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(71) Applicant: **SEAGATE TECHNOLOGY LLC**, [US/US];
920 Disc Drive, Scotts Valley, CA 95066 (US).

(72) Inventors: **BONIN, Wayne**; 21 Black Oak Road, North
Oaks, MN 55127 (US). **BOUTAGHOU, Zine-Eddine**;
307 Lily Pond Lane, Vadnasi Heights, MN 55127 (US).

(74) Agent: **DIETZ, Paul, T.**; Seagate Technology LLC,
Intellectual Property Department, 7801 Computer Avenue
South, Bloomington, MN 55435 (US).

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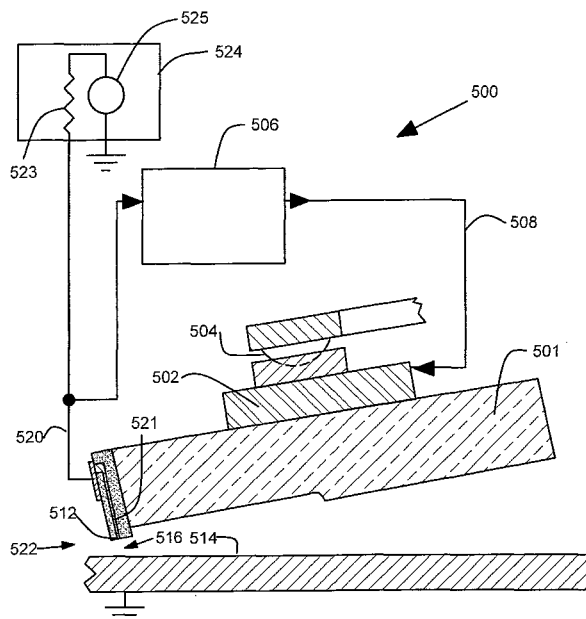
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(54) Title: INTEGRATED ELECTROSTATIC SLIDER FLY HEIGHT CONTROL



(57) Abstract: A disc drive (100) that includes a slider (300, 501) with a field emission sensor (312, 512) that senses fly height. The sensor (312, 512) has an electrode tip (302) disposed on the slider (300, 501). The electrode tip (302) faces a media surface (306) across a gap (316, 516). The sensor (312, 512) conducts a tunneling current through the gap and provides an output representing the length of the gap (316, 516). An actuator (330, 502) adjusts the fly height spacing. A feedback circuit (410, 420, 506, 1520) provides an actuator electrical input as a feedback function of the sensor output to control the fly height spacing.



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