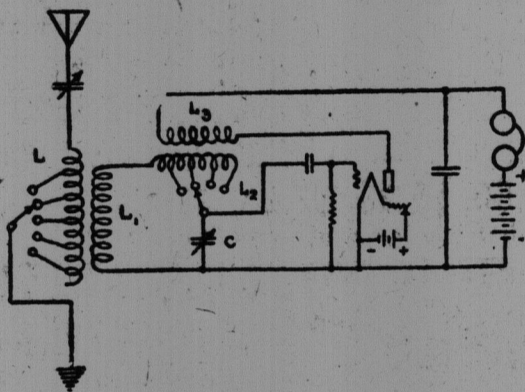


FIFTEEN MINUTES OF RADIO EACH DAY

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

THE TWO COUPLER RECEIVING CIRCUIT

The regenerative receiver employing two variometers is one of the most popular forms of amateur receiving sets and its construction as well as its operation is fairly well understood. Regenerative receivers where regeneration is obtained through the medium of a tickler coil are less common but are capable of rendering very satisfactory service if properly constructed and operated. The type of receiver here described is known as the "two coupler" regenerative receiver for the reason that there are no variometers used in the construction, the coils of the various circuits being incorporated in two variometers.



The arrangement illustrated is of the three circuit type, coil "L" being the stator or primary of the variometer, and "L2" the secondary or rotor. Included in the secondary circuit is a second coil, "L2", which really amounts to a secondary loading coil and may be the primary or stator winding of a second variometer. Coil "L2" is the tickler coil by means of which a portion of the energy of the plate circuit is fed back to the grid circuit and may be the rotor winding of the second variometer. By means of the variometer constituting the tickler and secondary load coils, the amount of regeneration and the wave length of the secondary circuit may be varied at will without affecting the coupling between the antenna circuit and the secondary circuit. This is a very desirable feature and is of primary importance in selective tuning. In many types of loose-couplers, for example, the wave length of the secondary circuit is increased by increasing the number of turns in use through the operation of the switch. This method at the same time increases the coupling between the primary and secondary circuits because the additional turns are a low inductive relation to the primary turns.

A convenient size for the variometer primaries for receiving short wave broadcasting is 3 1/2 inches with 70 turns on the stator or "L" and 25 turns on the rotor of the first variometer. Coil "L2", the tickler coil, should have about 50 or 60 turns, while the secondary loading coil need have only about 25 turns. The secondary windings "L1" and "L2" are shunted by the variable condenser "C" which should have a capacity of about .0005 microfarads.

In operation it will be found that the regenerative effect may be controlled by means of the coupling between the tickler coil and the secondary loading coil as well as by varying the number of turns in use on the secondary loading coil. Reduction in the number of turns in use on coil "L2" may be compensated for by increasing the amount of secondary condenser in use. If variometers of the 180 degree type are employed in this circuit very close adjustments are possible, a feature which is highly desirable in distinguishing between 300 and 400 meter broadcasting stations.

In localities where the interference is not a serious problem it may be desirable to omit the first variometer and connect the antenna circuit to the terminals of the coil "L2" thus converting the circuit into the standard single circuit regenerative type. In this case the coil "L2" should have about twice as many turns. A series condenser should be employed in the antenna circuit for close adjustment of that circuit.

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RECENT DEATHS

James Sidney Kaye.—James Sidney Kaye, 54 Carlton street, died yesterday after an illness of several months. He was for many years the representative of the Royal Insurance Company in this city, but retired a short time ago. He was a son of the late James J. Kaye, a well known lawyer of this city. He belonged to St. John Lodge No. 2, F. and A. M., and was a member of St. John's (St. John) club. He is survived by his wife, two sons, Richard C. B. Kaye, of Moncton, and Sidney C. B. Kaye, of this city; two daughters, Mrs. H. W. Newham, of Moncton, and Mrs. Roy A. Davidson, of this city; two brothers, Lieut.-Col. J. H. Kaye and five sisters, Mrs. J. C. Allison, Mrs. C. J. R. Kerr, Mrs. H. W. Booth and Miss Annie J. Kaye.

Week-End Specials

at
Waterbury & Rising's

FEBRUARY SALE

of Men's, Boys' and Youths' BOOTS

KING AND UNION STREET STORES
offers a Host of Exceptional Bargains in Boots—Bargains only made possible through discontinuing our wholesale business.

COME EARLY FOR YOUR SHARE

FOR MEN—
HEAVY TAN GRAIN BOOTS—\$3.45
Splendid work Boots
BROWN CALF DRESSY BOOTS—\$3.45
Made on English Lasts
HEAVY GRAIN BOOTS—\$3.95
In Black and Brown
BROWN AND BLACK BOOTS—\$3.95
All Shapes and Weights
BROWN AND BLACK BOOTS—\$4.65
Medium Narrow Toes

FOR BOYS—
Selling at \$1.88 up
Selling at \$2.28 up
Selling at \$2.28 up

Waterbury & Rising, Ltd.

