

VAWTER

June 20—Johnnie Callahan of Verdala visited his sister, Mrs. Roy Burt, and their old friends the fore part of this week.

Jim Hurley, a former resident here, and now located at Bandett, was visiting at the A. C. Swanson home over last Sunday, also renewing old acquaintances.

Mr. and Mrs. Ed. Trygstead of Clarissa, was calling on old neighbors last Sunday. Miss Trygstead of Little Falls accompanied them.

chased a team of heavy draft horses. Miss Nettie Bradley of Little Falls visited last Friday afternoon at the F. M. Borman home. Mr. and Mrs. George Bradley and daughters Hettie and Lola came down in the car and she returned home with them.

Mr. and Mrs. Frank Pedley and son Walter and Miss Lavina Borman went to Shaminew lake last Sunday on a fishing trip.

Mr. and Mrs. Wm. Bennowitz and children and Mr. and Mrs. F. M. Borman visited last Sunday at the John Bloom home.

Mr. and Mrs. Will Burt, Mr. and Mrs. Bill Duer, Mrs. Mabel Anderson and Halmer Trygstead and Miss Millie Burt came down from Lincoln last Sunday to take in the ball game and visit at the home of Roy Burt, also visiting old friends.

There was a ball game here last Sunday between a local pick-up team and the Genoa base ball club. It was one-sided affair, as the locals were unable to put up much of a game.

We will not mention the score. Mose Holverson who is in a hospital at Little Falls and has been for some time, is reported as being somewhat improved. His many friends will be glad to hear.

Miss Lucile Kessler of Royaltown called last Friday afternoon at the F. M. Borman home, on route one from Royaltown.

Mrs. Ann Kellogg of Royaltown is carrying mail out on route one from Royaltown.

Mr. and Mrs. Nick Wolak, Mr. and Mrs. Anton Fussy and family and Mr. and Mrs. Dan Fussy attended a birthday party at Holdingford last Tuesday, it being the 75th birthday of Mrs. Wolak and Mrs. Anton Fussy's father.

FAWDALE

June 20—Miss Rose Ohotto spent last week at the home of her sister, Mrs. Frank Rossa of Swanville.

John Schneider, of Swanville, was a visitor here Tuesday.

Frank Madison and son Fred of Swan River motored to this place Thursday afternoon.

There will be no services at St. Edward's church in Fawcaldale June 25. Rev. Wroble will go to St. Cloud.

Thos. Kuklock of Opole was a visitor at the A. J. Rossa home the last of the week.

Martin and Joseph Casey visited relatives in Swan River the first of the week.

Andrew Bosell is employed at S. P. Carlson's in Elmdale, doing carpenter work.

J. H. Van Loan and Marian Roberts of Little Falls furnished Anton Rossa's barn and Joseph Nevoleska's house and barn with lightning rods last week.

The Misses Regina and Katherine Rossa spent Wednesday with Mrs. H. M. Linney.

Mr. and Mrs. Emil Peterson and children of Swanville were Sunday visitors at the home of Mr. and Mrs. Andrew Bosell.

Mr. and Mrs. John Stiller and children, Stephen Cichon and Mr. and Mrs. Valente Cichon and son Walter went to St. Wendel Thursday to attend the funeral of Mr. Stiller's brother, Thomas Stiller.

Mr. and Mrs. Frank Plontek and children spent Saturday evening at the Frank Rossa home in Swanville.

L. P. Andersen drove to Bowls Wednesday to get cement.

H. P. Rasmussen has purchased a new automobile.

Miss Norma Bosell entertained a number of her little friends Sunday. The occasion was in honor of her birthday anniversary.

Mr. and Mrs. Frank Rossa and children, Mrs. Mary Rossa and Anton Rossa motored to Opole Sunday for a visit with relatives.

Byron Boyd of Todd county was here Tuesday taking orders for a Fairbault Nursery company.

Mr. and Mrs. George Szeizek and children of St. Cloud visited at the home of Mrs. Szeizek, parents, Mr. and Mrs. Paul Kulla, Sunday.

The road work on the county road at a stand still at present, waiting for the grading that is to be done with the town grader. It is hoped this will be done in the near future.

