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# United States Patent [19]

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Jones

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[54] **MOTORCYCLE HEADLIGHT AIMING DEVICE**

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[57] **ABSTRACT**

[21] Appl. No.: **29,767**

A device which determines the direction and amount of tilt, lean, bank, or attitude of a vehicle relative to the road surface by means of one or more sensors which measure the return time of emitted energy reflected from the road surface. Vehicle attitude information is used to move, correct, adjust, or otherwise alter preselected vehicle parts or functions according to a predetermined combination of computer paradigms and mechanical linkages. This process can be used to adjust the headlight beam orientation in order to better illuminate the forward path of the vehicle. The headlight beam may be further adjusted according to information on vehicle speed and changes thereof. The Motorcycle Headlight Aiming Device may be used to aim a camera which is mounted to a banking vehicle. Bank angle data may also be used to switch off a turn signal mechanism, and to limit engine power at extreme angles of bank. Engine power may also be limited when sensor data indicates front wheel lift-off.

[22] Filed: **Mar. 11, 1993**

[51] Int. Cl.<sup>6</sup> ..... **B62J 6/00**

[52] U.S. Cl. .... **362/72; 362/66; 362/286**

[58] Field of Search ..... **362/66, 72, 71, 285, 362/286, 287, 284**

[56] **References Cited**

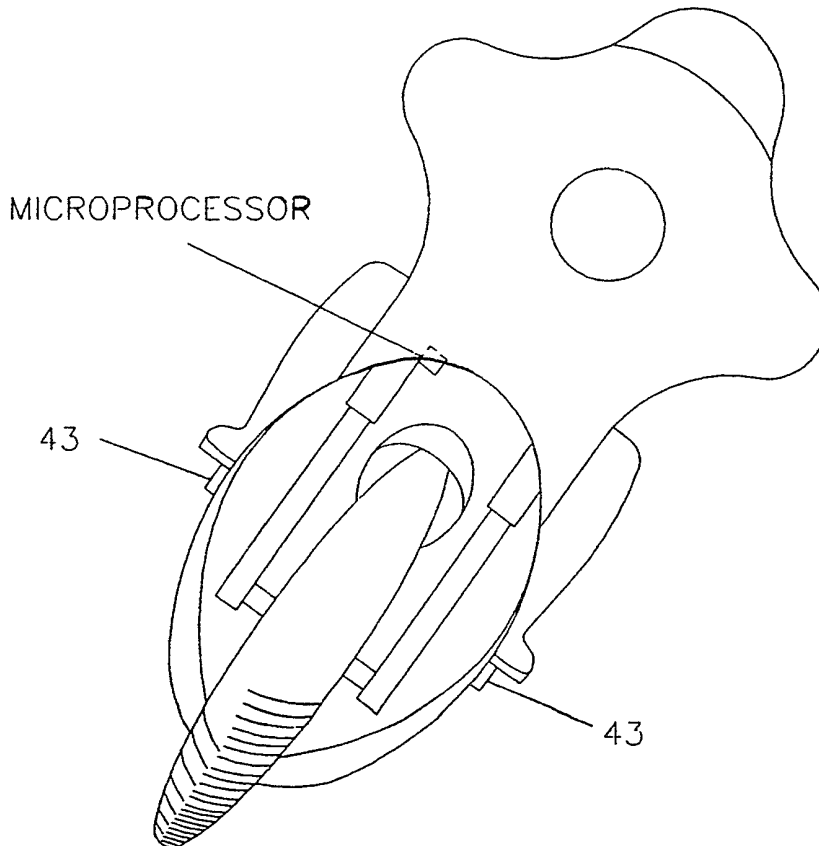
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**7 Claims, 25 Drawing Sheets**



