

ABSTRACT

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**AMPLIFIER CIRCUIT EMPLOYING
FLOATING ERROR CANCELLATION**

The present amplifier circuit employing floating error-cancellation technique eradicates errors and distortions by canceling them out at the speaker terminal. The circuit utilizes reference, main power, and error suspension amplifiers. The reference amplifier is a small signal amplifier with unity or near unity gain. The main function of the buffer amplifier is to provide a reference signal to be used to isolate the error signal. The main power amplifier is an inverting power amplifier without negative feedback, and whose main function is amplify the audio signal. The error suspension amplifier is a non-inverting power amplifier whose function is amplify the isolated error signal and provide an error potential to a speaker terminal so that the error can be canceled out at the speaker load.

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FIG. 1