Wm. J. Casey of Walker spent last week with relatives in this vicinity.

P. Anderson preparing to have cement porches built on his residence.

Time's Changes

Cupid used to be a fat little cherub with wings, but now he's a rotter little gold-digger with a pick and spade.



BIG EXPENSIVE MACHINERY

need not lie idle while you are waiting for some small part to come to make it workable. Why all that delay and loss when our welding will in a short time fix up the trouble and you can have your plant in full operation with little delay?

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E. A. BERG & CO.

FORD AND FORDSON DEALERS

Little Falls, Minn.

RADIO

THIRD ELEMENT IN THE VACUUM TUBE

Grid Added to Fleming Valve by Dr. Lee DeForest Was a Big Improvement.

Any device which will pass electricity in one direction and will wholly or partially obstruct the flow in the opposite direction is termed a rectifier, because when connected in the path of an alternating current it will suppress one-half of each cycle and thereby the circuit will be traversed by pulsating direct current. A rectifier also is said to possess unidirectional conductivity, meaning, of course, that it will conduct electricity in one direction only.

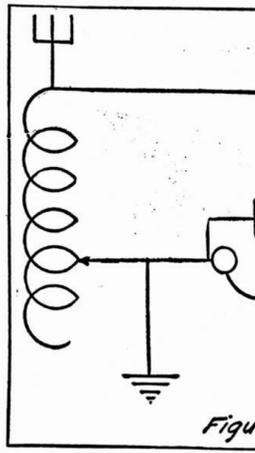


Figure VI

rection only. Its ability to rectify currents of extremely high frequency determines its application in radio.

Due to its ability to rectify high frequency alternating currents the two-element (filament and plate) vacuum tube can be used in a radio receiver as a detector.

Fig. VI is a simple radio receiving circuit employing this type of two-element vacuum tube in place of a crystal detector.

Dr. J. A. Fleming of London, England, was the first to use a two-element tube of the type just described as a medium of rectifying high frequency radio currents. Fleming called his product a valve because it would let current flow in one direction but not in the other direction. The Fleming valve was a forerunner of the vacuum tube of today.

marked a very important step in the progress of the radio art. The Fleming valve, however, in its original form was not much better than other forms of rectifiers then in use, and, owing to the greater ruggedness and ease of manipulation of the latter, did not come into general use as a detector.

Dr. Lee DeForest, an American, greatly improved the Fleming valve by adding a third electrode called the grid, which served the function of a control element and thus made it possible to utilize the feeble incoming signal currents to control more powerful local currents. The three-electrode vacuum tube of DeForest is the tube used so extensively today.

The third element which is called a grid and from which the three-electrode vacuum tube derives its name was placed by DeForest between the filament and the plate in the path of the electrons. The grid is a perforated plate or mesh of fine wire through the openings of which the electrons must pass in their journey from the filament to the plate.

Fig. VII is a diagrammatical sketch of the circuits of a three-electrode vacuum tube and is identical to the same as the sketch in Fig. III for a two-element vacuum tube with the ad-

dition of the grid circuit I-J-K-L. The battery in the grid circuit is called the "C" battery.

As a start let us suppose that "C" battery voltage is zero. The operation of the three-electrode tube would then be exactly like that of a two-electrode tube, just as though there were no grid. Like a two-electrode tube when the filament C-D is brought to incandescence by the "A" battery a steady stream of electrons will be given off, which will be drawn over to the plate E. Plate E is maintained at a positive potential with respect to the filament by the "B" battery.