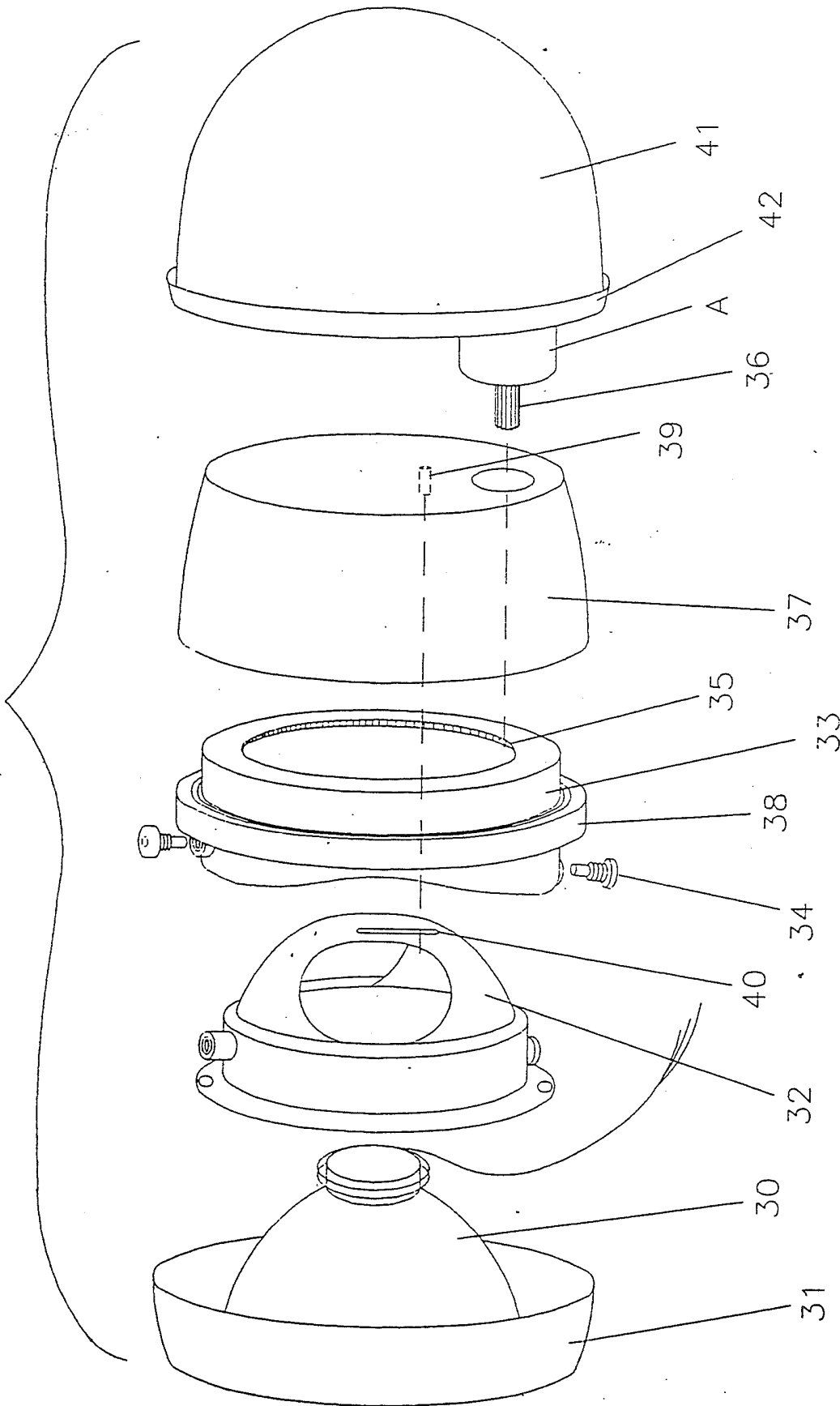


FIG. 1

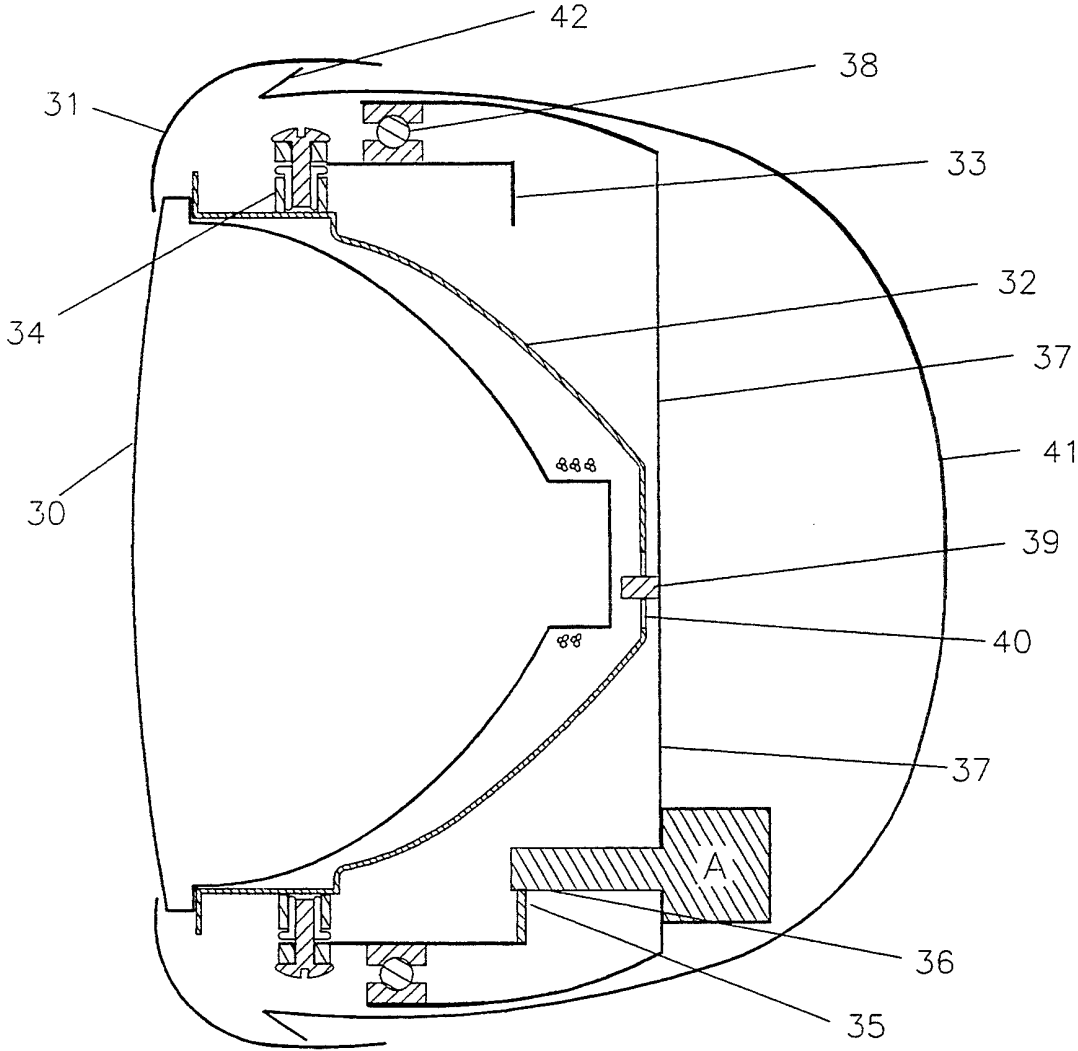


