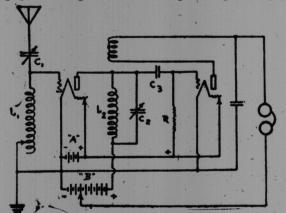
FIFTEEN MINUTES OF RADIO EACH DAY

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

RADIO-FREQUENCY AMPLIFICATION WITH A SINGLE CIRCUIT RECEIVER.

The average amateur radio enthusiast is often tempted to try experiments with new circuits and apparatus but is restrained by the necessity of taking his present set apart an re-arranging it and perhaps purchasing some new instruments. It is the object of this discussion to show how an ordinary regenerative single circuit receiving set may be converted in a single circuit regenerative set with one step of amplification without materially changing the arrangement of the wiring in the present equipment.



It is realized that the average regenerative receiver is in itself capable of amplifying radio frequency currents to an extent equivalent to several stages of radio frequency amplification. In fact, many types of foreign tuners using several stages of radio frequency amplification do not equal the usual single tube regenerative set common in this country. This no doubt accounts for the disappointment experienced by many amateurs when attempting to get as loud signals with one step of radio frequency amplification and simple tube detector as are ordinarily obtained with a good regenerative circuit requiring but one tube.

It is possible to secure the advantages of both radio frequency amplification and at the same time enjoy the advantages of amplification obtained through regeneration by employing the circuit as illustrated in the diagram above. In addition to a standard single circuit regenerative receiver, the facket

In the diagram, "L1" represents the antenna inductance in series with the variable condenser "O1" by means of which the antenna circuit is tuned to resonance with the incoming wave. "L2" and "C2" are the inductance and capacity respectively of the single circuit tuner, while "L3" is the tickler coil used to obtain regeneration. "C3" is the usual grid condenser employed with the detector tube but the grid leak "R" should be connected to the positive side of the "A" battery in order to get the correct potential on the grid of the detector tube.

In practice it will be found that the antenna system tunes rather broadly with this circuit and stations separated by a narrow band of wave lengths may be tuned in by manipulating the condenser in shunt to the tuner which will give fairly sharp tunning. Regeneration is controlled in the usual way by manipulating the tickler coil control.

FEMALE FAGIN

HEADS THIEVES

Montreal, Feb. 2.—The city police and are seeking a female Fagin who organized and controlled a gang of juvenile sneak thieves in the north end of Montreal. The depredations of this gang were brought to light today when one of its members, a youth of 18, was arraigned before Judge Cusson, charged with stealing in all 80 tons of coal. Seven other members of the gang, which comprised seventeen or eighteen

Almost every man and woman in America can remember the botanic like I was going to have to give up entirely. "Since taking Tanlac I have gained back the fifteen pounds I had lost and five pounds besides, making a gain of twenty pounds. All signs of indigestion have left me and I am eating just anything I want and plenty of it. I am off to sleep in five minutes after I get in bed and I get up in the mornings ready for a hearty breakfast and a full day's work. In fact, I have never felt better in my life than I do since taking Tanlac. As a medicine it certainly has no equal."

Almost every man and woman in America can remember the botanic

are you one

of the marked

Pyorrhea is coming. Itstrikes four persons out of every five past forty, and thousands younger, endanger-ing their priceless teeth and health.

FOR THE GUMS

35c and 60c in tubes

Almost every man and woman in America can remember the botanic recipes of our mothers and grand-mothers for the treatment of disease, and they were wonderfully dependable, too. Every fall there were stored away in the attic thyroughwort, pennyroyal, catnip, sage, wormwood, rue, etc., for treating ills of the family during the winter months that followed. In 1873, Lydia E. Pinkham's Vegetable Coordould was first prepared from one of these botanic recipes, and the demand for it has increased to such an extent that hundreds of tons of roots and hort that hundreds of tons of roots and herbs are now used annually in its preparation. It has recently been proved that ninety-eight out of every 100 women who try it have been benefited by its use, which is a marvejous record for any medicine to hold.

RECENT DEATHS

Mrs. John Beamish.

The death of Mrs. Sarah Beamish, widow of John Beamish, the founder of it has increased to such an extent that hundreds of tons of roots and host here will represent the such and the such and the beautiful to the women who try it have been benefited by its use, which is a marvejous record for any medicine to hold.

RECENT DEATHS

Mrs. John Beamish.