Now if the grid is made positive with respect to the filament, it is possible to accelerate the flow of the electron stream from the filament to the plate; if the grid is made negative with respect to the filament, the flow of the electron stream from the filament to the plate will be retarded. Or in other words, by making the grid positive or negative with respect to the filament, it is possible to increase or counteract the space charge. The third electrode or grid thus offers a means of controlling the current in the

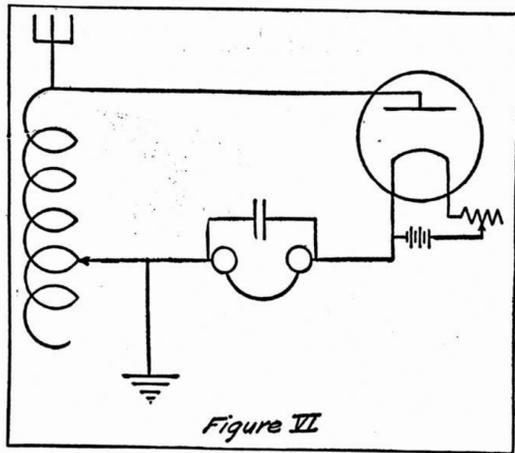


Figure VII

plate circuit without changing the plate potential or the filament temperature.

The characteristic curve of a three electrode vacuum tube is shown in Fig. VIII. This diagram shows the relation of grid potential to plate current, assuming that the filament temperature and plate voltage remain constant.

It can be seen from the curve that by applying a negative potential of value E to the grid, the plate current can be reduced to zero. The negative charge on the grid will have the effect of a negative potential E with respect to the filament, making the negative charge so strong around the filament that the electrons cannot leave it. On the other hand, if a positive potential of value F, is applied

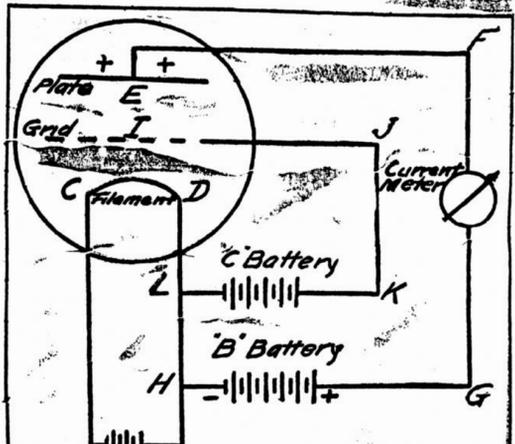


Figure VIII

to the grid with respect to the filament, the maximum or saturation current will flow in the plate circuit. Applying a greater positive potential than F to the grid with respect to the filament will not cause an increase in the

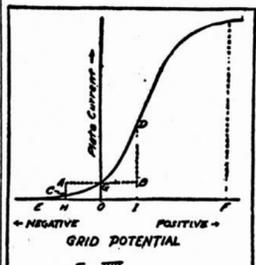


Fig. IX

plate current because the electrons given off are being attracted to the plate and grid.

When the grid is maintained positive with respect to the filament a small current will flow in the grid circuit. Because of its being positive it will attract the electrons and have a charge given up to it by them.

WEST DARLING

June 15—West Darling too late for last week.

George Calhoun of Randall was buying cattle in this vicinity last week.

Mr. and Mrs. Clifford Perry and Miss Sadie St. Onge of Little Falls and Clifford and Dorothy McCarty of Darling spent a four days' outing at Fish Trap lake last week. They caught quite a few fish.

The treasurer of the "trading club" has again taken his office, as the club is collecting quite a bit of money.

Harvey Cyrus has been painting Adelle Allard's building.

Darling pretty quick, as news is getting scarce.

Ed. Youngdale is building a new barn.

Albert Olson is employed at the Swanson home.

Raisin Creams.

Chop needed raisins very fine and work into them a scant third of their weight in granulated sugar, using a few drops of strained honey to hold together. Mould into any desired shape and dip into melted unwaxed chocolate. Lay well apart on waxed paper until quite cold and firm.

Don't Fill It

A hot-water bottle should never be really filled. If it is to be put in a bed to warm it have it only about three-quarters full.

State of Minnesota.)

County of Morrison.)

Seventh Judicial District.

Thomas J. Mathieson, also written T. J. Mathieson, Plaintiff.

vs.

Nicholas Potziesse, unknown heirs of Nicholas Potziesse, deceased, Nicholas Potziesse, unknown heirs of Nicholas Potziesse, deceased, Giesbert Potziesse, unknown heirs of Giesbert Potziesse, deceased, Charles Potziesse, deceased, Charles Potziesse, also all other persons or parties, unknown claiming any right, title, interest or lien in the real estate described in the complaint herein.