FIG. 2

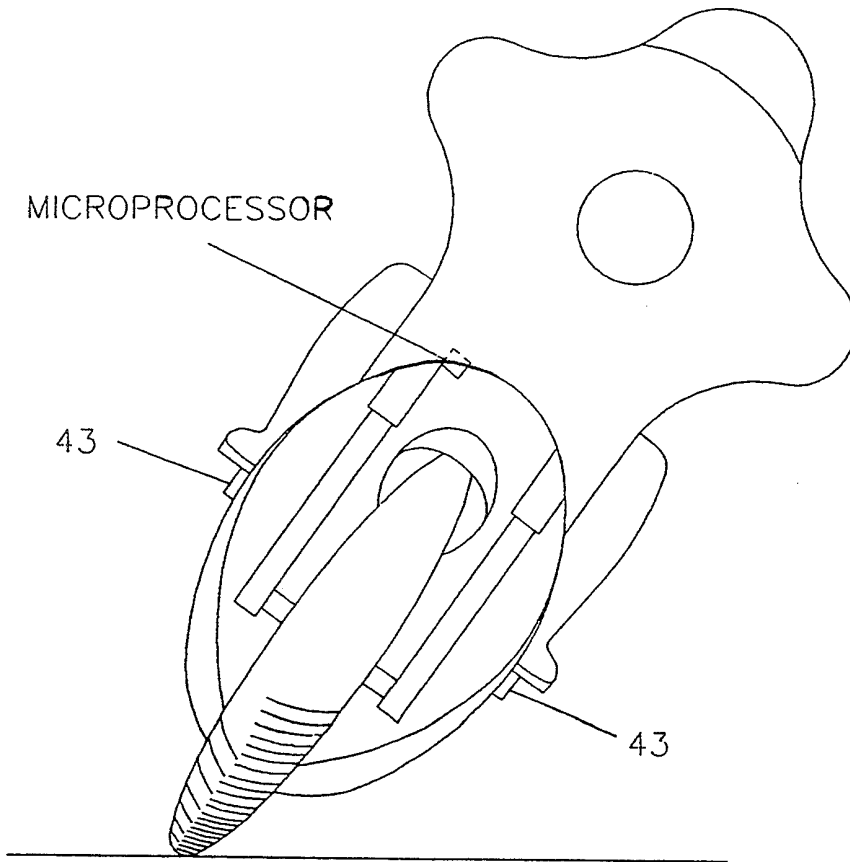


FIG. 3

