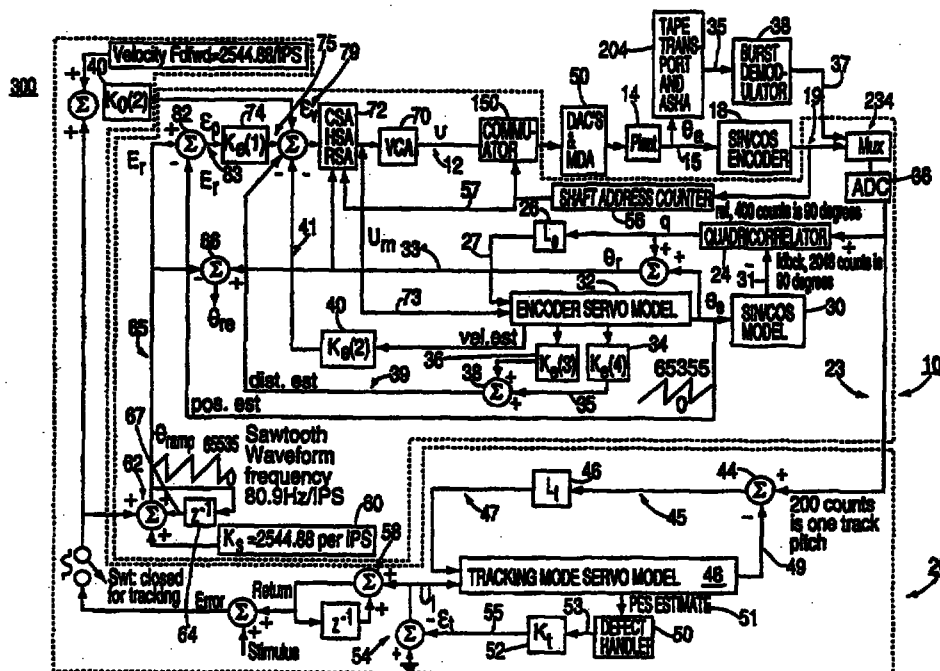


INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : H02P 5/00	A1	(11) International Publication Number: WO 96/15581 (43) International Publication Date: 23 May 1996 (23.05.96)
(21) International Application Number: PCT/US95/14649 (22) International Filing Date: 9 November 1995 (09.11.95) (30) Priority Data: 08/337,803 14 November 1994 (14.11.94) US (71) Applicant: CONNER PERIPHERALS, INC. [US/US]; 3081 Zanker Road, San Jose, CA 95134-2128 (US). (72) Inventor: LEWIS, Martyn, A.; 1135 Las Pulgas Place, Pacific Palisades, CA 90272 (US). (74) Agents: HELLER, Paul, H. et al.; Kenyon & Kenyon, One Broadway, New York, NY 10004 (US).		(81) Designated States: CA, CN, JP, KR, MX, <u>SG</u> European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). <i>RTMP copy</i> Published With international search report. { ①. PCT(A1) + SR ②. I PER ③. Replacement sheet 13-5-98

(54) Title: ECONOMICAL WIDE RANGE SPEED CONTROL SYSTEM



(57) Abstract

A speed control system is disclosed wherein a brushless DC motor and a magneto resistive encoder are able to rotate a motor at arbitrarily low speeds. The motor is able to rotate at low speeds by having a filtered signal generated by an encoder applied to its inputs. The encoder is coupled to a series of filters which remove DC level and harmonic distortions from the resulting encoder signal. These filtered signals are then applied to the motor to control motor rotation speed.