POOR DOCUMENT

THE EVENING TIMES AND STAR, ST. JOHN, N. B., MONDAY, DECEMBER 18, 1922

FIFTEEN MINUTES OF RADIO EACH DAY

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

> Lesson No. 184. POINTS TO REMEMBER.

REMEMBER THAT:

A loop aerial four feet square wound with tweive turns of No. 18 cotton covered wire with the turns spaced one and one-half inches apart may be used for interception of radio signals in combination with the Super-Regenerative circuits originated by E. H. Armstrong. The loop should be shunted by a variable condenser having a capacity of 0.001 microfarads.

In a vacuum tube receiving circuit employing a grid condenser, rectification of the incoming signal is obtained by a decrease in the average value of the plate current regardless of what part of the plate current curve is used. Without a grid condenser rectification may take place either with an increase or decrease in plate current depending on whether the upper or lower bend of the characteristic or plate current curve is employed.

The capacity of a storage battery is expressed in ampere-hours at a normal rate of discharge, for example, a battery having a capacity of 80 ampere-hours on an eight-hour rate will deliver a current flow of 10 amperes for eight hours. It is necessary to put from 15 to 20 per cent more energy into a battery than is taken out.

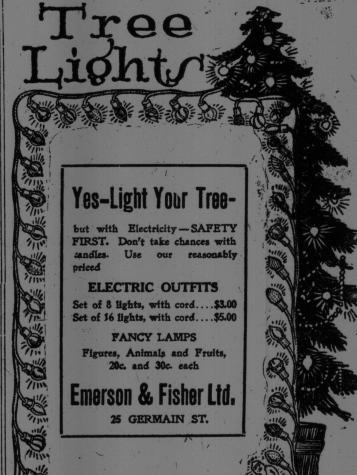
The amplification of a resistance-coupled amplifier is not as great as with transformer coupling and for wave lengths below 1000 meters full amplification is not easily secured. It is also necessary to use a plate battery having a voltage much larger than the normal value due to the fact that a considerable amount of the plate voltage is absorbed by the resistance.

In the Armstrong Super-Regenerative Circuit, regeneration is obtained beyond the normal oscillating point of the tube and the circuit is given alternately a positive and negative resistance which effectually prevents the forming of oscillations and results in exceptional amplification of the radio signal.

The amplitude of the wave resulting from the modulation of a radiofrequency wave by an audio-frequency wave is obtained by multiplying the instantaneous value of the rapiditate of the radio-frequency wave at a given instant, Thi

Ritz, prize fox trot, tonight.

"Strand Phonograph," Queen Anne design, is as beautiful musically as it is in design. Plays all makes of records. John J. Frodsham, Royal Hotel.



Interested citizens are requested to

Stock, and Business now for sale character of your family. Get them from Emeron & Fisher's, Dtd.

Have you bought your Season Ticket for the Arena. Phonograph Salon, 25 King Square and Arena, Main 226.

Give Eveready Flashlights on Christ mas. There's one for every member of your family. Get them from Emeron & Fisher's, Dtd.

A good sweater for a man makes a good Xmas gift for less money at Bassen's, 14-16-18 Charlotte street.

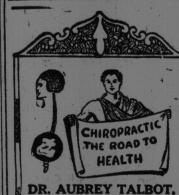
Have you bought your season ticket for the Arena at Phonograph Salon, Ltd., 25 King Square, and Arena, Main

Freshly Roasted Coffee for

Christmas

Humphrey's

Coffee Store 14 King Street



DR. AUBREY TALBOT,

SPINAL ADJUSTMENTS

Foresight, is giving serious thought to your eyes NOW, before advancing years dim

Lack of foresight, neglect of slight defects of vision, causes much of the eye discomforts of

No matter how well you see, guard nature's most precious gift—YOUR EYESIGHT—by having your eyes properly ex-amined and a good pair of glasses, if needed.

tell you the exact con-dition of your eyes.

111 Charlotte St.

manager of the Educational Film Co., of Canada, has been in the city for several days instituting a district branch here. Heretofore the products of this company were handled by another exchange. This agency adds another to the ten agencies already established here. St. John is the film distribution centre of the maritime provinces and the only one of importance east of Montreal.

Colds or Influenza

and as a

Preventive

BROMO

6. M. Shrow

The Magic of the East

Drawing Room Lamps



The color craftsmen of China—Home of the magic lantern—and Japan—Land of Blossoms—seem to have found more tints in their blooms and rainbows; beyond doubt they paint with an art ages older than the Western World. The evidence is here in fifty forms of magnificent silk and canton crepe lamp shades whose shapes, patterns and color schemes it would take two columns of fine type to describe in brief.

With elegance and delicacy they have worked with pinks and blue and golds with needle rivalling brush. The shapes vary round crowns, domes and pagodas, with an occasional black crepe subduing a gold, a peacock might appear in gentle tints; there may be a study in simplicity or a mystic efflorescence.

But stop reading and come to see! The only way to do yourself justice.



The Bible class of the Waterloo there conducted a service. Mrs. Bret

"His Majesty, the Baby"

Dolls' Carriages, Toy Sets, Blackboards, High Chairs, Low Chairs and Rockers, Kiddie Cars, etc.

Xmas Gifts for every member of the family. Come in and see our beautiful Xmas gifts for father, mother, sister, brother and sweetheart.

Handsome Willow Chairs and Rockers at \$10 upwards. Smoking Stands at \$3.00 upwards. Leather Chairs and Rockers at \$18 and upwards.

Music Cabinets. Dining Room Suites at greatly reduced prices. See our windows.

AMLAND BROS., LIMITED 19 WATERLOO ST.

Extra Special! Xmas Values

This year we have the best variety of Gift Footwear lines we ever stocked for Christmas, but better than that is the fact that we bought at low prices and are able to quote in some cases fully 50 per cent below regular values.

We realize that is a strong statement, but we can back it up.

Buying an article for one-half price is a wonderful opportunity, but when you consider these are gift lines and prices are advertised only one week before Xmas, the advantages of Levine's offer causes one to pause.

Practical Gift Footwear at One Half Regular Prices

Ladies' Felt Cosey Corner Slippers, in black, brown, red and grey; mostly samples; size 3, 4 and 5; regular price

Ladies' Felt Fur Trimmed Juliets; various colors. Regularly to \$1.48

Other Low Priced

BOYS' HOCKEY BOOTS-Size 1 to 5. \$2.95

ankle supports ... \$3.85 Men's Speed Hockey Boots, with reinforced strapping; all \$3.85

Men's Hockey Boots, with ankle supports\$4.35



Ladies' 10 button fawn and grey Gaiters. Regular \$2.25. On sale 95c.

Ladies' 12 buttoned fawn and grey Gaiters. Regular \$2.95 ... \$1.48

Children's brown and grey Corduroy Leggins; sizes 7 to 10. Regular \$2.25. Now \$1.35

Attractive Suggestions

Ladies extra high cut Hockey Boots; fleece lined; ankle supports

\$4.35, \$4.50 Ladies' Boudoir Slippers in pink, blue, grey, brown, black. Special

Ladies' 4 buckle Overshoes. \$3.85 Ladies 3 buckle Overshoes. . \$2,95 Children's Felt Slippers from 65c. to \$1.35

Men's Felt and Kid Slippers from \$1.25 to \$1.35

EVINE'S. 90 King Street