The death of Mrs. Sarah Beamish, widow of John Beamish, the founder of the university- of New Brunswick, which will take place on the sudents of the University- of New Brunswick, which will take place on the sudents of the University- of New Brunswick, which will take place on the sudents of the University- of New Brunswick, which will take place on the sudents of the University- of New Brunswick Lodge, No. 1, which was the premier Pythian cere-thaving held him in high regard as the founder of New Brunswick Lodge, No. 1, which was the premier Pythian lodge in the British Empire, of St. John, and Miss Beamish, at bome of Mr. and Mrs. W. B. Lynch, Mrs. Roberts and Miss Beamish, at home of Mr. and Mrs. Meanish, of Beston; one sisteft, Mrs. B. University of Point, by the members of the valentine tea and sale. Refreshments were served and games and

Lancaster, and Dr. George Emmet Warren, which was solemnized in New York on Saturday, January 13.

Special-WEEK-END Values -At Waterbury & Rising's-Having a few lines left from our January Sales we are offering them this week-end at very attractive prices. MEN'S 10 Button Gaiters Small sizes only. 4 Buckles. Jersey Overshoes 4 or 5 Buckles. Moccasins for Carnival Week and all out-door Waterbury & Rising, Ltd.

61 King St. 212 Union St. 677 Main St.

These Women's Overshoes are shown in button and buckle. Sizes 21-2, 31-2, 4, 41-2, 51-2, 6, 61-2.

WOMEN'S FINE QUALITY LACE and BUTTON BOOTS in sizes 21-2, 3 and 31-2. These

have been priced to ensure a quick clearance \$1.45

WOMEN'S RUBBERS — in a number of styles and 70c

YOUTHS' HOCKEY BOOTS —in sizes 11, 12, 13. \$1.30

These and many other bargains are shown in our windows and on our bargain table.

Don't Miss This Opportunity

McR OBBIE

LOST 15 POUNDS; THEN GAINED 20

Castle Declares Tanlac Ended Long Suffering From Indigestion, More Than Restoring Lost Weight and

"The best I can say for Tanlac is not good enough," declared A. J. Castle, 252 Second Avenue, South, Saskatoon, Sask., caretaker of the Royal Bank

w. "L2" and "C2" are the inductance gle circuit tuner, while "L3" is the tick-C3" is the usual grid condenser employed leak "R" should be connected to the order to get the correct potential on the at the antenna system tunes rather as separated by a narrow band of wave ting the condenser in shunt to the tuner g. Regeneration is controlled in the derivation of the collection of the condenser in the Juvenile Court. Re-vill appear in the Juvenile Court Re-vill appear in the Juvenile Court. Re-vill appear in the Juvenile Court Re-vill appear in the I did eat hurt me. I would bloat up with gas almost a physical wreck. I had no appetite, or relish for food of any kind, and what little I did eat hurt me. I would bloat up with gas so missing the condense in the law appear in should be a will a was almost a physical wreck. I had no appear in the Juvenile Court Re-vill appear in the

W. R. Lynch. Mr. and Mrs.
Warren-Belyea.

Friends in St. John will be interested to hear of the marriage of Miss Annic Mildred Belyea, daughter of Abner M. Belyea, of the D. S. C. R. Hospital in Lancaster, and Dr. George Emmet Warren, which was solemnic with a solemnic was a solemnic with the marriage of the D. S. C. R. Hospital in Lancaster, and Dr. George Emmet Warren, which was solemnic with the Misses Jennie and Agnes Moriarty.

Miss Elizabeth Moriarty.

The death of Miss Elizabeth Moriarty.

The death of Miss Elizabeth Moriarty with D. W. McKean presiding. John Prodsham gave musical selections on his auto-harp and J. F. Browne told of his experiences as an officer of native troops in India. Dr. Gorham and and the Misses Jennie and Agnes Moriarty at home. The funeral will take refreshments.



Stores open 9 a.m.; close 6 p.m. During winter months.

Sales in Our Men's Shop Offer Many Big Bargain Opportunities

New Spring Goods will soon be taking the place of Winter Merchandise in this store. This makes it necessary to dispose of winter stocks immedi-

A Clearance of Men's

ductions on both clothing and furnishings.

present extraordinary values are available.

