

POOR DOCUMENT M C 2 0 3 5

THE EVENING TIMES AND STAR, ST. JOHN, N. B., SATURDAY, DECEMBER 30, 1922

3

FIFTEEN MINUTES OF RADIO EACH DAY

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

Lesson No. 194.

POINTS TO REMEMBER.

REMEMBER THAT:

The sensitiveness of the average vacuum tube will be considerably improved by the use of a grid condenser and grid leak. It has been determined experimentally that it is necessary to impress approximately three times as much high frequency voltage upon the grid to obtain a given strength of signal as is the case when a proper grid condenser and leak are employed. The plate voltage should not have a value high enough to cause a "blue glow" in the tube. In this condition the tube operates poorly, due to the fact that the plate current is so large as to be unaffected by grid voltage variations. An excess of plate voltage may also cause injury to the elements of the tube.

Radio-frequency amplification used in conjunction with a coil antenna is of considerable value in reducing interference as it combines the directional properties of this type of antenna with the selectivity in tuning afforded through the use of this form of amplification. This is due to the fact that until the receiver is tuned to the exact frequency of the transmitting station, the desired signals are inaudible.

When the resistance in the filament circuit is reduced and the current through the filament increases, the flow of electrons is increased until the "critical point" is reached. Beyond this point the filament may become more brilliant, but there is not further increase in the flow of electrons and the life of the tube is shortened without improving the efficiency of operation. It is very essential therefore to operate the filament at as low a temperature as will furnish the necessary electron emission consistent with proper signal reception.

The velocity attained by sound waves in air is approximately 330 meters per second or 1,083 feet per second. Light waves and radio waves travel through space at a velocity of 300,000,000 meters per second or 186,000 miles per second. The frequency of the majority of sounds emitted by the human voice in the form of speech is between 200 cycles and 2,800 cycles per second.

Amplifying transformers used for radio-frequency amplification are designed for operation over a limited range of wave lengths so that when amplification on a given wave length is desired, a transformer must be selected which includes this particular wave length in the band of wave lengths for which it is designed. Transformers used for currents of radio-frequencies usually have an air core, although cores of special iron with very thin laminations are sometimes employed.

In regenerative circuits utilizing the "tickler" coil as a "feed back" circuit it is important that the proper polarity exist between the "tickler" coil and the secondary coil, as otherwise the energy fed back to the grid circuit from the plate circuit would weaken instead of strengthen the original oscillations. If the polarity between these coils is not correct, the oscillations will be continuously weakened as the coupling between the coils is made closer.

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LOCAL NEWS

LOCAL No. 273 I. L. A.
Regular monthly meeting will be held in hall 38 Water street, Tuesday evening, Jan. 2nd, at 8 p. m. Business of importance to the members is requested to attend. By order of President. 6672-1-8

TRA AND MUSICALS.
Informal opening of the new Auditorium and inspection of St. Peter's New School, Elm St., Wednesday, Jan. 6, 1923. Tea 4 to 8 p. m. Musical 8 p. m. Tickets 25 cents. 6666-1-3

Band New Year's afternoon and night. Excellent ice. Carleton Rink.

NEW YEAR TERM
opens on Wednesday, Jan. 3, 1923, at the Modern Business College, Ltd., corner Mill and Union streets. This very progressive school has recently taken over the St. John Business College—better—and is now one of the largest and best equipped schools in Canada. Enquire of George J. Smith, principal, for particulars. 1-2

For Snow Shovels go to Thorne's.

HOLDING C. N. R. HALIFAX TRAIN FOR HOCKEY TEAMS
For accommodation of Sussex and Wanderers' hockey teams, train No. 10, will leave St. John 10:45 p. m., will arrive until 11:15 p. m. Monday night, January 1. 1-2

Unger's Laundry, Ltd., have installed an up-to-date darning machine and are mending all socks and stockings, table linens, etc. Sewing on all buttons free of charge—Phone Main 58. 12-31

For Snow Shovels go to Thorne's.

"Studio" tonight. Dancing free 8.30.

Band New Year's afternoon and night. Excellent ice. Carleton Rink.

Special New Year's dinner at the Clifton from 12.30 to 2.30 p. m. Price \$1.

ON ACCOUNT OF THE STORM
Annual reduction sale women's coats, suits and dresses will be continued Tuesday and Wednesday, January 2 and 3. Splendid silk lined garments at very low prices before stocktaking. F. W. Daniel & Co., Head of King Street.

GILMOUR'S Regular January Clearance of Winter Overcoats

In accordance with our regular custom we select January as the time to dispose of all remaining Winter Overcoats at drastic reductions in price.

Come to this Sale and take advantage of the genuine reductions you always get ere.

Plaid back and fancy back Coats—big Usters, Raglans and Klavicles; p-ons, Storm-defying Frieze Usters, ey Melton Overcoats; at—

\$15, \$18.50, \$20, \$25 to \$50

GILMOUR'S - 68 King Street

Clothing, Tailoring, Furnishings



Special Sale Electric Portables

Former Price \$17.50 Sale Price \$12.00
Former Price \$21.00 Sale Price \$15.00
See our window display.

