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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
12 May 2011 (12.05.2011)

PCT

(10) International Publication Number
WO 2011/056399 A1

(51) **International Patent Classification**:
G06Q 40/00 (2006.01)

(21) **International Application Number**:
PCT/US2010/053019

(22) **International Filing Date**:
18 October 2010 (18.10.2010)

(25) **Filing Language**: English

(26) **Publication Language**: English

(30) **Priority Data**:
12/605,968 26 October 2009 (26.10.2009) US

(71) **Applicant** *(for all designated States except US)*: **TRADING TECHNOLOGIES INTERNATIONAL, INC.** [US/US]; 222 South Reverside Plaza, Suite 1100, Chicago, IL 60606 (US).

(72) **Inventors; and**

(75) **Inventors/Applicants** *(for US only)*: **BRIANTI, Stephan** [IT/US]; 2909 N. Sheridan Road, Chicago, IL 60657 (US). **MINTZ, Sagy, P.** [US/US]; 3 Middlebury Lane, Lincolnshire, IL 60069 (US).

(74) **Agent**: **LUNNEY, Jessica, L.**; Mcdonnell Boehnen Hulbert & Berghoff LLP, 300 South Wacker Drive, Suite 3100, Chicago, IL 60606 (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).

[Continued on next page]

(54) **Title**: LEAN LEVEL SUPPORT FOR TRADING STRATEGIES

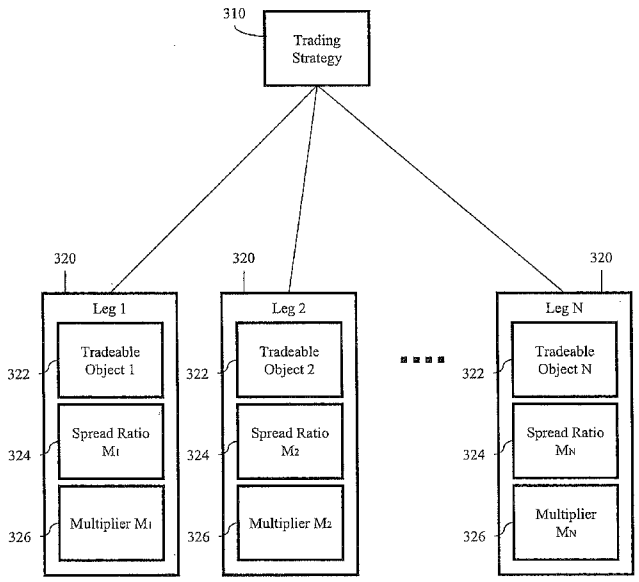


Figure 3

(57) **Abstract**: Certain embodiments of the present invention provide techniques for lean level support for a trading strategy. According to certain embodiments, the support for a price level under consideration as a lean level is determined based at least in part on quantity available at the price level. According to certain embodiments, the support for a price level under consideration as a lean level is determined based at least in part on quantity available at one or more other price levels. According to certain embodiments, the support for a price level under consideration as a lean level is determined based at least in part on the number of orders at one or more price levels. A lean level may then be determined based on the determined support. According to certain embodiments, a lean multiplier and/or a lean base are determined dynamically based on the determined support.

WO 2011/056399 A1

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))*