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(54) **MEASURING SYSTEM FOR NUCLEAR
MAGNETIC MEASURING DEVICES**

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(51) **Int. Cl.**

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(57) **ABSTRACT**

A measuring system for nuclear magnetic measuring devices having a controller, a signal generator and a signal processor with signal path having an input stage and a signal conditioner, interfering signals caused by the excitation signals and not occurring simultaneously with the measuring signals being received at an input of the input stage, the measuring signal having signal swing less than that of the interfering signal and the controller determining excitation signal output instants. A switch is located in the signal path between the input stage output and the signal conditioner input, and being switchable between first and second switching states by the controller. The controller switches the switch in the first switching state only in the periods in which there are no interfering signals at the input stage input, and a dynamic range of the signal conditioner input is adapted to the voltage swing of the measuring signals.

(52) **U.S. Cl.**

CPC **G01R 33/56** (2013.01); **G01R 33/3621**
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(58) **Field of Classification Search**

USPC 324/309
See application file for complete search history.

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8 Claims, 1 Drawing Sheet

