

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
22 March 2001 (22.03.2001)

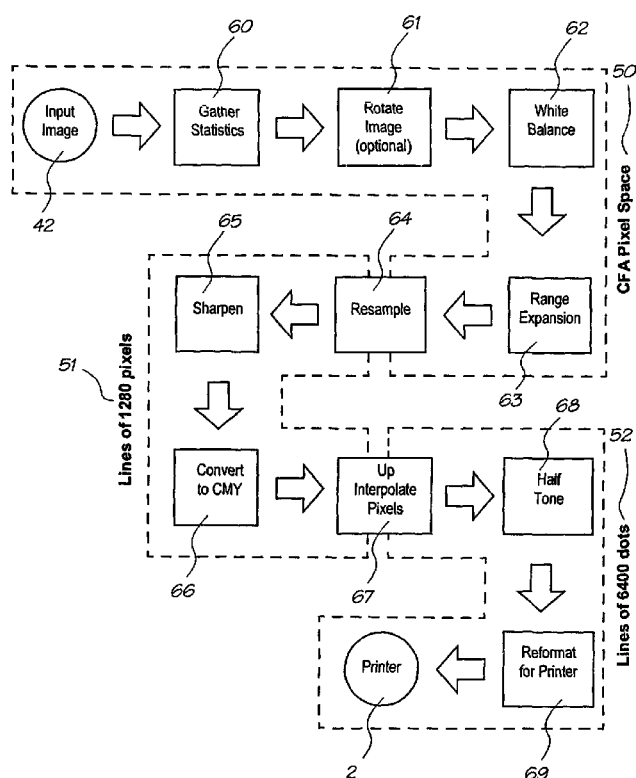
PCT

(10) International Publication Number
WO 01/20549 A1

- (51) International Patent Classification⁷: **G06T 5/00** (74) Agent: **SILVERBROOK, Kia**; c/o Silverbrook Research Pty Ltd, 393 Darling Street, Balmain, NSW 2041 (AU).
- (21) International Application Number: **PCT/AU00/01075**
- (22) International Filing Date:
8 September 2000 (08.09.2000)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
PQ 2890 16 September 1999 (16.09.1999) AU
- (71) Applicants (for all designated States except US): **SILVERBROOK RESEARCH PTY LTD** [AU/AU]; 393 Darling Street, Balmain, NSW 2041 (AU). **WALMSLEY, Simon, Robert** [AU/AU]; Unit 3, 9 Pembroke Street, Epping, NSW 2121 (AU).
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, 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, 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), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): **LAPSTUN, Paul** [NO/AU]; 13 Duke Avenue, Rodd Point, NSW 2046 (AU).
- Published:
— With international search report.

[Continued on next page]

(54) Title: METHOD AND APPARATUS FOR PRODUCING PRINT FROM A BAYER IMAGE



(57) Abstract: A method of providing an image for printing at a predetermined bi-level dot resolution which corresponds to a predetermined continuous tone resolution, the method including the steps of: receiving a first data set indicative of the image, the data set being in a Bayer format of a first resolution; converting the first data set into a second data set of the predetermined continuous tone resolution; converting the second data set into a third data set of the predetermined bi-level dot resolution; and making the third data set available to a printer at the predetermined bi-level dot resolution. An apparatus for providing an image for printing at a predetermined bi-level dot resolution which corresponds to a predetermined continuous tone resolution, the apparatus including: input means for receiving a first data set indicative of the image, the data set being in a Bayer format of a first resolution; sampling means for converting the first data set into a second data set of the predetermined continuous tone resolution; processing means for converting the second data set into a third data set of the predetermined bi-level dot resolution; and making the third data set available to a printer for printing at the predetermined bi-level dot resolution. A camera including: a CCD array for providing a Bayer image; a printer for selectively providing a printed image; and an apparatus according to claim 17 for receiving the Bayer image and providing the printer with the third data set such that the printed image is produced.



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.