

(43) International Publication Date
14 July 2011 (14.07.2011)(10) International Publication Number
WO 2011/085010 A2(51) International Patent Classification:
G11B 5/84 (2006.01)(21) International Application Number:
PCT/US2011/020234(22) International Filing Date:
5 January 2011 (05.01.2011)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/292,412 5 January 2010 (05.01.2010) US
12/984,528 4 January 2011 (04.01.2011) US(71) Applicant (for all designated States except US): **APPLIED MATERIALS, INC.**; 3050 Bowers Avenue, Santa Clara, California 95054 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **VERHAVER-BEKE, Steven**; 139 Welsh Street, # 10, San Francisco, California 94107 (US). **MARIN, Jose Antonio**; 5319 Beaumont Canyon Drive, San Jose, California 95138 (US).(74) Agents: **PATTERSON, B. Todd** et al.; Patterson & Sheridan, L.L.P., 3040 Post Oak Blvd., Suite 1500, Houston, Texas 77056-6582 (US).

(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, RO, RS, RU, 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, 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:

— without international search report and to be republished upon receipt of that report (Rule 48.2(g))

(54) Title: SYSTEM FOR BATCH PROCESSING OF MAGNETIC MEDIA

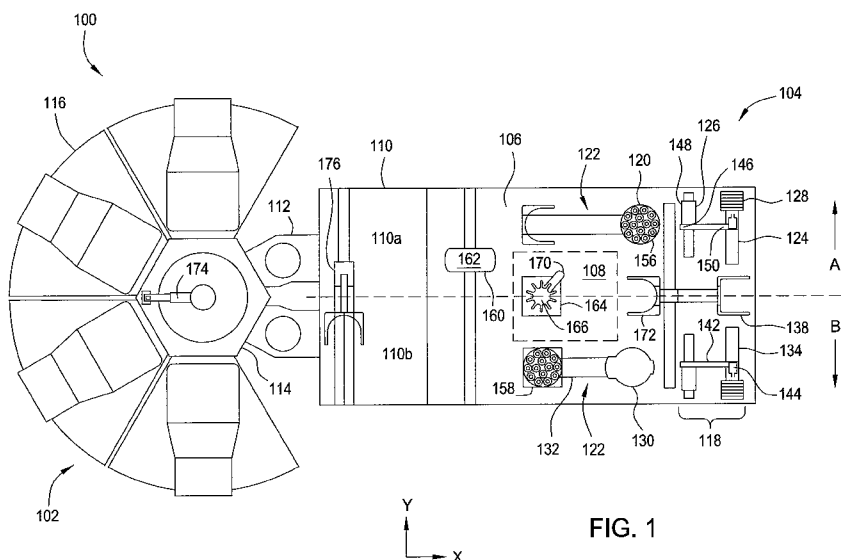


FIG. 1

(57) Abstract: A method and apparatus for processing multiple substrates simultaneously is provided. Each substrate may have two major active surfaces to be processed. The apparatus has a substrate handling module and a substrate processing module. The substrate handling module has a loader assembly, a flipper assembly, and a factory interface. Substrates are disposed on a substrate carrier at the loader assembly. The flipper assembly is used to flip all the substrates on a substrate carrier in the event two-sided processing is required. The factory interface positions substrate carriers holding substrates for entry into and exit from the substrate processing module. The substrate processing module comprises a load-lock, a transfer chamber, and a plurality of processing chambers, each configured to process multiple substrates disposed on a substrate carrier.