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(54) **Non-phosphorus detergent bleach compositions.**

**A3**  
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**EP** Non-phosphorus aluminosilicate built detergent  
bleach compositions having really effective cleaning  
and stain-removal performances at low wash tem-  
peratures of 40 °C and below comprise at least one  
detergent-active material selected from anionic, non-  
ionic, amphoteric, zwitterionic detergent compounds  
and soaps and mixtures thereof and

(c) from about 1% to about 15% by weight of  
a solid organic peroxyacid.

(a) from about 15% to about 40% by weight  
of a water-insoluble aluminosilicate cation-exchange  
material;

(b) from about 1% to about 15% by weight of  
citric acid or an alkali metal citrate; and



EP 88 20 2243

## **DOCUMENTS CONSIDERED TO BE RELEVANT**

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)
X	DE-A-2 430 144 (HENKEL) * Page 23, lines 1-12; claims 14, 20, 21; example 2; page 14, lines 23-32 * ---	1	C 11 D 3/395 C 11 D 3/12 C 11 D 3/20
A	DE-A-3 121 242 (DEGUSSA) * Claims 1-3, 6; page 8, lines 30-32; page 9, line 32 - page 10, line 10 * ---	1, 3	
A	EP-A-0 070 067 (PROCTER & GAMBLE) * Claims; page 23, lines 14-19 * -----	1	
TECHNICAL FIELDS SEARCHED (Int. Cl. 4)			
C 11 D			
The present search report has been drawn up for all claims			
Place of search	Date of completion of the search	Examiner	
THE HAGUE	20-07-1989	PFANNENSTEIN H.F.	
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone	T : theory or principle underlying the invention		
Y : particularly relevant if combined with another document of the same category	E : earlier patent document, but published on, or after the filing date		
A : technological background	D : document cited in the application		
O : non-written disclosure	L : document cited for other reasons		
P : intermediate document	& : member of the same patent family, corresponding document		