61 King Street 212 Union Street

MONDAY WILL BE A HOLIDAY

for you from now on if you order us to call the first of the week for your laundry. You need not hesitate on account of cost because our wet wash system, which washes all your clothes and linens and returns them to you for ironing, is inexpensive.



DRY-CLEANING & DYEING—WET WASH & ROUGH DRY
PHONE 1707
New System Laundry Limited
WET WASH & ROUGH DRY
30-40 LANSLOW AVE.

Spanish Sheik Threw Her Out Of Apartment, Says Southern Beauty



Miss Lucille Whitehurst.

New York, Feb. 22.—(being a "Georgia peach") has its difficulties.

Just what they are, Miss Lucille Whitehurst is willing—even eager—to testify.

That not all is moonlight and magnolias in the sunny Southland has been discovered by Miss Whitehurst, whose romantic bubble has just burst with a loud and resounding report.

The belle of Americus, Georgia, she found even her ardent southern temperament unable to cope with the eccentricities of her fiery Castilian lover, Senor Mariano Vidal, and the money-bags of northern business, so she says.

According to her plaint, which the U. S. District Attorney is investigating, she and Senor Vidal were sweethearts until Vidal was made vice-consul of Spain in New York.

She says his love for her then cooled, and that, blinded by visions of Broadway's gayeties and Fifth Avenue's drawing-rooms, he was ready to forget that she and Americus, Georgia, ever existed.

In enforcing this decision, she says he snatched his engagement ring from her finger, and threw her out of his apartment here, whither she had gone in a last attempt to win back his affections.

Senor Vidal denies the charges.

72 Ludlow street, west end, Mr. MacLauchlan's death, which was very sudden, came as a great shock to his relatives and friends. He is survived by two brothers, Harry, of Manchester, N. H., and Augustus, of Bridge-water, Mass. William MacLauchlan, of

Mrs. McHale, and one brother, Samuel T. Whorton of St. John. The funeral was held in Detroit.

John F. MacLauchlan.

The death of John F. MacLauchlan occurred last evening at his residence.

NOTICE TO PUBLIC. 50c.

Come in and try our special

Turkey Supper

Saturday night, under the new managers of

PARADISE, LTD.

(Successors to Bond's) 2-26

1923—AMDUR'S BARGAIN BULLETIN No. 4—1923

Special For Saturday Only

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| MEN'S WOOLEN COAT SWEATERS | Ladies' 1923 Polo Coats .. \$6.95 |
| Slightly Damaged .. \$1.00 | Ladies' Serge Dresses |
| Boys' Fleece Combinations .. \$1.00 | Values to \$25 \$10.95 |
| PURE LINEN CRASH TOWEL-LING .. 18c Yard | Ladies' Jersey Suits .. \$7 50 |
| | Ladies' Jersey-knit Bloomers .. 29c Pair |

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



Fresh Spring Styles In Men's and Boys' Suits

Some exceptionally fine suits are showing in the M. R. A. Ltd. Men's shop NOW. You're going to like the new styles, the new fabrics and the new colorings.

For Men there are Brand New "Society Brand" and other well known, reliable makes in two, three and four button styles. Materials include Donegal tweeds, herringbone stripes, and light overplaid and checks.

The tailoring is of an exceptionally fine character and the suits have the little distinguishing touches that set them apart from the ordinary.

For Boys, we are featuring New "Kloth Klads" in refreshing spring patterns and styles. These extra fine suits are fashioned from superior fabrics and are made doubly strong at all points of greatest strain. They are as near "boyproof" as suits can be made.

Although M. R. A. Clothing has a well known reputation for superior quality—you'll find the prices no greater than for ordinary kinds.

Your inspection of the new models is invited.
(2nd floor.)

Clearance Prices on Odd Lines of Men's Furnishings

Every garment in this special selling is greatly underpriced. Quantities are limited. We advise an early selection.

