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(21) International Application Number: PCT/US97/21160 (22) International Filing Date: 19 November 1997 (19.11.97) (30) Priority Data: 60/031,917 26 November 1996 (26.11.96) 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): CRIPE, Thomas, Anthony [US/US]; 599 Three Chimneys Lane, Loveland, OH 45140-7345 (US). CONNOR, Daniel, Stedman [US/US]; 9217 Sagemeadow Drive, Cincinnati, OH 45251 (US). VINSON, Phillip, Kyle [US/US]; 5803 Windermere Lane, Fairfield, OH 45014 (US). BURCKETT-ST. LAURENT, James, Charles, Theophile, Roger [GB/US]; 11477 Gideon Lane, Cincinnati, OH 45249 (US). WILLMAN, Kenneth, William [US/US]; 5603 Williamsburg Way, Fairfield, OH 45014 (US). (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, CZ, HU, JP, MX, NO, 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: 23 July 1998 (23.07.98)	
(54) Title: POLYOXYALKYLENE SURFACTANTS		
(57) Abstract <p>Mid-chain branched primary alkyl polyoxyalkylene surfactants useful in laundry and cleaning compositions, especially granular and liquid detergent compositions. These surfactants are also suitable for formulation with other surfactants for the purpose of providing improved surfactant systems, especially for use in detergent compositions which will be used in laundry processes involving low water temperature wash conditions. The present invention also relates to novel mid-chain branched primary alkyl polyoxyalkylene surfactants suitable for use in the surfactant mixtures.</p>		

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 97/21160

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 6 C11D1/72 C11D1/722 C11D3/37

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 B01F

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	FR 2 424 316 A (HENKEL KGAA) 23 November 1979 see claims 1-9 ---	1-9
X	FR 2 267 369 A (PROCTER & GAMBLE) 7 November 1975 see claims 1-14 ---	1-9
P, X	WO 97 39089 A (CONNOR DANIEL STEDMAN ; VINSON PHILLIP KYLE (US); CRIPE THOMAS ANTH) 23 October 1997 see claims 1,2,6 ---	1-9
X	WO 94 11488 A (UNILEVER PLC ; UNILEVER NV (NL)) 26 May 1994 see page 4, line 20 - page 9, line 26 --- -/--	1-8

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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