POOR DOCUMENT

THE EVENING TIMES AND STAR, ST. JOHN, N. B., TUESDAY, FEBRUARY 20, 1923

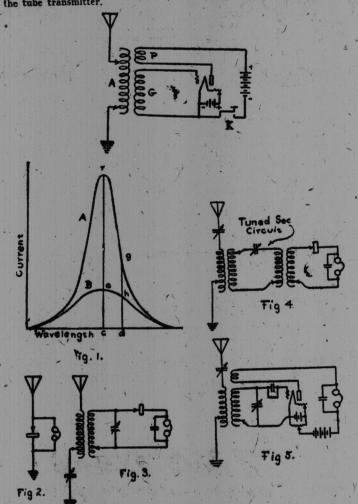
FIFTEEN MINUTES OF RADIO EACH DAY

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

PRINCIPLES OF TRANSMISSION WITH TUBES. PRINCIPLES OF TRANSMISSION WITH TUBES.

In a regenerative receiver of the vario-coupler type, adjustments of the plate circuit and secondary circuit may be made which will cause oscillations, this condition being indicated by a dull thud in the telephones when the oscillations start and a distortion of the signals from a spark starion. When the primary or antenna circuit is now brought into resonance with the secondary circuit, the oscillations may stop entirely due to the inability of the secondary to supply the energy as rapidly as it is dissipated in the antenna circuit. If adjustments or changes are made in the circuit so that the oscillations continue after resonance is obtained by inserting s key or microphone in the antenna circuit we may employ the system as a radio telegraph or telephone transmitter over short distances.

Since the phenomenon described above is observed only in a regenerative receiver and is not present in a simple tube detector set, there is apparently a principle involved in the regenerative receiver which is also found in the tube transmitter.



If a three element vacuum tube is connected, as shown in the diagram, with a grid coil in inductive relation to the plate coil, it is found that when the key "K" is closed thereby impressing the high potential form the battery "B" on the plate of the tube, oscillations occur as a result of the feeding back of the energy from the plate circuit into the grid circuit and a consequent change in the plate circuit current. This action starts automatically as soon as the key "K" is closed and is due to the fact that the building up of the plate current in te coil "B" is accompanied by a rising magnetic field around the coil which cuts the coil "G" and induces a potential in coil "G" which is impressed upon the grid of the tube. Of course the terminals of the coil "G" must be properly connected to the grid and filament or no oscillations will occur when direct current, is employed on the plate. If no oscillations take place the terminals should merely be reversed. The building up of the grid voltage postitively and the continued increase of plate current proceeds until the plate current reaches saturation, at which time, the plate current is not changing and therefore the grid potential ceases to build up. The grid loses some of its positive charge and the plate current immediately falls off, a falling plate current inducing an electromotive force in the grid coil which makes the grid more negative, since the effect on the grid coil which makes the grid more negative, since the effect on the grid coil which makes the grid more negative, since the effect on the grid coil which makes the grid more negative, since the effect on the grid coil which makes the grid more negative, since the effect on the grid coil which makes the grid more negative, since the effect on the grid coil which makes the grid more negative, since the effect on the grid coil which makes the grid more negative, since the effect on the grid coil which makes the grid more negative. The coils "F" and "G" are in inductive relation to a third coil "A" whi

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FIRE SALE

Boots and Shoes

677 Main Street

Now in full swing, offers Dollar Day Shoppers many special savings in footwear for immediate or spring

ENTIRE \$12,000 STOCK to be sold out at once, so store can be handed over

to carpenters and painters to have ready for spring

Women's 10 Button Gaiters 35c. Women's Kid Colonial Pumps \$1.38
Women's Kid Oxfords \$1.38
Women's Patent Oxfords \$1.48

Women's Boots \$1.88 up
Women's Brown Strap Pumps \$1.98
Child's Slippers 38c. up
Child's Boots 48c. up

Strictly cash. No approbation.

Store open Tuesday, Thursday and Saturday nights. Shop in the morning and get best choice.

A few of the bargains you will find:

Clearance Sale of Nippon China

Teacups, Saucers and Plates \$5.00 doz	Reduced from en \$11.00 dozen
Cream Pitchers 25c each	
Bowls 20c eacl	
Cake Plates 40c eacl	h 90c each
Sugar Bowls 30c each	
	20.00

W. H. HAYWARD CO., LIMITED

85-93 Princess St.

