

#### Three Circuit Regenerative Receiver

PART ONE

By R. M. SHERRILL

(Radio Engineer)

the amateur operators in their suc- distant stations. cessful short wave work, and as this type of receiver became their lable condenser is placed in years of broadcast reception have plates connected to the ground. brought out many new types of re-

the following: 23-plate variable condenser.

vario-coupler. 2 variometers.

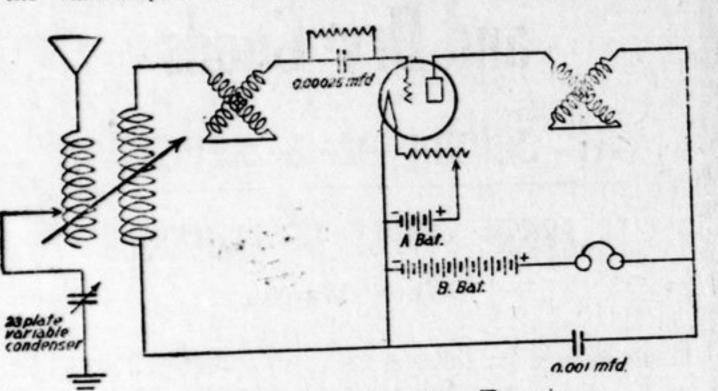
The old "Three-Circuit Variometer stage audio-frequency amplifier Regenerative" receiver was the first should put local stations on the loud real popular broadcast receiver. It speaker, and a two-stage amplifier had been used almost universally by should do the same on most of the Steel Co. be paid \$226.97, steel for

these amateurs furnished the broad- tennae and ground are connected to -Carried. east listeners with their first sets, the primary of the coupler. The var-

One side of the second (rotor of back to the "Three-Circuit Regenerative," which has been appropriately nicknamed "The Old Reliable."

The tuning apparatus consists of The tuning apparatus consists

The negative sides of the A and Lists. Carried. As the variocoupler and vario- B batteries are connected together.



Three Circuit Regenerative Receiver "The Old Reliable"

struct properly, it is recommended through the rheostat to the filament that they be bought ready-made.

about 65 turns of wire on the prim- through the plate variometer to the mary and about 30 on the secondary. plate connection on , the detector These numbers, however, will vary tube. The 0.001 Mfd. fixed condenser with the different diameters of the is connected around the B batteries coils used in different makes. The and phones to provide a better path tapping arrangement on the primary for the radio frequency currents. is not important.

cuit arrangement is to have about receiver is the most sensitive and five taps about ten turns apart. If will give the best results on broadthe coupler to be used has arrange- casting stations however, when ments made for tapping which are soft detector tube of the UV200 type similar to this, it may be used just is used. 16 to 221/2 volts of B batas it is. Otherwise, it is recom- tery are generally used with these mended that new taps be soldered on tubes. as suggested above.

#### Wiring Easy

ing this article shows a detector tube one-half to one megohm. only, and this, under favorable con- Radio Fans, Note: Part 2 of this 1,500 or 2,000 miles distant. A one- columns next week.

meters are rather difficult to con- | and the + side of the A battery goes The + side of the B battery goes The vario-coupler should have through the headphones and then

All that is necessary with this cir
Almost any type of vacuum tube may be used with this circuit. The

The size of the grid leak to be used is somewhat critical and should be determined by experiment. It will The circuit diagram accompany- usually be in the neighborhood of

ditions, should provide good head- article on a Sensitive Single Tube phone reception on stations up to Receiver will be published in these

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RADIO QUESTIONS AND ANSWERS

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

objection, in a two-stage amplifier audio-fresuency amplifier, here is trolling both filaments? The tubes denser. used are both 201As."

ectrically. In addition the use of a receiving purposes?" common rheostat is sometimes the cause of howling. It would be safer to use separate rheostats.

advantage in using a by-pass con- ground would be one or more long denser around the C battery in my bare copper wires buried directly one-stage amplifier?"

S. K. Jr., inquires: "Is there any | Ans.-If you are speaking of an to using the same rheostat for con- no reason for using a by-pass con-

D. B. F. asks: "Is a 'ground' ennec-Ans.—Ordinarily there is no ob- tion made by soldering on to a piece jection to doing this but often the of galvanized pipe which is driven tubes are not near enough alike el- four feet into the earth sufficient for

Ans.-Such a ground might be O K. if the earth around it were always moist. A water pipe would E. P. S. asks: "Would there be any probably be better. A still better under teh aerial.

### GLENELG COUNCIL

Met October 4th at Township Hall. Members all present, the Reeve in chair. Minutes of last meeting read and adopted. Comr. Black reported work filling approaches to Anderson's bridge \$217. Report adopted. Comr's McGrath No. 2 ward reported appropriation work, amount \$7: T J Brodie, ward 4, special work, \$5. Reports adopted. The Reeve reported completion of Anderson's bridge at lot 15 con 5.

Black-Aljoe: That com. on expenditure be paid as follows: Jno. Mc-Grath \$12: T. J. Brodie, \$8. Carried Aljoe-McGrath : That the Reeve and Treasurer be authorized to borrow an additional \$2000 to pay for Anderson's bridge. Carried.

Aljoe-Black: That the gravel accounts be paid as follows: Alex. Campbell, 32 yds, \$3.20: Dan McCormick, 38 yds, \$3.80 : Jas Lawrence, 80 yards, \$8. Carried.

Brodie - McGrath: That Denis Ryan be paid \$12 for 1 sheep killed by dogs and that S. H. Wright be paid \$1.50 for inspecting same. Carried. Brodie - Black : That Burlington bridge at lot 17 con 5 and that C. P. As shown in the diagram, the an- R. be paid \$35.35 for freight on steel.

