

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
2 October 2003 (02.10.2003)

PCT

(10) International Publication Number
WO 03/080356 A1

(51) International Patent Classification⁷: **B41M 5/00**,
C08J 7/04

(74) Agents: **KIRK, Martin** et al.; UCB, S.A., Intellectual
Property Department, Allée de la Recherche, 60, B-1070
Bruxelles (BE).

(21) International Application Number: PCT/EP03/02868

(22) International Filing Date: 19 March 2003 (19.03.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0207089.4 26 March 2002 (26.03.2002) GB

(71) Applicant (for all designated States except US): **UCB**,
S.A. [BE/BE]; Allée de la Recherche, 60, B-1070 Brux-
elles (BE).

(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, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD,
SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US,
UZ, VC, VN, YU, ZA, ZM, 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, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(72) Inventors; and

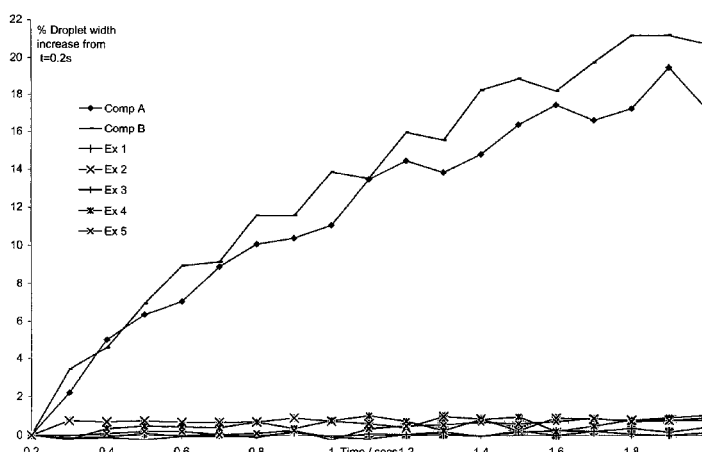
(75) Inventors/Applicants (for US only): **DUTTON, Neill**
[GB/GB]; UCB Films, Station Road, Wigton, Cumbria
CA7 9BG (GB). **SOUTHWARD, Richard** [GB/GB];
UCB Films, Station Road, Wigton, Cumbria CA7 9BG
(GB).

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

[Continued on next page]

(54) Title: PRINTABLE FILM



(57) Abstract: There is described a polymer film preferably selected from polyolefin, polyester, polyamide, acrylic, polystyrene, or polyurethane, where the film is coated with an ink-jet printable ink receiving layer which when ink-jet printed has an average percent increase in droplet size on the ink receiving layer of less than about 5% between about 0.2 and about 2.0 sec after printing. Also described are printable films optionally with the preceding property which have an ink-jet printable top coat layer comprising A), B) or C) where: A) is at least one halogenated terpolymer obtained and/or obtainable from the following polymer precursors: (a) halogenated vinyl, optionally vinyl chloride; (b) vinyl ester, optionally vinyl acetate; (c) olefin, optionally ethylene; B) is at least one copolymer obtained and/or obtainable from two of the following polymer precursors (i) halogenated vinyl, optionally vinyl chloride; (ii) vinyl ester, optionally vinyl acetate; (iii) olefin, optionally ethylene; and C) is at least one a vinylidene halide copolymer obtained and/or obtained from (x) a PVdX polymer precursor; and (y) a functionalised acrylic polymer precursor which comprises an olefinic monomer substituted by one or more non-halogenated electronegative groups.



WO 03/080356 A1



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.