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[Continued on next page]

(54) Title: OBJECT DIMENSIONING SYSTEM AND RELATED METHODS

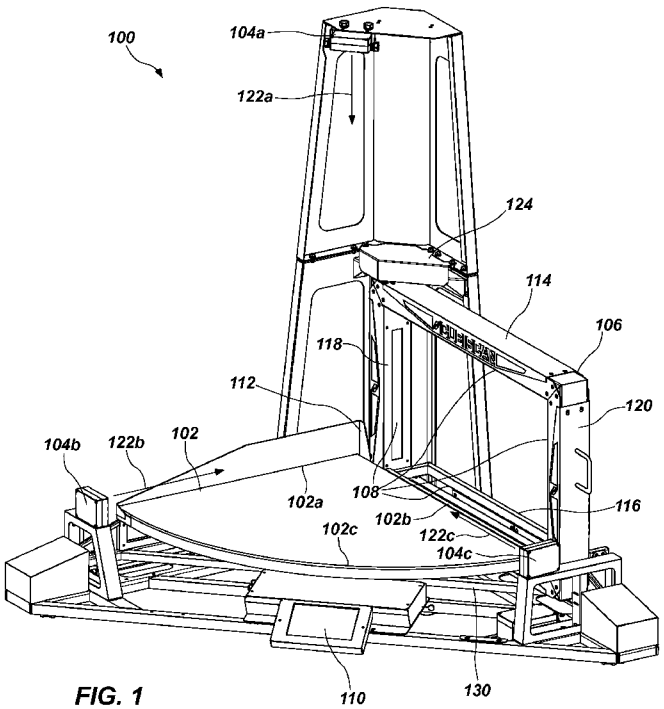


FIG. 1

(57) Abstract: A method and apparatus for dimensioning and, optionally, weighing an object. A platform with a surface is used for supporting an object. A user selects between two different dimensioning devices of the apparatus. The first device employs three distance sensors to determine a distance between each of the distance sensors and a side of an object. The second device includes a movable gate which is passed over and about an object or objects on the platform. Sensor arrays, such as paired, aligned light emitter and receiver arrays, are used in combination with a plurality of sensed gate positions to determine the dimensions of the object(s)as the gate passes around the object(s) based on whether or not light from an emitter on one side of the gate reaches a light receiver on another, opposing side of the gate.

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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).

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A. CLASSIFICATION OF SUBJECT MATTER

G01B 11/24(2006.01)i, G01V 8/10(2006.01)i

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

G01B 11/24; G01G 19/52; G01B 11/02; G01S 15/00; G01B 15/00; G01B 11/06; G01B 11/04

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models
Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: dimension, light, moving and frame.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 2005-069910 A (SHINKO DENSHI KK) 17 March 2005	18
X	See paragraph 9 - paragraph 19 and figure 1.	19
A		1-17,20-25
A	US 6298009 B1 (STRINGER; BRADLEY J.) 02 October 2001 See column 5, line 57 - column 28, line 26 and figures 1 - 20.	1-25
A	US 04773029 A (CLAESSON; JON et al.) 20 September 1988 See column 3, line 47 - column 15, line 8 and figures 1 - 22.	1-25
A	JP 08-233538 A (NITTETSU HOKKAIDO SEIGYO SYST KK et al.) 13 September 1996 See paragraph 5 - paragraph 20 and figures 1 - 8.	1-25
A	JP 09-049711 A (PARUSUTETSUKU KOGYO KK) 18 February 1997 See paragraph 15 - paragraph 36 and figures 1 - 6.	1-25

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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"&" document member of the same patent family

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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