



- (51) International Patent Classification:
G06K 7/10 (2006.01)
- (21) International Application Number:
PCT/US2012/020185
- (22) International Filing Date:
4 January 2012 (04.01.2012)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
13/005,989 13 January 2011 (13.01.2011) US
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- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, 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, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— with international search report (Art. 21(3))

[Continued on next page]

(54) Title: METHODS AND APPARATUS FOR DETECTING MULTIPLE OBJECTS

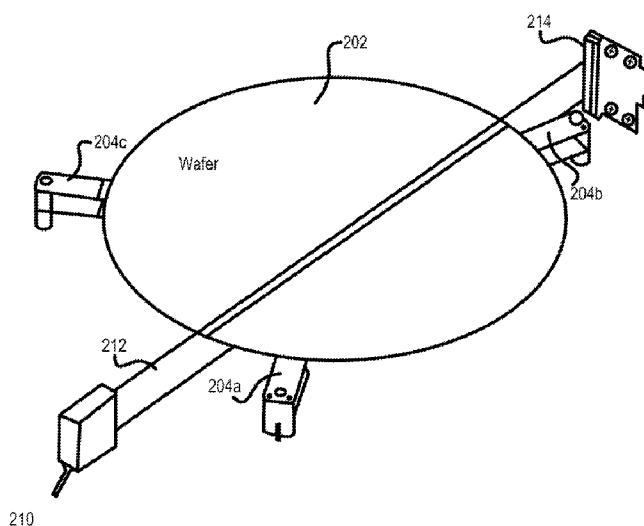


FIGURE 2

(57) Abstract: A method for determining physical placement data for a plurality of wafers is disclosed. The method includes obtaining raw CCD array data from a linear CCD array by clocking data from pixels of the linear CCD array into memory cells of the memory device and ascertaining pixel transition data to determine whether at least one of an upper edge error, a lower edge error, a wafer thickness error, and transition-per-slot error exists. If an error is found, the method includes generating an error signal.



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- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*