



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁷ : C11D 3/39, 1/37 // C11D 1/04, 1/06, 1/12		A3	(11) International Publication Number: WO 00/27970 (43) International Publication Date: 18 May 2000 (18.05.00)
(21) International Application Number:	PCT/US99/26601	(81) Designated States:	AE, AL, AM, AT, AT (Utility model), AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, CZ (Utility model), DE, DE (Utility model), DK, DK (Utility model), DM, EE, EE (Utility model), ES, FI, FI (Utility model), GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK (Utility model), SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).
(22) International Filing Date:	10 November 1999 (10.11.99)	(72) Inventors; and	
(30) Priority Data:	PCT/US98/23988 10 November 1998 (10.11.98) US	(75) Inventors/Applicants (for US only):	DI CAPUA, Gloria [IT/IT]; Via Corone Boreale, 131, I-00040 Ardea/Rome (IT). DRESCO, Pierre, Antoine [FR/IT]; Via San Silverio, 23, I-00165 Rome (IT). SCIALLA, Stefano [IT/IT]; Via F.B. Rastrelli, 81, I-00128 Rome (IT).
(71) Applicant (for all designated States except US):	THE PROCTER & GAMBLE COMPANY [US/US]; One Procter & Gamble Plaza, Cincinnati, OH 45202 (US).	(74) Agents:	REED, T., David et al.; The Procter & Gamble Company, 5299 Spring Grove Avenue, Cincinnati, OH 45217-1087 (US).
(73) Published	With international search report.		
(88) Date of publication of the international search report:	24 August 2000 (24.08.00)		

(54) Title: BLEACHING COMPOSITIONS

(57) Abstract

The present invention relates to a bleaching comprising a pre-formed peroxyacid and a surfactant system comprising at least two surfactants. These compositions are suitable to deliver improved bleaching performance whilst also being safe to colour and fabric. Furthermore the compositions herein are also chemically and physically stable upon prolonged periods of storage time.

FOR THE PURPOSES OF INFORMATION ONLY

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

AL	Albania	ES	Spain	LS	Lesotho	SI	Slovenia
AM	Armenia	FI	Finland	LT	Lithuania	SK	Slovakia
AT	Austria	FR	France	LU	Luxembourg	SN	Senegal
AU	Australia	GA	Gabon	LV	Latvia	SZ	Swaziland
AZ	Azerbaijan	GB	United Kingdom	MC	Monaco	TD	Chad
BA	Bosnia and Herzegovina	GE	Georgia	MD	Republic of Moldova	TG	Togo
BB	Barbados	GH	Ghana	MG	Madagascar	TJ	Tajikistan
BE	Belgium	GN	Guinea	MK	The former Yugoslav Republic of Macedonia	TM	Turkmenistan
BF	Burkina Faso	GR	Greece	ML	Mali	TR	Turkey
BG	Bulgaria	HU	Hungary	MN	Mongolia	TT	Trinidad and Tobago
BJ	Benin	IE	Ireland	MR	Mauritania	UA	Ukraine
BR	Brazil	IL	Israel	MW	Malawi	UG	Uganda
BY	Belarus	IS	Iceland	MX	Mexico	US	United States of America
CA	Canada	IT	Italy	NE	Niger	UZ	Uzbekistan
CF	Central African Republic	JP	Japan	NL	Netherlands	VN	Viet Nam
CG	Congo	KE	Kenya	NO	Norway	YU	Yugoslavia
CH	Switzerland	KG	Kyrgyzstan	NZ	New Zealand	ZW	Zimbabwe
CI	Côte d'Ivoire	KP	Democratic People's Republic of Korea	PL	Poland		
CM	Cameroon	KR	Republic of Korea	PT	Portugal		
CN	China	KZ	Kazakhstan	RO	Romania		
CU	Cuba	LC	Saint Lucia	RU	Russian Federation		
CZ	Czech Republic	LI	Liechtenstein	SD	Sudan		
DE	Germany	LK	Sri Lanka	SE	Sweden		
DK	Denmark	LR	Liberia	SG	Singapore		

