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(72) Inventor: **Pellegrini, Marcello**
50129 Firenze (IT)

(74) Representative: **Modiano, Guido, Dr.-Ing. et al**
Modiano & Associati,
Via Meravigli, 16
20123 Milano (IT)

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(71) Applicant: **Autostrade per L'Italia S.p.A.**
00159 Roma (IT)

(54) **System for detecting the speed of motor vehicles**

(57) A system (1) for detecting the speed of vehicles, particularly for sections of roads and highways, comprising a plurality of peripheral units, each of which comprises a unit (2) for detecting the class and speed of a vehicle, and at least one video camera (3) for acquiring the image of the license plate of the vehicle, the

peripheral units being connected to a central processing unit (5), the peripheral units being further provided with a peripheral processing unit (11) that is adapted to identify the license plate acquired by the video camera, the central processing unit (5) determining the average speed of the vehicle on the basis of two distinct detections performed by two successive peripheral units.

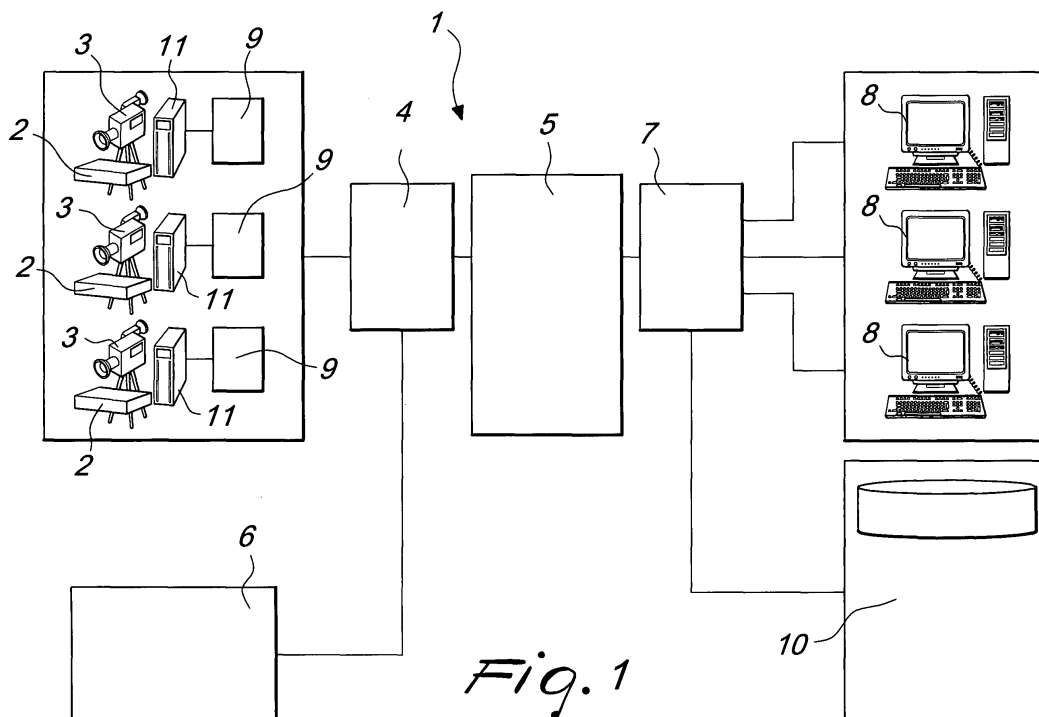


Fig. 1



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EUROPEAN SEARCH REPORT

Application Number
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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.7)
X	US 6 140 941 A (DWYER ET AL) 31 October 2000 (2000-10-31) * column 3, line 62 - column 4, line 25 * * column 5, lines 39-44 * * column 9, lines 21-31 *	1,5-12	G08G1/054 G08G1/04
Y	* column 9, lines 63-67 * -----	2-4	
Y	EP 1 193 662 A (ZACHMANN, REINHARD; FRAUNHOFER-GESELLSCHAFT ZURFOERDERUNG DER ANGEWAND) 3 April 2002 (2002-04-03) * column 1, lines 44-48 * * column 2, lines 35-40 * * column 3, lines 15-20 * -----	2,3	
Y	GB 2 266 398 A (* TRAFFIC TECHNOLOGY LIMITED) 27 October 1993 (1993-10-27) * page 4, line 11 - page 5, line 15 * * page 6, lines 11-14 * -----	4	
A	US 5 602 375 A (SUNAHARA ET AL) 11 February 1997 (1997-02-11) * column 2, lines 60-64 * * column 9, line 40 - column 10, line 20 * * column 11, lines 45-52 * * figure 39 * -----	1-12	TECHNICAL FIELDS SEARCHED (Int.Cl.7) G08G
A	US 5 896 167 A (OMAE ET AL) 20 April 1999 (1999-04-20) * column 2, lines 56-67 * * column 3, lines 43-53 * -----	1-12	
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 22 February 2005	Examiner Flores Jiménez, A
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			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 04 01 6972

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
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22-02-2005

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6140941	A	31-10-2000	NONE	

EP 1193662	A	03-04-2002	DE 10048362 A1	25-04-2002
			AT 278230 T	15-10-2004
			DE 10201658 A1	31-07-2003
			DE 50103849 D1	04-11-2004
			EP 1193662 A1	03-04-2002

GB 2266398	A	27-10-1993	AU 3959993 A	18-11-1993
			WO 9321617 A1	28-10-1993

US 5602375	A	11-02-1997	JP 3275620 B2	15-04-2002
			JP 8293049 A	05-11-1996
			EP 0677828 A2	18-10-1995
			EP 0834838 A2	08-04-1998
			SG 46937 A1	20-03-1998

US 5896167	A	20-04-1999	JP 8124083 A	17-05-1996
			EP 0708426 A2	24-04-1996
			SG 46951 A1	20-03-1998

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82