

## The Ultra-Audion Receiver

By R. M. SHERRILL

chief advantages and disadvantages obtaned by replacing the honeycomb fraction of this law, and assuring the finishing in second place in the The only condition that may miliare pointed out, leaving the reader with a variometer.

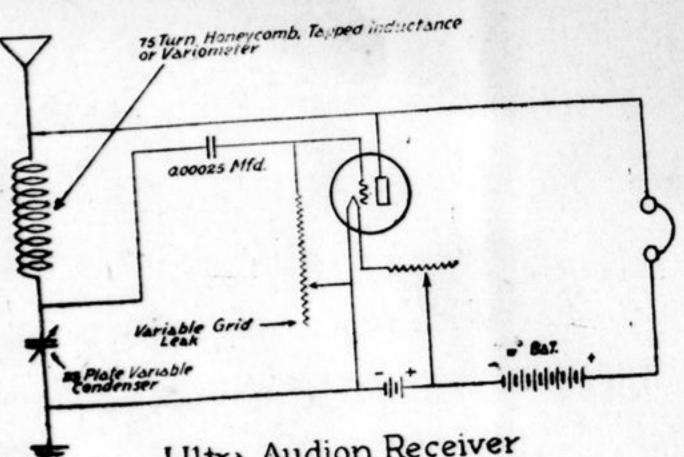
is regenerative but the regeneration It will be noticed that the grid leak George A. Rudd, and seconded by trolled in the usual manner by a the negative side of the filament incritical separate adjustment. Being stead of in the usual place across Minister of Canada, Right Hon. W. ward appearance, he had a kind and regenerative, the set is quite sensi- the grid condenser. The grid leak L. Mackenzie King, urging him to tender heart. Once a child of his tive, and with a good antenna and is connected in this way to give a take steps to stop the issuing of friend, Madame Ertmann, died, and fair weather conditions should bring better control over the oscillation of new licenses for breweries or distil- she was surprised that Beethoven in stations up to a thousand miles the detector tube. As suggested leries in the Province of Ontario, to did not pay her a visit of condolence. distant. Other points in its favor above, a continuously variable grid discontinue customs facilities for Finally she received a message from are, that it requires but a small out- leak should be used in this place. lay of apparatus and that it is very

easily assembled.

brought out by Dr. Lee Deforest. A ameter tube. This coil should be receiver using this circuit is by no tapped every ten turns for the first legits policy of tail contract the premier's pre-pleb-

The Ultra-Audion receiver is one is comparatively simple and is easy ing the law." of the most simple to operate. It to follow in making the connections. Another resolution moved by Mr. throuhout the winter.

The two chief disadvantages to of inductance chosen, is left to the the Ultra-Audien circuit are its lack reader. Using the honeycomb coil,



Ultra Audion Receiver

grid leak advsable.

#### Simple Construction

honeycomb coil, is used. The se- the better volume than the dry cell lectivity of the receiver may be im- | type tubes.

radiate energy and thus interfere on the panel: the condenser dial, the inces, and for better regulations and with others' reception. Both of the knob of the variable grid leak and restrictions as to liquor, which may above points make this circuit un- the rheostat knob. If the tapped in- be prescribed for medicinal purdesirable for listeners located in or ductanse is used, the switch lever poses. near thickly populated districts and switch points will take up some In addition to those named, some where there is likely to be much lo- additional room. The use of the others who took part in the discussal interference. Another point is variometer will, of course, add an- sions were:-Mr. D. Eagle, Dr. Jas. that it is sometimes hard to make other dial on the panel. In the last Bray, Rev. C. W. Bishop, Miss R. L. the tube stop oscillating while re- two cases an 8x10 inch panel will Martin, Mrs. C. H. Beavis, Rev. John ceiving a phone station. This last provide ample room, and in the first J. Ferguson. A small committee was point makes the use of a variable case a much smaller one will suf- appointed to properly prepare the

will give good results with this cir- intended. As shown in the diagram, a fixed cuit although the so-called storage inductance, which may be a 75-turn battery tubes wil usually give a lit-

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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.