INTERNATIONAL SEARCH REPORT

Inte. onal Application No

PCT/US 99/26601

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C11D3/39 C11D1/37 //C11D1/04,C11D1/06,C11D1/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C11D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P , X	EP 0 890 635 A (MANITOBA ITALIA SPA) 13 January 1999 (1999-01-13) page 3, line 26 - line 52 examples 1-3 claims 1-10	1-8, 10-13
X	EP 0 442 549 A (UNILEVER NV ;UNILEVER PLC (GB)) 21 August 1991 (1991-08-21) page 3, line 51 -page 4, line 34	1-5,7,8, 10,12,13
X	WO 94 13776 A (UNILEVER PLC ;UNILEVER NV (NL)) 23 June 1994 (1994-06-23) claims 1-12	1-5,7,8, 10,12,13
X	EP 0 610 010 A (UNILEVER PLC ;UNILEVER NV (NL)) 10 August 1994 (1994-08-10) examples 1,2 claims 1-7,15	1-5,7,8, 12,13
		-/-

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

2 June 2000

Date of mailing of the international search report

13/06/2000

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl.
Fax: (+31-70) 340-3016

Authorized officer

Richards, M

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 99/26601

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 391 324 A (REINHARDT GERD ET AL) 21 February 1995 (1995-02-21) examples 1-15 claims 1,2 ---	1-5,7, 10,12,13
X	US 5 073 285 A (LIBERATI PATRICIA ET AL) 17 December 1991 (1991-12-17) example 1 claim 1 ---	1,5,8, 10-13
X	EP 0 435 379 A (AKZO NV) 3 July 1991 (1991-07-03) page 4, line 52 -page 5, line 39 ---	1-5,7,8, 11-13
X	GB 2 281 744 A (PROCTER & GAMBLE) 15 March 1995 (1995-03-15) claims 1,2 ---	1-5, 10-13
A	CHEMICAL ABSTRACTS, vol. 117, no. 8, 24 August 1992 (1992-08-24) Columbus, Ohio, US; abstract no. 72113w, XP000375837 abstract & JP 04 103697 A (AOYANAGI M ET AL) 22 August 1990 (1990-08-22) -----	1-5,8
A		

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 99/26601

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
EP 0890635	A	13-01-1999	IT	MI971617 A		08-01-1999
EP 0442549	A	21-08-1991	AU	639296 B		22-07-1993
			AU	7086491 A		15-08-1991
			CA	2035790 A		14-08-1991
			DE	69122789 D		28-11-1996
			DE	69122789 T		13-03-1997
			ES	2093672 T		01-01-1997
			JP	4214800 A		05-08-1992
WO 9413776	A	23-06-1994	AU	5650694 A		04-07-1994
			TR	27486 A		07-06-1995
EP 0610010	A	10-08-1994	CA	2114293 A		03-08-1994
			DE	69412875 D		08-10-1998
			DE	69412875 T		21-01-1999
			ES	2122159 T		16-12-1998
US 5391324	A	21-02-1995	AU	642337 B		14-10-1993
			AU	1060992 A		06-08-1992
			BR	9200330 A		13-10-1992
			CA	2060437 A		02-08-1992
			DE	59208558 D		10-07-1997
			EP	0497337 A		05-08-1992
			HK	1007166 A		01-04-1999
			JP	6025697 A		01-02-1994
			MX	9200450 A		01-08-1992
			NO	920418 A		03-08-1992
			ZA	9200702 A		28-10-1992
US 5073285	A	17-12-1991	US	4992194 A		12-02-1991
			CA	2056365 A,C		13-12-1990
			DE	69001249 D		06-05-1993
			DE	69001249 T		12-08-1993
			WO	9015857 A		27-12-1990
			EP	0477190 A		01-04-1992
			ES	2054354 T		01-08-1994
EP 0435379	A	03-07-1991	CA	2032863 A		23-06-1991
			JP	5271695 A		19-10-1993
GB 2281744	A	15-03-1995	CA	2126382 A,C		31-12-1994
			JP	7070593 A		14-03-1995
JP 04103697	A	06-04-1992	JP	2801754 B		21-09-1998