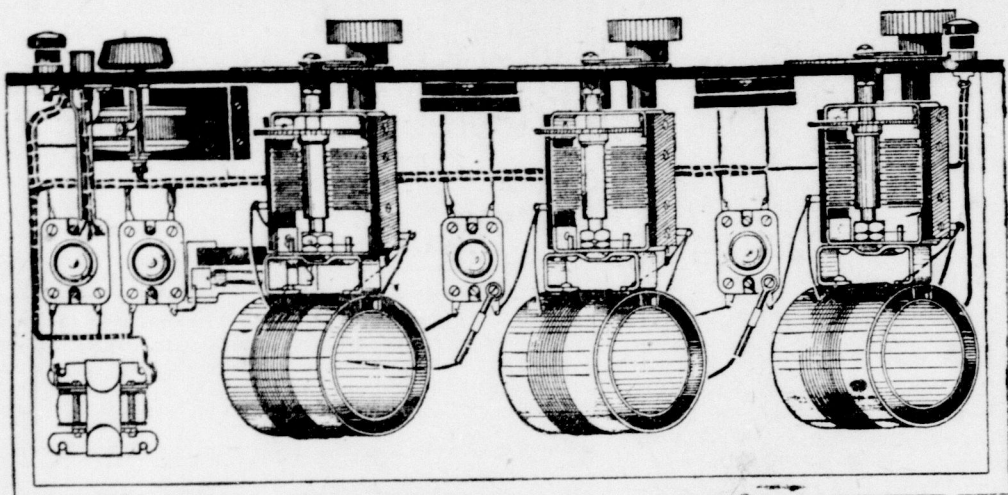


THE GIFT FOR THE FAMILY—RADIO

PEANUT TUBE NEUTRODYNE

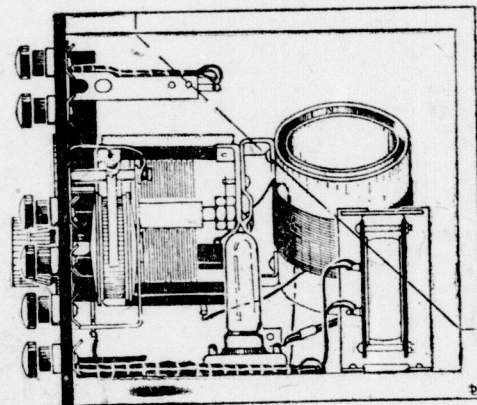
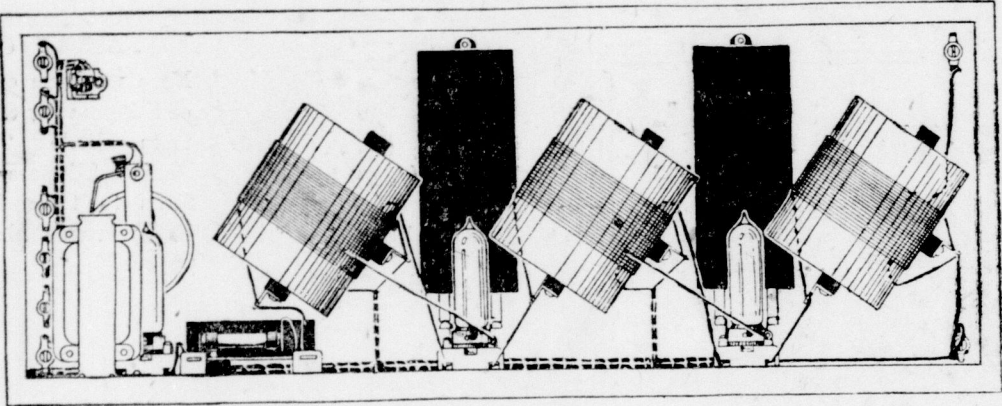


STOCK LIST FOR 4 PEANUT TUBE NEUTRODYNE

- | | |
|---|--|
| 3 - 562A CONDENSERS | 2 - NEUTRALIZING CONDENSERS AS PER SKETCH RS# 84 |
| 2 - 562B CONDENSERS OR 562A CONDENSERS | 1/4 LB. SPOOL OF #26 OR #28 DOUBLE COTTON COVERED WIRE |
| 1 - R70 CONDENSER | 3 - BRASS COIL MOUNTINGS AS PER SKETCH RS# 84 |
| 4 - R210-A PEANUT TUBES | |
| 4 - R40 SOCKETS | |
| 1 - R42-C CONDENSER | |
| 1 - R53-C GRID LEAK | |
| 1 - R54-A THEOSTAT | |
| 1 - R23-C SINGLE CIRCUIT JACK | |
| 3 - TUBES (CELORON OR BAKELITE) 2 1/2" DIAMETER X 3" LONG (1/2" WALL) | |
| 3 - TUBES (CELORON OR BAKELITE) 2" DIAMETER X 3" LONG (1/2" WALL) | |
| 1 - PANEL 7" X 10" X 1/2" (CELORON OR HARD RUBBER) | |
| 6 - #26 BINDING POSTS BOX PER 2554 | |
| 1 - #R26 OR #R29 TRANSFORMER | |

