

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
26 April 2001 (26.04.2001)

PCT

(10) International Publication Number
WO 01/28337 A2

(51) International Patent Classification⁷: **A01N 59/06**,
59/20, 25/34, A61K 33/06, 33/34, 9/70, D21H 27/30,
B32B 33/00

Frederick; 2797 Ridgewood Avenue, Cincinnati, OH
45213 (US).

(21) International Application Number: **PCT/US00/28923**

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

(22) International Filing Date: 19 October 2000 (19.10.2000)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

09/421,131	19 October 1999 (19.10.1999)	US
09/420,646	19 October 1999 (19.10.1999)	US
09/421,084	19 October 1999 (19.10.1999)	US
09/421,179	19 October 1999 (19.10.1999)	US
09/458,750	10 December 1999 (10.12.1999)	US
09/643,903	21 August 2000 (21.08.2000)	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, KR (utility model), 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.

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

(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), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

(72) Inventors: **KELLY, Stephen, Robert**; 925 Keith Lane, Owenton, KY 40359 (US). **GBADAMOSI, Kamilah, Apewaiye**; 1349 Lincoln Avenue, Apt. 1, Cincinnati, OH 45206 (US). **SEGER, Geoffrey, Eugene**; 8 Forest Drive, Tunkhannock, PA 18657 (US). **BIEDERMANN, Kimberly, Ann**; 20 Trailbridge, Cincinnati, OH 45241 (US). **MORGAN, Jeffrey, Michael**; 8575 Highmount Drive, Springboro, OH 45066 (US). **SWAILE, David**,

Published:

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

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

(54) Title: **ANTIVIRAL COMPOSITIONS FOR TISSUE PAPER**

(57) Abstract: This application relates to antiviral tissue paper comprising a water soluble metal ion as an antiviral agent. The water soluble metal ion has at least one hydroxide ion formation constant wherein the hydroxide ion formation constant is at least 10^{12} . When added to tissue the water soluble metal ion has the ability to kill certain strains of viruses which come into contact with the tissue.

WO 01/28337 A2