BARGAIN BULLETINS RESUMED

The great feature of last year is again to be offered now, that the Amdur store, completed renovated, is back to normal. Each afternoon, a bulletin will be published and each bulletin will announce a special, drastic cut on a wanted

1923--Amdur's Bargain Bulletin, No. 1--1923

Specials For Wednesday Only

Ladies' Heather Hose	59c
Grey Cotton, 52 inches wide	Yard 20c
Regular Price 28c yard	Yard

Amdur's, Ltd., No. 1 King Square

George W. Boyd.

George W. Boyd, formerly manager of the American Laundry in Charlotte street, was killed by an automobile in Somerville, Mass., recently. He was taken to a hospital with a fractured skull and died soon after being admitted. The driver of the car was arrested charged with operating a car carelessly. Mr. Boyd is survived by his wife, one son, one brother and one sister.

CONTROL FROM COMMERCE IN THE COMMONWEALTH

Sydney, Australia, Feb. 20—(Canadian Press)—Prime Minister Captain S. M. Bruce emphatically declared yesterday that the government was going to lift all war time control off commerce and indústry.

"That country is best governed which is governed least," he said.

one son, one brother and one sister.

The Late Mrs. Mary McI. Mahoney
Boston Post, Feb. 8:—The funeral of Mrs. Mary McIntyre Mahoney of 7 Juniper street, Roxbury, took place yesterday morning with a high mass of requiem at St. Joseph's church, Circuit street, Roxbury. The Rev. Dennis F. Sullivan was the celebrant.

Among those who were at the funeral was her daughter, Mrs. Bowden, wife of Prof. W. C. Bowden of St. John, who went from here on receiving news of her mother's death.

William Cummins.

The death of William Cummins occurred yesterday at his home, 159 Pitt

at Waterbury & Rising's of our stores and save dollars on Dollar Day.

MILLAR DAY

RECENT DEATHS

Mrs. E. C. Waterhouse.

Word has been received here of the death in Honolulu on Saturday of Mrs. E. C. Waterhouse who was killed in a motor accident, Her husband, Dr. Waterhouse, although injured is not considered to be in a serious condition. Mrs. Waterhouse was the daughter of W. S. Harding of Welsford and a grand-daughter of the late Dr. W. S. Harding of this city. She leaves her husband, two daughters; one son, Leigh of Welsford; four brothers, William Harding of Hammond River, George of the Malay States; Thomas and Vernon of Welsford; and two sisters.

Server W Royd

street, after a lingering illness. Mr. Cummins was a painter to trade, but retired some years ago. He served for more than forty years on the fire department of the city, and at one time was forman of No. 2 Company, and was in the department at the time of the big fire of 1877. Besides his wife he is survived by five daughters, Mrs. J. A. Moore, Mrs. T. W. Moote and Mrs. D. A. McAdam, of Montreal; three sons, David, George and Harry, all of this city; also two sisters, Miss Martha Cummins and Mrs. M. Morrison, of this city, and one brother, Robert, of Linden, Mass.

TO LIFT WAR TIME
CONTROL FROM COMMERCE
IN THE COMMONWEALTH

February Sale

Men's, Boys' and Youths'

Boots

Union St. and King St. Stores

Offers many bargains only made possible by discontinuing the wholesale branch of our business.

A few of the many bargains include:

Men's Black Boots, median to \$5.35 Men's Black Waterproof Boots \$5.35 Boys' Boots, sizes 11 to 13, at . . . \$1.88 to \$2.78 Sizes 1 to 5 at . . . \$2.28 to \$3.45

King Street Store

SPECIAL FOR WOMEN

\$4.85 — Black Kid or Calf, Brown Kid or — \$4.85 Boots. Calf Patent Leather. All heels. Boots.

New Spring Silks Are Unquestionably Beautiful

Never before have Silks of all kinds been so entirely fashion, able—a note of novelty everywhere is seen in the new weaves.

Spring's color card, like the rest of spring's fashions, enthusi-

astically meets every expectation.

This store cordially invites you to see these new and beautiful



FEBRUARY FURNITURE

SALE NOW GOING ON

(Furniture Store, Market Sq.)

