

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
30 May 2003 (30.05.2003)

PCT

(10) International Publication Number
WO 03/044278 A3

(51) International Patent Classification⁷: **D21H 27/02**,
21/28

(21) International Application Number: PCT/GB02/05180

(22) International Filing Date:
15 November 2002 (15.11.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0127576.7 17 November 2001 (17.11.2001) GB

(71) Applicant (*for all designated States except US*): **ARJO WIGGINS FINE PAPERS LIMITED** [GB/GB]; Fine Papers House, P.O. Box 88, Lime Tree Way, Chineham, Basingstoke, Hampshire RG24 8BA (GB).

(72) Inventor; and

(75) Inventor/Applicant (*for US only*): **BOND, Donald, Jeffrey** [GB/GB]; 23 New Park Road, Lee Mill, Ivybridge, Devon PL21 9EB (GB).

(74) Agent: **CARRÉ, Claudine**; Arjo Wiggins, Legal & Intellectual Property Dept, 117 Quai du Président Roosevelt, F-92442 Issy-les-Moulineaux Cédex (FR).

(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, SC, SD, SE, SG, SI, 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, IE, IT, LU, MC, NL, PT, SE, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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*

(88) Date of publication of the international search report:
16 October 2003

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: WATERMARKED PAPER

(57) **Abstract:** Watermarked paper, preferably shadow-watermarked paper is produced in conventional manner and then size-press dyed using a pigment dyestuff composition. This results in unusual and attractive decorative effects as a result of preferential dye take-up in parts of the watermarked areas, resulting in enhanced contrast between watermarked and non-watermarked areas of the paper. The invention finds particular application in wallpaper base, but can also be used in decorative or security papers. The pigment dyestuff can be fluorescent for security paper use.



WO 03/044278 A3