## POOR DOCUMENT

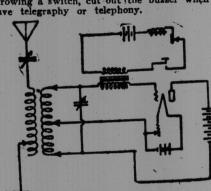
THE EVENING TIMES AND STAR, ST. JOHN, N. B., SATURDAY, FEBRUARY 3, 1923

### FIFTEEN MINUTES OF RADIO EACH DAY

By Edward N. Davis Formerly Technical Electrical Expert For U. S. Government

Lesson No. 223, SIMPLE BUZZER MODULATED TUBE TRANSMITTER. (All Rights Reserved by United Feature Syndicate. Reproduction Prohibited.)

In order to render the signals, emitted by a vacuum tube transmitter, of such a form as to be heard on a crystal or simple tube receiver the radiated waves must be modulated in some manner at an audible frequency. This result may be obtained in a number of ways. For example, an alternating current of audible frequency may be used as a source of plate potential, the radiated wave may be modulated by super-imposing a voice wave upon it as in radio telephony or the wave may be modulated by some form of chopper or buzzer connected in the grid of the tube transmitter circuit. Probably the cheapest and most flexible arrangement for small powered transmitters is to connect a buzzer in the grid circuit when calling a station or operating with a station equipped with a crystal detector and, by throwing a switch, cut out the buzzer when operating straight continuous wave telegraphy or telephony.



The diagram shows a simple tube transmitter of the inductively coupled Hartley type which makes use of a single coil for the plate and grid circuits but requires a separate coil in inductive relation to the first for coupling to the antenna circuit. The antenna circuit is tuned by means of the variable condenser and variations in the number of turns in the antenna coil. The oscillating circuit is tuned by manipulating the variable condenser across the plate-grid coil and by varying the position of the three taps on this coil which lead to the plate, grid and filament. This circuit may be used for covering short distances by employing receiving tubes or 5 watt transmitting tubes. When employing receiving tubes the plate potential may be suppled by blocks of ordinary "B" battery having a voltage of 90

transmitting tubes. When employing receiving tubes the plate potential may be suppled by blocks of ordinary "B" battery having a voltage of 90 or more but the drain on batterles of this type when 5 watt power tubes are used would be so great as to render such operation too expensive. The plate supply for power tubes may be a small transformer with a chemical or tube rectifier connected to the secondary of a small motor generator of suitable voltage can be used.

In order to secure modulation of the output of the tube transmitter a small transformer is connected in the grid circuit of this transformer are connected a busser, battery and key in series. The buzzer should be of the high frequency type, giving a clear tone which is accurately reproduced at the receiving station. The circuit shown, while lacking in some of the details which tend to increase the efficiency of a transmitter, requires the purchase of few parts which are not found around the average experimenters' table and is therefore suitable for the beginner in radio transmission. By substituting a microphone transmitter for the buzzer and key the same circuit may be readily adapted to use for radio telephony. Many amateurs employ a switch for throwing into circuit either a buzzer or microphone. This arrangement is desirable since greater ranges are covered with the modulated telegraph transmitter, but local communications can be handled more expeditiously by means of the telephone.

**Girl Guide Notes** 

#### RECENT DEATHS

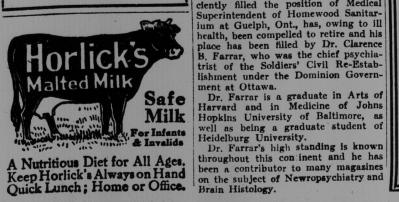
The death of Euphemia Margaret Burney, widow of James Burney, of Uphan Station, Kings county, occurred yesterday at the residence of her daughter, Mrs. J. S. Stephenson, 187 Paraging for tender of war, was part of a century, who was a daughter of the late John and Effect Hosford, was ninety-flwy years of age, just five years short of a century. Unit the time of her Ilines and are related the first company meeting on Tuesday, Twelve girls were present, which was pretty good for a start, and they of the fact of the life, Uphan Station was pretty good for a start, and they as a daughter of the late John and Effect Hosford, was ninety-flwy years of age, just five years of age, just five years of age that the time of her Ilines and are related to the life, Uphan Station and Patricia Fowler got the faculties and was pretty good for a start, and they as the property of the property of the life, and pretty good for a start, and they as a first year of the start was pretty good for a start, and they as a first year of the shape of tender of was pretty good for a start, and they was pretty good for a start, and they as a first year of the shape of tender of was pretty good for a start, and they as a first year of the shape of tender of was pretty good for a start, and they as a first year of the shape of th



