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(54) **Title:** INTELLIGENT LASER TRACKING SYSTEM AND METHOD FOR MOBILE AND FIXED POSITION TRAFFIC MONITORING AND ENFORCEMENT APPLICATIONS

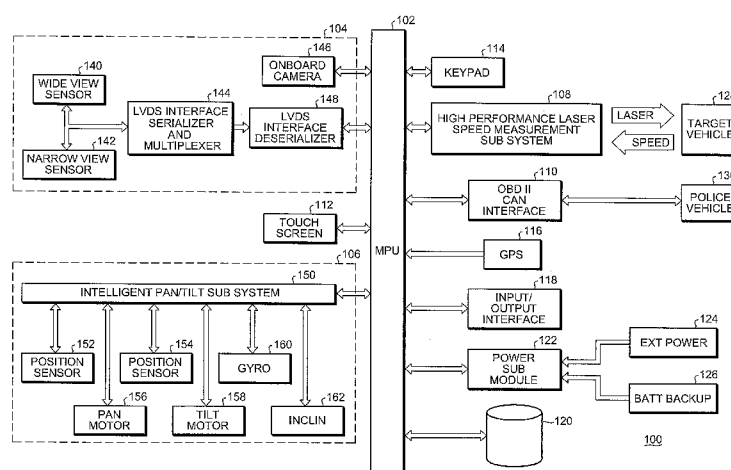


Fig. 1

(57) **Abstract:** An intelligent laser tracking system and method for mobile and fixed position traffic monitoring and enforcement applications. The system disclosed herein can autonomously track multiple target vehicles with a highly accurate laser based speed measurement system or, under manual control via a touch screen, select a particular target vehicle of interest. In a mobile application the police vehicle speed is determined through the OBD II CAN port and updated for accuracy through an onboard GPS subsystem. The system and method of the present invention simultaneously provides both narrow and wide images of a target vehicle for enhanced evidentiary purposes. A novel, low inertia pan/tilt mechanism provides extremely fast and accurate target vehicle tracking and can compensate for geometrical errors and the cosine effect.

**A. CLASSIFICATION OF SUBJECT MATTER****G08G 1/04(2006.01)i, G08G 1/052(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)

G08G 1/04; G08G 1/052; G08G 1/054; G06G 7/7/8; H04N 5/217

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) &amp; Keywords: tracking vehicle, pan/tilt, speed, camera

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	KR 10-2000-0038131 A (SIM) 05 July 2000	1-7,9-10,13,18-19
Y	See abstract, page 2, lines 46-51 and page 3, lines 1-40 and claim 1.	,21-23,25-28,32,35
Y	KR 10-2007-0121098 A (LUX TECHNOLOGY INC.) 27 December 2007	8,11-12,14-17,20
Y	See page 5, lines 1-53, page 6, lines 14-38, claims 1-7 and figures 2-3a.	,24,29-31,33-34
Y	US 2011-0025862 A1 (LINDSAY) 03 February 2011	,36-40
Y	See paragraphs [0018]-[0019].	
Y	KR 10-2005-0048961 A (SAMDUCK ELECTRIC CO., LTD.) 25 May 2005	8,11-12,16-17,20
Y	See page 3, lines 65-66, page 4, lines 1-5, claim 1 and figure 3.	,24,29-31,33-34
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A	See abstract, column 3, lines 1-67 and column 4, lines 1-10 and claims 1-2, 5.	38-40
		1-40



Further documents are listed in the continuation of Box C.



See patent family annex.

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"&amp;" document member of the same patent family

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**INTERNATIONAL SEARCH REPORT**

Information on patent family members

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