

Title (en)
ENZYME STABILIZERS

Title (de)
ENZYMSTABILISATOREN

Title (fr)
STABILISATEURS D'ENZYMES

Publication
EP 3227424 A1 20171011 (DE)

Application
EP 15794937 A 20151117

Priority
• DE 102014224748 A 20141203
• EP 2015076749 W 20151117

Abstract (en)
[origin: WO2016087183A1] The present invention relates to detergents and cleaning agents, containing at least one protease and at least one organic compound of formula (I), said compound acting as a protease inhibitor and thus being a suitable enzyme stabilizer, and to the use of said compounds as enzyme stabilizers in protease-containing detergents and cleaning agents. The invention further relates to the corresponding washing and cleaning methods and to the use of the agents described herein.

IPC 8 full level
C11D 3/386 (2006.01); **C11D 3/28** (2006.01)

CPC (source: EP US)
A61K 31/4164 (2013.01 - EP US); **C11D 3/28** (2013.01 - EP US); **C11D 3/386** (2013.01 - EP US); **C11D 3/38609** (2013.01 - US); **C11D 3/38663** (2013.01 - EP US); **C11D 3/38618** (2013.01 - EP US); **Y02A 50/30** (2017.12 - EP US)

Citation (search report)
See references of WO 2016087183A1

Citation (examination)
HUA ZHAO, OLARONGBE OLUBAJO, ZHIYAN SONG, ARTEZ L. SIMS, TERRA E. PERSON, RASHEED A. LAWAL, LADENA A. HOLLEY:
"Effect of kosmotropicity of ionic liquids on the enzyme stability in aqueous solutions", vol. 34, no. 1, December 2005 (2005-12-01) - February 2006 (2006-02-01), pages 15 - 25, Retrieved from the Internet <URL:https://ac.els-cdn.com/S0045206805000933/1-s2.0-S0045206805000933-main.pdf?_tid=63152eb4-79c0-496a-90e9-0bc5771fc469&acdnt=1528716043_3a3601b303131cafca054a211eadbe74> [retrieved on 20180611], DOI: <https://doi.org/10.1016/j.bioorg.2005.10.004>

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 2016087183 A1 20160609; DE 102014224748 A1 20160609; EP 3227424 A1 20171011; US 2017321163 A1 20171109

DOCDB simple family (application)
EP 2015076749 W 20151117; DE 102014224748 A 20141203; EP 15794937 A 20151117; US 201515532507 A 20151117