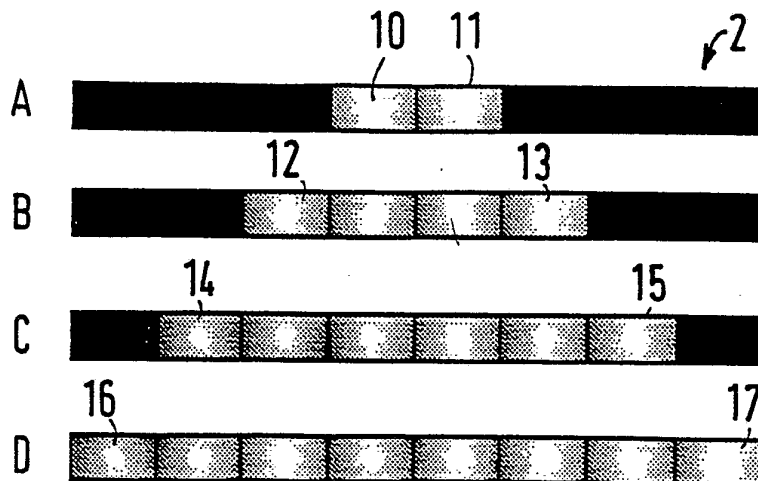




INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<p>(51) International Patent Classification ⁵ : B60Q 1/44, 1/54, 1/52 G01P 1/08</p>	<p>A3</p>	<p>(11) International Publication Number: WO 93/15931 (43) International Publication Date: 19 August 1993 (19.08.93)</p>
<p>(21) International Application Number: PCT/GB93/00251 (22) International Filing Date: 5 February 1993 (05.02.93) (30) Priority data: 9202472.8 5 February 1992 (05.02.92) GB (71) Applicant (for all designated States except US): INTERNATIONAL AUTOMOTIVE DESIGN (UK) LTD. [GB/GB]; IAD House, Dominion Way, Worthing, West Sussex BN14 8LU (GB). (71)(72) Applicant and Inventor: TONKIN, Mark, Christopher [GB/GB]; The Barn, Ripe Lane, Ripe, Lewes, Sussex BN8 6AP (GB). (72) Inventors; and (75) Inventors/Applicants (for US only) : HALL, Simon, Lewis, Marshall [GB/GB]; 25 Hailsham Road, Worthing, West Sussex BN11 5PA (GB). STRONG, Gareth, Anthony [GB/GB]; 17 Marine Court, Beach Green, Shoreham by Sea, West Sussex BN43 5LQ (GB). CUCINOTTA, Marco [GB/]; 127 Broomfield Avenue, Worthing, West Sussex BN14 7SS (GB).</p>		<p>(74) Agents: COUCHMAN, Jonathan, Hugh et al.; Hepworth Lawrence Bryer & Bizley, 36 Regent Place, Rugby, Warwickshire CV21 2PN (GB). (81) Designated States: AT, AU, BB, BG, BR, CA, CH, CZ, DE, DK, ES, FI, GB, HU, JP, KP, KR, LK, LU, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, US, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, SN, TD, TG). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i> (88) Date of publication of the international search report: 11 November 1993 (11.11.93)</p>

(54) Title: MOTOR VEHICLE DISPLAY SYSTEM AND RANGING DEVICE



(57) Abstract

A vehicle display system (1) comprises a stationary detection means (34) and an indicator (2), which form a stationary vehicle detection means being operative to produce an indicator signal which is indicative of the vehicle being stationary. A vehicle display system (1) comprises a vehicle deceleration detection means (32) and an indicator (2), the detection means being operative to measure the magnitude of deceleration of a vehicle and generate a signal to drive the indicator and thereby generate a display indicative of the magnitude of vehicle deceleration, the vehicle deceleration detection means being independent of the vehicle braking system. The indicator can be an array of lamps (10 to 17) and the stationary vehicle indicator signal an animate display whereby the lamps are turned on and off. Additionally, there is provided a ranging device (60) which can be used to detect a trailing vehicle within a predetermined distance of the vehicle comprising the ranging device. The ranging device (60) may be used to initiate a change of the display generated by the vehicle display system (1).

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB 93/00251

I. CLASSIFICATION OF SUBJECT MATTER (if several classification symbols apply, indicate all) ⁶		
According to International Patent Classification (IPC) or to both National Classification and IPC		
Int.C1.5 G 01 P 1/08	B 60 Q 1/44	B 60 Q 1/54 B 60 Q 1/52
II. FIELDS SEARCHED		
Minimum Documentation Searched ⁷		
Classification System	Classification Symbols	
Int.C1.5	B 60 Q	G 01 P
Documentation Searched other than Minimum Documentation to the Extent that such Documents are Included in the Fields Searched ⁸		
III. DOCUMENTS CONSIDERED TO BE RELEVANT⁹		
Category ¹⁰	Citation of Document, ¹¹ with indication, where appropriate, of the relevant passages ¹²	Relevant to Claim No. ¹³
X	DE,A,3907714 (BATTELLE-INSTITUT) 20 September 1990 see the whole document ---	1-3,5-9
X	DE,A,4020610 (SCHREIBER) 2 January 1992 see the whole document ---	1-4
X	GB,A,2114826 (CHIOU NAN MU) 24 August 1983 see the whole document ---	1,2,11, 15
X	NL,A,8300073 (ARJEH TAL) 1 August 1984 see the whole document -----	1,2,5,8 ,9,15
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IV. CERTIFICATION		
Date of the Actual Completion of the International Search	Date of Mailing of this International Search Report	
13-07-1993	1 2. 10. 93	
International Searching Authority	Signature of Authorized Officer	
EUROPEAN PATENT OFFICE	G. PFLUGFELDER	

INTERNATIONAL SEARCH REPORT

International application No.

PCT/GB93/00251

Box I Observations where certain claims were found unsearchable (Continuation of item 1 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:

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 II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

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

1. claims 1-16; 2. claims 17-21

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 fee, this Authority did not invite payment of any additional fee.
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.:

1-16

Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
- No protest accompanied the payment of additional search fees.

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

GB 9300251

SA 72592

This annex lists the patent family members relating to the patent documents cited in the above-mentioned international search report. The members are as contained in the European Patent Office EDP file on 06/10/93
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
DE-A- 3907714	20-09-90	None	
DE-A- 4020610	02-01-92	None	
GB-A- 2114826	24-08-83	None	
NL-A- 8300073	01-08-84	None	