



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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<p>(21) International Application Number: PCT/US97/08445 (22) International Filing Date: 16 May 1997 (16.05.97) (30) Priority Data: 60/017,883 17 May 1996 (17.05.96) US (71) Applicant (for all designated States except US): THE PROCTER & GAMBLE COMPANY [US/US]; One Procter & Gamble Plaza, Cincinnati, OH 45202 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): ASANO, Kaori [JP/JP]; Ohgi, 5-16-1-207, Higashinada-ku, Kobe 658, Hyogo (JP). SCHEIBEL, Jeffrey, John [US/US]; 10400 Buxton Lane, Montgomery, OH 45242-5306 (US). MINAMIKAWA, Kaori [JP/JP]; 1-26-46, Mitachi-higashi Himeji, Hyogo 670 (JP). CRON, Laura [US/US]; 5656 Lake Mead Drive, Fairfield, OH 45202 (US). MANOHAR, Sanjeev, Krishnadas [US/US]; 2014 B Meadowlawn Way, Fairfield, OH 45014 (US). CRIPE, Thomas, Anthony [US/US]; 599 Three Chimneys Lane, Loveland, OH 45140 (US). CURRY, John, Downing [US/US]; 95 Stone Creek Drive, Oxford, OH 45056 (US). KOTT, Kevin, Lee [US/US]; 2920 Bentbrook Drive, Cincinnati, OH 45251 (US). DODD, Ian, Martin [GB/GB]; 47 Holywell Drive, Loughborough LE11 3JU</p>		<p>(GB). HARTSHORN, Richard, Timothy [GB/GB]; 139 Dene Road, Wylam, Northumberland NE41 8EY (GB). FOLEY, Peter, Robert [GB/US]; Apartment 906, One Lytle Place, Cincinnati, OH 45202 (US). KATSUDA, Rinko [JP/JP]; Kobe Park City C507, 6-2-1, Chuo-ku, Kobe 650 (JP). KVIETOK, Frank, Andrej [US/US]; 1103 Richmond Avenue, Cincinnati, OH 45208 (US). MAO, Mark, Hsiang-Kuen [US/JP]; 2-23-13, Honmachi, Sumiyoshi, Kobe 658 (JP). MOSS, Michael, Alan, John [GB/GB]; 13 Painshawfield Road, Stocksfield, Northumberland NE43 7DZ (GB). MURATA, Susumu [JP/JP]; 6-5-A3, Yuba-cho, Nishinomiyu-City, Hyogo 662 (JP). WILLMAN, Kenneth, William [US/US]; 5603 Williamsburg Way, Fairfield, OH 45014 (US). PANANDIKER, Rajan, Keshav [US/US]; 6484 Oregon Pass, West Chester, OH 45069 (US). PRAMOD, Kakumanu [IN/US]; 7986 Kingfisher Lane, West Chester, OH 45069 (US). SARNAIK, Khizar, Mohamed, Khan [IN/JP]; 5-1-523-302, Koyo cho-Naka, Kobe 658 (JP). THOEN, Christian, Arthur, Jacques, Kamiel [BE/BE]; Boekweithofstraat 4, B-9120 Haasdonk (BE). (74) Agents: REED, T., David et al.; The Procter & Gamble Company, 5299 Spring Grove Avenue, Cincinnati, OH 45217 (US). (81) Designated States: BR, CA, CN, JP, MX, TR, US, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i> (88) Date of publication of the international search report: 24 December 1997 (24.12.97)</p>
<p>(54) Title: DETERGENT COMPOSITION (57) Abstract A detergent composition comprising a bis-alkoxylated quaternary ammonium (bis-AQA) cationic surfactant, a non-AQA surfactant and a photobleach.</p>		

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 97/08445

A. CLASSIFICATION OF SUBJECT MATTER

IPC 6 C11D3/42 C11D1/62 C11D1/65

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 6 C11D D06L

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.
X	EP 0 003 861 A (THE PROCTER & GAMBLE CO.) 5 September 1979 see claims 1-6,8 see page 3, line 1 - page 7, line 7 see page 10, line 3 - page 15, line 8 ---	1-3,5,6, 8-10,13, 14
X	EP 0 026 013 A (THE PROCTER & GAMBLE CO.) 1 April 1981 see page 18, line 6 - line 22 see page 8, line 33 - page 9, line 18 see claims 1-12 ---	1-3,5,6, 8-10,13
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Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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Date of the actual completion of the international search

3 November 1997

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 97/08445

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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