

(19)



Europäisches Patentamt
European Patent Office
Office européen des brevets

(11) Publication number:

0 100 125
A3

(12)

EUROPEAN PATENT APPLICATION

(21) Application number: 83201070.6

(51) Int. Cl.⁴: **C 11 D 3/22, C 11 D 1/83,**
C 11 D 3/386

(22) Date of filing: 20.07.83

(30) Priority: 27.07.82 GB 8221726

(71) Applicant: **THE PROCTER & GAMBLE COMPANY,**
301 East Sixth Street, Cincinnati Ohio 45202 (US)

(43) Date of publication of application: 08.02.84
Bulletin 84/6

(72) Inventor: **Wevers, Jean, 198, Humbeeksesteenweg,**
B-1820 Grimbergen (BE)
Inventor: **Stoddart, Barry, 36 Windsor avenue,**
Gateshead Tyne and Wear (GB)
Inventor: **Barrat, Christian, 38, avenue Wannecooter,**
B-1020 Bruxelles (BE)

(84) Designated Contracting States: **AT BE CH DE FR GB IT**
LI NL

(88) Date of deferred publication of search
report: 10.09.86 Bulletin 86/37

(74) Representative: **Ernst, Hubert et al, PROCTER &**
GAMBLE EUROPEAN TECHNICAL CENTER
Temselaan 100, B-1820 Strombeek-Bever (BE)

(54) **Liquid detergent compositions comprising coacervate mixture of alkylcellulose and carboxymethylcellulose and method for preparing them.**

(57) Aqueous homogeneous liquid detergent compositions containing additive levels of alkylcellulose and carboxymethylcellulose and a mixture of anionic and nonionic surface-active agents are disclosed. The compositions have a pH in the neutral to mildly alkaline range. The alkylcellulose/carboxymethylcellulose is present as a coacervate capable of forming, in combination with the surfactants, a network of loosely associated droplets.

This network is tridimensional and provides means for stably and homogeneously suspending detergent components/additives which otherwise could not be incorporated, particularly ingredients which are substantially insoluble in the liquid compositions.

EP 0 100 125 A3



European Patent
Office

EUROPEAN SEARCH REPORT

0100125

Application number

EP 83 20 1070

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. ³)												
X	DE-B-1 467 704 (WITCO) * Examples; claims *	1,4,5	C 11 D 3/22 C 11 D 1/83 C 11 D 3/386												
Y	--- US-A-3 523 088 (W.L. DEAN et al.) * Column 12, example 1; claims *	1													
Y	--- US-A-2 994 665 (I. REICH et al.) * Whole document *	1													
Y	--- GB-A- 783 585 (ARMOUR) * Page 1, lines 53-85; examples; claims *	1													
Y	--- US-A-2 886 533 (L.R. BACON) * Claims *	1	TECHNICAL FIELDS SEARCHED (Int. Cl. ³)												
Y	--- FR-A-1 192 968 (UNILEVER) * Page 2, column 2, last paragraph; abstract * & DE - B - 1 054 638 (Cat. D,Y) -----	1	C 11 D												
The present search report has been drawn up for all claims															
Place of search THE HAGUE		Date of completion of the search 16-06-1986	Examiner GOLLER P.												
<table border="0"><tr><td>CATEGORY OF CITED DOCUMENTS</td><td>T : theory or principle underlying the invention</td></tr><tr><td>X : particularly relevant if taken alone</td><td>E : earlier patent document, but published on, or after the filing date</td></tr><tr><td>Y : particularly relevant if combined with another document of the same category</td><td>D : document cited in the application</td></tr><tr><td>A : technological background</td><td>L : document cited for other reasons</td></tr><tr><td>O : non-written disclosure</td><td>& : member of the same patent family, corresponding document</td></tr><tr><td>P : intermediate document</td><td></td></tr></table>				CATEGORY OF CITED DOCUMENTS	T : theory or principle underlying the invention	X : particularly relevant if taken alone	E : earlier patent document, but published on, or after the filing date	Y : particularly relevant if combined with another document of the same category	D : document cited in the application	A : technological background	L : document cited for other reasons	O : non-written disclosure	& : member of the same patent family, corresponding document	P : intermediate document	
CATEGORY OF CITED DOCUMENTS	T : theory or principle underlying the invention														
X : particularly relevant if taken alone	E : earlier patent document, but published on, or after the filing date														
Y : particularly relevant if combined with another document of the same category	D : document cited in the application														
A : technological background	L : document cited for other reasons														
O : non-written disclosure	& : member of the same patent family, corresponding document														
P : intermediate document															