

4309640

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Whereas, THERE HAS BEEN PRESENTED TO THE
Commissioner of Patents and Trademarks

A PETITION PRAYING FOR THE GRANT OF LETTERS PATENT FOR AN ALLEGED NEW AND USEFUL INVENTION THE TITLE AND DESCRIPTION OF WHICH ARE CONTAINED IN THE SPECIFICATION OF WHICH A COPY IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PATENT AND TRADEMARK OFFICE IN THE CLAIMANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID CLAIMANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A PATENT UNDER THE LAW.

NOW, THEREFORE, THESE Letters Patent ARE TO GRANT UNTO THE SAID CLAIMANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID CLAIMANT(S) FOR THE TERM OF SEVENTEEN YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF ISSUE FEES AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM MAKING, USING OR SELLING THE SAID INVENTION THROUGHOUT THE UNITED STATES.

In testimony whereof I have hereunto set my hand and caused the seal of the Patent and Trademark Office to be affixed at the City of Washington this fifth day of January in the year of our Lord one thousand nine hundred and eighty-two, and of the Independence of the United States of America the two hundred and sixth.



Ruth C. Mason
Attesting Officer.

James W. Moushlagh
Commissioner of Patents and Trademarks.

United States Patent [11] **4,309,640**
Gordon [45] **Jan. 5, 1982**

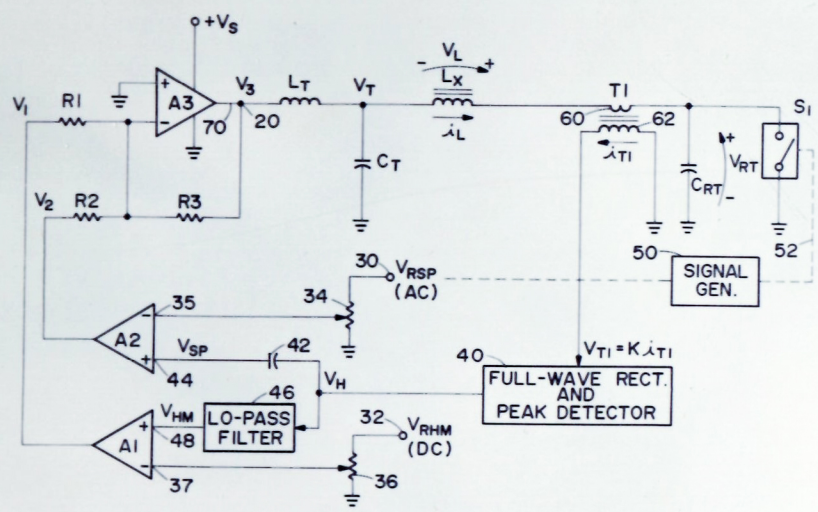
[54] **CIRCUIT AND METHOD FOR CORRECTING SIDE PINCUSHION DISTORTION AND REGULATING PICTURE WIDTH** 4,129,807 12/1978 Infante 315/399 X
4,184,104 1/1980 Shouse, Jr. 315/371
4,243,918 1/1981 Meise 315/389

[75] Inventor: Samuel Y. Gordon, Tualatin, Oreg.
[73] Assignee: Tektronix, Inc., Beaverton, Oreg.
[21] Appl. No.: 115,523
[22] Filed: Jan. 25, 1980
[51] Int. Cl.³ H01J 29/70
[52] U.S. Cl. 315/371; 315/389
[58] Field of Search 315/371, 370 (U.S. only),
315/387, 389

[57] **ABSTRACT**
A circuit within a cathode-ray tube electromagnetic deflection system for correcting side pincushion distortion and regulating picture width independent of changes in the video line rate. The circuit employs a predistorted AC reference signal and a second DC reference signal in a closed-loop manner to cause a deflection current to describe precisely an ideal waveform defining simultaneously both pincushion correction and picture width regulation.

References Cited
U.S. PATENT DOCUMENTS
3,432,719 3/1969 Strachanow 315/370
3,649,870 3/1972 Maulsby 315/371
4,039,899 8/1977 Battjes et al. 315/371

10 Claims, 4 Drawing Figures



Presented to
Samuel Y. Gordon
by Tektronix, Inc.
1984
First Tektronix Patent