US005250888A

United States Patent [19]

Yu

[11] Patent Number: 5,250,888

[45] Date of Patent: Oct. 5, 1993

[54] APPARATUS FOR AND PROCESS OF ROTATING A DISPLAY

[75] Inventor: Hang du Yu, Kyunggi, Rep. of Korea

[73] Assignee: Samsung Electronics Co., Ltd., Rep. of Korea

[21] Appl. No.: 829,774

[22] Filed: Jan. 31, 1992

[30] Foreign Application Priority Data

Jan. 31, 1991 [KR] Rep. of Korea 91-1694

[51] Int. Cl.[5] G05B 1/04

[52] U.S. Cl. 318/640; 318/467; 248/919

[58] Field of Search 318/445-446, 318/460, 466-470, 640, 663; 248/919, 346

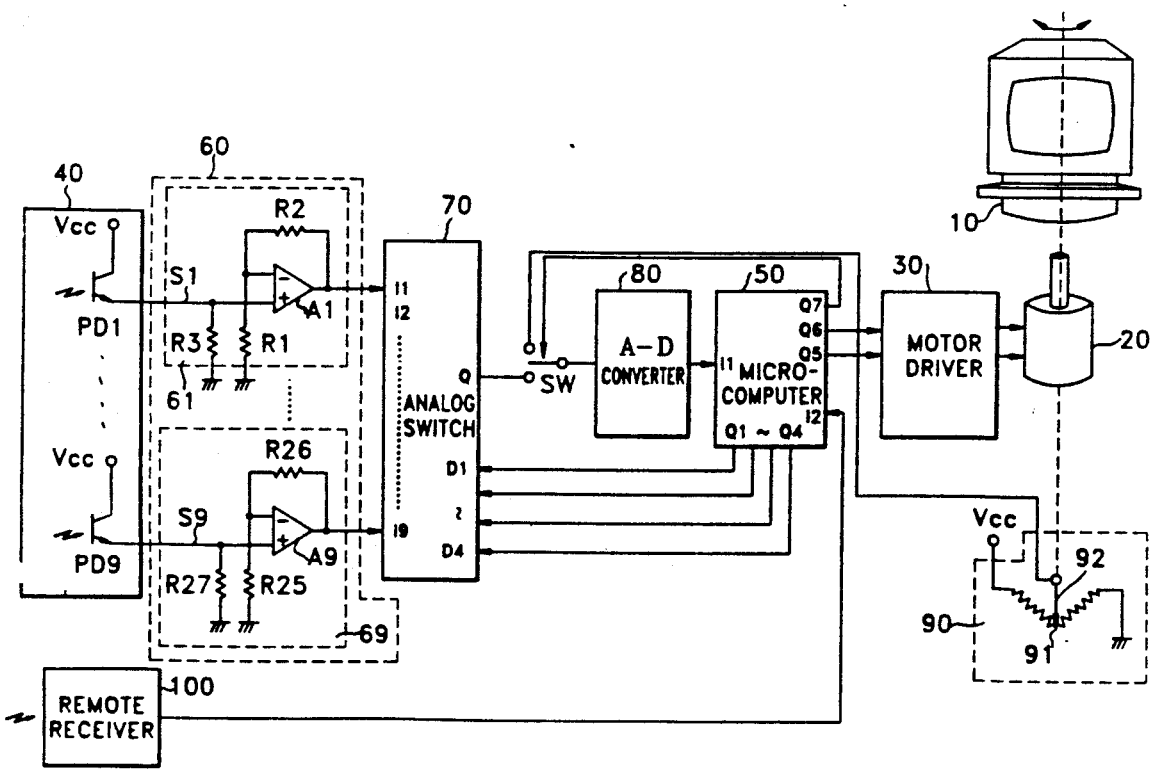
[56] References Cited

U.S. PATENT DOCUMENTS

4,591,773 5/1986 Numata 318/663
4,703,240 10/1987 Yoshimoto et al. 318/640
4,905,315 2/1990 Solari et al. ..... 318/480 X
4,920,458 4/1990 Jones ..... 248/919 X
4,933,618 6/1990 Ortlieb 318/640
4,964,606 10/1990 Beam et al. ..... 248/919 X

Primary Examiner—William M. Shoop, Jr.
Assistant Examiner—Brian Sircus
Attorney, Agent, or Firm—Sughrue, Mion, Zinn, Macpeak & Seas

[57] ABSTRACT

An apparatus for and process of rotating a display adapted to an image display apparatus so that it automatically rotates the screen to face a viewer. For this operation, the apparatus includes a turntable for supporting the display, turntable driving mechanism for rotating the turntable throughout a predetermined angle, a position meter for outputting a voltage corresponding to the rotation angle of the turntable, an optical sensor for detecting the incident direction of a remote control optical signal, and a controller for controlling the turntable driving mechanism by determining the amount and direction of rotation of the turntable in accordance with the outputs of the optical sensor and position meter.

9 Claims, 4 Drawing Sheets