Thursday, Decen

Now that

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Can't you



#### Single Tube Reflex Receiver

(Part Two)

#### **Constructional Details**

By R. M. SHERRILL (Radio Engineer)

As mentioned in Part One, the single tube reflex should be built to

316-inch diameter. It is desirable to space the turns The primary of this transformer is 10 turns of 20 gauge DCC wire making contracts for the sale of Professor Dean addressed the gathwound with 50 turns of the same wound over the lower half of the power from their plant, within their ering, and it was when dealing with This number of turns in the pri- lower half of the secondary. mary will probably be greater than The connecting of the different necessary, but the exact number will parts is comparatively simple if the At the recent meeting of the Onment. The method for this deter- capacity. mination is given later.

Better Method

A still better coil may be made by A still better coil may be made by which farmers, at present, must obligate themselves.

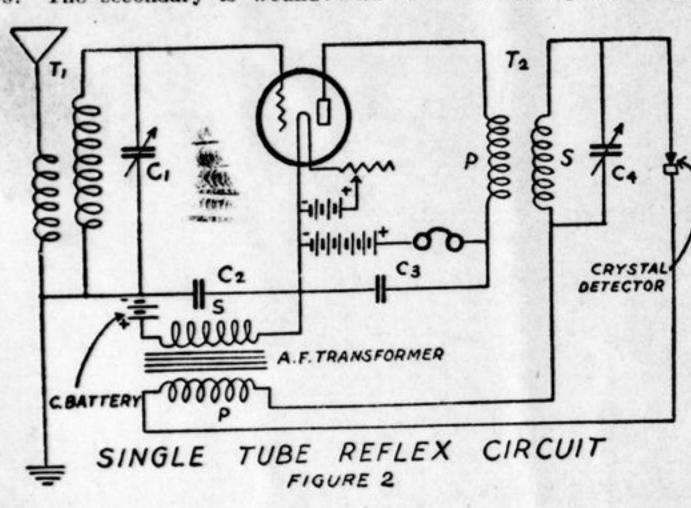
A still better coil may be made by which farmers, at present, must obligate themselves.

A mild outburst of laughter greet-ligate themselves.

A mild outburst of laughter greet-ligate themselves.

A further plea was made for greater local autonomy, both in the greater local autonomy it was quite evident that he was in core. The advantages and details matter of constructing lines, and in it was quite evident that he was in turns of 24 gauge DCC wire on a of this type of winding have been the matter of a group of farmers earnest.

size of wire directly on top of the secondary coil. It is well to put a own district, where such contracts the value of milk as a food product, secondary. If the secondary wind- layer of paper around the second- are approved by the Ontario Com- set forth by the scientists, that he ing has been spaced, the primary ary before winding on the primary. mission. winding may be wound in the spaces The primary winding should be between the turns of the secondary. spaced so that it evenly covers the



on a 3½-inch diameter. These turns not be disappointed if the receiver picious—notes which might be of should be spaced by the thickness "howls" a bit a first. The howling service as blackmailing material Madison Square Garden. A footman condenser, is chiefly responsible for A. F. transformer leads. the selectivity of the receiver, it is well to use special care in its con- turning up the condenser C4 should WALKERTON GIRL

struction. If the winding is to be on a card- lation starts and distorts the sigbeard core, the cardboard should nals. The primary of the reflex Found Unconscious By Roadside demus. At the proper moment, first be thoroughly dried. It should transformer T2 should then be adthen be covered inside and out with justed by taking off turns of wire a thin coat of shellac or collodion until the tube will not quite osciland should be allowed to dry be- late when the signals are tuned in fore using.

at their loudest. (Copyright, 1924, by The Bonnet-Brown Corporation, Chicago)

#### RADIO QUESTIONS AND ANSWERS

Mr. Sherrill will be glad to help you solve your radio problems. Write him, care of The Durham Chronicle.

