



6325 HUNTLEY ROAD WORTHINGTON, OHIO 43085

H.P. BOVENKERK MANAGER-RESEARCH SPECIALTY MATERIALS DEPARTMENT

1-614-438-2000

December 9, 1987

talked to Hatt about 40 minutes

on phone Dec 16. Dr. H. T. Hall 1711 N. Lambert Lane Provo, Utah 84604

Dear Tracy:

Enclosed are the originals of some of the patents where you were the inventor.

You and your family may find them interesting momentos of your scientific achievements.

Best wishes for the holiday season and the new year.

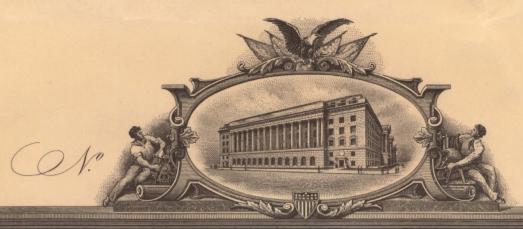
Very truly yours,

Stal H. P. Bovenkerk

HPB:sdb

Enc.

Walt Robb has replaced Roland Schmidt and as director of research 4E Schenectody labs.



2,728,651

# THE UNIVERS OF AMERICA

TO AGE TO WHOM THESE: PRESENTS SHALL COME?

Thereas Howard T. Hall, of Colonie, New York, assignor to General Electric Company, a corporation of New York,

PRESENTED TO THE COMMISSIONER OF PATENTS A PETITION PRAYING FOR THE GRANT OF LETTERS PATENT FOR AN ALLEGED NEW AND USEFUL INVENTION THE TITLE AND A DESCRIPTION OF WHICH ARE CONTAINED IN THE SPECIFICATION OF WHICH A COPY IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND COMPLIED WITH THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED, AND

ADJUDGED TO BE JUSTLY ENTITLED TO A PATENT UNDER THE LAW.

Now therefore these Letters Patent are to grant unto the said

General Electric Company, its successors

OR ASSIGNS

FOR THE TERM OF SEVENTEEN YEARS FROM THE DATE OF THIS GRANT

RIGHT TO EXCLUDE OTHERS FROM MAKING, USING OR SELLING THE SAID INVEN-PROUGHOUT THE UNITED STATES.

Intestimony whereof Thave hereunto set my hand and caused the seal of the Satent Office to be affixed at the City of Washington this twenty-seventh day of December, the year of our Lord one thousand nine hundred and fifty-five, and of the Independence of the United States of America the one hundred and eightieth.

Attest:

and H. Ayline. Attesting Officer.

Robert Charte.



2,941,250

## THE BOUNDARY CANNES CHARLES COANTER CAN

TO ALL TO WHOM THESE PRESENTS SHALL COME?

Howard Tracy Hall, of Niskayuna, New York, assignor to General Electric Company, a corporation of New York,

PRESENTED TO THE COMMISSIONER OF PATCHTS A PETITION PRAYING FOR THE GRANT OF LETTERS PATCHT FOR AN ALLEGED NEW AND USEFUL INVENTION THE TITLE AND A DESCRIPTION OF WHICH ARE CONTAINED IN THE SPECIFICATION OF WHICH A COPY IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND COMPLIED WITH THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED, AND

ADJUDGED TO BE JUSTLY ENTITLED TO A PATENT UNDER THE LAW.

Now therefore these Letters Patent are to grant unto the said

General Electric Company, its successors

OR ASSIGNS

FOR THE TERM OF SEVENTEEN YEARS FROM THE DATE OF THIS GRANT

HE RIGHT TO EXCLUDE OTHERS FROM MAKING, USING OR SELLING THE SAID INVEN-N THROUGHOUT THE UNITED STATES.

Intestimony whereof Thave hereunto set my hand and caused the seal of the Satent Office to be affixed at the City of Washington this twenty-first day of June, in the year of our Lord one thousand nine hundred and sixty, and of the Independence of the United States of America the one hundred and eighty-fourth.

Attesting Officer.

Commissioner of Patents.



2,944,289

TO ALL TO WHOM THESE PRESENTS SHALL COME?

