

POOR DOCUMENT

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THE EVENING TIMES AND STAR, ST. JOHN, N. B., SATURDAY, FEBRUARY 17, 1923

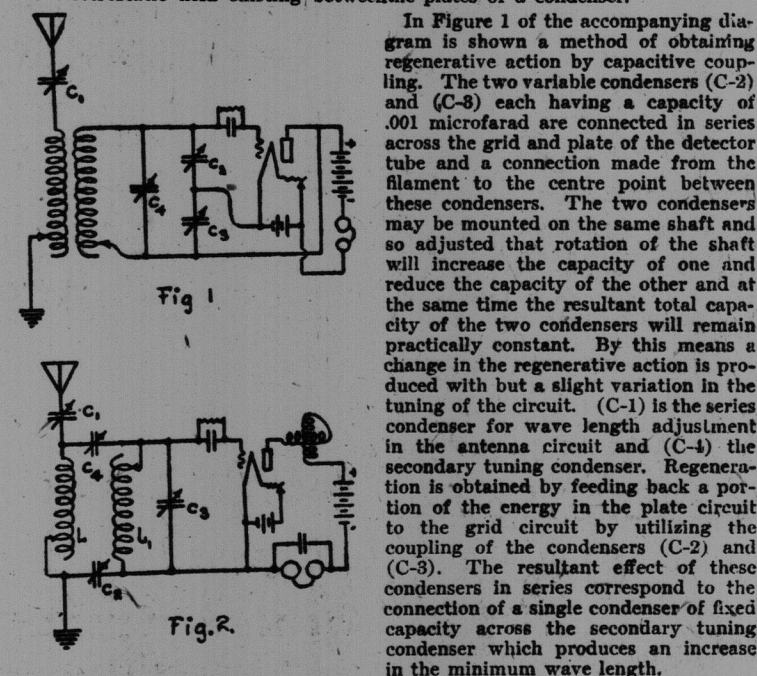
FIFTEEN MINUTES OF RADIO EACH DAY

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

Lesson No. 235.

CAPACITIVE COUPLING IN RADIO RECEIVING CIRCUITS.

Coupling in circuits designed for the reception of radio signals may be inductive, conductive or capacitive. Inductive coupling secures a transfer of energy between the primary and secondary circuits by utilizing the properties of the magnetic field and this form of coupling is widely used in both transmitting and receiving systems. In conductive or direct coupling the primary and secondary circuits have an inductance coil in common, the respective circuits having adjustable connections to the coil so as to regulate the number of turns in each circuit. In "capacitive" or "electrostatic" coupling the primary and secondary circuits are secured by means of an electrostatic field existing between the plates of a condenser.



In Figure 2 is shown a form of regenerative circuit containing two single layer coils (L1 and L2) which constitute two variable inductances, the coupling between these coils being secured by the variable condensers (C2) and (C3). These condensers are mounted on the same shaft and each has a capacity of .0005 microfarads. The secondary circuit consists of the inductance coil (L2) and the variable tuning condenser (C3) which has a capacity of .001 microfarads. The variable series condenser (C1) in the antenna circuit has a capacity of the same value. Regeneration is obtained in this receiving system by means of the "tuned-plate" method whereby the plate circuit is tuned by the insertion of a variable inductance, such as a variometer, as shown in Figure 2.

The necessary coupling, by which a portion of the plate circuit energy is fed back to the grid circuit, is secured by the capacity existing between the grid and the plate of the tube itself. Inductance coil (L1) may consist of fifty turns of No. 22 cotton-covered wire wound on a tube three and one-half inches in diameter while coil (L2) has thirty turns of No. 22 cotton-covered wire wound on a tube of the same diameter as (L1).

Comparatively sharp tuning and a reduction of interference may be obtained by the use of "capacitive coupling" which also affords a rapid and easy method of changing the coupling between the primary and secondary circuits. In comparison with inductive coupling, however, this form of coupling does not give as sharp tuning and as high a degree of selectivity.

