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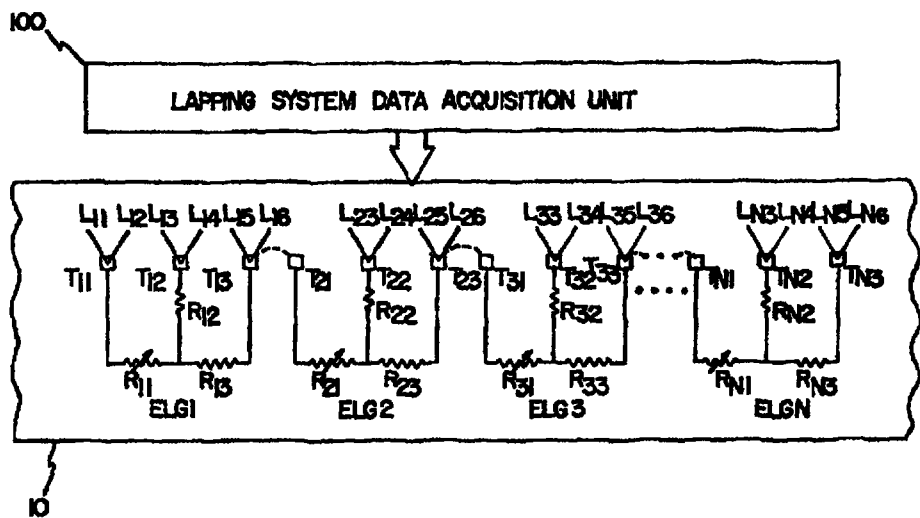
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International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : B24B 49/00, 51/00, 1/00		A1	(11) International Publication Number: WO 98/18596
			(43) International Publication Date: 7 May 1998 (07.05.98)
(21) International Application Number: PCT/US97/01324 (22) International Filing Date: 30 January 1997 (30.01.97) (30) Priority Data: 60/029,327 29 October 1996 (29.10.96) 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): HAO, Shanlin, X. [CN/US]; 1360 Terrace Drive #31, St. Paul, MN 55113 (US). STOVER, Lance, E. [US/US]; 16291 Hilltop Road, Eden Prairie, MN 55437 (US). KEEL, Beat, G. [US/US]; 6225-160th Street, Prior Lake, MN 55372 (US). (74) Agents: VELDHUIS-KROEZE, John, D.; Westman, Champlin & Kelly, P.A., International Centre, Suite 1600, 900 Second Avenue South, Minneapolis, MN 55402-3319 (US) et al.			(81) Designated States: DE, GB, JP, KR, SG, US. Published With international search report.

(54) Title: IMPROVED ELG WIRING CONFIGURATION



(57) Abstract

An electrical lap guide (ELG) system and method are disclosed for use in lapping a bar (10) of magnetic transducer carrying sliders to a desired transducer height. A first ELG (ELG1) contained within the bar has at least two first ELG resistive elements (R₁₁, R₁₂). A second ELG (ELG2) contained within the bar has at least two second ELG resistive elements (R₂₁, R₂₃). A first of the at least two first ELG resistive elements is electrically coupled to a first of the at least two second ELG resistive elements to thereby reduce a total number of leads needed between a data acquisition unit (100) and the bar (10) during lapping. The reduction in required data acquisition unit (100) leads (L) allows more ELGs to be included on each bar (10) in order to more accurately control the lapping process.