# Europäisches Patentamt European Patent Office

Office européen des brevets



(11) **EP 0 744 461 A3** 

(12)

### **EUROPEAN PATENT APPLICATION**

- (88) Date of publication A3: 20.10.1999 Bulletin 1999/42
- (43) Date of publication A2: **27.11.1996 Bulletin 1996/48**
- (21) Application number: 96202407.1
- (22) Date of filing: 05.12.1994

(51) Int. CI.<sup>6</sup>: **C11D 17/00**, C11D 11/00, C11D 1/29, C11D 1/65, C11D 3/36, C11D 3/386, C11D 17/04

(84) Designated Contracting States:

AT BE CH DE DK ES FR GB GR IE IT LI LU NL PT SF

- (30) Priority: 30.03.1994 EP 94200867
- (62) Document number(s) of the earlier application(s) in accordance with Art. 76 EPC: 94870189.1 / 0 677 577
- (71) Applicant:

THE PROCTER & GAMBLE COMPANY Cincinnati, Ohio 45202 (US)

- (72) Inventor: Wevers, Jean 1840 Steenhuffel (BE)
- (74) Representative:
  Gibson, Tony Nicholas et al
  Procter & Gamble
  European Technical Center
  Temselaan 100
  B-1853 Strombeek-Bever (BE)
- (54) Foamed cleaning compositions and method of treating textile fabrics

(57) The invention relates to a foam composition for cleaning textiles comprising detergent active components, including enzymes and a surfactant system. The surfactant system consists of anionic surfactant and, optionally, nonionic surfactant, at a level of at least 18% by weight. Preferably both anionic and nonionic surfactants are present in the surfactant system of the foam.

The invention also relates to a method of cleaning textiles using foamed compositions, and also to a packaged product for delivering the foamed compositions.



## **EUROPEAN SEARCH REPORT**

Application Number EP 96 20 2407

	DOCUMENTS CONSIDE				01 A001510 A T1011 CE T117
Category	Citation of document with in of relevant pass		Rele to cla		CLASSIFICATION OF THE APPLICATION (Int.CI.6)
Y	EP 0 586 295 A (NLN 9 March 1994 (1994-) * abstract * * page 3, line 23 - * claims; examples	03-09) line 38 *	1-9	CCC	11D17/00 11D11/00 11D1/29 11D1/65 11D3/36 11D3/386
Υ	FR 2 111 162 A (AKZ 2 June 1972 (1972-0 * page 2, line 6 - * claims * * page 3, line 2 -	6-02) line 11 *	1-9		11D17/04
Α	US 4 954 286 A (SEP 4 September 1990 (1 * column 2, line 40 * column 2, line 60 * column 3, line 35 * column 4, line 5 * claims; examples	990-09-04) - line 48 * - line 68 * - line 51 * - line 15 *	TT AL) 1-9		
Α	US 3 919 101 A (ANS AL) 11 November 197 * column 3, line 40 * column 5, line 16 * column 5, line 29	5 (1975-11-11) - line 53 * - line 18 *	HAEL ET 1-9	С	TECHNICAL FIELDS SEARCHED (Int.CI.6)
Α	US 3 781 212 A (SMI 25 December 1973 (1 * claims *		1-9		
Α	WO 92 06154 A (PROC 16 April 1992 (1992 * abstract; claims	-04-16)	1-3		
	The present search report has	been drawn up for all claim	<u> </u>		
	Place of search	Date of completion o			Examiner
	BERLIN	30 August		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: the E: ea aft ther D: do L: do	ory or principle underfiler patent document, or the filing date cument cited in the appument cited for other or the same pateument of the same pateument	ying the inve but published plication reasons	ention ad on, or

### ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 96 20 2407

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

30-08-1999

	Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP	0586295	Α	09-03-1994	FR	2695133 A	04-03-1994
FR	2111162	<b>A</b>	02-06-1972	NL BE DE DK GB SE	7014739 A 773021 A 2150142 A 131378 B 1357164 A 391534 B	11-04-1972 17-01-1972 13-04-1972 07-07-1975 19-06-1974 21-02-1977
US	4954286	Α	04-09-1990	AU AU CA JP	619271 B 3268389 A 1322509 A 2014293 A	23-01-1992 19-10-1989 28-09-1993 18-01-1990
US	3919101	A	11-11-1975	CA CH DE DE FR GB GB US ZA IT PH ZA	941259 A 549637 A 2110750 A 2232411 A 2084754 A 2145537 A 1343312 A 1393408 A 3736259 A 7101151 A 965899 B 9585 A 7204236 A	05-02-1974 31-05-1974 07-10-1971 01-03-1973 17-12-1971 23-02-1973 10-01-1974 07-05-1975 29-05-1973 27-09-1972 11-02-1974 19-01-1976 27-02-1974
US	3781212	Α	25-12-1973	NONE		
FORM P0459	9206154	A	16-04-1992	AT AU CA CA CN CZ CZ DE DE HU JP NZ SK	155521 T 663851 B 8669991 A 2092556 A 2104349 A 1061042 A,B 9300373 A 9300576 A 69126879 D 69126879 T 0550695 A 213043 B 2854136 B 6501042 T 240027 A 21093 A	15-08-1997 26-10-1995 28-04-1992 29-03-1992 29-03-1992 13-05-1992 13-04-1994 13-04-1994 21-08-1997 19-02-1998 14-07-1993 28-01-1997 03-02-1999 27-01-1994 27-06-1995 06-10-1993

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

## ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 96 20 2407

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

30-08-1999

Patent document cited in search report	Publication date	Pa m	itent family nember(s)	Publication date
WO 9206154 A		SK TR	46293 A 25688 A	12-01-1994 01-09-1993

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82