R. K. says: "I am using an Ultra-| should be used while neutralizing Audion built after the one described the tube capacity. These will not They secured medical assistance, in your paper. I find it hard to use be cut out when the filament is out, and the girl was brought to her however, as it will not stop oscil- The volume of the set will not be home, where her condition was

Ans.-You can probably control would be very much better. the oscillating by using a lower reessary to use a lower B battery crystal set for receiving local radio- o'clock she was stopped on the voltage.

noutralize a Neutrodyne receiver, other? Will the extra headphones ing more until she awakened in her but when the filament is out in the make the signals any weaker?" but when the mannent is out in the first tube, everything is cut out. Al-first tube, everything is cut out. Al-so the volume is not good now. Will at the phones are ficiently recovered to give the authit be better when the set is bal- alike, they may be connected in anced? Would you advise making parallel; if different, they should start an information on which to up a 5-tube Neutrodyne but with the be in series. Try them both ways. push-pull in place of the straight The signals will be somewhat weakamplification in the last stage?" er with the extra pair of phones in Ans.—Only very strong signals the circuit.

lating sometimes. Can this fault be improved after neutralizing. The 5- found to be serious. tube set made up as you describe

make the signals louder until oscil-

NORTHERN LEAGUE HOCKEY THIS WINTER

Players and Fans Decide on Sen- evidence. ior N. H. L. Team.

Durham is to have league hockey this year, according to a decision reached at an enthusiastic gathering of fans and players in the Hahn House on Thursday evening of last

Despite little or no publicity given there was a big crowd on hand, and little time was wasted in getting The following officers were

President—W. Calder. Vice-President—J. N. Murdock. Sec.-Treas.—M. Steinacher.

Managing Committee—J. A. Mc
Managing Committee—J. A. Mc
Managing Committee—J. A. Mc
Managing Committee—J. A. Mc
McLachlan will

L. Saunders. J. A. McLachlan will

manage the team this season.

During the fore part of the season, it looked for a time as though no league hockey would be played here league hockey with the prospect of this year, but with the prospect of

a good team in sight, it has been decided to play league hockey this

At present, the outlook is very promising for a first-class team, and no doubt, with a few workouts, Enthusiastic Meeting of Hockey other good players will be in

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F. W. MOON, - MACHINIST

# **DECLARES BECK**

Farmers Urge That Government Pay 100 Per Cent of Line Cost.

IS TO COST LESS

HYDRY FOR FARMS

were announced, Wednesday of last jects on which scientists might week, by Sir Adam Beck to the mem- make their experiments, was one of bers of the Agricultural Inquiry the suggestions advanced by Pro-Committee of the Ontario legisla- fessor Dean of the Ontario Agriculby Sir Adam, to be the result of Monday evening to members of the the Ferguson Government's legisla- Woodstock Rotary Club, who had secondary, as well as rural primary of the community. lines by fifty per cent, and it was Professor Dean pointed out that a said they would go far towards definite solution of the action of meeting the views of the agricultur- treatments could not be properly al community on the matter of evolved by using rats and guinea

through half a dozen speakers were fect than they would have upon a essentially the same, namely, that human. This difference, he stated, Hydro should be made available to was a perplexing one to solve, and the farmer by the government upon the difficulties in this connection a more generous plan. An increase would be overcome when human beof bonuses to both primary and sec- ings were experimented upon. " ondary lines. Exception was also believe that's the only way to solve taken to the 20 year contract to the problems that confront the sciwhich farmers, at present, must ob- entists," he stated.

described in a previous article. being given power, which is now "The four sides of the dairy in-The primary winding consists of given to municipal corporations, of dustry" was the subject on which

#### SIR ADAM'S THREAT

(The Hamilton Herald)

vary, slightly under different cir- wiring diagram is followed closely. tario Municipal Electrical Associacumstances and for different tubes, The fixed condensers C2 and C3 are tion, Sir Adam Beck complained and must be determined by exper- by-pass condensers of 0.001 mfd. bitterly of attacks on the Ontario New York Rocked With Mirth at Hydro Commission and pin-pricking When the receiver is completely criticism of himself as its chair-The main tuning transformer, assembled connect up the batteries man, and he threatened to resign if shown as T1 in Fig. 2, is made as etc., adjust the crystal detector, and such attacks and criticism continue. practical joke famous, died Monday follows: The secondary is wound with C4 in the zero position, tune The resolution of confidence in Sir of apoplexy at his country home in Adam, which the association unnan- Monroe, N.Y. He was 75 years old. imously adopted, probably had the

> letter addressed to himself and in- tions, the Horse Show and the Cat tended for his eyes only. These are Show. the only charges against the Hydro | Seventeen years ago he solemnly been made public had not Sir Adam | Puldekah got through several

fected by Sir Adam's threat are Hy- had the laugh. dro officials who, like Settell, have! He had better luck with Nicode-Adam's nerves. If everything is working properly,

tomobile .- Remembers Nothing added the further information that After Liquid Forced into Mouth.