O. H. WARWICK CO., Limited
78-82 KING ST

I take this opportunity to thank my customers for their patronage during the past year, and wish one and all a Happy and Prosperous New Year

Paradise
LIMITED



Skin Beauty Promoted By Cuticura

Bathe with Cuticura Soap to cleanse and purify the pores. If signs of pimples, redness or roughness are present smear gently with Cuticura Ointment before bathing. Finally dust on a few grains of the exquisitely perfumed Cuticura Talcum.

See Dr. O. H. Warwick Co., Ltd., 78-82 King St., St. John, N. B., for full particulars. Cuticura Soap always without charge.

New Year's Gifts

Hand Painted Nippon China

Fancy Teapots, Pitchers, Lamps, Clocks, Watches, Skates, Sleds, Carts, Toys,

Dishes to Hire

Morrell's

Hardware and Crockery
Haymarket Square
and
633 Main St.

Horlick's

Malted Milk

Safe Milk

For Infants

For Invalids

A Nutritious Diet for All Ages.

Keep Horlick's Always on Hand

Quick Lunch; Home or Office.

CUBAN LIQUOR SHIP PUZZLES OFFICIALS

Steamer With Cargo for St. Pierre Entered a Florida Port in Distress.

Washington, Dec. 28.—It is expected that the Harding Administration in the next few days will come to a decision regarding the status of the Cuban steamer Miguel Ferrer, which is lying in the harbor at Fernandina, Fla., with a cargo of 5,000 cases of liquor aboard, which, according to the ship's papers, was bound for the fishing village of St. Pierre, off the south coast of Newfoundland.

The case involves the question whether a vessel caught in a storm at sea or driven ashore in distress falls within the scope of the American prohibition enforcement laws when found carrying liquor. If no attempt was being made to return the vessel to the Cuban Legation here, through its Charge d'Affaires, Arturo Padro, acting upon instructions from Havana, made representations to the State Department asking that the vessel be sent to a foreign port. Under international law, it is claimed, any vessel in distress is allowed to put into a

foreign port long enough to permit her to proceed to her destination or to her nearest home port.

The State Department asked the Treasury Department for a report, and an investigation is being made by the Customs Division of the Treasury. It is believed this will be in the hands of the State Department soon and that announcement then will be made as to what shall be done with the Cuban vessel.

As the case stands at present, under a ruling which the customs authorities have made, a cash bond of \$45,000 must be put up before the vessel is allowed to proceed to her destination. This money to be returned after the cargo has been safely landed in the foreign port to which it was destined.

An effort, it is said, will be made to avoid putting up this large cash bond on the ground that no law was violated and that nothing of this sort has been demanded in other cases of vessels seized but later allowed to proceed.

MOQUITOES IN BAGDAD.

(G. T. Hadley, in World Outlook.)

A round-the-world electrical engineer tells this story: "We got up to Bagdad to put over a little deal with the pasha, a former Government official who had been prominent in the days of Abdul Hamid. His palace was infested with mosquitos, and we had to plan to give him relief.

"He lived in the usual Moorish house, with high walls, flat roof with parapets, few windows and open court. The old pasha stepped out of a Broadway musical comedy with his shining silk robes, turban and red shoes with upturned toes.

"In the palace garden was a stream with a fall of about ten feet. It would develop one-fourth horsepower. We to fall in a coma. All that remained was for the servants to go around and sweep them up in piles to be destroyed."

"He built a water mill, equipped it with a dynamo, wired the palace and started up some gigantic electric fans. These fans cooled the air and also blew through the rooms a narcotic sufficiently powerful to cause the mosquitos to die.

"Very Rev. James Cooper, D. D., professor of church history in the University of Glasgow, died today, aged seventy-six. Among his published works are "Sonnets on the Ancient Cathedrals and Universities of Scotland, with Historical Notes." He was one of the most prominent of the Scottish leaders in religious and educational matters.

RUSSIAN RUBLES DECLINE TO NEAR VANISHING POINT

Moscow, Nov. 20.—(By Mail).—The Russian ruble continues constantly to decline, and as a result the price of every commodity in Russia has increased.

Since November 1, the prices on food have gone up 72 per cent, and on clothing and other wearing apparel 60 per cent, while wood, which is extensively used in Russia as fuel, has advanced more than 100 per cent. During the same period the rate of exchange has gone up only 15 per cent. Late in November the dollar brought 25,000,000 rubles.



PAINTLESS EXTRACTION

Only 25c

We make the BEST TEETH in Canada at the Most Reasonable Rates

Boston Dental Parlors
Head Office: 527 Main St. Branch Office: 35 Charlotte St.
Phone 683. Phone 38
DR. J. D. MAHER, Prop.
Open 9 a. m. - 9 p. m.

PHILLIP'S

Victor Victrolas and His Master's Voice Records

Picture Framing, Developing and Printing, etc.

