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Pulkin et al.

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(54) **STABLE LOW DROPOUT, LOW IMPEDANCE DRIVER FOR LINEAR REGULATORS**

(58) **Field of Search** 323/273, 274, 323/275, 276, 277

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(57) **ABSTRACT**

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A voltage regulator circuit that provides the current necessary to drive an output driver during transients and maintain low output impedance, while having a much better dropout voltage than a single source follower gain stage includes: an output driver 22; a source follower 34 for controlling the output driver; a localized feedback gain loop coupled to the source follower 34; and an amplifier 24 for controlling the source follower 34.

(65) **Prior Publication Data**

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323/277

14 Claims, 6 Drawing Sheets



