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(12) United States Patent Payne

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(54)	VEHICLE BACKUP MONITORING AND
	ALARM SYSTEM

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- (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35
 - U.S.C. 154(b) by 0 days.
- (21) Appl. No.: 09/089,153
- (22) Filed: Jun. 2, 1998
- 340/436; 340/903; 340/937; 348/148 (58) **Field of Search** 340/463, 436,

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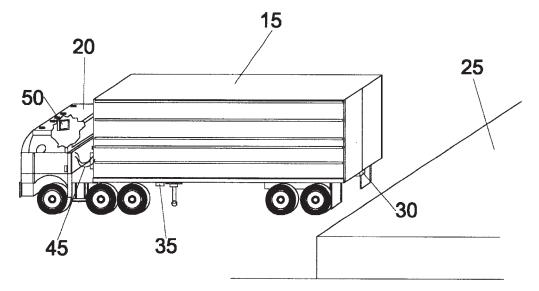
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Primary Examiner—Davetta W. Goins (74) Attorney, Agent, or Firm—John D. Gugliotta

(57) ABSTRACT

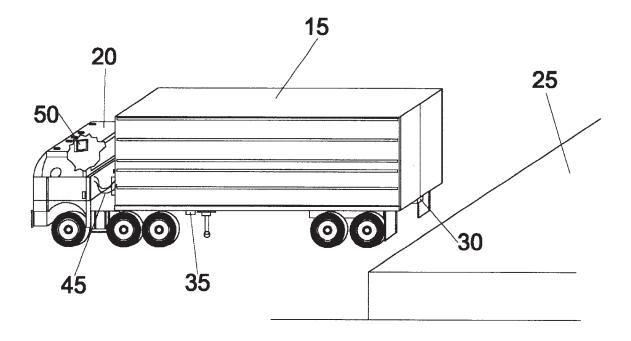
A vehicle backup monitoring and alarm system which comprises a system of three closed circuit video cameras, three laser-based distance detection systems and an associated monitor is disclosed. A camera and a laser-based distance detection system are mounted on each side, as well as the rear of the motor vehicle or large truck, and coupled to one monitor, located by the driver, which displays all three images simultaneously. The distance to the closest object, displayed by each camera, as determined by the laser-based distance detection system, is superimposed over the respective object in the monitor. If any of these said distances fall below a minimum predetermined distance, the numeric representation will flash and an audible alarm will sound.

8 Claims, 4 Drawing Sheets



VALEO EXHIBIT 1037 Valeo v. Magna IPR2015-







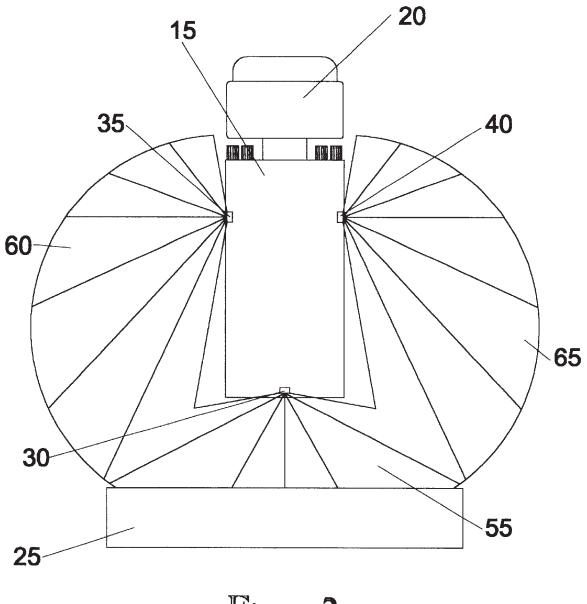


Figure 2

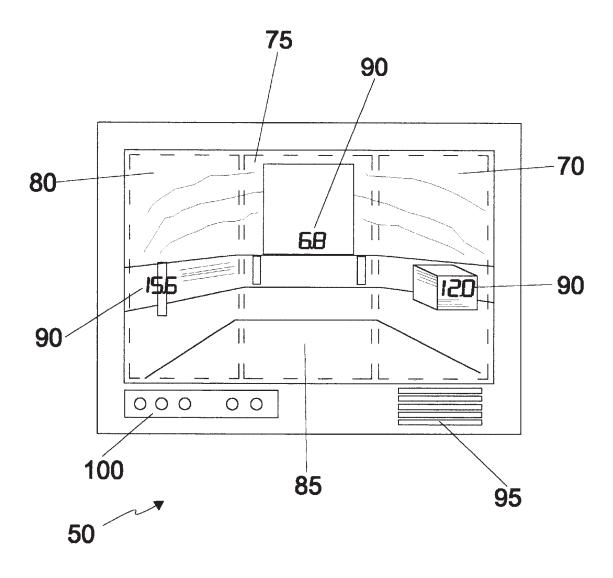
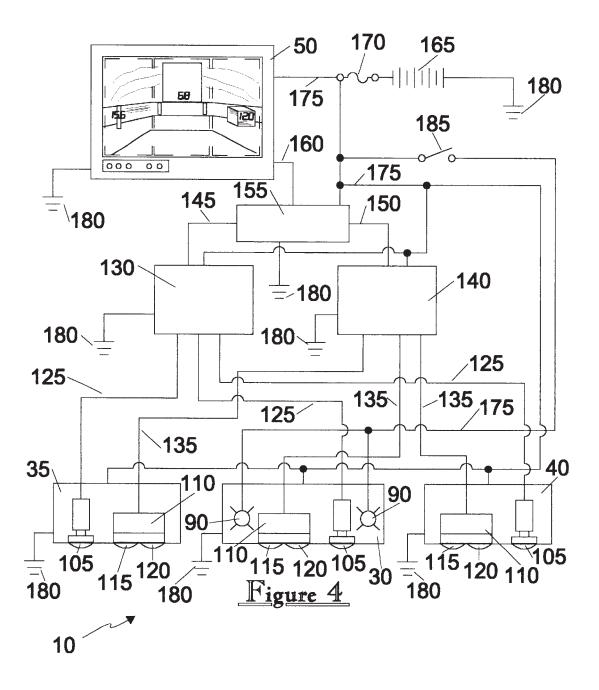


Figure 3



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