

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
2 June 2005 (02.06.2005)

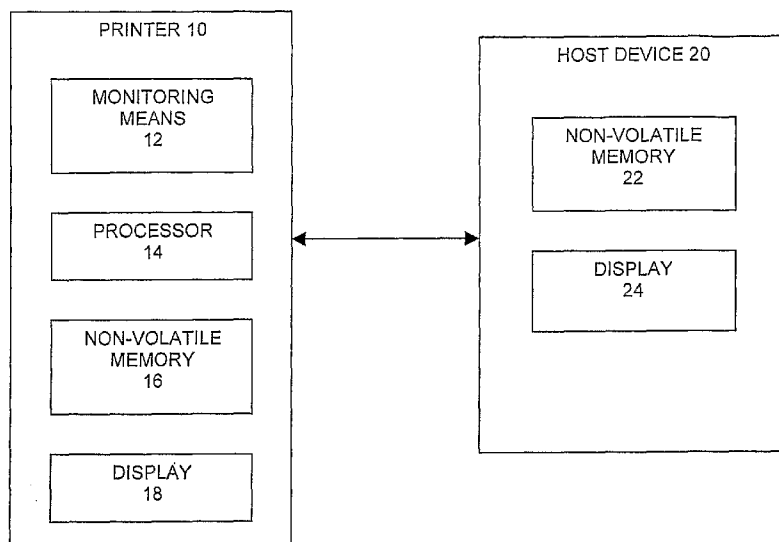
PCT

(10) International Publication Number
WO 2005/050360 A2

- (51) International Patent Classification⁷: **G06F** **BROOKS, Donald, E.** [US/US]; 110 Concord Place, Ithaca, NY 14850 (US).
- (21) International Application Number: PCT/US2004/037414 (74) Agent: **LIPSITZ, Barry, R.**; Law offices of Barry R. Lipsitz, 755 Main Street, Building No. 8, Monroe, CT 06468 (US).
- (22) International Filing Date: 9 November 2004 (09.11.2004) (81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, 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, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/519,521 12 November 2003 (12.11.2003) US
10/826,832 16 April 2004 (16.04.2004) US
- (71) Applicant (*for all designated States except US*): **TRANS-ACT TECHNOLOGIES INCORPORATED** [US/US]; 7 Laser Lane, Wallingford, CT 06492 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): **PAYNE, Stephen, R.** [US/US]; 982 Bennie Road, Cortland, NY 13045 (US).
- (84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE,

[Continued on next page]

(54) Title: METHODS AND APPARATUS FOR DETERMINING PRINT PROGRESS



(57) Abstract: Methods and apparatus for determining print progress of a document being printed are provided. The print progress of a document is monitored during printing by monitoring means included in the printer. The percentage of the printing which has been completed is then computed in real time based on information received from the monitoring means. The computed percentage may be used to determine the print completion status of each print field of a document having a plurality of print fields. The computed percentage may be reported to a host device associated with the printer. The computed percentage may be stored in non-volatile memory of the printer and/or of the host device so that the computed percentage of completed printing is maintained during a power failure. The computed percentage of printing completed can be recovered from non-volatile memory upon power recovery.

WO 2005/050360 A2



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

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.

Published:

- *without international search report and to be republished upon receipt of that report*