Defendants.

THE STATE OF MINNESOTA TO THE ABOVE NAMED DEFENDANTS

You, and each of you, are hereby summoned and required to answer the complaint of the Plaintiff in the above entitled action, which complaint is filed in the office of the Clerk of the above Court at his office in the court house in the city of Little Falls and to serve a copy of your answer to the said complaint on the subscriber at the office in the City of Little Falls, in said county, within twenty days after the service of this summons upon you, exclusive of the day of such service; and if you fail to answer the said complaint within the time aforesaid the plaintiff in this action will apply to the Court for the relief demanded in the complaint.

Dated June 16th, 1922.

E. P. ADAMS, Attorney for Plaintiff, First National Bank Building, Little Falls, Minnesota.

State of Minnesota.)

County of Morrison.)

Seventh Judicial District.

Thomas J. Mathieson, also written T. J. Mathieson, Plaintiff.

vs.

Nicholas Potziesse, unknown heirs of Nicholas Potziesse, deceased, Nicholas Potziesse, unknown heirs of Nicholas Potziesse, deceased, Giesbert Potziesse, unknown heirs of Giesbert Potziesse, deceased, Charles Potziesse, deceased, Charles Potziesse, also all other persons or parties, unknown claiming any right, title, interest or lien in the real estate described in the complaint herein.

Defendants.

Notice is hereby given that an action has been commenced in this court by the above named plaintiff against the above named defendants, the object of which is to obtain a judgment that said plaintiff is the owner in fee simple of the following described property, and that defendants, and each of them has no right, title, estate, interest or lien in or to said property or any thereof; said property being situated in the county of Morrison and State of Minnesota, described as follows, to-wit:

The Northwest Quarter of the Northeast Quarter (SW 1/4 of NE 1/4) all in Section Nine (9), Township thirty-nine (39), Range Thirty-two (32).

Dated June 16th, 1922.

E. P. ADAMS, Attorney for Plaintiff, First National Bank Building, Little Falls, Minn.

17-19

CITATION FOR HEARING ON PETITION FOR ADMINISTRATION

ESTATE OF MARIA WUELLNER, ALSO KNOWN AS MRS. HENRY WUELLNER

State of Minnesota.)

County of Morrison.)

In Probate Court.

In the Matter of the Estate of Maria Wuellner, also known as Mrs. Henry Wuellner, Decedent.

The State of Minnesota to all persons interested in the mortgaging of certain lands belonging to said decedent: The petition of Charles Wuellner, having been filed in this Court, reciting that Maria Wuellner, also known as Mrs. Henry Wuellner, then a resident of the County of Morrison, State of Minnesota, died intestate on the 12th day of May 1922, and praying that letters of administration of her estate be granted to Charles Wuellner, and the Court, having fixed the time and place for hearing said petition.

Therefore, You and Each of You are hereby cited and required to show cause, if any you have, before this Court at the Probate Court Rooms in the Court House, in the City of Little Falls, in the County of Morrison, State of Minnesota, on the 8th day of July 1922, at 10 o'clock A. M., why said petition should not be granted.

Witness, the Judge of said Court, and the Seal of said Court, this 9th day of June, 1922.

(Seal) C. W. KEMP, Judge of Probate.

N. N. BERGHEIM, Attorney for Petitioner, Little Falls, Minnesota. 16-18

CITATION FOR HEARING ON PETITION FOR PROBATE OF WILL

ESTATE OF JOHN BECKMAN

State of Minnesota.)

County of Morrison.)

In Probate Court.

In the Matter of the Estate of John Beckman, Decedent.

The State of Minnesota to all persons interested in the allowance and probate of the will of said decedent: The petition of Andrew Olson, being duly filed in this Court, reciting that John Beckman, then a resident of the County of Morrison, State of Minnesota, died on the 9th day of June 1922, and praying that the will of said decedent, which is presented to this Court with said petition, and praying that said will be allowed as the last Will and Testament of said decedent, and that letters testamentary be issued thereon to Andrew Olson.

