

TPOS copy



PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : G11B 15/26, 15/675		A1	(11) International Publication Number: WO 95/34068
			(43) International Publication Date: 14 December 1995 (14.12.95)
(21) International Application Number: PCT/US95/07417 (22) International Filing Date: 9 June 1995 (09.06.95) (30) Priority Data: 08/257,737 9 June 1994 (09.06.94) US (71) Applicant: CONNER PERIPHERALS, INC. [US/US]; 3081 Zanker Road, San Jose, CA 95134-2128 (US). (72) Inventors: SPEARS, Jesse; 15 Sea Island Drive, Newport Beach, CA 92660 (US). NAYAK, Ashok; 250 Morgan Ranch Road, Glendora, CA 92660 (US). BOLT, Michael; Apartment A201, 2650 Harla Avenue, Costa Mesa, CA 92626 (US). (74) Agents: FLIESLER, Martin, C. et al.; Fliesler, Dubb, Meyer and Lovejoy, Suite 400, Four Embarcadero Center, San Francisco, CA 94111-4156 (US).			(81) Designated States: CA, CN, JP, MX, SG, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>

9612057-1

(54) Title: MECHANISM FOR MOVING A TAPE WITHIN A TAPE DRIVE

(57) Abstract

A tape drive having a novel capstan motor assembly for advancing and rewinding a data tape. The capstan motor assembly according to the present invention includes a motor, a gear assembly and an idler. The gear assembly has a driver gear and a driven gear for transmitting motor torque from the motor to the idler. A portion of the idler is in contact with a capstan belt wheel within the cartridge. The idler rotates the capstan belt wheel, which in turn moves the data tape past the recording area. The gear train allows the motor force to be transmitted to the capstan belt wheel without slippage between the drive roller and the idler normally occurring in conventional capstan motor assemblies.

