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Rodrian et al.

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- (54) **MAGNETIC ANOMALY SENSOR SYSTEM**
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- (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 250 days.

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- (52) **U.S. Cl.** **702/65; 324/331**
- (58) **Field of Search** 702/65, 38, 66,
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260

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(57) **ABSTRACT**

The present invention is directed to a method and apparatus for measuring a magnetic field and determining whether an anomaly is present based on the magnetic field measurement and a measured ambient magnetic field. The present invention is also directed to a method and apparatus for measuring the intensity of the magnetic field by implementing operations to essentially eliminate error components that arise due to factors including offsets and gains affecting the intensity signal processing.

8 Claims, 6 Drawing Sheets