Black-Brodie: That Mr David the Keyes be paid \$4,200, contract price favorite also. Although several ground wire and with the rotary of bridge at lot 15 con 5 (Anderson's Bridge.) Carried.

Black-Brodie : That the Reeve be ceivers, many listeners have come the vario-coupler) goes to the grid paid for inspecting Anderson's bridge,

Aljoe - McGrath : That Markdale grid leak to the grid of the detector Standard be paid \$116.50 for printing tube. The other side of the second- to date, viz: Part III, 1923 Voters' ary connects to the negative side of List; Parts I and II, 1924, advertising Court of Revision and Voters'

Aljoe - McGrath: That Clerk be paid on salary \$50, postage \$5.36. Carried. Council adjourned to meet Nov. 8th

at 10 a.m. H. H. McDONALD, Clerk

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Sale Closes Saturday, Oct. 11

Prices at

THE VARIETY STORE

Call and See the Sets and

#### Perfect

There was a good deal of excitement in the village when notices appeared announcing that the local minister would that night address a meeting on the subject of "The Perfect Woman-Where is She?"

He had quite a good audience and soon got warmed up to his subject. "Now," he said, during the course of his address. "I ask you, has any one ever seen or heard of a perfect

woman?" Suddenly from the back of the hall rose a tall, gaunt, angular woman in rusty black. In a melan-

eholy voice she said: "Yes, sir; I have heard of the woman you mention.

"Who was it," inquired the speak-

"My husband's first wife," replied the gaunt one feelingly.

It's nice to visit a big city but it is nicer at home where you can walk out and tell them to charge DON'T OVERLOOK THESE

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Dress Serges, 40 inches wide. Good assorment of colors, per yard ...... 83c Children's Coatings in New Blue, Cardinal, Reindeer and

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assorted colors. Worth \$1.25 for ..... 99c. Men's Worsted Hose, black only per pair ..... 48c. Men's All-wool Cashmere

Hose, per pair ..... 48c.

Children's Black Worsted Allwool Hose, pair 39c. to 75c. Children's Cotton Ribbed Hose per pair ..... 29c. 32c. Linen Towelling, per yd. 15c.

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# The Moderation League of Ontario

President, I. F. Hellmuth, K.C.

NE of the most embarrassing facts that the advocate of compulsory total abstinence has to face is that wherever his theory has been put into practice there has grown a strong movement against it; further, the longer the experiment of prohibition has been tried, the greater the opposition it has created. Time has always been against it.

This movement is that in favour of Government Control.

Had Government Control been dependent for its adoption on the votes of those who have always voted against so-called prohibition, it could never have become the law of any Province in Canada. One of the most encouraging things to those who have been active in the work of Moderation Leagues is that there have rallied around them everywhere men and women who in the past have voted with the opponents of the Leagues.

Contrary to the statements made by the prohibitionists, these men and women were not and are not concerned with promoting the interests of what is so euphoniously called "the booze business". They were not and are not men and women ignorant of conditions existing in their own communities. They were not and are not ignorant of conditions existing in other communities. They were and are, for the most part, typical sound, sane and reasonable citizens of Canada.

These men and women, just as is the case with the men and women of Ontario today, had placed before them all the usual stock arguments of the prohibition propagandist. They had placed before them rows of figures and lurid statements showing that prohibition was a success and that Government Control was a failure.

In spite of this, the greater argument of personal experience and observation made them discard prohibition and adopt Government Control.

It is impossible to enumerate all the reasons prompting the change, but it is highly significant that, to take one example only, the Province of Saskatchewan, which for years had voted strongly, whenever opportunity arose, in favour of prohibition, should last year have voted decisively against it; and the significance of this is increased when there is taken into account what the people have been told in Ontario regarding Manitoba. The people in Saskatchewan have, by their geographical position, a much better opportunity of knowing the conditions in Manitoba than have those in Ontario, and it will not be questioned that they had a much better opportunity of knowing the conditions in their own Province than people residing elsewhere.

Let it be remembered that the system in Manitoba had been in operation many months before the people in Saskatchewan voted on this question. The conclusions are irresistible.

Prohibition was considered a lamentable failure in Manitoba, a lamentable failure in Alberta, and a lamentable failure in Saskatchewan. For their prohibitory laws these Province adopted a policy of Government Control.

And Prohibition has been a lamentable failure in Ontario. There is no substantial evidence anywhere that any of these Western Provinces would revert to its old prohibitory system.

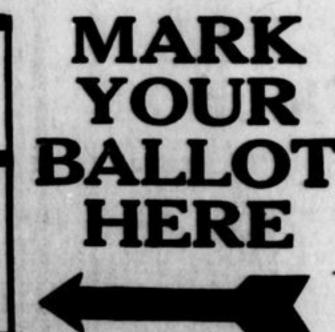
On the other hand, after less than twelve months, the revenues of the Province of Manitoba have been increased by more than a million dollars and for the first time in years they have balanced their Budget.

No one contends that Government Control has yet attained its last degree of perfection. It is, however, contended that it is a better method of dealing with those evils with which prohibition pretends to deal, and that in addition the revenues of the Province benefit.

Government Control can be had by marking your Ballot as follows:

Are you in favour of the continuance of The Ontario Temperance Act?

> Are you in favour of the sale as a beverage of beer and spirituous liquor in sealed packages under Goverument control;



Provincial Headquarters, 9 Richmond Street East, Toronto Telephone: Main 8387 and Main 1193

F. Gordon Osler, Treasurer

R. J. Christie, Vice-President

C. D. Boyce, Secretary

Thursday, Octob

These are t four quarters of a quarter to go

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This cor