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RECENT DEATHS

Michael Cullinan.

Michael Cullinan, a well known resident of this city, died yesterday at his residence, 134 British street. He is survived by his wife. The late Mr. Cullinan was an employee of the New Brunswick Power Co. The funeral will take place on Sunday afternoon at 2:30 o'clock from his late residence.

Frederick H. McKiel.

The death of Frederick H. McKiel occurred early yesterday morning at 182 Princess street, after a few weeks' illness, although he had been in poor health for some years. The late Mr. McKiel at one time practiced law in this city, and was later connected with The Broadstreet Co. He was born in 1858, and was the son of the late Squire William McKiel and Emily McKiel. He is survived by three brothers, F. E. McKiel, of Brown's Plate, Albert, of Chicago, and George, of Vancouver, and one sister, Mrs. A. Hoben, of Denver, Mass. The funeral will take place at 9:30 o'clock on Saturday afternoon from Trinity church.

Mrs. Alexander Adams.

The death of Abigail Adams, widow of Alexander Adams, occurred at her residence, 60 Gilbert's Lane, on Friday afternoon. Mrs. Adams was born in Prince Edward Island on October 5, 1841, and came to St. John when six years of age. She is survived by two sons, Walter A. Adams, and three grandchildren; one sister, Mrs. Arthur Gough, resides in Dorchester, Mass. The funeral will take place on Sunday afternoon from her late residence.

The annual service of the Knights of Pythias will be held tomorrow in the tenary church, arrangements having been completed by the anniversary committee. The service will be conducted by Rev. R. G. Fulton, assisted by Rev. Dr. David Hutchinson. There will be a choir of fifty male voices. The collection, which is expected to approximate \$1,000, will go to the New Brunswick Protestant Orphanage.

For
Easter Breakfast
give the
family
Gunns
MAPLE LEAF
BACON & EGGS

A copy of "The Child's Book of Rhymes" will be sent on request with the compliments of

GUNNS
LIMITED
Toronto Montreal St. John, N.B.

Clearance Sale of Nippon China

Teacups, Saucers and Plates	\$5.00 dozen	Reduced from \$11.00 dozen
Cream Pitchers	25c each	60c each
Bowls	20c each	50c each
Cake Plates	40c each	90c each
Sugar Bowls	30c each	75c each

W. H. HAYWARD CO., LIMITED
85-93 Princess St.

AMDUR'S Re-opening Exhibition!

FOR CARNIVAL WEEK!

Ladies' Sweaters	Men's Sweaters
White pullovers, V necks; shawl collar styles	Coat Sweaters
\$2.95, \$3.95, \$4.95	Jumbo-Knit, Pure Wool Sweaters
Golf Hose	Men's Jersey Sweaters
49c Pair	Extra Fine Quality
Fleece-lined Bloomers	Men's Mufflers
59c Pair	Boys' Fine Jersey Pullovers
	98c

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

W. F. Todd To Succeed Mr. Pugsley As Governor

Ottawa last evening notified Hon. William Pugsley, Lieutenant-Governor of the province, that his resignation as Lieutenant-Governor had been accepted to take effect the end of February and that W. F. Todd of St. Stephen had been appointed to succeed him.

Mr. Pugsley's resignation had been submitted to take effect February 28 and the message he received last evening from the secretary of state said his request had been granted.

Mr. Pugsley in speaking of his future plans said that he would resume the practice of law in St. John as consulting counsel. "I have not lost my love for politics," he said, "but my future in that regard rests with the people." Dr. Pugsley is one of Canada's ablest lawyers and it is natural to suppose that in view of his long and successful career in law and politics that there will be a strong and insistent demand for him to again enter public life.

Frederic Veniot expressed his regret at Dr. Pugsley's resignation. The message from Ottawa was as follows:

Ottawa, Feb. 16.
Hon. William Pugsley, Lieutenant-Governor of New Brunswick, St. John.

I beg to advise you that as requested your resignation as Lieutenant-Governor of New Brunswick has been accepted to take effect the end of February. W. F. Todd has been appointed to succeed you.

