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Rea et al.

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(54) **METHOD AND APPARATUS FOR MEASUREMENT OF FUEL CELL HIGH FREQUENCY RESISTANCE IN THE PRESENCE OF LARGE UNDESIRABLE SIGNALS**

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(52) **U.S. Cl.** **702/76; 702/65; 702/75**
(58) **Field of Classification Search** **702/64, 702/65, 75, 76; 324/427, 430**
See application file for complete search history.

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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 0 days.

(57) **ABSTRACT**

A method and apparatus for a high frequency resistance measurement instrument with a reasonable dynamic range, which militates against saturation in the presence of one or more large undesirable signals, the high frequency measurement instrument capable of employing multiple alternating currents of differing frequencies to maintain measurement capability despite signal chain saturation in the presence of a large undesirable signal.

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11 Claims, 5 Drawing Sheets

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