R. K. asks: "If it would help, in | ceiver?" the 3 circuit regenerative set that was described about a month ago, to with your present arrangement his seed frequently, from a crop uso a small variable condenser might be more sensitive. across the secondary of the variocoupler?"

might be used there, but it would be of no particular advantage.

A. P. P. says: "I am using a re- now?" ceiver which is a crystal and vari- Ans. Your crystal set will not intised for reflex sets do for my re- are there now.

Ans.—A very small condenser into an apartment and want to get

#### WINTER FEEDING AND

matter or sods, etc. These may be overfeeding. the rate of a few pounds per hun-

give better results when boiled and mixed with meal. The roots may be pulped and mixed with the meal cation or fed whole, but for the younger pigs they should be pulped. A meal ration composed of equa

able ventilation and the supplying hogs in form of roots, or potatoes if draughty building, it should be enplied with, the seed, of course, coots are not available. The potatoes closed. Pigs will do netter in a shed should not be used under closed. than in a dark, damp, poorly-ventilated corner of the stable even though the stable is considerably

Cramped quarters are to be avoid-

OF PREMIER LAUDED would be well advised to procure TEMPERANCE POLICY Prohibition Workers Commend Hon. the Canadian Seed Growers' Asso-Mr. Ferguson in Resolution.

Enthusiasm was shown at a meet- a relatively inexpensive practice ing of the prohibition workers of which might well be adopted period-District No. 2, Northeast Toronto, ically by every farmer and with all place on January 24 next, and to held recently in the Sunday School classes of crop. room of Sherbourne Street Methodist Church, with Mr. Alex Mills, ENCOURAGE SMALL TOWNS K.C., presiding. After short addresses by Rev. L. S. Albright and tion, moved by Mr. Price and sec- follower of the Northern Hockey inhabitant." Frank D. Price, the following resoluonded by Dr. James E. Forfar, was League, which was comprised of The path of the total eclipse lies carried unanimously:- "That we clubs in towns and cities of Western from the district surrounding the send a resolution to Premier the Ontario, that the league confine its Lake of the Woods, through Sou-Hon. G. Howard Ferguson, express- entries from towns and villages not thern Ontario and New York State, ing our approval of his prompt ac- larger than 5,000 population. ceptance of the verdict in favor of Many of the clubs in the smaller the north of the British Isles. on October 23rd, his decisive state- they have been swept aside in com- just issued, the eclipse begins at the Ontario Temperance Act, given centres have been complaining that ment of policy and his vigorous ac- petition annually by towns and Toronto at 8 o'clock in the morning Another one of the radio hook-ups proved by substituting for the hontha has enjoyed a nation wide popwhere the law as evidenced cause which can afford to import and becomes want at sor. The cotality lasts a minute and eight seconds,
by recent \$1,000 fines and jail terms, several players, and outside of
and the eclipse ends at 10.23 a.m. As the diagram shows, the wiring live support in his task of enforc- secondary elimination series to eclipse is the time of year when it

The panel arrangement, which ince of Ontario into the United dence at her earliest convenience. will depend somewhat on the type States (under prohibitory law), and This she did, and found him too the alleged export of liquor to Cuba, deeply moved to speak. He pointed Mexico and the West Indies, but to a chair, and the lady sat down, in Ontario, and sold at 'bootleg' in the piano. November 13th and 14th."

