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⑷ Applicant: UNILEVER NV  
Burgemeester s'Jacobplein 1 P.O. Box 760  
NL-3000 DK Rotterdam(NL)

⑸ CH DE ES FR IT LI NL SE

Applicant: UNILEVER PLC  
Unilever House Blackfriars P.O. Box 68  
London EC4P 4BQ(GB)

⑹ GB

⑺ Inventor: Emery, William Derek  
64 Plymyard Avenue Bromborough  
Wirral Merseyside L62 6BP(GB)  
Inventor: Barnes, Stephen George  
7 Vernon Avenue Hooton  
South Wirral L66 6AL(GB)  
Inventor: Sims, Peter Stanford  
71 Dee Banks Chester  
Cheshire CH3 5UX(GB)

⑻ Representative: Tan, Bian An, Ir. et al  
Unilever N.V. Patent Division P.O. Box 137  
NL-3130 AC Vlaardingen(NL)

⑼ Phosphate-free detergent bleach compositions.

**EP 0 313 145 A3**  
Phosphate-free, aluminosilicate-built detergent bleach compositions having really effective cleaning and stain removal performances at low wash temperatures of 40 °C and below are disclosed, which compositions comprise at least one detergent-active material, from 15% to about 40% by weight of a water-insoluble, aluminosilicate cation-exchange material, from 0.5 to about 3% by weight of a polyphosphonate compound, and from about 1% to about 5% by weight of a solid organic peroxyacid compound as the principal bleaching agent, said composition being substantially free of additional builder materials selected from the group consisting of citric acid and its alkali metal salts, bicarbonates,

nitrilotriacetates and mixtures thereof. In a preferred embodiment the composition further contains an enzyme, particularly a proteolytic enzyme.



EP 88 20 2245

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.4)						
D, Y	EP-A-0 168 373 (MONSANTO) * Page 4, lines 30-37; page 7; claims 1-3,6 * ---	1-7	C 11 D 3/395 C 11 D 3/12 C 11 D 3/36						
Y	EP-A-0 137 669 (PROCTER & GAMBLE) * Claims 1,11; page 19, lines 13-19,34-35; page 23, line 3 * ---	1-7							
A	FR-A-2 388 043 (LAPORTE INDUSTRIES) * Page 11, lines 21-28; page 14, lines 3-4; page 13, lines 20-21; claims 1,10,11 * -----	1							
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)						
			C 11 D						
<p>The present search report has been drawn up for all claims</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Place of search</td> <td style="width: 33%;">Date of completion of the search</td> <td style="width: 34%;">Examiner</td> </tr> <tr> <td>THE HAGUE</td> <td>20-07-1989</td> <td>PFANNENSTEIN H.F.</td> </tr> </table>				Place of search	Date of completion of the search	Examiner	THE HAGUE	20-07-1989	PFANNENSTEIN H.F.
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<b>CATEGORY OF CITED DOCUMENTS</b> 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							