LIST OF DRAWINGS

- | | |
|--------------------------|--------|
| BOX DRG. | RS# 84 |
| PANEL DRG. | RS# 79 |
| DRILLING OF FLOOR OF BOX | RS# 80 |
| HOOK UP | RS# 81 |
| WIRING DIAGRAM | RS# 82 |
| ASSEMBLY | RS# 83 |
| DETAILS | RS# 84 |
| LOCAL CABLE | RS# 85 |



R.S.# 83

Radio Questions With Answers

By C. H. LANGFORD.

Mr. N. Garner, 138 Patterson avenue, Chatham, Ont., requests information relative to making a single circuit receiver selective.

Ans.: The double rotor coil you speak of can be made more selective by replacing the fixed condensers in the aerial circuit, with a good 22-plate variable condenser. Also, if the aerial is short, better results can be

obtained by shunting the antenna circuit with a .0025 fixed mica condenser. If you intend using the ordinary vario-coupler and 23-plate condenser, substitute the variable condenser for the fixed condensers, substitute the .0025 fixed condenser in the aerial circuit and place the variable condenser across the secondary circuit or grid to filament portion of the coupler. Owing to the fact that this department is not fully organized, diagrams are omitted today.

Mr. E. W. Brown, Alveston, Ont., asks information as to what circuit using one tube will give the best results.

Ans.: The best circuit, from the standpoint of simplicity in construction, good volume, distance, and non-interfering with nearby listeners is the three-circuit receiver. In the near future a good three-circuit receiver will be given in this space. It is against the policy of this department to discuss the merits and failing of any particular manufactured radio articles.

FOGS STOP TRAFFIC.

Brussels, Dec. 12.—An intense fog has paralyzed navigation along the coast for the past three days. No ship, with the exception of the Harwich mail boat, has arrived at Antwerp since Wednesday. Some 40 vessels were anchored today at the mouth of the Scheidt around Flushing, awaiting the lifting of the fog.

A Gift That Brings the World To Your Door

This year, let Christmas open to your home a new world—a world of music, entertainment, instruction, that lasts the whole year through.

This year you can satisfy the most exacting demands you may have made for Radio Receiving Sets. For now, in a Northern Electric you obtain the full, rich tones, the clear, mellow quality and all the refinements of a fine musical instrument.



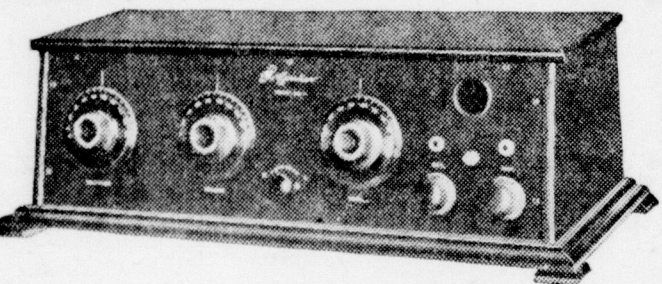
See the Northern dealer. Your time will be well repaid, especially if you wish your gift to express thoughtful selection.

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Just in time for Christmas. TWO NEW IMPROVEMENTS and PRICE REDUCTION. NEW—A device for eliminating local stations and a new system of amplification. These improvements are found only in "THE CANADIAN" receiver, priced at \$90 to \$225 for the cabinet models and \$275 for the console. If you have a receiver at present, it will be taken in part payment. When you buy "THE CANADIAN" receiver, you buy more than a name or trade mark. Demonstrations any time. Call or write.

C. H. LANGFORD
258 CHEAPSIDE ST. PHONE 5653J.

PEANUT TUBE IS ADAPTED TO NEUTRODYNE CIRCUIT

Radio Engineer Explains How Best Results Can Be Obtained.

REAL EFFICIENT

Lack of Success in Past Due to Wrong Type of Coils.

By W. B. CARMEL, Radio Engineer, Northern Electric Company, Limited.

This set is very easy to make up, and is very efficient because it uses peanut tubes. This information is for the use of amateurs.

