

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
6 September 2002 (06.09.2002)

PCT

(10) International Publication Number
WO 02/068752 A3(51) International Patent Classification⁷: **D06M 15/65**,
15/643, C08J 3/03, C08L 83/04

(21) International Application Number: PCT/US02/04870

(22) International Filing Date: 20 February 2002 (20.02.2002)

(25) Filing Language: English

(26) Publication Language: English

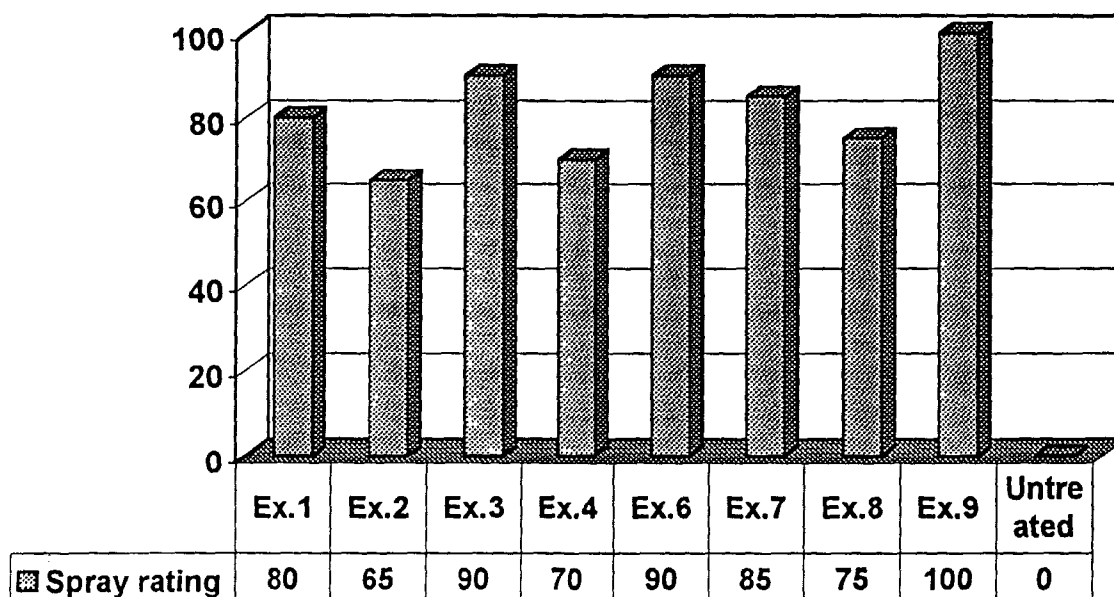
(30) Priority Data:
60/270,655 22 February 2001 (22.02.2001) USCZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI,
SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA,
ZW.(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, 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).(71) Applicant: **CROMPTON CORPORATION** [US/US];
199 Benson Road, Middlebury, CT 06749 (US).**Published:**

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(72) Inventor: **YU, Hua**; 12-17 Granada Crescent, White
Plains, NY 10603 (US).(74) Agent: **DILWORTH, Michael**; Crompton Corporation,
199 Benson Road, Middlebury, CT 06749 (US).(88) Date of publication of the international search report:
9 January 2003(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,

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: WATER REPELLENT TEXTILE FINISHES AND METHOD OF MAKING



(57) **Abstract:** The present invention is directed to a composition comprising (1) a compound having an epoxy functionality, a compound having an alkoxy functionality, and a crosslinker, and (2) a catalyst, preferably as an aqueous emulsion. Upon treating fibers or fabrics with the composition of the present invention, a condensation reaction product is formed upon reaction with the catalyst at curing temperatures that imparts superior durability, water repellency, and softness to the fibers or fabrics.



WO 02/068752 A3