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Yoshioka

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(54) **GAIN CONTROL CIRCUIT AND ULTRASONIC IMAGE DEVICE**
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(57) **ABSTRACT**
A gain control circuit includes: a voltage generation circuit that generates first voltage that is linearly changed over time; a voltage square circuit that outputs second voltage that is obtained by squaring the first voltage generated by the voltage generation circuit; a resistance circuit that has a resistance characteristic by which a resistance value is squared-changed over time depending on the second voltage output from the voltage square circuit; and a gain adjustment circuit in which gain is squared-changed over time depending on the resistance value of the resistance circuit.

6 Claims, 10 Drawing Sheets

