

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
23 May 2002 (23.05.2002)

PCT

(10) International Publication Number
WO 02/40622 A2

(51) International Patent Classification⁷: **C11D**
(21) International Application Number: PCT/EP01/12734
(22) International Filing Date:
2 November 2001 (02.11.2001)
(25) Filing Language: English
(26) Publication Language: English
(30) Priority Data:
0027978.6 16 November 2000 (16.11.2000) GB
(71) Applicant (for all designated States except US): **CIBA
SPECIALTY CHEMICALS HOLDING INC** [CH/CH];
Klybeckstrasse 141, CH-4057 Basel (CH).

(72) Inventors; and
(75) Inventors/Applicants (for US only): **COCKCROFT,
Robert** [GB/GB]; 1 Westminster Crescent, Clayton,
Bradford, West Yorkshire, BD14 6SH (GB). **RIDLEY,
Eleanor, Bernice** [GB/GB]; 32 Pitchstone Court, Farnely
Leeds, West Yorkshire LS12 5SZ (GB). **REYNOLDS,
Valerie** [GB/GB]; 2 Wyke Lane, Oakenshaw, Bradford,
West Yorkshire BD12 7ED (GB).

(81) Designated States (national): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, 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, OM, PH, PL, PT, RO, RU, SD, SE, SG,
SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, 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, GQ, GW, ML, MR, NE, SN, TD,
TG).

Published:

— without international search report and to be republished
upon receipt of that report

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: USE OF HIGH SOLIDS SOLUTION OF A CATIONIC COPOLYMER IN PERSONAL CARE FORMULATIONS
AND PERSONAL CARE FORMULATIONS OBTAINED THEREFROM

(57) Abstract: Use of an aqueous solution of a cationic copolymer in a detergent composition, characterized in that the cationic
copolymer is formed from a cationic monomer and a nonionic monomer wherein said cationic copolymer has an average molecular
weight in the range 30,000 to 300,000 and the aqueous solution has a concentration of 20 to 50 % weight and a viscosity of less than
10,000 cP at 25 °C. The invention also claims cosmetic compositions obtained from the aqueous solution of a cationic copolymer.

WO 02/40622 A2

