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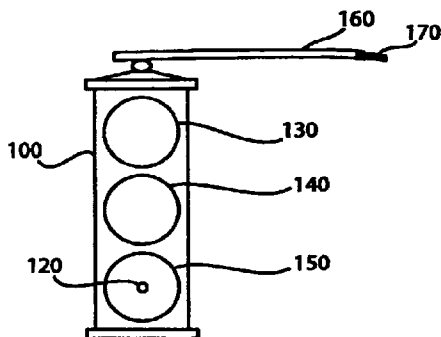
Published:

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(54) Title: VIDEO TRAFFIC MONITORING AND SIGNALING APPARATUS



(57) Abstract: A traffic signal head having a signal lamp or signal ball with an embedded video monitoring system can be provided to perform vehicle detection to inform an intelligent traffic control system. Video monitoring of traffic lanes facing the signal head can be analyzed by such a system to emulate inductive loop signals that are input signals to traffic control systems.



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INTERNATIONAL SEARCH REPORT

International application No
PCT/US2007/007662

A. CLASSIFICATION OF SUBJECT MATTER INV. G08G1/08		
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		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y A	US 6 466 260 B1 (HATAE YASUHIKO [JP] ET AL) 15 October 2002 (2002-10-15) figures 1-3,6,31 column 3, line 6 - line 60 column 7, line 4 - column 8, line 10 column 8, line 55 - column 9, line 21 column 10, line 33 - line 43 column 11, line 1 - line 43 column 12, line 51 - line 62 column 21, line 37 - line 64 ----- -/--	17, 18 1-5, 8-10, 13-16, 19, 22 7-16, 19-23
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C.		
<input checked="" type="checkbox"/> See patent family annex.		
* Special categories of cited documents :		
A document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the international filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the international filing date but later than the priority date claimed *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *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 *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *&* document member of the same patent family		
Date of the actual completion of the international search 28 November 2007		Date of mailing of the international search report 06/12/2007
Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer Wagner, Ulrich

INTERNATIONAL SEARCH REPORT

International application No

PCT/US2007/007662

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 03/009252 A (ON ELEKTRONIK SAN VE TIC LTD S [TR]; AYDIN MUHITDIN ORHAN [TR]) 30 January 2003 (2003-01-30) page 1, line 3 - line 9 page 4, line 7 - line 18; claims 1,3 -----	1-5, 8-10, 13-16, 19,22
A	DE 100 14 958 A1 (ROBOT FOTO ELECTR KG [DE]) 4 October 2001 (2001-10-04) the whole document -----	1,17,19
A	DE 43 43 338 A1 (DOLDERER JOCHEN [DE]) 22 June 1995 (1995-06-22) the whole document -----	11,12, 20,21
A	US 2003/098801 A1 (MARTIN CURTIS JUDE [US]) 29 May 2003 (2003-05-29) abstract -----	11,12, 20,21
A	US 6 448 904 B1 (FLORES JAMES D [US]) 10 September 2002 (2002-09-10) the whole document -----	11,12, 20,21

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2007/007662

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210

3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.

2. As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.

3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

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FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

INTERNATIONAL SEARCH REPORT

International Application No. PCT/US2007 /007662

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-5,7-10,13-19,22,23

A system for traffic monitoring and signaling, having a video traffic monitoring system incorporated into one of the one or more lamps, the signal of which is being overlaid onto a power line of the one or more lamps.

2. claims: 11,12,20,21

A system for traffic monitoring and signaling, having a video traffic monitoring system incorporated into one of the one or more lamps, further being configured to detect emergency strobe lights.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2007/007662

Patent document cited in search report	Publication date	Publication date	Patent family member(s)	Publication date
US 6466260	B1	15-10-2002	NONE	
WO 03009252	A	30-01-2003	EA 5663 B1 EP 1410362 A1 US 2004189491 A1	28-04-2005 21-04-2004 30-09-2004
DE 10014958	A1	04-10-2001	AT 267434 T EP 1143395 A2 ES 2221873 T3	15-06-2004 10-10-2001 16-01-2005
DE 4343338	A1	22-06-1995	NONE	
US 2003098801	A1	29-05-2003	NONE	
US 6448904	B1	10-09-2002	NONE	