49 GERMAIN ST., ST. JOHN, N. B.

For Reliable and Professional Optical Service Call at S. Goldfeather

Optometrist and Optician,
8 Dock Street, Tel. M. 3413

ROYAL BALM

Is Unexcelled for All Roughness of the Skin—25c.

THE ROYAL PHARMACY,
47 King Street

The East End Grocery

183 WATERLOO STREET

Phone M. 3992

Here are Big Values That Save You Money

Best White Potatoes, peck, 17c

Fresh Eggs, per doz., 40c

Choice Corn, per tin, 11c

Choice Tomatoes, large tin, 13c

Choice Peas, per tin, 14c

2 tins 27c

Good Large Prunes, 2 lbs 25c

Reg. 15c box Matches, 2 boxes for 20c

4 lbs. Cream of Wheat, 25c

Fresh Killed Ducks, per lb 40c

98 lb bag Cornmeal, \$2.20

98 lb bag Cracked Corn, \$2.20

98 lb bag Shorts, \$1.55

2 bushel bag Oats, \$2.00

Finest Orange Pekoe Tea, 3c lb, 3 lbs \$1.25

Dry Kindling Wood, 5 bundles 25c, per doz 55c

Lipton's Jelly Tablets, all flavors, 3 pkgs for 20c

Lipton's Jelly Tablets, all flavors, 2 pkgs for 20c

2 lb Tin Canned Beans, plain or Chili Sauce, 15c

Prompt delivery to all parts of city.

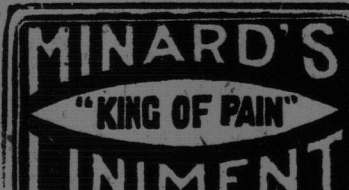
BRITISH TROOPS ON RHINE HAVE COST \$270,000,000

London, Dec. 13.—(Associated Press, by Mail).—The strength of the British Army of Occupation in Germany on November 1 was 532 officers and 9,138 men of other rank, according to Walter Guinness, Under-Secretary of the War Department.

The total cost of maintenance, exclusive of accommodation and miscellaneous services, from the armistice to July 31, 1922, amounted to \$4,688,000 pounds sterling.

For Sore Throat

Cold in the Chest, Etc.



YARMOUTH, N. S.

Minard's Liniment For Colds, Etc.

THE JEWS IN BRITISH POLITICS

(American Israelite.)

A striking instance of how absurd is the charge of political solidarity of Jews is afforded by the recent election in Great Britain. Among the thirty-one Jewish candidates for election to parliament every political party was represented. Of those elected, five are Conservatives, three are National Liberals, one is an Independent Liberal and one belongs to the Labor Party. The Labor candidate who was elected was representing a Scotch constituency, curiously enough, as the number of Jews in Scotland has never been numerous. It is also worthy of note that the largest number of those elected are Conservatives, which should be a sufficient answer to those who claim that the Jewish spirit is revolutionary.

TO RELIEVE CONSTIPATION

"RIGA"

PURGATIVE WATER

Tallies for Each Box

RIGA PRODUCTS Limited, 25c

2 St. Cecil St., Montreal.

THE NEW FRENCH REMEDY

THERAPION NO. 1

THERAPION NO. 2

THERAPION NO. 3

For Rheumatism, Gout, Gravel, etc.

See Dr. J. D. Maher, Prop., 527 Main St., St. John, N. B.

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Specials AT ROBERTSON'S

Two Stores

A good 4 string broom for 65c

100 lb bag Lantic Fine Granulated Sugar \$8.00

12 lbs Lantic Fine Granulated Sugar \$1.00

FLOUR

98 lb bag Cream of Wheat \$3.86

98 lb bag Robin Hood or Regal \$3.95

20 lb Pail Pure Lard for \$3.45

10 lbs Best Onions for 25c

1/2 bbl bag Choice White Potatoes \$1.00

1 lb Pkg Fancy Sun-Maid Cluster Raisins for 25c

Mixed Nuts, best quality, without peanuts, 17c lb.

6 lb Tin of Crisco for \$1.45

2 Tins Corn 22c

2 Tins Tomatoes (small) 22c

2 Tins Tomatoes (large) 25c

1/2 lb tin Fry's Cocoa 22c

2 Tins Egg Powder 25c

7 Cakes Castile Soap 25c

2 Tins Old Dutch 25c

Lux 10c pkg

Robertson's

11-15 DOUGLAS AVENUE

Phones M. 3461 and 3463

Cor. Waterloo and Golding Streets.

Phones M. 3457, M. 3458

Owing to the severe storm the Sunday school concert, which was to have been held in Main street Baptist church last evening, was postponed until next week.

DYKEMAN'S

34 Simonds St. - Phone 1109

151 City Road, - Phone 4261

276 Fr. Edward St. Phone 2914

Our goods are the finest in the land.

1/2 bbl. Bag Potatoes, \$1.00

Finest White Potatoes, a Peck, 19c

Best Turnips, a Peck, 17c

Best Carrots, a Peck, 35c

CANDY AND NUTS.

Hand-made Barley Tots, lb, 20c

1 lb. Box Best Assorted Chocolate Creams, lb, 19c

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