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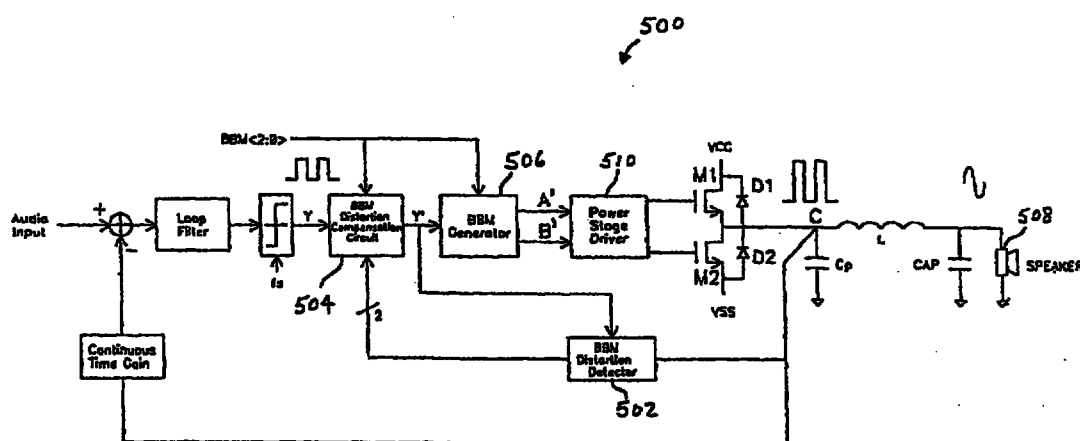
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- (71) Applicant: TRIPATH TECHNOLOGY, INC. [US/US];
Suite 200, 3900 Freedom Circle, Santa Clara, CA 95054 (US).
- (72) Inventors: MIAO, Guoqing; 529 W. Field Avenue,
Roselle Park, NJ 07204 (US). DELANO, Cary, L.; 1531
Fairway Green Circle, San Jose, CA 95131 (US).
- (74) Agent: VILLENEUVE, Joseph, M.; Beyer Weaver &
Thomas, LLP, P.O. Box 130, Mountain View, CA 94042-
0130 (US).
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(54) Title: BREAK-BEFORE-MAKE DISTORTION COMPENSATION FOR A DIGITAL AMPLIFIER



(57) Abstract: Methods and apparatus are described for reducing or eliminating break-before-make, i.e. dead time distortion, in switching amplifiers. A switching amplifier (M1, M2) has an input stage (510) for generating a switching signal. Break-before-make distortion compensation circuitry (504) alters the switching signal. Break-before-make generator circuitry (506) generates two drive signals from the altered switching signal. A power stage includes two switches (D1, D2) which are alternately driven by the two drive signals. Break-before-make distortion detection circuitry (502) detects a distortion pattern at the power stage output node and controls the break-before-make distortion compensation circuitry (504) to alter the switching signal in response to the distortion pattern detected to thereby eliminate at least some break-before-make distortion.

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