Riferens Howard Tracy Hall, of Niskayuna, New York, assignor to General Electric Company, a corporation of New York,

PRESENTED TO THE COmmissioner of Patents a petition praying for THE GRANT OF LETTERS PATENT FOR AN ALLEGED NEW AND USEFUL INVENTION THE TITLE AND A DESCRIPTION OF WHICH ARE CONTAINED IN THE SPECIFICATION OF WHICH A COPY IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND COMPLIED WITH THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED, AND

Whetens upon due examination made the said Claimant ADJUDGED TO BE JUSTLY ENTITLED TO A PATENT UNDER THE LAW.

Now therefore these Letters Patent are to grant unto the said

General Electric Company, its successors

OR ASSIGNS

FOR THE TERM OF SEVENTEEN YEARS FROM THE DATE OF THIS GRANT

RIGHT TO EXCLUDE OTHERS FROM MAKING, USING OR SELLING THE SAID INVEN-THROUGHOUT THE UNITED STATES.

> In testimony whereof Thave hereunto set my hand and caused the seal of the Patent Office tobe affixed at the City of Washington this twelfth day of July, in the year of our Lord one thousand nine hundred and sixty, Independence of the United States of America one hundred and eighty-fifth.

Attesting Officer.



2,947,608

## THE UNIVERS OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Thereas Howard Tracy Hall, of Schenectady, New York, assignor to General Electric Company, a corporation of New York,

PRESENTED TO THE COMMISSIONEP OF PATENTS A PETITION PRAYING FOR THE GRANT OF LETTERS PATENT FOR AN ALLEGED NEW AND USEFUL INVENTION THE TITLE AND A DESCRIPTION OF WHICH ARE CONTAINED IN THE SPECIFICATION OF WHICH A COPY IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND COMPLIED WITH THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED, AND

ADJUDGED TO BE JUSTLY ENTITLED TO A PATENT UNDER THE LAW.

Now therefore these Letters Patent are to grant unto the said

General Electric Company, its successors

OR ASSIGNS

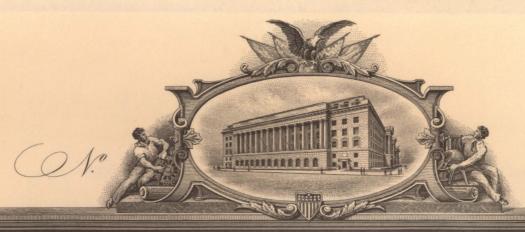
FOR THE TERM OF SEVENTEEN YEARS FROM THE DATE OF THIS GRANT

TE RIGHT TO EXCLUDE OTHERS FROM MAKING, USING OR SELLING THE SAID INVEN-

Intestimony whereof Thave hereunto set my hand and caused the seal of the Entent Office to be affixed at the City of Washington this second day of August, in the year of our Lord one thousand nine hundred and sixty, and of the Independence of the United States of America the one hundred and eighty-fifth.

Altesting Officer.

Robert Charte



2,941,242

## THER UNIVERS STAVES OF ANOBRICA

TO ALL TO WHOM THESE PRESENTS SHALL COME?

Howard Tracy Hall, of Niskayuna, New York, assignor to General Electric Company, a corporation of New York,

PRESENTED TO THE COMMISSIONOR OF PARTONS A PETITION PRAYING FOR THE GRANT OF LETTERS PATENT FOR AN ALLEGED NEW AND USEFUL INVENTION THE TITLE AND A DESCRIPTION OF WHICH ARE CONTAINED IN THE SPECIFICATION OF WHICH A COPY IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND COMPLIED WITH THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED, AND

ADJUDGED TO BE JUSTLY ENTITLED TO A PATENT UNDER THE LAW.

Now therefore these Letters Patent are to grant unto the said

General Electric Company, its successors

OR ASSIGNS

FOR THE TERM OF SEVENTEEN YEARS FROM THE DATE OF THIS GRANT

RIGHT TO EXCLUDE OTHERS FROM MAKING, USING OR SELLING THE SAID INVEN-THROUGHOUT THE UNITED STATES.

Intestimony whereof Thave hereunto set my hand and caused the seal of the Satent Office to be affixed at the City of Washington this twenty-first day of June, in the year of our Lord one thousand nine hundred and sixty, and of the Independence of the United States of America we one hundred and eighty-fourth.

Attest:

Attesting Officer.

Robert Charter