A number of people have asked the writer if it is possible to use peanut tubes in a neutrodyne circuit. The reply is that the peanut tube being an unusually efficient radio-frequency amplifier, it is suitable for use in any kind of a receiving set including the neutrodyne. Those who have tried to use peanut tubes, however, were unsuccessful because they used them with coils which had been designed for use with larger tubes. The writer, therefore, determined to design a peanut tube neutrodyne, and such wonderful results have been obtained with this set and so many people have expressed a desire to make it up that it has been decided to publish full information about it. Very complete drawings are being made up in connection with this set, but this has been a very slow job, and has taken considerable time. In the present article information is given quite sufficient for making up the set, and the various little drawings which the amateur will find so helpful in making up a set are shown herewith.

I would like first to say why the peanut tube is especially adapted for a neutrodyne set, apart from its efficiency as a radio-frequency amplifier. From the standpoint of economy the peanut tube is in a class by itself. I am not at present referring to the economy of "A" battery for which the peanut tube is so well known, so much as the "B" battery economy. The larger tubes consume approximately twelve times as much "B" battery as the peanut tube, but worse than this, when used in a 4 or 5 tube set the amount of "B" battery consumed becomes very heavy drain, so that the life of the batteries themselves is very materially shortened, due to their being overloaded. Operation Very High.

Using dry cells the cost of operation of the set is very high. This may

"Best for short-wave reception."

Says The Philadelphia Public Ledger (Dec. 12, 1924): "It is a well-known fact that vacuum tubes with small elements are best for radio-frequency amplification, particularly for short wave reception. For this reason Myers Tubes should be used throughout. Besides having small elements, the grid and plate leads extend from opposite ends of the tube, preventing the usual noises common to the bulbous or incandescent type."

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Myers Tubes
Practically Unbreakable



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Radio Questions and Answers

Write to Radio Editor, care The Advertiser, about your Radio problems—how to overcome your troubles, good hookups to use, in fact anything that you would like to know authoritatively about in connection with building, setting up, operating or buying Radio sets. Mr. C. H. Langford, Radio Inspector, has joined The Advertiser Radio Department, and will give personal attention to the answering of questions about all or any of the interesting things that make up Radio. As many as possible of questions and answers will be published each Saturday on the Radio Page.

be overcome by the use of a storage "B" battery, which, however, is very expensive and troublesome, requiring constant recharging. Using 4 peanut tubes in this set, one obtains great battery economy and splendid results as regards distance and volume. It will give splendid loud speaker operation on a small loud speaker such as the Northern Electric R522 loud speaker attachment, which has been built for use with a phonograph tone arm.

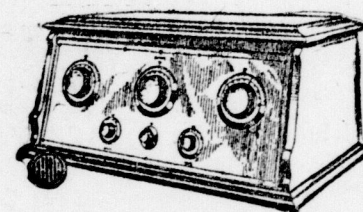
Used, however, with one of the larger instruments such as may be more properly termed a loud speaker, a one-tube power amplifier is recommended. I would like to say a word more on this point because the raison d'être of this set is tied up with this explanation and hinges largely on a question of the type of vacuum tube. If we use four peanut tubes and then one large tube we get the same result that we would obtain if we used five of the large tubes. The very small

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GIVE RADIO

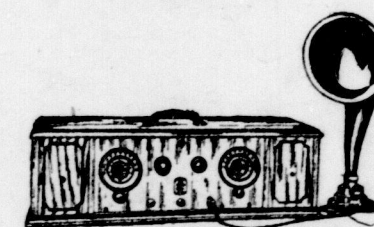
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ATWATER-KENT RADIOS

FADA NEUTRODYNE RECEIVERS

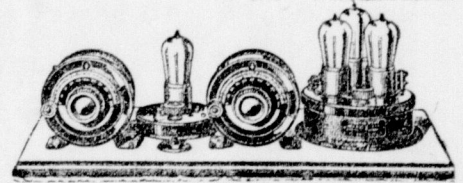
MARCONI RADIO RECEIVERS

NORTHERN ELECTRIC RECEIVERS

RADIO CORPORATION RADIOLAS

WESTINGHOUSE RADIOLAS

ZENITH RADIO

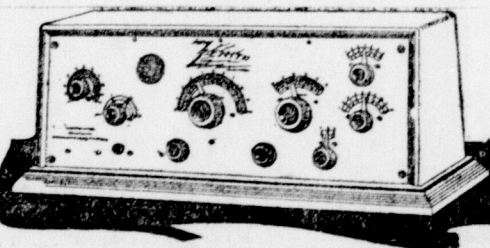


RADIOTRON TUBES

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U. V. 201A, W. D. 11,
W. D. 12, W. D. 25

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