A. B. COPP, Secretary of State.

First to Congratulate Successor.

The Lieutenant-Governor was the first to congratulate Mr. Todd on his appointment as his successor. He sent the following message without delay:

St. Stephen, N. B.
Received despatch from Secretary of State today informing me that my resignation as Lieutenant-Governor to become effective on the 28th inst., has been accepted, and that you have been chosen as my successor. Accept my most hearty congratulations.

WILLIAM PUGSLEY.

The retiring Governor.

The paternal ancestor of Hon. William Pugsley came from England and was one of the earliest settlers on the Croton River, New York. John Pugsley, the great-grandfather of the present Lieutenant-Governor of New Brunswick, fought as an officer in the Loyalist forces during the American Revolution and soon after the declaration of peace, came to New Brunswick and settled in the Hammond River valley, Kings county. John Pugsley later returned to New York, but his son, Daniel, settled in Cardwell, Kings county. William Pugsley, the son of Daniel Pugsley, was a successful farmer residing in the vicinity of Sussex and his son, William, was born in Sussex on Sept. 27, 1850, and it was in the common schools of Kings county that he received his early education.

He continued his education at the University of New Brunswick from which he graduated with the degree of B. A. in 1868. His course at the university was a very successful one throughout. He was prizeman in English Literature in 1866; Classics in 1867 and Mathematics in 1868. In his junior year he carried off the Alumni Gold Medal for the best translation of English prose into Latin. He received the degree of B. C. L. in 1871 and that of D. C. L. in 1884.

William Pugsley was first married to Miss Fannie Parks, daughter of the late Thomas Parks, of this city, on Jan. 6, 1876. She died in May, 1916, and the following year he married Miss Gertrude Macdonald, of this city. There are two sons, John A., of this city, and William C., of Ottawa. He was called to the bar of the province on June 27, 1872. For ten years he was a reporter of the Supreme Court and was ap-

Stores open 9 a.m. to 6 p.m. during winter months.



Big Clearance Sale of Remnants

And Odds and Ends Left From Our Free Hemming Sale

Beginning Monday morning and continuing for three days, we will place on the counters in our linen room quantities of remnants and odds and ends left from our linen sale. Remnants are in usable lengths for household purposes. Some are slightly soiled from handling.

Every article a decided bargain.

A fine opportunity to replenish incomplete household supplies at a great saving. Included in the sale are:

Remnants of Bleached and Unbleached Sheet, Pillow Cotton, Table Damask, Towelling, etc.

Odds and Ends of Towels, Table Cloths, Napkins, Bed Spreads, Tray Cloths, Runners, Centres, D'oyles, etc.

Sale commences MONDAY.

Early comers will profit by the choice of selection. No ap- probation or exchange.

(Linen room, ground floor.)

To introduce our

New "Old English Waxer-Polisher"

We are offering one dollar's worth of Old English Wax free. If you have never used Old English Wax, you do not know how really beautiful and attractive your floors can be made. This new "Waxer-Polisher" reduces the labor of waxing and polishing to the minimum and only costs

\$4.50 including free gift of wax.

(Carpet Dept., Germain street entrance.)

Manchester Robertson Allison Limited
KING STREET - QUEEN STREET - MARKET SQUARE

Sept. 27, 1900, he was re-elected by a majority of 829. In the general elections of 1903, he was again returned and upon the appointment of Hon. L. J. Tweedie to the office of Lieutenant-Governor in February, 1907, he was chosen premier.

After the close of the session of 1907 he resigned the Premiership of the province to contest in the interests of the Liberal party the seat of the county of St. John in the House of Commons caused by the death of Dr. Stockton, the sitting member. On Aug. 29, 1907, Hon. Mr. Pugsley assumed the portfolio of the Department of Public Works in Canada, in succession to Hon. Charles Hyman, who had resigned. This office he held until the retirement of the late Sir Wilfrid Laurier on Oct. 6, 1911. On Sept. 18, 1907, he was elected to the House of Commons for the city and county of St. John and was re-elected at the general elections of 1908 and 1917.

