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(21) International Application Number: PCT/US97/02205 (22) International Filing Date: 12 February 1997 (12.02.97) (30) Priority Data: ① 60/035,011 / 15 January 1997 (15.01.97) / 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): WANG, Ling [CN/US]; 1062F - 27th Avenue S.E., Minneapolis, MN 55414 (US). ② CRANE, Peter [US/US]; 6729 Emerson Avenue South, Richfield, MN 55423 (US); ZHANG, Lei [CN/US]; Apartment 353B, 7330 Gallagher Drive, Edina, MN 55435 (US). (74) Agents: BRUSH, David, D.; Westman, Champlin & Kelly, P.A., Suite 1600, International Centre, 900 Second Avenue South, Minneapolis, MN 55402-3319 (US) et al.		(81) Designated States: CN, DE, GB, JP, KR, <u>SG</u> , US. Published With international search report. ✓ 1 PD 1 appl ⁿ . (there is an assignment) 3 INVS. IPC = G11B 17/32 G11B 21/21 IPR G11B 5/187 20/7/98

(54) Title: SLIDER HAVING TERMINATED SIDE RAILS WITH TRAILING EDGE CUTS**(57) Abstract**

A disc head slider (36) includes a slider body with leading, trailing, inside and outside slider edges (50, 52, 54, 56) and a slider center line (58) extending from the leading slider edge (50) to the trailing slider edge (52). First and second raised side rails (60, 62) are formed in the slider body and each include an inside rail edge (108), an outside rail edge (110), a leading rail edge (50) and a trailing rail edge (112). The first and second raised side rails (60, 62) form first and second bearing surfaces (70, 72), respectively, which terminate prior to the trailing slider edge (52). A raised center rail (64) extends along the slider center line (58) and between the first and second raised rails (60, 62). First and second cavities (80a, 80b) are positioned between the raised center rail (64) and the first and second raised rails (60, 62), respectively. The first and second bearing surfaces (70, 72) each include a leading section (100), a waist section (104), a leg section (102) which extends from the waist section (104) to the leading section (100), and a trailing section (106) which extends from the waist section (104) to the trailing rail edge (112). The trailing section (106) widens from the waist section (104) toward the trailing edge (112) and includes a notch (113) positioned along the inside rail edge (108) which narrows the trailing section (106) at the notch (113).