#### Endorse Education

as to the evil effects of alcohol on old woman.-Ave Maria. the physique and the mental and moral character; for amendments to the Ontario Elections Act to con- slowly. Naturally, form with the Federal measure in respect to the registration of voters, for the prohibition of the manufacture, and export, as well as the imof selectivity and its tendency to there is need but for three controls port of liquor in prohibition prov-

Any of the standard types of tubes | reach the parties for whom they are

CHANGING SEED GRAIN

(Experimental Farms Note) A common question asked by farmers is, "Does it pay to change seed?" says L. H. Newman, Dominion Cerealist. The inference here is that where the same seed has been used on the same farm for few years, it may deteriorate in it ability to product a profitable crop. It is also a common belief that one Ans.—Yes. Such a crystal would operating a farm characterized by be suitable although a fresh crystal relatively light soil should obtain which is produced on soil of a heav-A. M. says: "We have just moved ier character and vice versa. Some that a change of seed is ever necessary. They argue that seed grown my effect on the two that are there year after year in a district must of necessity become acclimatized and better-adapted to the soil conditions of that district. It is safe to say that of trouble keeping the crystal de- though they may interfere with advice to the followed this tector in adjustment. Would one of yours. Run your antenna, if possithe fixed crystals such as are adver- ble, at right angles to the ones that the fact that it is seed should be changed. It is obparts of shorts, middlings and finely vious that certain circumstances HOUSING FALL LITTERS ground oats is suitable for pigs if may arise to make the change of 2½ to 3 months of age when supple- seed appear imperative, even to the mented with about 3 per cent of lin- casual observer. For instance, a crop The fall-farrowed litter must be seed oil meal and skim-milk. A may be so badly damaged through housed and fed under more or less well developed pig of that age will lack of moisture or by some condiartificial conditions in this climate consume about 1 pound of this meal tion which has forced premature during the winter. The rapidly de- mixture and 5 pounds of milk per ripening, as to cause the resulting veloping pigs demand mineral mat- day. Tankage or meat meal may be grain to be very light and poor. ter for the building of bone and substituted for the milk at the rate Under such circumstances, it would, muscle, meal and other feeds in a of 6 to 8 per cent of the meal ration of course, be folly to think of using muscle, mear and other mand also but seldom gives as good results. For this grain for seed, This, however, some form of succulence to assist older pigs a meal mixture composed is an extreme case. The problem to in the normal functioning of the di-of ground oats, 2 parts; shorts, 1 determine is whether, under normal gestive organs. This is the opinion part; middlings, 1 part; bran, 1 part; circumstances, one may expect a gestive organs. This barley, 1 part; and linseed oil meal, larger crop from the use of seed bandman, who goes on to say:

| 3 per cent gives good results. A grown elsewhere than on the farm | 3 per cent gives good results. A grown elsewhere than on the farm | 3 per cent gives good results. There are many mineral feeds variety of meals is usually better on which it is intended to be used. available in both organic and inor- than a single meal. An equal quan- Without going into detail, one may ganic forms, and these include chartity of roots may be added to the safely follow the rule to change seed coal, bone meal, tankage, wood ashes, meal ration after the pigs are 3 to only when seed may be obtained bone black, ground limestone, earthy 4 months of age but carefully avoid which possesses a higher degree of In housing, the main features to home-grown. This is assuming that may be added to the meal ration at keep in mind are cleanliness, suit- the home-grown seed belongs to a of a reasonably dry sleeping berth. is free from noxious impurities. If these latter provisions are not cim-

> ed, as daily exercise is as desirable as proper feeding.

plate changing their seed and whose

seed is reasonably good, at present, TOTAL ECLIPSE OF SUN some first class registered through ciation at Ottawa and test this in comparison with their own. This is Years.

# TO DEVELOP HOCKEYISTS

stimulate hockey in those centres occurs, which may be cloudy and

#### BEETHOVEN'S TENDER HEART

really transshipped to another point he meanwhile seating himself at

violation of the Ontario Temperance | For an hour he played to her, Act, and we specially urge this in bringing forth from the old instruview of the recent failures to con- ment sounds of sympathy, and finalvict exporters under Ontario law at ly of comfort and resignation. It Windsor, as reported in the press of seemed to Madamme Ertmann as an angel were speaking through the music. At length he stopped, and she, weeping happy tears, went away Other resolutions had regard to a feeling greatly strengthened and three years' campaign of education consoled. She could never tell of of the young through the regular this touching incident without emochannels and existing organizations, tion, although she lived to be an old,

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