

Title (en)

Liquid detergents containing surfactant, proteolytic enzyme and boric acid.

Title (de)

Flüssige Reinigungsmittel mit einer oberflächenaktiven Verbindung, einem proteolytischen Enzym und Borsäure.

Title (fr)

Détergents liquides contenant un composé tensioactif, une enzyme protéolytique et de l'acide borique.

Publication

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Application

EP 86200586 A 19860407

Priority

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Abstract (en)

Liquid detergent compositions containing synthetic surfactant, specific proteolytic enzyme, boric acid or a boron compound capable of forming boric acid in the composition, and calcium ion are disclosed. The compositions exhibit improved enzyme stability because boric acid stabilizes the proteases herein to a greater degree than it does other proteases. Preferred laundry detergent compositions containing anionic surfactant and detergency builder also provide improved cleaning performance, particularly through-the-wash, on enzyme-sensitive stains.

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Cited by

EP0753557A1; EP0753567A1; US5039446A; GB2373254A; GB2367065A; GB2367065B; CN1035389C; TR25764A; EP0451924A3; GR910100154A; TR25788A; WO02068574A1; WO9206151A1; WO9300418A1; WO9321299A1; WO2017192653A1; WO03083030A1; EP0693549A1; WO2011088089A1; WO2012138423A1; WO2012112828A1; WO2013043855A2; US6287841B1; WO2012009525A2; WO2015112671A1; WO2018140454A1; DE112018000568T5; WO2012003319A2; WO2013043852A2; WO2012003300A2; WO2021097004A1; WO2012003367A2; LT3963B; WO2013043857A1; WO2020123889A1; WO2022251838A1; WO2018140472A1; DE112018000558T5; EP3881900A1; EP4197598A1; WO2012003351A2; WO2012003360A2; WO2013002786A1; EP3533908A1; EP0778342A1; WO2018140431A1; DE112018000565T5; EP3719192A1; EP3915643A1; WO2023057367A1; WO2012003316A1; WO2013043805A1; WO2013070559A1; WO2013070560A1; WO2018140432A1; DE112018000563T5; EP3991962A1; US7119054B2; WO2012009660A2; FR2985273A1; EP3369845A1; WO2021026556A1; WO9742282A1; WO2013043803A2; WO2015088826A1; EP3572572A1; US10494767B2; EP3805350A1; US11293144B2; DE112014005598B4; US11624156B2; US11795622B2; US11970821B2

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