Lena Leifso, a Walkerton girl, still in her teens, is alleged to have been | the victim of a dastardly attack Sunday night, committed by a person

at present unknown. About 10 o'clock a party of Walkerton motorists found the girl lying on the roadside, just south of the town, in an unconscious condition.

Although the girl is still suffering from shock and unable to give an G. A. T .writes: "I am using a she claims that shortly after 9 phone stations. Can I connect an- street, and, at the point of a revolver, other pair of phones to the set? forced to get into a waiting car. On Should the phones be connected in entering the car a liquid was forced J. D. F. says: "I am trying to series or in parallel with each into her mouth, and she knew noth-

When she was found, she was rav-

#### IF HE SMOKES, WHY NOT Give Him a Pipe for Christmas?

We have the largest and best assortment of Pipes in town. You will have no trouble in making a selection from our exclusive stock.

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Supplies of all kinds. A. S. HASTIE VETERAN BILLIARD PARLOR

ABOLISH THE GALLOWS

That in order to facilitate scientific research for the benefit of mankind, those convicted by the state

| Deach at Ashbury Park in 1888, and |
| Hughes, in bathing, "found" the trea| Hughes, in bathing, "found" the trea| sure. There was nearly a panic |
| maintain his rights if he doesn't care what happens to his fendera. to pay the death penalty should in-Impending reductions in the rates of Hydro power in the rural districts stead be obliged to become the subture. The lower rates were declared tural College, Guelph, in his address tion of last session, bonusing rural as their guests the leading farmers

pigs as the subjects of investigation, Views of farmers as expressed since the results had a different ef-

#### PRACTICAL JOKE KING DEAD OF APOPLEXY

Brian G. Hughes, who made the The city rocked with civic mirth effet of soothing his ruffled feelings. at two of Brian Hughe's jokes-they What he had reference to must were his most famous hoaxes-behave been the charges made by his cause they took the wind out of the former secretary, E. C. Settell, in a sails of two very dignified institu-

Commission or Sir Adam which, so entered a horse for the New York far as the public knows, have re- show, the plus ultra event of cently been made. But it is rather fashionable horsedom. The horse was odd that Sir Adam should be so a nag Hughes had borrowed from a much wrought up over what Settell horse car, and he entered it as wrote that he threatens to resign. "Puldekah Orphan, sired by Metro-Settell's charges might never have politan and Damned by Electricity."

himself demanded that they be pub- trials and almost reached the ring. licly investigated. And Settell was but a canny judge happened to mull one of his own subordinate officials, over the name and realized what it The only persons likely to be af- meant. But Hughes and the town

formed the habit of spying on fed-| mus, a cat of the genus Bowerius with 50 turns of 24 gauge DCG wire in some near-by phone station. Do the episodes which to them look sus-dime, gave him a feed and a bath of the wire. As it is this coil, which, may usually be removed by adjust- some day. This may be the sort of brought Mick ice cream and fried in conjunction with the variable ing the detector, or by reversing the pin-pricking which has got on Sir chicken, and the cat's price was

He took so many prizes that a woman complained that the judges VICTIM OF ATTACK were showing partiality. Others clamoured for a chance to buy Nico-South of Town .- Forced into Au- Hughes exposed his own hoax and

O. A. C.. Professor. Thinks. Science of bag of "gold" bearing the stamp of the United States Mint on the of the United States Mint on the beach at Ashbury Park in 1899, and out envying the naughty.

Nicodemus' name was really Jose- lion which was brass. Hughes his friends were arrested for the

The hard part is to be good with.

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didn't wear longer—we from getting inside. would not support the iron-clad guarantee that goes with every pair.

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If RHINO Rubber Foot- tually prevents dirt. wear wern't better-if it manure, snow or moisture This footwear is made

from RHINO RUBBER the toughest and most wear-resisting that Science has yet discovered-which will wear up to twice as long as ordinary rubber. Insist on RHINO Foot-

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Wm. Brigham



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life in old shoes. The prices range from 40 cents per pair for

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Men's Silk Ties in boxes	75,	.9

Men's Cashmere Hose ...... Men's Worsted Hose ......49 Misses' Pure Wool Hose, Sand Shade .69, .75c Ladies' Cashmerette Hose, Black or Brown .25 Ladies' Silk and Wool Hose, All Shades .99 Ladies' Silk Scarfs ......\$2.49

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