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(71) Applicant: SEAGATE TECHNOLOGY, INC. [US/US]; 920 Disc Drive, B15-7, Scotts Valley, CA 95066 (US).			
(71)(72) Applicant and Inventor: SRODZINSKI, David, N. [GB/GB], 5 Craiglockhart View, Craiglockhart, Edinburgh EH14 1BX (GB).			
(74) Agent: VIKSNINS, Ann, S.; Schwegman, Lundberg, Woessner & Kluth, P.O. Box 2938, Minneapolis, MN 55402 (US).			

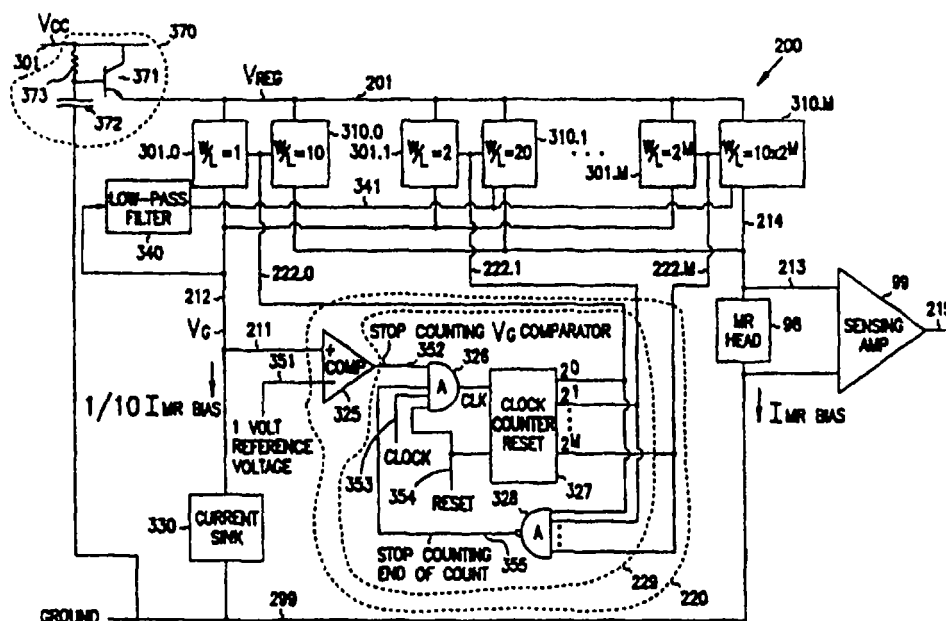


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(54) Title: ADAPTIVE LOW-NOISE CURRENT GENERATOR AND METHOD



(57) Abstract

A method and apparatus for generating low-noise current for a disc-drive head, and in one embodiment, for a magneto-resistive head (98). In one embodiment, an automatic-adjustment circuit (220) selectively disables selected pairs of current-mirror transistors (301 m, 310.m) to achieve a desired minimum effective width-to-length ratio of a field-effect transistor current mirror (210), in order to reduce device noise. In one embodiment, the current provides a constant current to a magneto-resistive head in a magnetic disc drive.

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