#### Guard Your Eyesigh

cur the grave risk of losing their sight by neglecting Nature's warnings simply be-cause they are afraid of the expense is reduced to the minimum consistent with the best work. Come today. K. W. EPSTEIN & CO.,

4 King Square, Dufferin Hotel Block.



In the death of Dr. William Harrison

In the death of Dr. William Harrison, Moncton has lost a very worthy citizen and the N. B. and P. E. I. Methodist Conference one of its most beloved members. Dr. Harrison has had a long and useful life in the ministry. His fields of labor have been pretty well distributed over the Provinces of New Brunswick and Prince Edward Island, in every one of which he was held in the highest esteem by members of his flock.

by four years ago, but by supplying in the absence of regular pastors he been pretty busily engaged during the period not only in Methodist pulpits but among all the Portestant denomin-

Ations.

He was a man of unusual ability, broad in his views and had a forceful delivery. Dr. Harrison was also a contributor to the press. His articles on timely subjects were most interesting. Readers of the Transcript were freugently favored with his writing and in this respect, as in others, he will be greatly missed.

HOMEWOOD SANITARIUM.

Change in Medical Superintendent.

Dr. A. T. Hobbs, who has so efficiently filled the position of Medical Superintendent of Homewood Sanitarium at Guelph, Ont., has, owing to ill health, been compelled to retire and his place has been filled by Dr. Clarence B. Farrar, who was the chief psychiatrist of the Soldiers' Civil Re-Establishment under the Dominion Govern-

### Annual Clearance Sale

Decorated Pitchers and Teapots Less Than Half Price \$1.20 Values ..... For 50c each \$1.00 Values ..... For 40c each 80c Values ..... For 35c each 60c Values ..... For 25c each 50c Values ..... For 20c each

W. H. HAYWARD CO.,

For This Week Only

LIMITED 85-93 Princess St.

New Jersey Folk Agog at Alleged Weird Practices of Antoinette.

Hackensack, N. J., Feb. 8—Law against witchcraft, one of the oldest of New Jersey's statutes, one which was adopted from the old common law of England soon after the colony was founded, has been invoked in the arrest of Antoinette Marrone of Farfield, and when the hearing is resumed before Justice of the Peace Baker many unusual things are to be revealed. The complainants are Mr. and Mrs. Michael Robins of Farfield, who said that when this woman was asked by Thomas Coalandreito to use her occult powers to locate his missing watch, she

powers to locate his missing watch, she said they had it.

Next she insisted she cured the sick Robins baby and took \$50 as part of a \$200 fee. She then proceeded to work an alleged cure on the child and asked other members of the family to wear a small bag around the neck. The bag contained a mixture of herbs. This, the accused said, would drive the witch from the child and from the home.

Former Judge Joseph H. Lefferts of Passaic is prosecuting the witchcraft charge and says he expects to show the woman has caused much uneasiness in the foreign colony by her weird practices, as she has taken money under false pretence, practised medicine without a license and performed criminal operations.

\*\*Alf sizes\*\*

These and many other bargains in our windows and on our bargain table await your inspection.

\*\*MCROBBIE\*\*

Foot St. John 50 King Fitters

Street\*

\*\*Of the New Jersey Retail Clothiers' Association, declares he is going to insist that they wear knickers, instead of skirts.

"Once the novelty is worn off," he

BRIDE OF WEEKS

Woman Married Only Short novelty to men if they were always

this stand.

Envelopes, etc.