THE NEW FLAT CREPES FOR DRESSES AND BLOUSES Showing in such new shades as: Venice, whirlpool, sunburst, burnt or-

Tubular style especially suitable for underwear. May be had in white, pink, orchid, clover and black. Plain or drop stitch. 36 in wide.

BROCADED CANTON CREPE include jade, henna, cocoa, w. cinder, seal, navy and black.

STRIPED SPORT SATINS
The very newest idea for sport skirts.
Thite, titian, verdigris, seal and black rith stripe of self color. 42 in. wide.

CREPE FRISOLE

CREPE MARVILLE

A very handsome fabric in brown, cinder, sand, blue bell, navy nad black.

40 in. wide,

ALLTYME CREPE Similar in appearance to crepe knit, but softer in weave. Showing in many beautiful colors. Some of the most attractive are: Lanvin, cinder, titian, ciramac, sandalwood, bluebell, Mephisto, crushed berry and white. 36 inches

BARONETTE SATIN In white, black, fog, wall flower and navy. 39 inches wide.

ART CREPE
In beautiful shades of burnt orange, cinder, tiffin, bobolink, navy, as well as black and white. 39 in, wide.

TRAFALGAR CREPE In white, sand, gold, periwinkle and brown. 36 inches wide.

NEW BATIK CREPE DE CHINES
In attractive color combinations.

MESSALINES, DUCHESS, CREPE DE CHINES, HABUTAI and GEORGETTES In all the new and most popular

NEW HRAVY JAP. KIMONO SILKS

PONGER
In pink, jade, sky, peach, orchid, grey, old rose, Copen, brown, navy, American beauty, Paddy green and black and natural. 34 in, wide. (Silk Dept., 2nd floor,)



02500 00000

Here and There Daniel's

All of a thousand special prices, placarded everywhere to guide you in the most convenient departmental store, tell you quickly how you save and save. most. Here is a helpful list, a small fraction of what awaits you in every section. .

SMALL GIRLS' COATS, \$2. Sizes to 11 years. Small ladies' and growing girls' coats. Values \$13.50 to \$15

Fur collared coats, less than half.

Misses' cloth coats, worth \$12 to

Wooltex drawers, ankle length and open or closed style 89c.

SPORT COUTIL CORSETS, \$1.

Made of pink coutil, laces in back, elastic top and four hose supports, \$1.

Embroidered Swiss Brassieres, with back fastenerers, all sizes 39c.

Children's Flannel Gowns, high, V-neck and long sleeves, 8 to 16 years, 98c.

At half-price — Silk-knitted Wool Overalls, Scarfs, Sweaters, Caps.

Children's Wash Dresses in Ginghams, Plaids and Chambrays; 2 to 14 years \$1

 STAMPED GOWNS, \$1.00. Other Stamped Goods Specials inclue:—
Corsets, 78c. Corset Covers, 29c.
Pillow Cases, \$1.
Huck Towels, 48c.
Natural Color Crash Cushion Tops,

Pique Kiddie Dresses, 58c.
White and Colored Kiddie Rompers,

White All-Linen Pin Cushions, 68c. Odd lines stamped goods at half to clear.
Odd lines wool to clear at half.

GLOVES, HOSE. Chamoisette Gloves in washable shades of mastic, mode, pongee, grey, etc.—all sizes.

At Daniel's, Dollar Day, 69c.

Fancy Gauntlet Gloves, side fastened, grey, brown, mastic.

Dollar Day, \$1 Cape Kid Gloves, cage dome fast-eners. French Kid Gloves, brown, black.

Dollar Day, \$1. Black Lisle Hose, trifling imperfecAll-wool 52 in. Serge, navy, grey, garnet, green, Copen, taupe; \$1.95 value.

For Dollar Day, Wednesday, \$1.29.
All-wool 42 in. Serge in navy; worth \$5c. 69c.

Duchess Silks in every new and leading colors well worth \$1.98 for

leading color; well worth \$1.98 for Square Veils in black, navy, purple.

LINEN AND TOWELS.

2 for \$1.00.

Fine Huck Towels, hemmed and fringed. Regular 29c. 6 for \$1 35c. Towelling, natural or red strine. 4 Yards, \$1.

Linen Crash Towelling, red border. 29c. value 5 Yards, \$1.25 Linen Glass Towels, large, with red or blue border . . . 2 for \$1

Daniel Head of King Street

61 King St.

212 Union St.

677 Main St.