

Title (en)
Heavy duty laundry detergent

Title (de)
Vollwaschmittel für Wäsche

Title (fr)
Détergent universel pour le linge

Publication
EP 0421327 B1 19951220 (EN)

Application
EP 90118815 A 19901001

Priority
US 41614389 A 19891002

Abstract (en)
[origin: EP0421327A1] Free-flowing granular heavy duty laundry detergent is made by blending a composition to contain (i) a tert-amine oxide dihydrate having the formula $R_1R_2R_3NO \cdot 2H_2O$ where R_1 is a C8-24 alkyl, R_2 is methyl, ethyl or a C8-24 alkyl and R_3 is methyl or ethyl, (ii) a detergent builder (e.g., zeolite A) and optionally other conventional laundry detergent ingredients.

IPC 1-7
C11D 1/75

IPC 8 full level
C11D 1/75 (2006.01); **C11D 11/00** (2006.01); **C11D 17/06** (2006.01)

CPC (source: EP)
C11D 1/75 (2013.01)

Cited by
US6035869A; US5478500A; WO9855591A1; WO9312217A1; WO9516016A1; WO9855580A1

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
EP 0421327 A1 19910410; EP 0421327 B1 19951220; CA 2025973 A1 19910403; DE 69024305 D1 19960201; DE 69024305 T2 19960515; JP 2848536 B2 19990120; JP H03179096 A 19910805

DOCDB simple family (application)
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