

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
23 August 2001 (23.08.2001)

PCT

(10) International Publication Number  
**WO 01/61100 A3**

(51) International Patent Classification<sup>7</sup>: **D06M 23/06**,  
15/03, 13/00, 15/263, 15/643

(21) International Application Number: PCT/US01/04691

(22) International Filing Date: 13 February 2001 (13.02.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/182,381 14 February 2000 (14.02.2000) US  
09/634,379 9 August 2000 (09.08.2000) US

(71) Applicant: **THE PROCTER & GAMBLE COMPANY**  
[US/US]; One Procter & Gamble Plaza, Cincinnati, OH  
45202 (US).

(72) Inventors: **FRANKENBACH, Gayle, Marie**; 10010  
Voyager Lane, Cincinnati, OH 45252 (US). **TRINH,  
Toan**; 8671 Creekwood Lane, Maineville, OH 45039  
(US). **BARNABAS, Mary, Vjayanani**; 5777 Sawgrass  
Drive, West Chester, OH 45069 (US). **CORONA, Alessan-  
dro, III**; 3808 Spring Mill Way, Maineville, OH 45039  
(US). **SHAW, John, Henry, Jr.**; 1544 Galbraith Road,  
Cincinnati, OH 45231 (US). **SMITH, John, William**;  
1308 State Route 131, Milford, OH 45150 (US). **BROWN,  
Donald, Ray**; 7045 Maple Creek Drive, Middletown,  
OH 45044 (US). **NIJAKOWSKI, Timothy, Roy**; 8362  
Butler-Warren, Mason, OH 45040 (US). **HUBESCH,  
Bruno, Albert, Jean**; Langestraat 55, B-3040 Neerijse  
(BE). **DETZEL, Gabrielle, Holly**; 2484 Tiverton Lane,  
Cincinnati, OH 45231 (US). **ALWART, Todd, Stephen**;  
3745 Aylesboro Avenue, Cincinnati, OH 45208 (US).  
**CANDIDO, Anne, Marie**; 9669 Swan Place, Mason,  
OH 45040 (US). **BUSH, Stephen, Gary**; 11768 Percivale

Court, Sharonville, OH 45241 (US). **COLLIAS, Dimitris,  
Ioannis**; 4683 Cedar Village Drive, Mason, OH 45040  
(US). **GREGG, Ellis, B.**; 11287 Templeton Drive, Cincin-  
nati, OH 45251 (US). **BRAY, Earl, Jr.**; 5722 Kiefer Court,  
Cincinnati, OH 45224 (US).

(74) Agents: **REED, T., David** et al.; The Procter & Gam-  
ble Company, 5299 Spring Grove Avenue, Cincinnati, OH  
45217-1087 (US).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AT  
(utility model), AU, AZ, BA, BB, BG, BR, BY, BZ, CA,  
CH, CN, CR, CU, CZ, CZ (utility model), DE, DE (utility  
model), DK, DK (utility model), DM, DZ, 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,  
MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK  
(utility model), SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN,  
YU, ZA, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM,  
KE, LS, MW, MZ, 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, TR), OAPI patent (BF, BJ, CF,  
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

**Published:**

— with international search report

(88) Date of publication of the international search report:  
7 March 2002

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: POLYMER COMPOSITIONS HAVING SPECIFIED pH FOR IMPROVED DISPENSING AND IMPROVED STA-  
BILITY OF WRINKLE REDUCING COMPOSITIONS AND METHODS OF USE

(57) Abstract: Polymer compositions, while providing suitable wrinkle control, also tend to dispense poorly when sprayed. The present invention shows that when viscosity of polymer compositions is minimized spray dispensing improves. Several approaches to minimizing the viscosity of polymer compositions are disclosed. Methods of controlling wrinkles in fabrics comprise treating fabrics with a variety of polymer compositions following a variety of methods. Articles of manufacture comprise (1) a container or substrate, (2) a wrinkle controlling composition, and (3) a set of instructions.



**WO 01/61100 A3**

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 01/04691

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC 7 D06M23/06 D06M15/03 D06M13/00 D06M15/263 D06M15/643

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 D06M

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)

EPO-Internal

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 98 56890 A (PROCTER & GAMBLE) 17 December 1998 (1998-12-17) page 36, line 33 -page 46, line 25 page 53, line 11 -page 59, line 20 page 15, line 20 -page 16, line 27 -----	1-23, 28-37
X	WO 99 55949 A (PROCTER & GAMBLE) 4 November 1999 (1999-11-04) the whole document page 48, line 25 - line 31 -----	1-23, 28-37

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

27 September 2001

Date of mailing of the international search report

05/10/2001

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

Bernardo Noriega, F

# INTERNATIONAL SEARCH REPORT

information on patent family members

International Application No

PCT/US 01/04691

Patent document cited in search report	Publication date	Patent family member(s)	Publication date	
WO 9856890	A	17-12-1998	US 5955093 A	21-09-1999
			US 6001343 A	14-12-1999
			US 5968404 A	19-10-1999
			US 5942217 A	24-08-1999
			US 6033679 A	07-03-2000
			AU 7961098 A	30-12-1998
			BR 9810426 A	05-09-2000
			CN 1269819 T	11-10-2000
			EP 0988064 A1	29-03-2000
			EP 0988364 A1	29-03-2000
			EP 0988365 A1	29-03-2000
			EP 1124923 A1	22-08-2001
			HU 0100360 A2	30-07-2001
			TR 200000439 T2	21-11-2000
			WO 9856888 A1	17-12-1998
			WO 9856429 A1	17-12-1998
			WO 9856889 A1	17-12-1998
			WO 9856890 A1	17-12-1998
			US 6284231 B1	04-09-2001
			US 5997759 A	07-12-1999
			US 6106738 A	22-08-2000
			AU 4356997 A	30-12-1998
			WO 9856337 A1	17-12-1998
			AU 1804699 A	16-11-1999
			BR 9815835 A	26-12-2000
			TR 200003126 T2	22-01-2001
			WO 9955814 A1	04-11-1999
			AU 1711099 A	16-11-1999
			AU 1711199 A	16-11-1999
			BR 9815836 A	26-12-2000
			BR 9815837 A	26-12-2000
			WO 9955813 A1	04-11-1999
			WO 9955815 A1	04-11-1999
-----				
WO 9955949	A	04-11-1999	WO 9955949 A1	04-11-1999
			AU 7361198 A	16-11-1999
			EP 1078122 A1	28-02-2001
-----				