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(21) International Application Number: PCT/US97/15537 (22) International Filing Date: 4 September 1997 (04.09.97) (30) Priority Data: 60/046,316 13 May 1997 (13.05.97) US (71) Applicant (for all designated States except US): SEAGATE TECHNOLOGY, INC. [US/US]; 920 Disc Drive, Scotts Valley, CA 95066 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): ^① MACKEN, Declan [IE/IE]; 57 College Glen, Derry BT48 8PX (GB). ^② JOHNSTON, Alan, B. [GB/GB]; 32 Waldemar Road, Knightswood, Glasgow G13 3LT (GB). (74) Agent: CHAMPLIN, Judson, K.; Westman, Champlin & Kelly, P.A., Suite 1600 - International Centre, 900 Second Avenue South, Minneapolis, MN 55402-3319 (US).		(81) Designated States: CN, DE, GB, JP, KR, SG, US. Published With international search report.
(54) Title: MAGNETORESISTIVE SENSOR WITH IMPROVED STABILITY (57) Abstract A transducer (56) in a magnetic storage device (10) includes an elongated magnetoresistive element (64) having an active region (65). First and second electrical contacts (66) couple to the elongated magnetoresistive element (64) on opposite sides of the active region (65). A bottom inductive write pole and shared shield (72) is positioned adjacent the elongated magnetoresistive element (64) and includes a body region (122) and a pole tip region (120) proximate the active region (65). The shared shield (72) includes a notch (124) defined between the pole tip region (120) and the body region (122) to thereby improve magnetic stability in the pole tip region (120). A top inductive write pole (79) is spaced apart from the bottom inductive write pole and shared shield (72) to form a magnetic gap with the pole tip region (120) for inductively writing information.		