



PCT

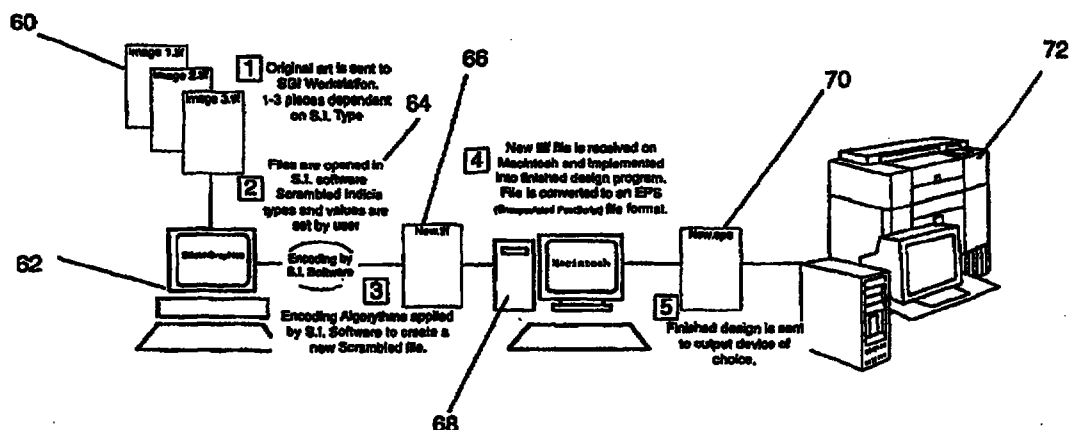
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## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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| <b>(21) International Application Number:</b> <b>PCT/US96/19310</b><br><b>(22) International Filing Date:</b> 26 November 1996 (26.11.96)<br><b>(30) Priority Data:</b> 08/564,664 29 November 1995 (29.11.95) US<br><b>(71) Applicant (for all designated States except US):</b> GRAPHIC SECURITY SYSTEMS CORPORATION [US/US]; Suite 305, 6415 Lake Worth Road, Lake Worth, FL 33463 (US).<br><b>(71)(72) Applicant and Inventor:</b> ALASIA, Alfred [US/US]; 9720 Pine Mill Court, Lake Worth, FL 33467 (US).<br><b>(74) Agent:</b> SLAVIN, Michael, A.; McHale & Slavin, P.A., Suite 402, 4440 PGA Boulevard, Palm Beach Gardens, FL 33410 (US). | <b>(81) Designated States:</b> AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).<br><br><b>Published</b><br><i>With international search report.<br/>         Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i> |                                                                                                                                        |

**(54) Title:** DIGITAL ANTI-COUNTERFEITING SOFTWARE METHOD AND APPARATUS

## Scrambled Indicia Work Flow Chart

**(57) Abstract**

This invention relates generally to a method and apparatus, as implemented by a software program on a computer system, for digitally producing counterfeit-detering scrambled or coded indicia images, typically in a printed form. This method and system are capable of combining a source image with a latent image so the scrambled latent image is visible only when viewed through a special decoder lens. The digital processing allows different latent images to be encoded according to different parameters. Additionally, latent images might be encoded into single component colors of an original visible image, at various angles from each other.