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(54) **Heavy duty laundry detergent compositions of reduced dye transfer properties.**

(57) A heavy duty particulate laundry detergent composition which is of reduced dye transfer properties and improved dye stability during laundering of mixed colored and white fabric laundry items is a built nonionic detergent composition (with the builder usually including sodium tripolyphosphate and/or zeolite) in which bentonite or other suitable montmorillonite clay adsorbs any dye released into the wash water by the dyed items and carries such dye off in the removed wash water and rinse water, so that it does not deposit on any white or light colored laundry items. This action of the bentonite is specific to essentially nonionic synthetic organic detergent compositions and to wash waters that contain only (or essentially only) the present nonionic detergent component, present in sufficient anti-deposition proportion. In some instances a low molecular weight polyvinyl pyrrolidone may be present in the detergent compositions to reduce dye transfer further. Various other usual detergent composition builders, functional components, adjuvants and fillers may be present in the invented compositions, together with some water, provided that they are non-interfering. Bleaching

compounds and optical brighteners are best omitted or essentially omitted, to improve dye stability of the dyes of the colored laundry items (although comparatively small proportions thereof may be acceptable).



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EUROPEAN SEARCH REPORT

Application Number
EP 93 30 6205

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	EP-A-0 431 867 (UNILEVER PLC ET AL.) * page 2, line 3 * * page 3, line 19 - line 58 * * page 5, line 23 - line 33 * * page 5, line 46 - line 47 * * claims * ---	1-13	C11D3/12 C11D1/66 C11D17/06 C11D3/00 C11D3/075 C11D1/72 C11D3/37 C11D11/00
Y	EP-A-0 425 804 (HENKEL KGAA) * claims * ---	1-13	
A	FR-A-2 500 475 (COLGATE PALMOLIVE CO) 27 August 1982 * claims * ---	1,6,7,9	
A	FR-A-1 160 236 (JOH.A.BENCKISER G.M.B.H. CHEMISCHE FABRIK) * the whole document * ---	1,2,7, 11-13	
A	DATABASE WPI DERWENT PUBLICATIONS LTD., LONDON, GB Section Ch, Week 7830, AN 78-54792A, * abstract * & RESEARCH DISCLOSURE, vol. 171,no. 66, 10 July 1978 EMSWORTH, GB, ANONYMOUS -----	1	TECHNICAL FIELDS SEARCHED (Int.Cl.5) C11D
The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 12 April 1995	Examiner Pelli Wablat, B
<p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p> <p>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</p>			

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