



US005760692A

# United States Patent [19]

[11] Patent Number: **5,760,692**

Block

[45] Date of Patent: **Jun. 2, 1998**

## [54] INTRA-ORAL TRACKING DEVICE

[76] Inventor: **Douglas A. Block**, 69 Sandpiper Dr., Manalapan, N.J. 07726

[21] Appl. No.: **730,906**

[22] Filed: **Oct. 18, 1996**

[51] Int. Cl.<sup>6</sup> ..... **G08B 23/00**

[52] U.S. Cl. .... **340/573; 340/505; 340/539; 340/693; 455/575**

[58] Field of Search ..... **340/573, 572, 340/539, 505, 825.54, 825.49, 825.19, 693; 455/100, 351, 575**

## [56] References Cited

### U.S. PATENT DOCUMENTS

3,297,021	1/1967	Davis et al. ....	455/100 X
3,985,977	10/1976	Beaty et al. ....	455/351 X
4,706,689	11/1987	Man ....	340/539 X
5,523,745	6/1996	Fortune et al. ....	340/825.19
5,629,678	5/1997	Gargano et al. ....	340/573

Primary Examiner—Thomas Mullen

## [57] ABSTRACT

An intra-oral tracking device adapted for use in association with a tooth having a buccal surface and a lingual surface, the apparatus comprises a tooth mounting member having an inner surface and an outer surface, the inner surface including adhesive material; a remote transmitter-receiver assembly including means to transmit and receive electronic signals, the transmitter-receiver being affixed to the outer surface of the tooth mounting member, the remote transmitter-receiver assembly positioned adjacent to the buccal surface of the tooth; and a base transmitter-receiver device including means to transmit and receive electronic signals, the device including a transmission button and a display screen, in an operative orientation a user depressing the transmission button of the base transmitter-receiver device to activate the remote transmitter-receiver, activation of the remote transmitter-receiver device causing the transmission of electrical signals for receipt by the base transmitter-receiver device, the base transmitter-receiver device thereby displaying the location of the remote transmitter-receiver assembly to enable a user to locate a lost individual.

7 Claims, 4 Drawing Sheets

