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(54) **Nonaqueous liquid automatic dishwasher detergent composition containing a dual bleach system.**

(57) The application is directed to a nonaqueous liquid automatic dishwasher detergent composition containing a dual bleach system. The composition contains a nonaqueous organic carrier liquid, a chlorine bleach source and a bromide compound. In the wash bath the chlorine source reacts with water to form hypochlorite and the bromide compound reacts with a portion of the hypochlorite to form hypobromite. The active ingredients of the dual bleach system are the hypochlorite and hypobromite which provide improved cleaning performance against both proteinaceous and starchy carbohydrate soils. The dish washing compositions comprise a nonaqueous organic carrier liquid, a surfactant, a chlorine bleach source and a bromide compound, are stable in storage and are readily dispersible in water.

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EUROPEAN SEARCH REPORT

Application Number

EP 90 40 2794

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
Y,D	EP-A-0 186 234 (THE PROCTER & GAMBLE CO.) * whole document * - - -	1-14	C 11 D 17/00 C 11 D 3/395
Y,D	US-A-4 753 748 (L. LAITEM et al.) * claims; column 8, lines 12-37; column 10, lines 23-25 * - - -	1-14	
A,P	US-A-4 102 799 (P.A. FINCK) * column 3, lines 17-68; column 4, lines 1-5 * - - -	1-14	
A	GB-A-1 167 888 (UNILEVER) * examples 1-6 * - - -	1	
A,D	US-A-3 519 569 (R.B. DIAZ et al.) * claims * - - -	1	
A	DATABASE WPIL/DERWENT accession no. 89-230391 (32), 1989, Derwent Publications Ltd., London, GB; & JP - A - 1164701 (CHIYODA KAGAKU KENK) 28.06.1989 * abstract * - - - - -	1	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			C 11 D
The present search report has been drawn up for all claims			
Place of search Berlin		Date of completion of search 24 April 91	Examiner PELLI-WABLAT B
CATEGORY OF CITED DOCUMENTS X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category A: technological background O: non-written disclosure P: intermediate document T: theory or principle underlying the invention E: earlier patent document, but published on, or after the filing date D: document cited in the application L: document cited for other reasons ----- &: member of the same patent family, corresponding document			