The Hon. William Pugsley was appointed Lieutenant-Governor of the province of New Brunswick on Nov. 8, 1918, upon the death of His Honor Gilbert White Ganong, who held the office for nearly four months.

The New Governor.
William F. Todd is the son of the late Freeman H. and Adeline Boardman Todd and was born at St. Stephen, N. B., on May 2, 1854. He was married on Oct. 1, 1879, to Miss Ethel J. Bolton, daughter of John Bolton, who was a member of the House of Commons soon after Confederation. He has three children, Mrs. N. Marks Mills, of St. Stephen, and Miss Adeline Boardman and Mildred B. Mr. Todd was a member of the Provincial Legislature for the term beginning in 1889 and was elected to the House of Commons as a supporter of the Liberal party in the general elections of 1906. He was the Liberal party's standard-bearer in the general elections of 1911, 1917 and 1921, but was unsuccessful at the polls. He is now a prominent merchant in the town of St. Stephen. In religion he is a Universalist.

Minard's Liniment for Aches and Pains.

A horse owned by Isaac Griffith was drowned yesterday afternoon when snow was being dumped from the Market wharf on the West Side. The horse was being backed to the edge of the wharf and suddenly speeded up, pushing the sled over the edge. The weight of snow and sled pulled the horse over and it was sucked under by the current. An alarm from Box 114 brought the firemen from No. 6 station, but they could not save the animal.

Slip-on Apron Dresses—Empire—Gingham or Cambric, ric-rac edge and patch pocket the trim and 39c the possession.

85c and 98c choose Bungalow Aprons, even in odd sizes, of Canadian Prints. Stripes and Checks.

Most any price enjoys a preference Honeycomb notions, the sunken Marcella and the White Crepe. Nine prices for double beds, from \$10.50 down to \$2.25

All-Feather Pillows

Announcement of the Curtain importations would make a story all by itself the same as the Tapestry Cretonnes, but you'll find about a million.

Monday's Advertisement Will Tell Who's Who For Dollar Day.

DANIEL
Corner of King

Kimball Estate \$3,000,000.

Rochester Woman Left Property to Daughter and Two Brothers.

Rochester, N. Y., Feb. 17.—Mrs. Laura M. Kimball, who died Nov. 27, 1922, left an estate in excess of \$3,000,000, according to papers filed in Surrogate's Court here. Mrs. Cecilia M. K. Gordon of this city, a daughter, will receive the bulk of the estate, \$1,180,148.80; Francis B. Mitchell, brother, president of the Post-Express Printing Company, publishers of the Post-Express, will receive \$577,991.99, and W. Gaylord Mitchell, another brother, secretary-treasurer of the company, \$277,991.99.

The real estate includes the home, art gallery and conservatory, valued at \$100,000; the Post-Express Building valued at \$200,000, and greenhouses valued at \$10,000.

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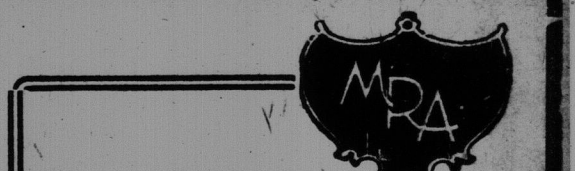
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Buy Furniture

In Our Big February Sale

For the remainder of the month we will have on sale in our Furniture Store, Market Square, a large number of beautiful pieces of furniture for Living Rooms, Dining Rooms, Bed Rooms, Halls and Dens.

These are mostly high grade qualities and are reduced to a fraction of their original worth.

The following example will give you some idea of the very exceptional bargain opportunities available now.

Two Beautiful Walnut Buffets

(One in "Queen Anne" style. Plenty of room for storage. Either piece very desirable in every way.

Original prices \$117 and \$122. Sale \$78.50 each.

Many other values equally attractive.

(Market Square)