

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
15 July 2004 (15.07.2004)

PCT

(10) International Publication Number
WO 2004/059258 A2

(51) International Patent Classification⁷: **G01F**
(21) International Application Number:
PCT/US2003/041365
(22) International Filing Date:
23 December 2003 (23.12.2003)
(25) Filing Language: English
(26) Publication Language: English
(30) Priority Data:
60/436,078 23 December 2002 (23.12.2002) US
60/440,801 16 January 2003 (16.01.2003) US
60/453,816 11 March 2003 (11.03.2003) US
60/498,639 29 August 2003 (29.08.2003) US
60/520,812 17 November 2003 (17.11.2003) US

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (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*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(71) Applicant and
(72) Inventor: **WARGON, Kenneth** [US/AU]; 85 Raglan Street, Manly, NSW 2095 (AU).
(74) Agent: **BENEFIEL, John, R.**; 280 Daines Street, Suite 100 B, Birmingham, MI 48009 (US).

(54) Title: APPARATUS AND METHOD FOR DISPLAYING NUMERIC VALUES CORRESPONDING TO THE VOLUME OF SEGMENTS OF AN IRREGULARLY SHAPED ITEM

(57) Abstract: An apparatus and method for displaying the weight or cost of segments of an irregularly shaped item involves passing a sensor bar supported above a supporting surface over the item lying on the surface. A compact hand-held embodiment of the sensor bar enables the operator to move the sensor bar in various linear or non-linear motions over the item surface as the sensor bar moves laterally across the item surface while the sensor bar support posts remain in constant contact with the supporting surface. The sensor bar contains one or more sensors which generate signals corresponding to the height of the item as the sensor bar traverses the item. At the same time, a displacement detector arrangement generates signals corresponding to displacement of the sensor bar relative to the support surface. These signals are processed in a signal processor to determine the volume of an uncut segment of the item lying behind the sensor bar at successive positions. Each of these cumulative volume determinations may be continuously converted into numeric weight values based on the density factor for the particular type of item, whereby numeric weight and cost values (based on weight) are continuously displayed as the sensor bar is stroked over the item, thus enabling the operator to accommodate an on-looking consumer's specific requests as per the particular portion desired based on the physical appearance, weight, and cost of an item before the item is cut.



WO 2004/059258 A2