

12

EUROPEAN PATENT APPLICATION

21 Application number: **86105498.9**

51 Int. Cl.⁴: **G 08 G 1/01**

22 Date of filing: **21.04.86**

30 Priority: **19.04.85 JP 84855/85**

43 Date of publication of application: **29.10.86**
Bulletin 86/44

84 Designated Contracting States: **AT BE CH DE FR GB IT LI**
LU NL SE

88 Date of deferred publication of search
report: **05.04.89 Bulletin 89/14**

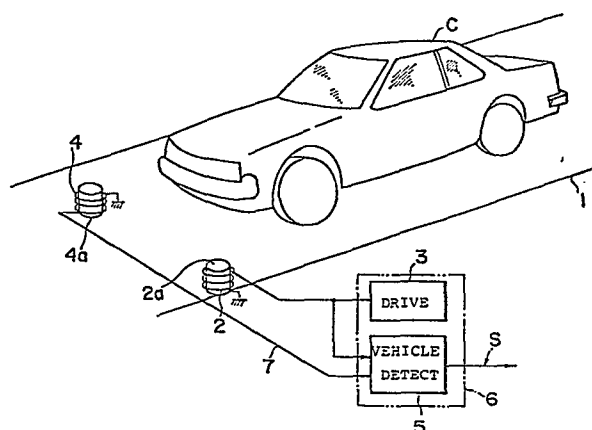
71 Applicant: **OMRON TATEISI ELECTRONICS CO., 10,**
Tsuchido-cho Hanazono Ukyo-ku, Kyoto 616 (JP)

72 Inventor: **Mizuno, Masao Omron Tateisi Electronics Co.,**
Patent Center 20, Igadera Shimo-Kainji,
Nagaokakyo-shi Kyoto 617 (JP)
Inventor: **Maruo, Toshihiko Omron Tateisi Electronics**
Co., Patent Center 20, Igadera Shimo-Kainji,
Nagaokakyo-shi Kyoto 617 (JP)
Inventor: **Fujimoto, Takuya Omron Tateisi Electronics**
Co., Patent Center 20, Igadera Shimo-Kainji,
Nagaokakyo-shi Kyoto 617 (JP)
Inventor: **Sawada, Seichi Omron Tateisi Electronics Co.,**
Patent Center 20, Igadera Shimo-Kainji,
Nagaokakyo-shi Kyoto 617 (JP)
Inventor: **Kanayama, Kenji Omron Tateisi Electronics**
Co., Patent Center 20, Igadera Shimo-Kainji,
Nagaokakyo-shi Kyoto 617 (JP)

74 Representative: **WILHELMS, KILIAN & PARTNER**
Patentanwälte, Eduard-Schmid-Strasse 2,
D-8000 München 90 (DE)

54 **Vehicle detecting system.**

57 There is a vehicle detecting system for detecting the number of vehicles which pass the roadway, thereby realizing the smooth flow of vehicles. This system comprises: a transmitting coil (2) and a receiving coil (4) which are arranged on both sides of the vehicle detection area set over the roadway; a driving circuit (3) to supply a high frequency exciting current to the transmitting coil; and vehicle detecting circuit (5) to output a vehicle detection signal in response to a change in level or phase of the electrical signal which is induced in the receiving coil. The detection signal is outputted when the signal level exceeds a predetermined value or when the signal phase exceeds a predetermined angle. One or a plurality of pairs of transmitting and receiving coils may be buried under the roadway surface or on or above the roadway at regular intervals. With this system, the installing construction of the coils is simplified and the possibility of the occurrence of the accident such as disconnection of the coil is reduced. The vehicle on the roadway can be certainly detected.





European Patent
Office

EUROPEAN SEARCH REPORT

0199329

Application Number

EP 86 10 5498

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)
X Y	DE-A-2 433 241 (ELMEG) * Whole document * ---	1,2,4-6 ,10,11 13	G 08 G 1/01
X	US-A-4 276 539 (ESHRAGHIAN et al.) * Whole document * ---	1,2,4,7 ,9,10	
X	FR-A-1 346 415 (SOCIETE COTONNIERE DE VAGNEY) * Abstract; figure 2 * ---	1,2,4-6 ,10	
X Y	GB-A- 627 053 (CINEMA-TELEVISION LTD) * Whole document * ---	1-3,4-6 13	
A	US-A-3 911 389 (MILLS) * Column 2, line 57 - column 3, line 38 * -----	1,2,3	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int. Cl. 4)
			G 08 G
Place of search THE HAGUE			Date of completion of the search 19-01-1989
			Examiner REEKMANS M.V.
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone			
Y : particularly relevant if combined with another document of the same category			
A : technological background			
O : non-written disclosure			
P : intermediate document			
T : theory or principle underlying the invention			
E : earlier patent document, but published on, or after the filing date			
D : document cited in the application			
L : document cited for other reasons			
.....			
& : member of the same patent family, corresponding document			