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(71) Applicant (for all designated States except US): **RGB SYSTEMS, INC.** [US/US]; 1230 South Lewis Street, Anaheim, CA 92805 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **MENDENHALL, Eric** [US/US]; 36 Wakonda Street, Dove Canyon, CA 92679-3709 (US).

(74) Agents: **HECKER, Gary, A.** et al.; The Hecker Law Group, PLC, 1925 Century Park East, Suite 2300, Los Angeles, CA 90067 (US).

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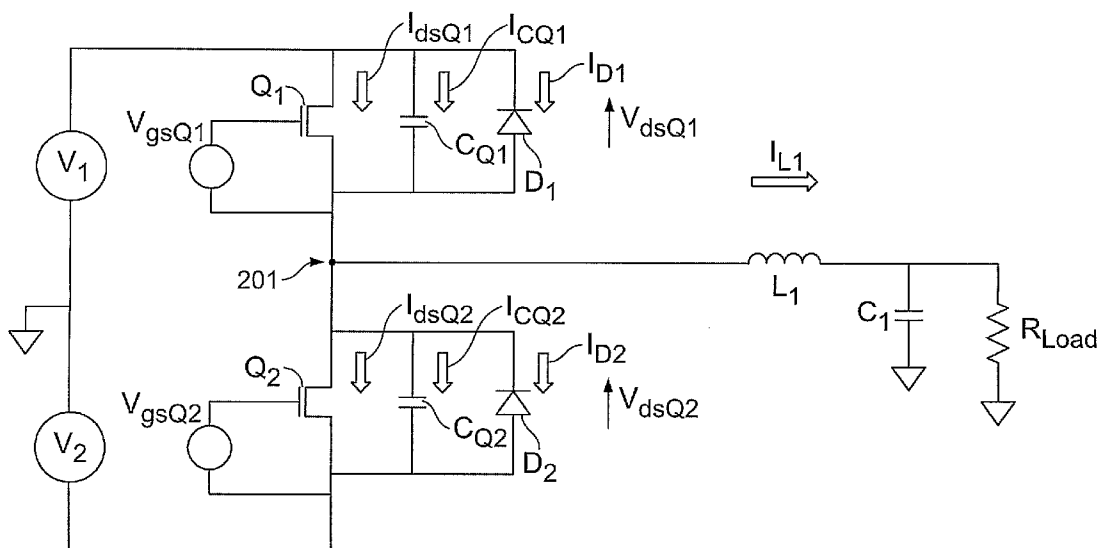
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(54) Title: METHOD AND APPARATUS FOR IMPLEMENTING SOFT SWITCHING IN A CLASS D AMPLIFIER



(57) Abstract: The present invention provides lossless switching by configuring the output inductor so that the ripple current amplitude at load conditions results in small negative current during switching. The reconfigured output inductor results in increased ripple current amplitude. This increased ripple amplitude may be further controlled using zero ripple steering techniques to eliminate ripple at the output capacitor. A ripple steering technique involves adding a secondary output to the class D amplifier which steers the switching ripple away from the main output thus substantially relieving the main output from a major artifact of prior art Class D amplifiers.

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