Boys' School Suits Reduced

We're giving you value you'll The very best makes carried hardly expect to find in these suits. There are many of the in our boys stocks are included famous "Society Brand" models at sale prices. Among them are many "Klothklad" Suits—(the kind every boy wants to own.) fully selected fabrics. Every "Klothklads" are reinforced with double aleast all points of one is excellently tailored.

Many of these have been strain, making them give months chosen from high priced lines.
The liberal reductions offered

ately. In order to do this we have made many drastic price re-

Even for future needs you'll find it a wise idea to buy while

during this sale, make it well lt's only seldom you find such worth your while to buy now.

(2nd floor.)

Winter Furnishings

Greatly Underpriced

Men's Fleece Lined Shirts and Drawers-Very Extraordinary Value 69c Boys' Coat Sweaters—Warm and long wearing. Popular colors. Two Bargain Prices... 79c and \$1.39 each Men's Heavy Ribbed Wool Socks in black only.

(Ground floor.)

NGTIONS



The Famous Annual Sale Now in Full Swing

OCEANS OF NOTIONS IN THIS GREAT SALE

It is truly the year's greatest event for housewives, dressmakers or milliners. Come in early on Saturday. Buy freely for future needs and institute a goodly saving.

"Sonia" real hair cap nets, all shades. 7 for 25e. Fine mesh elastic nets, good Superior brass pins, heavy qual-2 papers for 17c.

300 assorted pins, heavy quality, 3 papers 14c. Invisible assorted hair pins, fine 72 hooks and eyes and loops on

Brass safety pins, swarded coil, good and strong, 2 doz. 17c.

Orkney safety pins, guarded coil, 2 doz. for 13c. All wool mending skeins, all colors, 4 for 17c. Wool mendings, all shades, 4 cards for 10c.

NEW DRAPERIES AND **HANGINGS** At Interesting Week-end

1,000 yards of new cretonnes in all the newest colorings and designs, 36 in. wide. Special Saturday,

Just in, 1,000 yards double border curtain scrim, in white, cream or ecru. Pick them up Saturday, 5 yds. for 69c.

24 only circular chintz covered cushions, several colorings and designs.

Long boot laces, tan or black, Magic flake dye, all colors, 5c. a package Cameo white and white elastic, 6 yds. for 35c. 11/2 doz. assorted gilt safety 60 inch tailor's measuring tapes,

2 for 11c. Assorted white tape in 6 yard Camel brand needles, fine quality, 1 doz. in pkg. 5c. Dress snaps, white or black, all sizes, 3 doz. for 12c. Nail brushes, special,

3 doz. for 10c. Delong dress snaps, white or black, 3 doz. for 15c.

WOOL SERGES 800 Yards For the making of New **Duchess Pailette** Spring Garments Half Price Saturday

900 yards, all wool serges, in \$1.69 a yard navy, black, brown, gray, taupe, garnet or green, 54 inch wide. Reg. price Fine Duchess Pailette Silks \$2.75 a yard. in all the leading colors, as Half price Sat., \$1.38 well as black and white. Buy

what you need now for the 150 yards of all wool navy making of Spring garments serge, 42 inch wide. Half price 69c. yd. at this low price.

Special shoe trees, 14c. pair Dress belting, white or black,

Bath Soap, large cakes, 4 for 25c. White linen buttons, assorted

Real hair double mesh cap nets,

Knitting pins, bone or wood, 22c. pair Toilet pins, colored heads, 13c. cube

West electric curlers, Special hair wavers, 2 cards for 9c. Hose supporters, ladies or children's, white or black.

Special mourning pins,
2 boxes 8c. TOWELS, PILLOW SLIPS,

> SHEETS, Sale Priced Saturday.

400 hemstitched pillow slips, fine cotton, sizes 40 to 44 inch; reg. 50c. Saturday 39c. each 300 white and colored Turkish towels, large size, Saturday 23c. each

250 fine bleached cotton sheets, size 2x21/2 yards, Saturday \$1.29 each 200 fine irish huck towels, Saturday 19c. each

London House

Silk

Amdur's, Ltd., The Woolen Centre

AMDUR'S, LTD.

No. 1 King Square

SPECIALS—SATURDAY ONLY

White, Scarlet and White, Royal and White.

Spring Weight

Regular 85c Quality

LADIES' JERSEY-KNIT BLOOMERS-

LADIES' V-NECK SWEATERS-

BOYS' WORSTED STOCKINGS-