
- WO 2009149271 A2 20091210 - DANISCO US INC [US], et al
- US 6939702 B1 20050906 - VIND JESPER [DK], et al
- WO 2013171241 A1 20131121 - NOVOZYMES AS [DK]
- WO 2011084412 A1 20110714 - DANISCO US INC [US], et al
- WO 2013033318 A1 20130307 - DANISCO US INC [US], et al
- WO 2018228880 A1 20181220 - HENKEL AG & CO KGAA [DE]
- WO 2018228881 A1 20181220 - HENKEL AG & CO KGAA [DE]
- EP 3299457 A1 20180328 - HENKEL AG & CO KGAA [DE]
- WO 2018209026 A1 20181115 - BASF SE [DE]
- WO 2017036901 A1 20170309 - UNILEVER PLC [GB], et al
- WO 2017005798 A1 20170112 - NOVOZYMES AS [DK]
- US 4435307 A 19840306 - BARBESGAARD PEDER O [DK], et al
- US 5648263 A 19970715 - SCHUELEIN MARTIN [DK], et al
- US 5691178 A 19971125 - SCHUELEIN MARTIN [DK], et al
- US 5776757 A 19980707 - SCHUELEIN MARTIN [DK], et al
- US 7361736 B2 20080422 - SCHNORR KIRK [DK], et al
- US 6268197 B1 20010731 - SCHULEIN MARTIN [DK], et al
- US 6630340 B2 20031007 - WILTING REINHARD [DK], et al
- WO 02077242 A2 20021003 - NOVOZYMES AS [DK], et al
- US 7172891 B2 20070206 - REY MICHAEL W [US], et al
- WO 2017162836 A1 20170928 - NOVOZYMES AS [DK]
- WO 2018108865 A1 20180621 - NOVOZYMES AS [DK]
- WO 2018011277 A1 20180118 - NOVOZYMES AS [DK]
- WO 2018178061 A1 20181004 - NOVOZYMES AS [DK]
- WO 2020074499 A1 20200416 - NOVOZYMES AS [DK]
- WO 2018184873 A1 20181011 - NOVOZYMES AS [DK]
- WO 2017186936 A1 20171102 - NOVOZYMES AS [DK]
- WO 2017186937 A1 20171102 - NOVOZYMES AS [DK]
- WO 2017186943 A1 20171102 - NOVOZYMES AS [DK]
- WO 2017207770 A1 20171207 - NOVOZYMES AS [DK]
- WO 2019086520 A1 20190509 - HENKEL AG & CO KGAA [DE]
- WO 2019086528 A1 20190509 - NOVOZYMES AS [DK]
- WO 2019086530 A1 20190509 - NOVOZYMES AS [DK]
- WO 2019086532 A1 20190509 - NOVOZYMES AS [DK]
- WO 2019086521 A1 20190509 - HENKEL AG & CO KGAA [DE]
- WO 2019086526 A1 20190509 - HENKEL AG & CO KGAA [DE]
- WO 2020002604 A1 20200102 - NOVOZYMES AS [DK]
- WO 2020002608 A1 20200102 - NOVOZYMES AS [DK]
- WO 2020007863 A1 20200109 - NOVOZYMES AS [DK]
- WO 2020007875 A1 20200109 - NOVOZYMES AS [DK]
- WO 2020008024 A1 20200109 - NOVOZYMES AS [DK]
- WO 2020070063 A2 20200409 - NOVOZYMES AS [DK]
- WO 2020070249 A1 20200409 - NOVOZYMES AS [DK]
- WO 2020088957 A1 20200507 - HENKEL AG & CO KGAA [DE]
- WO 2020088958 A1 20200507 - HENKEL AG & CO KGAA [DE]
- WO 2020207944 A1 20201015 - NOVOZYMES AS [DK]
- WO 2015040159 A2 20150326 - NOVOZYMES AS [DK]
- WO 2015185689 A1 20151210 - NOVOZYMES AS [DK]
- WO 2007138053 A1 20071206 - BASF AG [DE], et al
- WO 2021160795 A1 20210819 - BASF SE [DE]
- WO 2021160851 A1 20210819 - BASF SE [DE]
- WO 2020005476 A1 20200102 - PROCTER & GAMBLE [US]
- WO 2020030760 A1 20200213 - UNILEVER PLC [GB], et al
- WO 2020030469 A1 20200213 - BASF SE [DE]
- WO 2009061990 A1 20090514 - PROCTER & GAMBLE [US], et al
- WO 2006108857 A1 20061019 - BASF AG [DE], et al
- WO 2021061774 A1 20210401 - DOW GLOBAL TECHNOLOGIES LLC [US], et al
- WO 2021239547 A1 20211202 - BASF SE [DE]
- EP 3222647 A1 20170927 - WEYLCHER WIESBADEN GMBH [DE]
- WO 2014019903 A1 20140206 - UNILEVER PLC [GB], et al
- WO 2014019658 A1 20140206 - CLARIANT INT LTD [CH]
- WO 2014019659 A1 20140206 - CLARIANT INT LTD [CH]
- EP 0351759 A2 19900124 - FRAUNHOFER GES FORSCHUNG [DE]
- WO 2022100876 A1 20220519 - WEYLCHER PERFORMANCE PRODUCTS GMBH [DE]
- WO 2011031599 A1 20110317 - PROCTER & GAMBLE [US], et al
- WO 2009154933 A2 20091223 - PROCTER & GAMBLE [US], et al
- WO 2006117056 A1 20061109 - UNILEVER PLC [GB], et al
- WO 2014124872 A1 20140821 - HENKEL AG & CO KGAA [DE]
- WO 2015044061 A1 20150402 - HENKEL AG & CO KGAA [DE]
- US 2018346846 A1 20181206 - KROPF CHRISTIAN [DE], et al
- WO 2019111948 A1 20190613 - KAO CORP [JP]
- WO 2019111949 A1 20190613 - KAO CORP [JP]

