

Title (en)

PHOSPHATE-CONTAINING POWDER AUTOMATIC DISHWASHING COMPOSITION WITH ENZYMES

Publication

EP 0516555 A3 19940720 (EN)

Application

EP 92401477 A 19920529

Priority

US 70856891 A 19910531

Abstract (en)

[origin: EP0516555A2] A powdered detergent containing a mixture of a protease enzyme and an amylase enzyme, wherein said diswashing composition comprises in percent by weight : <IMAGE> wherein said protease enzyme is Maxacal protease enzyme and said amylase enzyme is Maxamyl amylase enzyme, a weight ratio of said protease enzyme to said amylase enzyme being 5:1 to about 1.1:1, wherein said detergent dishwashing composition has a pH of less than 10.5, at a concentration of 10 grams/liter.

IPC 1-7

C11D 3/386; **C11D 3/36**; **C11D 3/37**; **C11D 3/39**

IPC 8 full level

C11D 3/06 (2006.01); **C11D 3/08** (2006.01); **C11D 3/37** (2006.01); **C11D 3/386** (2006.01)

CPC (source: EP)

C11D 3/06 (2013.01); **C11D 3/08** (2013.01); **C11D 3/3761** (2013.01); **C11D 3/38609** (2013.01)

Citation (search report)

[X] EP 0425214 A2 19910502 - UNILEVER PLC [GB], et al

Cited by

US5703027A; GB2283494A; US2014261585A1; US9861258B2; WO2011049945A2; US9040278B2; US9040279B2; EP2428572A2; WO9617047A1; US8507243B2; US10561295B2; US8323945B2; US8975056B2; US9090887B2

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 0516555 A2 19921202; **EP 0516555 A3 19940720**; AU 1620792 A 19921203; AU 654009 B2 19941020; CA 2069849 A1 19921201; FI 922492 A0 19920529; FI 922492 A 19921201; GR 920100244 A 19930331; IE 921743 A1 19921202; NO 922051 D0 19920525; NO 922051 L 19921201; NZ 242824 A 19950427; PT 100534 A 19940131

DOCDB simple family (application)

EP 92401477 A 19920529; AU 1620792 A 19920512; CA 2069849 A 19920528; FI 922492 A 19920529; GR 920100244 A 19920529; IE 921743 A 19920701; NO 922051 A 19920525; NZ 24282492 A 19920520; PT 10053492 A 19920529