Therefore, You and Each of You are hereby cited and required to show cause, if any you have, before this Court, at the Probate Court Rooms, in the Court House, in the City of Little Falls, in the County of Morrison, State of Minnesota, on the 8th day of July, 1922, at 10 o'clock A. M., why the prayer of said petition should not be granted.

Witness the Honorable C. W. Kemp, Judge of said Court, and the Seal of said Court, this 14th day of June, 1922.

(Seal) C. W. KEMP, Judge.

N. N. BERGHEIM, Attorney for Petitioner, Little Falls, Minn. 16-18

CITATION FOR HEARING ON FINAL ACCOUNT FOR DISTRIBUTION

ESTATE OF JOSEPH GELLINAS, ALSO KNOWN AS JOSEPH GELLINA, DECEDENT

State of Minnesota.)

County of Morrison.)

In Probate Court.

In the Matter of the Estate of John Beckman, Decedent.

The State of Minnesota to all persons interested in the allowance and probate of the will of said decedent: The petition of Andrew Olson, being duly filed in this Court, reciting that John Beckman, then a resident of the County of Morrison, State of Minnesota, died on the 9th day of June 1922, and praying that the will of said decedent, which is presented to this Court with said petition, and praying that said will be allowed as the last Will and Testament of said decedent, and that letters testamentary be issued thereon to Andrew Olson.

Therefore, You and Each of You are hereby cited and required to show cause, if any you have, before this Court, at the Probate Court Rooms, in the Court House, in the City of Little Falls, in the County of Morrison, State of Minnesota, on the 8th day of July, 1922, at 10 o'clock A. M., why the prayer of said petition should not be granted.

Witness the Honorable C. W. Kemp, Judge of said Court, and the Seal of said Court, this 14th day of June, 1922.

(Seal) C. W. KEMP, Judge.

N. N. BERGHEIM, Attorney for Petitioner, Little Falls, Minn. 16-18

CITATION FOR HEARING ON FINAL ACCOUNT FOR DISTRIBUTION

ESTATE OF JOHN SCHULTE, DECEDENT

State of Minnesota.)

County of Morrison.)

In Probate Court.

In the Matter of the Estate of John Schulte, Decedent.

The State of Minnesota to all persons interested in the granting of administration of the estate of said decedent: The petition of Mary Krause, being duly filed in this Court, reciting that John Schulte, then a resident of the County of Morrison, State of Minnesota, died intestate on the 20th day of June, 1921, and praying that letters of administration of his estate be granted to Mary Krause, and the Court, having fixed the time and place for hearing said petition.

Therefore, You and Each of You are hereby cited and required to show cause, if any you have, before this Court at the Probate Court Rooms in the Court House, in the City of Little Falls, in the County of Morrison, State of Minnesota, on the 5th day of July, 1922, at 10 o'clock A. M., why said petition should not be granted.

Witness, the Judge of said Court, and the Seal of said Court, this 7th day of June, 1922.

(Seal) C. W. KEMP, Judge of Probate.

S. C. & L. V. VASALY, Attorneys for Petitioner, Vasily Building, Little Falls, Minn. 15-17

CITATION FOR HEARING ON FINAL ACCOUNT AND FOR DISTRIBUTION

ESTATE OF FREDERICKA ROTH

State of Minnesota.)

County of Morrison.)

In Probate Court.

In the Matter of the Estate of Fredericka Roth, Decedent.

The State of Minnesota to all persons interested in the final account and distribution of the estate of said decedent: The representative of the above named decedent, having filed in this Court his final account of the administration of the estate of said decedent, together with his petition praying for the adjustment and allowance of said final account and for distribution of the residue of said estate to the persons hereunto entitled.

Therefore, You and Each of You, are hereby cited and required to show cause, if any you have, before this Court at the Probate Court Rooms in the Court House, in the City of Little Falls, in the County of Morrison, State of Minnesota, on the 5th day of July, 1922, at 10 o'clock A. M., why said petition should not be granted.

Witness, the Judge of said Court, and the Seal of said Court, this 6th day of June, 1922.

(Seal) C. W. KEMP, Judge of Probate.

C. ROSENMEIER, Attorney for Petitioner, American National Bank Bldg., Little Falls, Minnesota. 15-17