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(71) Applicant: **CAMERON INTERNATIONAL CORPORATION** [US/US]; 1333 West Loop South, Suite 1700, Houston, Texas 77027 (US).

(72) Inventors: **COONROD, Donald Scott**; Cameron International Corporation, 4901 W. Sam Houston Parkway N., Houston, Texas 77041 (US). **GOTTLIEB, Emanuel John**; Cameron International Corporation, 1000 McClaren Woods Drive, Coraopolis, Pennsylvania 15108 (US). **AUGENSTEIN, Donald Roy**; Cameron International Corporation, 1000 McClaren Woods Drive, Coraopolis, Pennsylvania 15108 (US).

(74) Agent: **EUBANKS IV, L. Lee**; Eubanks PLLC, 19500 State Highway 249, Suite 465, Houston, Texas 77070 (US).

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(54) Title: POSITION MONITORING SYSTEM AND METHOD

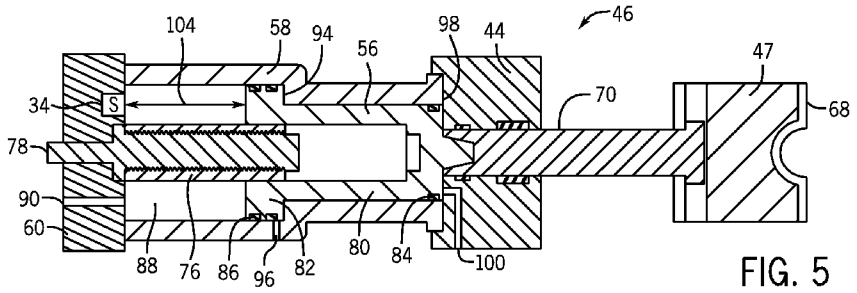

FIG. 5

(57) Abstract: An ultrasonic position sensing system is disclosed. In one embodiment, the system includes an ultrasonic sensor (34) configured to monitor the position of a device (56). The system also includes processing logic (36). The sensor is controlled by the logic to direct an ultrasonic pulse (122) toward the device. The logic is configured to compute the transit time and the velocity of the ultrasonic pulse. Based on these parameters, the logic computes the path length between the sensor and the device, which corresponds to the location of the device relative to the location of the sensor. In further embodiments, the ultrasonic positioning system may include multiple sensors in communication with the ranging logic for monitoring multiple devices.

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