- WO 2019111946 A1 20190613 - KAO CORP [JP]
- WO 2019111947 A1 20190613 - KAO CORP [JP]
- WO 2022060754 A1 20220324 - DOW SILICONES CORP [US], et al
- WO 2021242942 A1 20211202 - DOW GLOBAL TECHNOLOGIES LLC [US], et al
- WO 2020091988 A1 20200507 - DOW GLOBAL TECHNOLOGIES LLC [US], et al
- WO 2015144438 A1 20151001 - BASF SE [DE]
- EP 0703243 A1 19960327 - UNILEVER NV [NL], et al
- US 6063914 A 20000516 - WOLF HEIKO [DE], et al
- WO 2021194808 A1 20210930 - ROHM & HAAS [US], et al
- WO 2021225837 A1 20211111 - PROCTER & GAMBLE [US]
- WO 2021257793 A1 20211223 - PROCTER & GAMBLE [US]
- WO 2021257932 A1 20211223 - PROCTER & GAMBLE [US]
- WO 2021257786 A1 20211223 - NUTRITION & BIOSCIENCES USA 4 INC [US]
- WO 2018112187 A1 20180621 - DU PONT [US]
- WO 2019246228 A1 20191226 - DUPONT IND BIOSCIENCES USA LLC [US]
- WO 2019246171 A1 20191226 - PROCTER & GAMBLE [US]
- WO 2021252558 A1 20211216 - PROCTER & GAMBLE [US]
- WO 2021252560 A1 20211216 - PROCTER & GAMBLE [US]
- WO 2021252561 A1 20211216 - PROCTER & GAMBLE [US]
- EP 3922704 A1 20211215 - PROCTER & GAMBLE [US]
- WO 2021252569 A1 20211216 - NUTRITION & BIOSCIENCES USA 4 INC [US]
- WO 2021252562 A1 20211216 - PROCTER & GAMBLE [US]
- WO 2021252559 A1 20211216 - PROCTER & GAMBLE [US]
- WO 2021252575 A1 20211216 - NUTRITION & BIOSCIENCES USA 4 INC [US]
- WO 2021252563 A1 20211216 - PROCTER & GAMBLE [US]
- US 2019274943 A1 20190912 - BROOIJMANS TOM WILLEM LOUIS [NL], et al
- US 2018119055 A1 20180503 - RAAIJMAKERS HARRY [NL], et al
- US 2021115358 A1 20210422 - KROPF CHRISTIAN [DE], et al
- WO 2019243072 A1 20191226 - HENKEL AG & CO KGAA [DE]
- WO 2019243108 A1 20191226 - HENKEL AG & CO KGAA [DE]
- WO 2021156093 A1 20210812 - HENKEL AG & CO KGAA [DE]
- US 8450261 B2 20130528 - NAKANO MASATO [JP], et al
- US 8389458 B2 20130305 - TSUMORI TAKAHIRO [JP], et al
- WO 2010024468 A1 20100304 - PROCTER & GAMBLE [US], et al
- WO 2014032267 A1 20140306 - PROCTER & GAMBLE [US], et al
- US 2020277548 A1 20200903 - LUNEAU BENOIT [DE], et al
- US 2020277549 A1 20200903 - LUNEAU BENOIT [DE], et al
- WO 2019096590 A1 20190523 - HENKEL AG & CO KGAA [DE], et al
- US 5576282 A 19961119 - MIRACLE GREGORY S [US], et al
- US 5597936 A 19970128 - PERKINS CHRISTOPHER M [US], et al
- US 5595967 A 19970121 - MIRACLE GREGORY SCOT [US], et al
- US 7445644 B2 20081104 - SONG XINBEI [US], et al
- US 7585376 B2 20090908 - SCHEIBEL JEFFREY JOHN [US], et al
- US 2009176684 A1 20090709 - GARDNER ROBB RICHARD [US], et al
- WO 2008087497 A1 20080724 - PROCTER & GAMBLE [US], et al
- WO 2016049389 A1 20160331 - PROCTER & GAMBLE [US]
- WO 2009043709 A1 20090409 - UNILEVER PLC [GB], et al
- US 3915903 A 19751028 - WISE RODNEY M
- EP 19219568 A 20191223
- US 201815880594 A 20180126
- US 201815880599 A 20180126
- US 201815880604 A 20180126
- TRIVEDI, T. J. ET AL., CHEMSUSCHEM, vol. 4, 2011, pages 604 - 608
- NAGAHAMA ET AL., CHEMISTRY LETTERS, vol. 39, no. 3, 2010, pages 250 - 251
- N. STANLEY ET AL., J. POLYM. SCI. A: POLYMER CHEMISTRY, vol. 52, 2014, pages 2139 - 2145
- no. 109578-44-1

Citation (search report)

- [A] US 10640736 B2 20200505 - SCIALLA STEFANO [BE], et al
- [A] WO 2022136389 A1 20220630 - BASF SE [DE], et al
- [AD] WO 2019110371 A1 20190613 - BASF SE [DE]
- [AD] WO 2022002761 A2 20220106 - BASF SE [DE]

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 ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

EP 4386074 A1 20240619

DOCDB simple family (application)

EP 23216689 A 20231214