Bargains For Men

Men's One-Buckle Overshoes-Size 11 only. Sale price ..... D4.12 Men's Four-Buckle Overshoes-

Men's Four-Buckle
Size 11 only.
Sale price ..... \$2.55

Men's One-Buckle Lumbermen's Rubbers— \$1.25 men's Rubbers—\$1.25

Size 11 only

Men's Five Eyelit Lumbermen's Rubbers—Sizes 10
and 11 only.
Sale price

Boys' Best Quality Rubbers—Heavy Soles.
All sizes

These and Tany other base

"Once the novelty is worn off," he said, "I know the girls will be able to dress in half the time they take now, and I am thinking seriously of furnishing the girls with their first pair.

Amour's

Going-Out-of-Business

Balance of goods must be sold out before March 1st to make room for

Lease sold to Mr. A. E. Everett, who opens up another line of business at

Books, Wall Paper, Borders, Toys, Dolls, Fancy Goods, Notepaper and

Borders, 1c. yard up. Wallpaper 5c. roll up. Fancy Goods, half price.

One more month to procure your needs at cost prices and less.

Copyright Books, 59c. and \$1.29. All other lines at less than cost.

Stores open 9 a.m.; close 6 p.m. During winter months.

## Fifth Bargain Announcement

In Connection with Our Free Hemming Sale

Next Week's Bargains offer variety and ample opportunity for choice. Look these values over carefully and you'll be able to see very plainly just why you should make

you'll be able to see very plainly just why you should make needed purchess now.

Strong Bleached Sheeting, 72 in. wide. Durable quality.

Special 47c yd

Same quality 80 in. wide. Special 38c yd

Circular Pillow Cotton, 40 in. wide. Special 38c yd

42 in. wide Special 40c yd

44 in. wide Special 45c yd

Napped Sheeting, 64 in. wide; grey only. Special 75c yd

Bleached Table Damask, 58 in. wide.

Striped and diced patterns.

Special 65c yd

"Boott" Mills Absorbent Towels. Size

18x36 in: hemmed.

18x36 in; hemmed.

Special 30c each
Wabasso Long Cloth, specially attractive prices; 5 yds for 90c; 5 yds for \$1; 5 yds for .....\$1.25
Ready Hemmed Pillow Cases; sizes 40, 42 and 44 in.... Only 25c each
Pure Linen Damask Table Cloths; small sizes only. Suitable for breakfast or lunch cloths; 36 in. sq.

Special \$2.00 and \$2.25
45 in. sq. Special \$4.00 and \$3.40
54 in. sq. Special \$4.00, \$4.25, \$4.80, \$6.30, \$6.75
English Printed Bed Spreads in green, blue and helio. A good useful size.
Only \$2.50 and \$3.00 each
Two only in extra large size. Green

Two only in extra large size. Green and white..... Special \$4.50 getting short. Place your order now if you would take advantage of the free hemming offer.

(Linen room, ground floor.)

Keep the sand and mud out of your home by having a COCOA OR RUBBER MAT

at the door. 'Phone (Main 2400) and get one today. 95ć to \$3.00 each

#### "Home Journal" **Patterns**

For March Are Here

able fabrics now selling for spring and summer garments—you'll find these patterns ideal.

The styles they represent are exceed-ingly smart and patterns are very easy to understand and to use.

styles you will find clever adaptations of the fashionable draped dress; frocks with effective wide berthas; wrappy coats of various kinds; box suits with

Users will tell you that Home Jour-nal Patterns are sure to bring success-ful results. Try them next time! Ask for free copy of "Good Dress-ing" at pattern counter.

(Carpet Dept., Germain street entrance.) anchestor Robertson Allison-Limites

## AMDUR'S, LTD.

No. 1 King Sq	uare
LADIES' PURE WOOL SWEATER Scarlet and White, with heavy white a This is a splendid garment for outings ar	s— \$4.95 old for Carnival Week
BOYS' PULLOVERS	89c
BOYS' JERSEYS— Fine, pure wool	\$1.50
BOYS' COAT SWEATERS	69c
Ladies' Golf Hose	se 49c pair
A dun's Woole	4

That's Why Another Man

Recommends Dodd's Kidney Pills to Other Sufferers.

**Found Relief For** 

Mr. Eugene Provencher wants Everyone to know the Benefit he Received from Dodd's Kidney Pills.

