

Title (en)  
Cleaning methods and products providing compatibilized staged release of bleach followed by enzymes

Title (de)  
Reinigungsverfahren und -produkte, die eine aufeinander abgestimmte, stufenweise Freisetzung eines Bleichmittels, gefolgt von Enzymen, bewirken

Title (fr)  
Méthodes de nettoyage et produits permettant une libération compatible par étape du produit de blanchiment et des enzymes

Publication  
**EP 0723006 A3 19980701 (EN)**

Application  
**EP 95203545 A 19951219**

Priority  
US 37660495 A 19950123

Abstract (en)  
[origin: EP0723006A2] Improved detergent compositions, especially granular automatic dishwashing detergents, comprising deterative enzymes (such as proteases and/or amylases), and bleaches (such as hypochlorite or sodium dichloroisocyanurate) capable of deactivating the enzymes. Also, methods for achieving improved performance from combinations of these ingredients via an improved delivery sequence and profile, specifically involving release of bleach prior to enzyme, are provided. Preferred compositions comprise bleach scavengers (such as ammonium sulfate) and enzyme dissolution-delaying polymers (such as film-forming polyesters) employed in compositions which allow destruction of the bleach or its conversion to an enzyme-compatible form prior to dispersal of enzyme in the wash.

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**C11D 3/39**; **C11D 3/386**

IPC 8 full level  
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CPC (source: EP)  
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Citation (search report)

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