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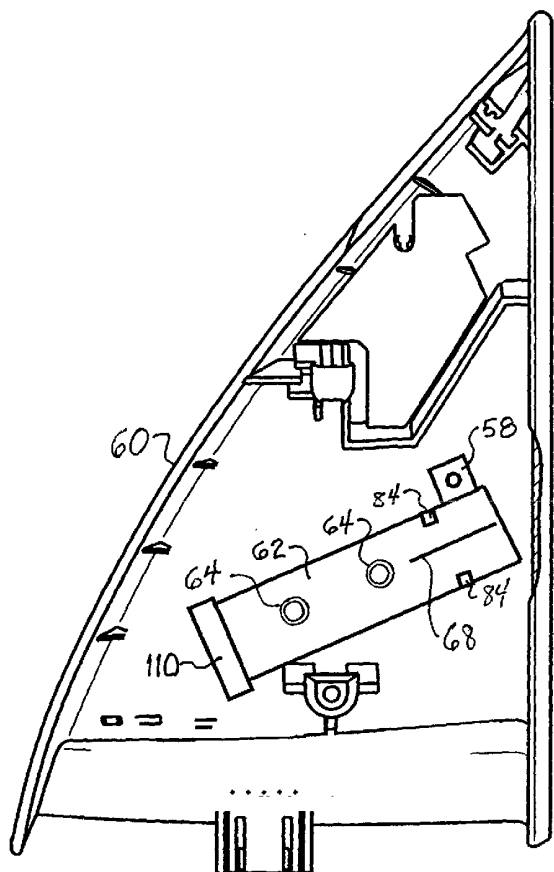
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Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for all designations
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for all designations

[Continued on next page]

(54) Title: SENSOR MOUNTING SYSTEM



(57) Abstract: An obstacle detection system for vehicular environments including a monitoring sensor system and a mounting system enables an installer to make aiming adjustments, in the factory or field, to account for tolerance stack-up. The system includes a housing for mounting the monitoring sensor system to minimize cross-talk and interference between transmitter and receiver sections, to limit sensor system movement, and to enable gross and fine aiming adjustments. In one embodiment, a circuit board (120) is disposed within a cradle assembly (62) which, in turn, is mounted in (110) or integral to the housing (60) to position the sensor as necessary. The cradle in one embodiment is an enclosure for the circuit board. The sensor housing is mounted to the interior vehicle trim, door panel, and/or door sheet metal and ensures consistent mounting regardless of interior trim or factory installation variations. Integral adjustment mechanisms are incorporated for adjusting the orientation of the sensor system.



WO 02/050553 A3



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

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B. FIELDS SEARCHED

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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 practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5,955,854 A (ZHANG et al.) 21 September 1999 (21.09.1999), Figs. 4, 6, 8, 9a-9c, 47, 54 and 65.	1-21
A	US 6,025,797 A (KAWAI et al.) 15 February 2000 (15.02.2000), col. 1, lines 15-36.	1-21
A	US 5,210,406 A (BERAN et al.) 11 May 1993 (11.05.1993), Figs. 7 and 11.	1-21
A	US 5,562,336 A (GOTOU) 08 October 1996 (08.10.1996), Fig. 2.	1-21
A	US 5,153,419 A (TAKAHASHI) 06 October 1992 (06.10.1992), Fig. 6.	1-21
A	US 5,541,403 A (HEINONEN et al.) 30 July 1996 (20.07.1996), 27a in Fig. 5.	1-21
A	US 4,505,054 A (CLARK et al.) 19 March 1985 (19.03.1985), Fig. 3 and Abstract.	1-21
A	US 5,235,574 A (AVILES et al.) 10 August 1993 (10.08.1993), Fig. 4.	1-21
A	US 5,880,836 A (LONNQVIST) 09 March 1999 (09.03.1999), col. 3, lines 45-50.	1-21

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C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5,938,320 A (CRANDALL) 17 August 1999 (17.08.1999), Figs. 3-4.	1-21