St. Julien, Wolfstown, Que., Feb. 2—
(Special).—"It is with great pleasure that I tell you how much my health has improved since taking Dodd's Kidney Pills. They have done me a great amount of good. For a year I suffered from kidney affection and now I am quite well." This statement comes from Mr. Provencher, a well-known resident here.

here.
Dodd's Kidney Pills act directly on the kidneys, strengthening them so that they do their full work of straining all the impurities, all the seeds of disease, out of the blood.
Dodd's Kidney Pills are known all over Canada as a standard kidney remedy. They have made their reputation by doing good to people who suffer from any form of kidney disease.

HE MUSTN'T PHONE, WRITE, CALL, LOOK AT OR TALK, TO HER AGAIN

New York, Feb. 3.—Arrested because at the end of a card game at two o'clock the other morning he refused to leave the apartment of Dorothy Taylor, a Shubert show girl, Moses Goldman, twenty-three years old, of 870 Riverside Drive, heard Miss Taylor testify before Magistrate Sweetser in Yorkville Court/that his persistent attentions were unwelcome and annoying. Goldman's ground for not quitting the apartment was that he was the girl's sweetheart.

"You hear that?" said the magistrate to Goldman after Miss Taylor had made her position clear. "Do you still believe you are her sweetheart?"

"I am perfectly satisfied I am not," said the defendant.

"Well, I'l let you off with a sus-

said the defendant.

"Well, I'l let you off with a suspended sentence this time," said the Court, "but you must never telephone, write, call, look at, talk to or molest the complainant again, in any way. If you do and she reports the matter, you will get six months in the workhouse."

#### FOR BABY "Safety First"

Four generations of babies

have been kept clean, fresh, fragrant, and free from skin troubles by the use of

# SOAP



# His Kidney Trouble On Sale Tonight London House

(Store open until 10 p. m.)

800 yards Duchesse Pailette Silks, all leading colors, as well as black and white. Buy what you need now for the making of spring graments.....At \$1.69 a yard 500 yards Wool Serges in navy, brown, black or grey, taupe, garnet or green, 54 inches wide; reg. \$2.75,

Half price \$1.38 a yd.

150 yards of All Wool Navy Serge, 42 inches wide—

400 Hemstitched Pillow Slips, 40 to 44 inch; reg. 50c., Sale Tonight 39c. each

300 White and Colored Turkish Towels, large size—Sale Tonight 23c. 250 Fine Bleached Cotton Sheets. Sale Tonight \$1.29 each 200 Fine Irish Huck Towels..... Sale Tonight 19c. each 1000 yards New Cretonnes, newest colorings and designs,

36 inches ..... Sale Tonight 29c. Just in-1000 yards Double Border Curtain Scrim, white, You will also find interesting values in Hosiery, Gloves, Neckwear, Blouses, Ready-to-wear.

Our famous annual notion sale in full swing tonight. It is truly the year's greatest event for housewives, dressmakers or milliners. Buy freely for future needs and make a goodly saving.

### **London House**

F. W. DANIEL & CO.

HEAD KING STREET

reports from the Farraline Home in

Five classes for girls have been organized by Miss Greta Ferris, R. N., at the St. John Health Centre. There is a course of twenty lessons in home nursing and allied subjects. There are two classes from the Y. W. C. A., a C. G. I. T. calss, one from St. Joseph's school, and one led by Miss F. Warnight.

Among the many friends of the Natural History Society in the city is Dr.

L. A. Langstroth, who has aided greatly in gathering a valuable collection of Canadian coins and currency. A new case has been placed in the hallway of the main floor of the museum to accommodate some of these.

At a meeting of the King's Daughthal At a meeting of the City Power Commission this afternoon at City Hall, it was announced yesterday. The tenders, at present, are in the hands of the commission's engineers and their recommendation will guide the commission in granting the contract Major R. A. McAvity, chairman of the commission, is not expected back

At a meeting of the King's Daughthe commission, is not expected back ters last evening, with Mrs. H. W. until the middle of the month.

84 King Street