

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
8 March 2007 (08.03.2007)

PCT

(10) International Publication Number
WO 2007/026360 A2

(51) International Patent Classification:
G21K 5/10 (2006.01)

(21) International Application Number:
PCT/IL2006/001006

(22) International Filing Date: 30 August 2006 (30.08.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
170609 1 September 2005 (01.09.2005) IL

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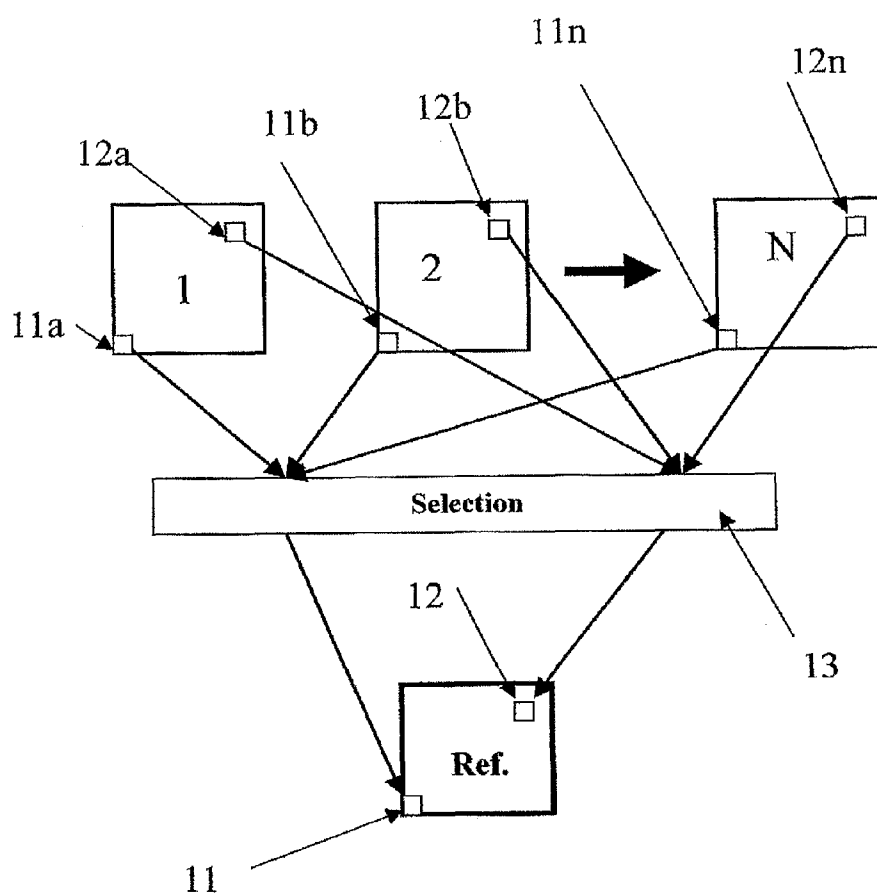
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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(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, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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(54) Title: A METHOD AND A SYSTEM FOR CREATING A REFERENCE IMAGE USING UNKNOWN QUALITY PATTERNS



(57) Abstract: A method and a system for preparing a pattern's reference-model to be used for automatic inspection of surface are disclosed. The system according to the present invention is comprised of an imaging device that captured images of plurality of the patters; a dedicated software that uses dedicated algorithms to correct and align the captured images; and a controller operative for collecting the same located and same coincident pixel of each of the images; choosing, according to predetermined criteria, one of the collected pixels; creating a new image with same dimensions as the captured images and locating the chosen pixel in the same place corresponding to the place of the collected pixels in the origin images; repeating the process as defined above for each pixel of the captured images; and providing the new created image as a reference model for inspecting the pattern.

WO 2007/026360 A2



Published:

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

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