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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
3 April 2008 (03.04.2008)

PCT

(10) International Publication Number
WO 2008/039809 A1

(51) International Patent Classification:
H01L 21/3065 (2006.01)

(21) International Application Number:
PCT/US2007/079471

(22) International Filing Date:
25 September 2007 (25.09.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
11/537,517 29 September 2006 (29.09.2006) US

(71) Applicant *(for all designated States except US)*: **LAM RESEARCH CORPORATION** [US/US]; 4650 Cushing Parkway, Fremont, CA 94538 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **HUANG, Chung-ho** [US/US]; 4650 Cushing Parkway, Fremont, California 94538 (US). **JEA, Hae-pyng** [US/US]; 4650 Cushing Parkway, Fremont, California 94538 (US). **HSU, Tung** [US/US]; 4650 Cushing Parkway, Fremont, California 94538 (US). **SETO, Jackie** [US/US]; 4650 Cushing Parkway, Fremont, California 94538 (US).

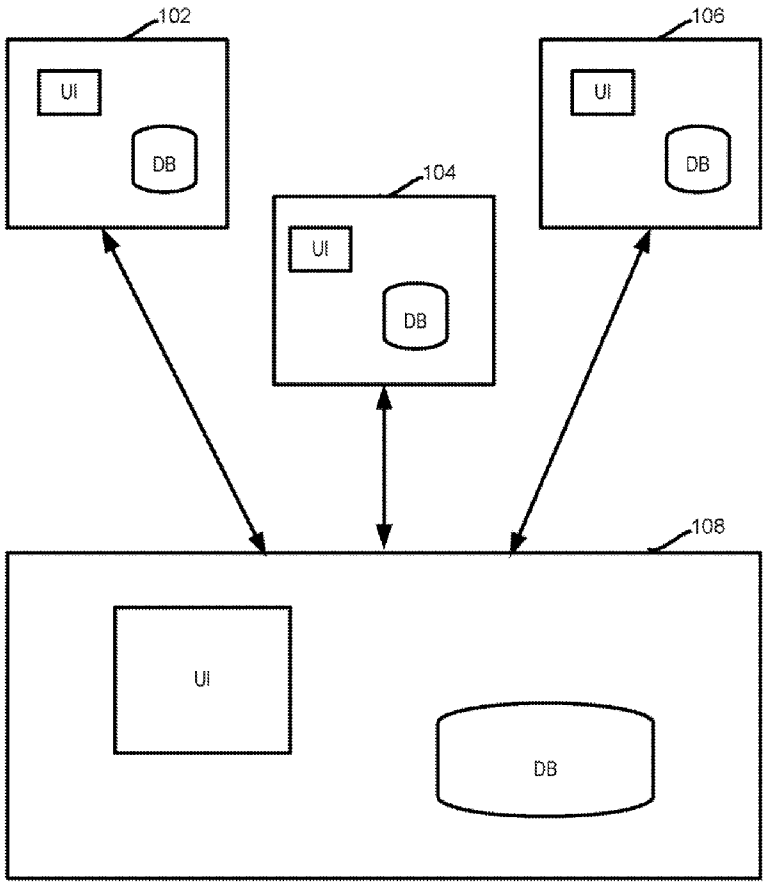
(74) Agent: **NGUYEN, Joseph A**; IPSG PC, PO Box 700640, San Jose, California 95170 (US).

(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, 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, 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),

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(54) Title: DYNAMIC COMPONENT-TRACKING SYSTEM AND METHODS THEREFOR



(57) Abstract: A computer-implemented method for facilitating plasma processing tool component management across plurality of tools is provided. The method includes receiving first component data for first plurality of components, including identification and usage history, at first database associated with first tool. The method also includes receiving second component data for second plurality of components at second database associated with second tool, which is different from first tool. The method further includes synchronizing first and second component data with third database. The synchronizing includes synchronizing between third database and at least one of first and second database rules that govern usage of at least one component of first and second plurality of components. The third database is coupled to exchange data with plurality of tools. The method yet also includes obtaining information, using rules and usage history data about given component prior to performing one of replacement, analysis, and maintenance.

WO 2008/039809 A1

European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, 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).

Published:
— *with international search report*