

Title (en)
PRODUCT FOR WASHING MACHINES

Title (de)
WASCHMASCHINEPRODUKT

Title (fr)
PRODUIT POUR MACHINE DE LAVAGE

Publication
EP 4053257 A1 20220907 (EN)

Application
EP 22154434 A 20220201

Priority
IT 202100002048 A 20210201

Abstract (en)
A product for washing machines; the product (1) comprises a substantially water-soluble sheet (2); a collecting chamber (3), delimited by the sheet (2); and an inner composition (4), which is substantially liquid and two-phase, is arranged inside the collecting chamber (3) and comprises an organic solvent, a nonionic surfactant, a sequestering component, a detergent enzymatic component and from 0% to 20% of water.

IPC 8 full level
C11D 17/04 (2006.01); **C11D 1/66** (2006.01); **C11D 3/20** (2006.01); **C11D 3/386** (2006.01); **C11D 3/43** (2006.01); **C11D 17/00** (2006.01)

CPC (source: EP)
C11D 1/66 (2013.01); **C11D 3/2041** (2013.01); **C11D 3/2065** (2013.01); **C11D 3/386** (2013.01); **C11D 3/43** (2013.01); **C11D 17/0017** (2013.01);
C11D 17/043 (2013.01); **C11D 3/2079** (2013.01); **C11D 3/2086** (2013.01); **C11D 3/33** (2013.01); **C11D 3/361** (2013.01)

Citation (applicant)

- CAS , no. 15827-60-8
- OLSEN, H.S.FALHOLT, P: "The role of enzymes in modern detergency", J SURFACT DETERG, vol. 1, 1998, pages 555 - 567, XP055009667, Retrieved from the Internet <URL:<https://doi.org/10.1007/s11743-998-0058-7>> DOI: 10.1007/s11743-998-0058-7
- KIRK OBORCHERT TVFUGLSANG CC: "Industrial enzyme applications", CURR OPIN BIOTECHNOL., vol. 13, no. 4, August 2002 (2002-08-01), pages 345 - 51, XP002500471, DOI: 10.1016/S0958-1669(02)00328-2
- REIJENGA ET AL.: "Developments of Methods for the Determination of pKa Values", ANALYTICAL CHEMISTRY INSIGHTS, vol. 8, 2013, pages 53 - 17
- X. SUBIRATS ET AL.: "Elsevier Reference Module in Chemistry, Molecular Sciences and Chemical Engineering", 2015, article "Methods for pKa Determination (I): Potentiometry, Spectrophotometry, and Capillary Electrophore"
- SERJEANT, E.P: "Potentiometry and Potentiometric Titrations", 1984, WILEY

Citation (search report)

- [AP] EP 3825390 A1 20210526 - DECO IND S COOP P A [IT]
- [AP] EP 3825391 A1 20210526 - DECO IND S COOP P A [IT]
- [A] EP 1690924 A1 20060816 - PROCTER & GAMBLE [US]
- [A] EP 1679362 A1 20060712 - PROCTER & GAMBLE [US]
- [A] US 5981449 A 19991109 - RAPISARDA DARIO [IT], et al
- [A] EP 23303042 A1 20110615 - PROCTER & GAMBLE [US]
- [A] WO 0162886 A1 20010830 - PROCTER & GAMBLE [US], et al
- [A] WO 2006005919 A1 20060119 - RECKITT BENCKISER NV [NL], et al

Cited by
WO2023197233A1

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

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DOCDB simple family (application)
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