

Title (en)

Method for improving the cleaning performance of a washing and cleaning agent

Title (de)

Verfahren zur Verbesserung der Reinigungsleistung eines Wasch- und Reinigungsmittels

Title (fr)

Procédé d'amélioration de la puissance de nettoyage d'un produit de lavage et de nettoyage

Publication

**EP 2727989 B1 20190626 (DE)**

Application

**EP 14152970 A 20090710**

Priority

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- EP 09780407 A 20090710
- EP 2009058789 W 20090710

Abstract (en)

[origin: WO2010020475A2] According to the invention, the cleaning action of a detergent or cleaning agent is improved when the agent comprises at least one hydrolytic enzyme and at least one substance that produces a synergistic cleaning action when the agent is used together with the hydrolytic enzyme. Said substance is selected from the following: i. an amino acid or polyamino acid or derivatives therefrom and/or; ii. biotenside and/or; iii. a microbial metabolite and/or; iv. a preparation of a microbial culture supernatant that contains at least 2.5 % in weight of one of the substances i) to iii).

IPC 8 full level

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Citation (opposition)

Opponent : DANISCO US INC.

US 2020231957 A1 20200723 - FERNANDEZ LAYLA [DE], et al

Opponent : Danisco US Inc.

- US 2011201536 A1 20110818 - O'CONNELL TIMOTHY [DE], et al
- US 4305837 A 19811215 - KAMINSKY GEORGE J, et al
- DE 19953057 A1 20010510 - HENKEL KGAA [DE]

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**DE 102008038479 A1 20100225**; EP 2313482 A2 20110427; EP 2313482 B1 20190612; EP 2313482 B2 20220727; EP 2313483 A2 20110427; EP 2313483 B1 20180620; EP 2727988 A2 20140507; EP 2727988 A3 20160316; EP 2727988 B1 20190904; EP 2727989 A2 20140507; EP 2727989 A3 20160316; EP 2727989 B1 20190626; EP 2727989 B2 20221221; EP 2727990 A2 20140507; EP 2727990 A3 20160316; ES 2744829 T3 20200226; ES 2744829 T5 20221019; ES 2745761 T3 20200303; ES 2745761 T5 20230309; ES 2753240 T3 20200407; PL 2313482 T3 20191129; PL 2313482 T5 20230227; PL 2727988 T3 20200228; PL 2727989 T3 20191231; PL 2727989 T5 20230327; US 2011136720 A1 20110609; US 2011201536 A1 20110818; WO 2010020475 A2 20100225; WO 2010020475 A3 20100617; WO 2010020476 A2 20100225; WO 2010020476 A3 20100617

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