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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
17 July 2014 (17.07.2014)

WIPO | PCT

(10) International Publication Number
WO 2014/110414 A3

(51) International Patent Classification:
G06Q 10/08 (2012.01)

(21) International Application Number:
PCT/US2014/011105

(22) International Filing Date:
10 January 2014 (10.01.2014)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/751,649 11 January 2013 (11.01.2013) US

(71) Applicant: **TAGNETICS, INC.** [US/US]; 635 Olympic Drive, Troy, OH 45373 (US).

(72) Inventor: **MEYER, Matthew**; 9751 Foote Road, Versailles, OH 45380 (US).

(74) Agent: **GETTY, Justus**; Duane Morris LLP, 505 9th Street, N.W., Suite 1000, Washington, DC 20004 (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, BN, 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, IR, IS, JP, KE, KG, 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, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, 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, 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, KM, ML, MR, NE, SN, TD, TG).

Published:

— *with international search report (Art. 21(3))*

— *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))*

(88) Date of publication of the international search report:
22 January 2015

(54) Title: OUT OF STOCK SENSOR

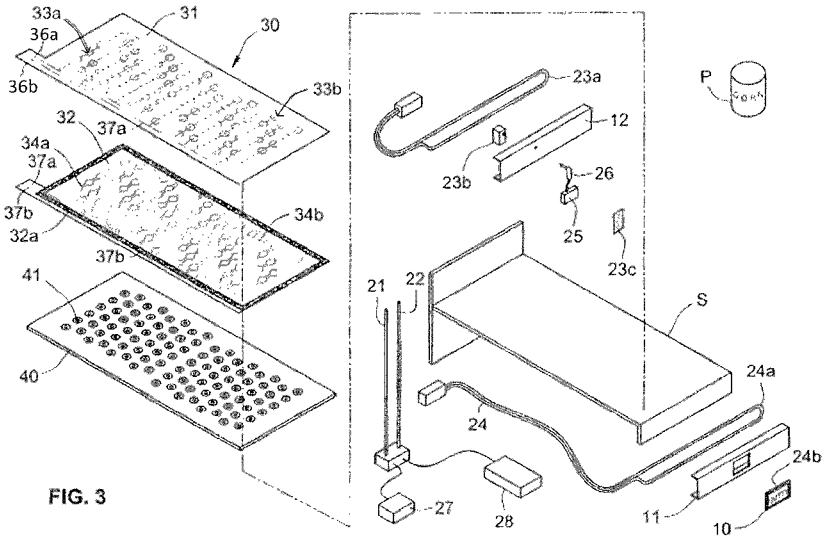


FIG. 3

(57) Abstract: A weight sensing system for retail shelves includes multiple shelves having an electrical communication and power distribution system, and weight sensors located on the top surfaces of the shelves and coupled to the electrical communication and power distribution system for detecting the placement of retail products on the shelves. A controller monitors real-time at-the-shelf inventory and issues alerts when a retail product becomes out-of-stock, is anticipated to become out-of-stock, or is misplaced on a shelf. Collection of real-time inventory data enables comprehensive inventory control at the shelf and in storage areas.

WO 2014/110414 A3