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[54] **SYSTEM AND METHOD FOR PROCESSING SIGNALS TO DETERMINE THEIR STOCHASTIC PROPERTIES**

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[57] ABSTRACT

[21] Appl. No.: **08/412,260**

A signal processing system processes a digital signal, generated in response to an analog signal which includes a noise component and possibly also an information component. An information processing sub-system receives said digital signal and processes it to extract the information component. A noise likelihood determination sub-system receives the digital signal and generates a random noise assessment that the digital signal comprises solely random noise, and controls the operation of the information processing sub-system in response to the random noise assessment.

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[52] U.S. Cl. **375/346; 455/63; 455/296**

[58] Field of Search **375/346, 351, 375/326; 455/218, 63, 67.3, 296, 222, 223**

[56] References Cited

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10 Claims, 6 Drawing Sheets

