98C3165-8

IPOS

PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : G01D 5/34 | A1

(11) International Publication Number: WO 96/27118

(43) International Publication Date: 6 September 1996 (06.09.96)

(21) International Application Number: PCT/US96/02275

(22) International Filing Date: 27 February 1996 (27.02.96)

(30) Priority Data:
08/394,473 27 February 1995 (27.02.95) US
(withdrawn / not appl. ...)

(71) Applicant: OPTO GENERIC DEVICES, INC. [US/US]; Pumpkin Hook Road, P.O. Box OGD, Van Hornesville, NY 13475 (US).

(72) Inventor: DURHAM, Ormonde, G., III; RD #1, Box 123, Travis Road, Jordanville, NY 13361 (US).

(74) Agent: TRAPANI, Lawrence, P.; Trapani & Molldrem, Monroe Building, 2nd floor, 333 East Onondaga Street, Syracuse, NY 13202 (US).

(81) Designated States: BR, CA, CN, DE, GB, JP, KR, MX, RU, SE, SG, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).

Published
With international search report.

PP ... NO PD (withdrawn)
1 appl^n.
1 inv.

IIC : G01D 5/34
IPER
26/9/96

(54) Title: OPTICALLY PROGRAMMED ENCODER APPARATUS AND METHODS / Change title, see PE 23 of 2 NOV 98.

(57) Abstract

Optical encoder apparatus and methods are provided for converting the cyclic motion of an electro-mechanical machine, such as an electric motor, into at least one electrical signal having a predetermined waveform. The apparatus may include at least one photo-detector (26) which is responsive to at least one pattern of incident radiant energy; at least one photo-emitter (24) that emits a supply of radiant energy coupled to the photo-detector by an optical path; and an optically programmed system including an optical encoder disc (30) which contains at least one optically detectable graphical pattern (32) and a mask (36) containing at least one aperture (38) which permits the pattern of radiant energy to pass to the detector.