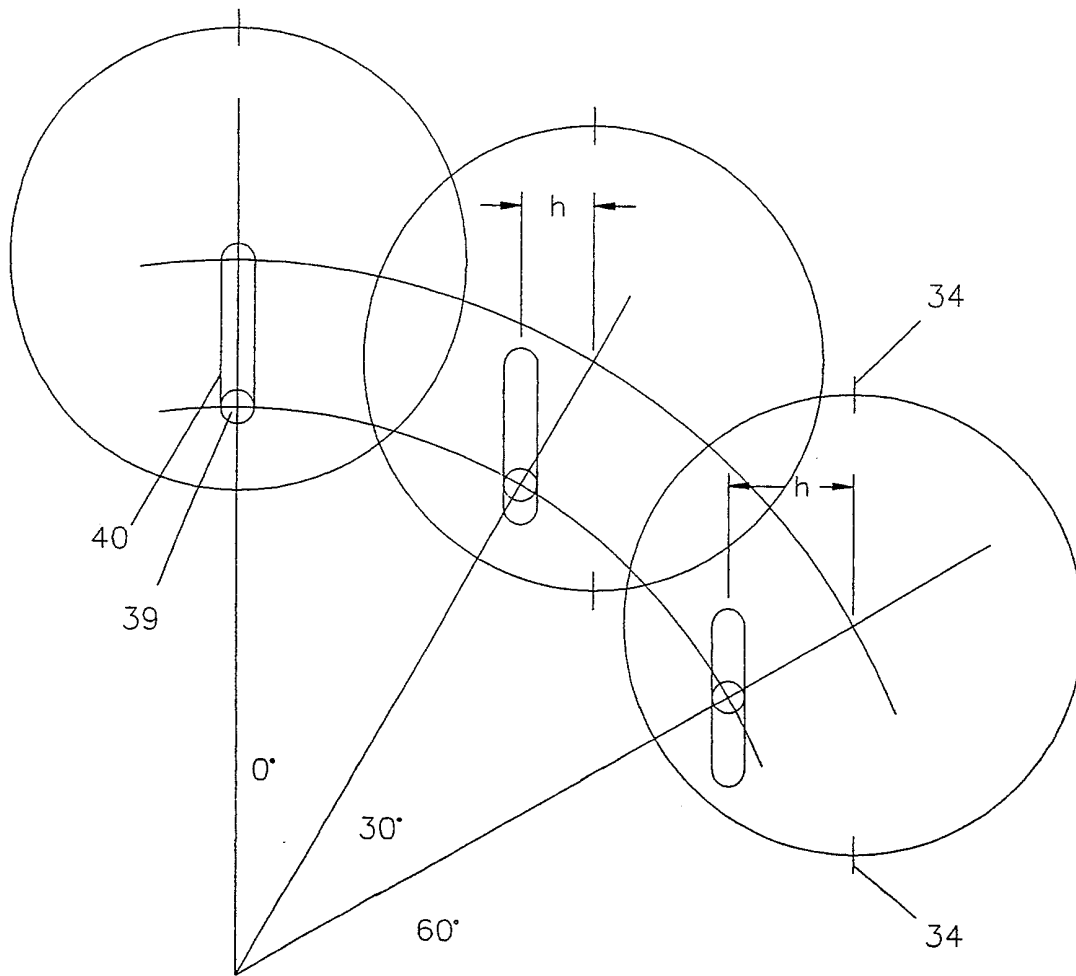


FIG. 4

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