

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
26 June 2008 (26.06.2008)

PCT

(10) International Publication Number
WO 2008/076676 A1

(51) International Patent Classification:
G06F 15/16 (2006.01) **G06F 15/00** (2006.01)

(21) International Application Number:
PCT/US2007/086882

(22) International Filing Date:
7 December 2007 (07.12.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
11/610,687 14 December 2006 (14.12.2006) 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): **WEETMAN, Chad R.** [US/US]; 4650 Cushing Parkway, Fremont, California 94538 (US). **HUANG, Chung-ho** [US/US]; 4650 Cushing Parkway, Fremont, California 94538 (US).

(74) Agent: **NGUYEN, Joseph, A.**; P.O. Box 700640, San Jose, CA 95170 (US).

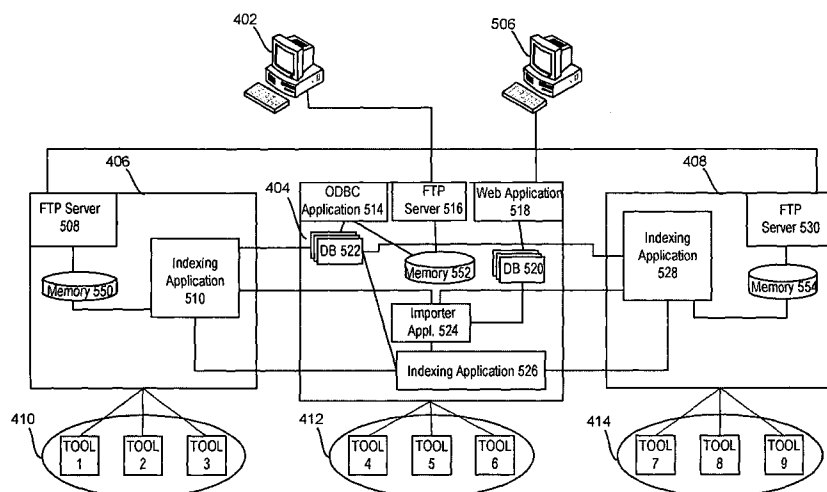
(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, 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), 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
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(54) Title: PRIMARY SERVER ARCHITECTURAL NETWORKING ARRANGEMENT AND METHODS THEREFOR



(57) Abstract: An arrangement for performing at least one of collecting and analyzing data from a tool cluster configured to process a set of substrates is provided. The arrangement includes a plurality of tools from which at least one tool of the plurality of tools has a chamber for processing at least one of the set of substrates. The arrangement also includes a plurality of secondary servers configured to collect sensor data from the plurality of tools. The arrangement further includes a primary server communicably coupled with the plurality of secondary servers and configured to execute a database management system. The sensor data is indexed using a plurality of indexing applications on the plurality of secondary servers prior to being forwarded to the primary server for use by the database management system. Indexing includes associating a sensor data item with an identity of a server where the sensor data item is stored.