



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification⁶:

G11B 15/12, 15/14, 33/00, 20/22, 20/24,
H01F 38/14, 38/18, G11B 5/02, H02J
9/06, H02M 7/00, H04L 7/00, G11B
5/035, 20/10, 27/036, 33/12

A1

(11) International Publication Number:

WO 96/15531

(43) International Publication Date:

23 May 1996 (23.05.96)

(21) International Application Number:

PCT/US95/14725

(22) International Filing Date:

9 November 1995 (09.11.95)

(30) Priority Data:

08/337,255

10 November 1994 (10.11.94)

US

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

Published

With international search report.

Before the expiration of the time limit for amending the
claims and to be republished in the event of the receipt of
amendments.

SG 9701956-b

R TM/1's copy

(54) Title: ARCuate SCAN READ/WRITE ASSEMBLY WITH ENCODED SIGNAL TRANSMISSION THROUGH A ROTARY TRANSFORMER

(57) Abstract

A circuit having a stationary portion and a rotating portion (100) comprises a stationary encoder (210, 220), a power supply (500), a rotary transformer comprising a stator (410) and a rotor (420), wherein the stationary encoder (210, 220) is coupled to the stator (410), a decoder (150) coupled to and rotating with the rotor (420), an amplifier (120, 130) coupled to the decoder (150), and coupled to the power supply via the rotating transformer, the amplifier (120, 130) rotating with the decoder (150) and the rotor (420), and at least one read/write head (110-117), coupled to the amplifier, preferable in an arcuate scan read/write assembly.