Men's Fleece Lined Shirts and Drawers Sale 69c gar

Men's Heavy Ribbed Wool Shirts; large sizes. Sale 75c and \$1 gar

Men's Colored Negligee Shirts; full sized bodies. \$1.19 each

All Silk Neckwear in popular shapes and neat patterns. Sale 75c each

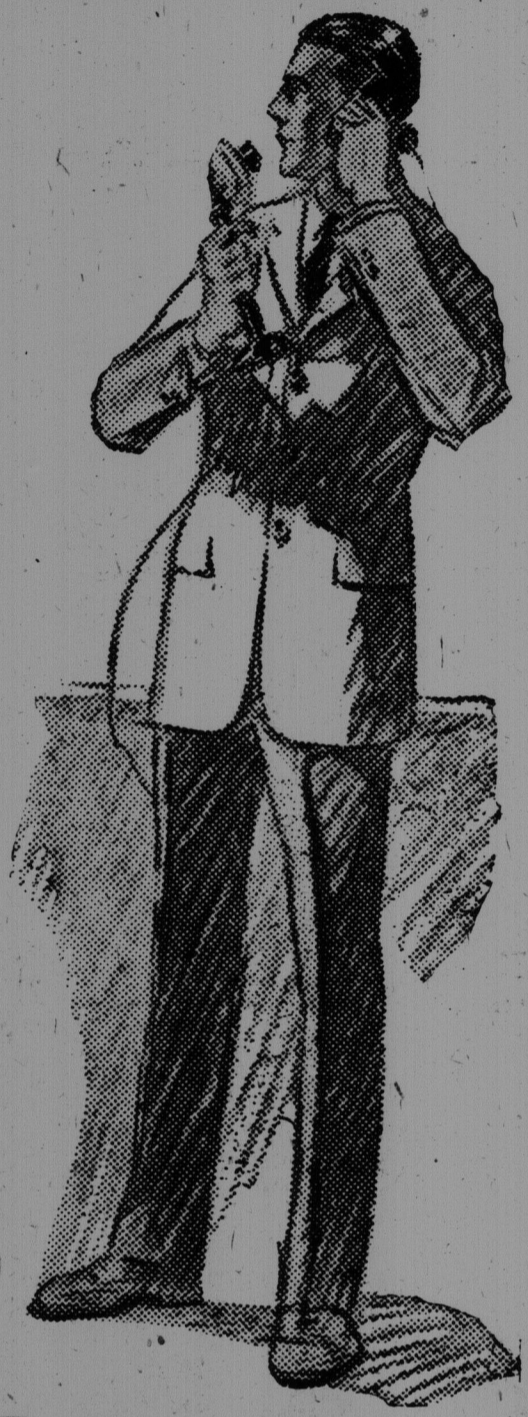
All Wool Half Hose in black, heathers and grey; heavy ribbed. Sale 55c pr

Ebony Hair Brushes Wonderful value \$1.00

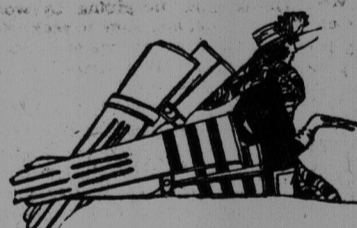
Boys' Sweaters in coat style. A few only. Wonderful value \$1.25 each

Hand Scrubs, very durable Special 45c each
(Men's furnishings, ground floor.)

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



Stores Open 9 a.m.; Close 6 p.m.
During Winter Months.



Shake Hands With the Turn-Back Stripe Glove

Something new in Vanity Fair, Chamisette Gloves with stitched backs and striped turn-back cuffs; all sizes, in mode, beaver and grey \$1.75
Chamisette Gloves with Silk stitching in colors, mode, beaver, grey and black. Tomorrow 85c.
Cape Kid Gauntlet Gloves having fancy stitched backs, in all sizes of brown and grey \$2.45

Bertha Collars 75cts Tomorrow

The finishing touch to most anything and right in the van of Fashion—Net Bertha Collars edged in lace. Tomorrow 75c.
Ninon Berthas, Valenciennes lace insertion and edging \$1.25
Collar and Cuff Sets in Flannel, Linen and Organdie, 85c.

Flowing Veils, Braided 39c

All have braided borders and come in brown, purple and black Tomorrow, 39c.
Mona Lisa Fitted Veils, brown, blue, black. 39c.
Satin Hair Ribbons, 5 inch, red, pink, rose, sky 49c.
Cap Nets of Real Human Hair 7 for 25c.
Nile Hdks., hand-drawn thread, hemstitched 18c.
Colored Lawn Handkerchiefs having fancy borders and hemstitched edge. 12c.
Fine Nainsook Gowns, stamped \$1.29
Stamped Combing Jackets 29c.
Stamped Kiddies' Dresses, colored Chambrays 85c.
Mending White Linen Centres 4 skeins for 17c.
White and Black Tape, different widths. 3 rolls 19c.
Dress Snaps, black and white. 3 cards 12c.
Sewing Needles, every size per packet, 5c.
Assorted Pins three sheets of 300 each for 14c.

Wide Rib Wool Hose, 97c

Pure Wool and in brown, sage, coating. your size 97c.
New Heathers, browns, greys, greens \$1.39
Black Cashmeres with white clocks, garter tops, double heel and toe—striking—tomorrow \$1.39

DANIEL
Corner of King

SEVEN DEATHS IN MONTH

(Moncton Transcript)

Seven deaths are reported in the C. G. R., E. R. and I. A. for the month ending Feb. 20. Names, late residences and causes of death are as follows:—

from injuries; Walter Moore, Lewis, heart failure; Geo. O. Forbes, Sydney, cerebral hemorrhage; James E. Jackson, Halifax, died as a result of an accident, and Alex. Grega, Port William, Wesley Stewart, New Wiltshire, and Spurgeon Stiles, Hillsboro, who died as result of injuries received in the

A start was made yesterday on the erection of the sub-station, the contract for which was awarded to H. O. Clark. The contract for the switching equipment for the city sub-station was signed yesterday, the Canadian Westinghouse Company receiving the order for the material.

McROBBIE
Foot St. John 50 King Street