nas now the mandate of Ontario in same direction if it carries no light;

support of this measure. For a de-cade and a half, he has had the active support of the Ontario Motor active support of the Ontario Motor

League in this humanitarian endea- there is no law making it compul-

vor for during that time the Motor sory to carry lights on horse-drawn

League has campaigned for the abol- vehicles is that public opinion in

ition of this all too prolific cause of highway fatalities and casualities.

Meditorials on this subject have would suppose that for the sake of

appeared in many of the newspapers of the province, and it is significant favor it. But to carry lights would

ponsible for many distressing acci-

dents. There is no excuse for furth-

er delay."
The Hamilton Herald editorially

FIERY CROSS BURNED

Apparent K. K. K. Activities. -

According to The Collingwood En-

terprise, there was considerable ex-

URGES LIGHTS

Lightless Vehicles Have Taken An

Appalling Toll of Life, Limb and Property.—Are Great Menace on Highways at Night.



## Explanation of Regeneration

### Constructional Details

By R. M. SHERRILL

OUTPUT

REGENERATION

-14/4/14-00-

VARIOMETER REGENERATIVE

C. - COUPLING CAPACITY

OF THE TUBE

Regeneration, as applied to radio, is the process of obtaining additional amplification from a vacuum tube by transferring some of the amplified signal energy from the output circuit back to the input circuit, where it causes the tube to produce still greater signal energy in the output circuit and so on.

The above process repeats over

very great, and one wonders what or building and in operating a re-

ability of the tube to handle the to start and stop oscillation, but been so long disregarded. Experpower. But, as every experimenter that he must be able to closely reg- lience has shown that it is not suffiknows, the practical limit is reached ulate the degree of regeneration up cient for the speedy motor cars to when the tube starts to escillate, to the escillation point. The con-

CIRCUIT

The above process repeats over and over again each time releasing and over again each time releasing the receiver. There are, however, that have occurred on the highways drawn vehicle carried no light at the time of the accident.

The above process repeats over some undesirable features to regenor of the absence of lights on vehicles, of the absence of lights on vehicles, of the absence of lights on vehicles, and over again each time releasing the content of the accident. and over again each time releasing eration. The radio ian should be have called attention once more to have called attention once more to the expediency of protecting the necessity of a law to compel all the necessity of a law to com Thus the amplification obtained is order to avoid them in purchasing vehicles using the public highways or building and in a public highways or building and in a purchasing vehicles using the public highways or building and in a purchasing vehicles using the public highways or building and in a purchasing vehicles using the public highways or building and in a purchasing vehicles using the public highways or building and in a purchasing vehicles using the public highways or building and in a purchasing vehicles using the public highways or building and in a public highways or building and in a purchasing vehicles using the public highways or building and the public highway or building and the public highway or building and the public highway or building and the public highway

ebtained by this process.

As important as regeneration is, carry lights. The matter is of such relation is the closely controlled. This means not that it is almost inconscitable that resistance of the circuit and the only that the operator must be able that the demand for such legislation has a long disposed to be able to start and the long to be able to start and allow the long to be able to start and allow the long to be able to start and allow the long to be able to start and allow the long to be able to start and allow the long to be able to start and allow the long to be able to start and allow the long to be able to start and allow the long to be able to start and allow the long to be able to start and allow the long to be able to start and allow the long to be able to start and allow the long to be able to start and allow the long to be able to start and allow the long to be able to start and allow the long to be able to start and the long to be able to theoretical limits are approached. upon the type of coupling used, but to run down an unlighted horse-picht of last work when about the first properties are approached. The Super-Regenerative principle also upon the type of tube, the filabrought ought by Major Armstrong ment and plate voltages, and the drivers of horse-drawn vehicles are

ULTRA AUDION

COUPLING CAPACITY

C2 FURNISHES

This is a matter that concerns covered with flame and saturated VARIABLE the safety of all those who use the with coal oil or gasoline. The chief -GRID LEAK roads at night.

"The demand for this law in On- and made a thorough search of the tario ought to be urgent and insist- surroundings but found nothing. It ent until it is placed upon the stat- is generally supposed the fiery utes. The Ontario Motor League cross was the work of young boys. ation that can be given in its effort a little stir and excitement was also to impress the need of this law occasioned in that town about ten upon the Legislature of the days ago when a cross was burned

The Peterboro Examiner concludes town water tank, but is not inclined "The Government should not let Both papers scoff at the K.K.K. an editorial on the subject with: the next session go by without bring- idea, saying that there is nothing in ing down the much-to-be desired either Collingwood or Alliston for legislation. The bill is long overdue." the society to work on.

The Owen Sound Sun-Times urges editorially: "Everything that can BRUCE M.P. SPEAKS IN NEW YORK possibly be done to make the roads m June, 1922, is simply a method of grid leak resistance. Some types of safer for night travel should be done. James Malcolm Makes Plea for Depreventing the tube from oscillating, Some receivers, (some types of safer for night travel should be done. James Malcolm Makes Plea for Depreventing the tube from oscillating, some receivers, (some types of safer for night travel should be done.) thus permitting the regenerative the Uutra-Audion are good ex- Even if most are willing to take process to continue beyong the point amples) have a tendency to oscillate chances of being spilled into the where it was formerly stopped by ail of the time, except when strong ditch by a passing car, that has come signals are tuned in. Such receiv- suddenly upon them in the dark or The transfer of energy necessary ers re-radiate strongly and make on a foggy night, they should not be Bruce, addressed the New York Canto accomplish regeneration is considerable "whistling" in near-by permitted to add to the risks of night adian Club at a noon luncheon Satbrought about through the coupling brought about through the controlled but roughly by and tuning of the two circuits in-

volved. It may be magnetic or static the condenser C2. The fine adjust- drawn vehicles." coupling or a combination of the ments must be made with the filatwo. The magnetic coupling is the ment rheostat and a variable grid tario have been in conference with ited States and Canada through in-The static coupling is the method used in circuits like the variometer regenerative, and the Ultra-Audion. In the above mentioned variometer to the above mentioned to the above to th that the Legislature should take it up even if the Government does not 4 introduce a bill. It has been far too

long delayed, already. There is no argument that can be advanced for requiring autos to carry lights that does not equally apply to al vehicles.

Ans.—If the receiving tube fila- In dealing with the proposal of ments are not grounded, it will be the Wardens that the lights-on-all safe to do it. If the filaments are vehicles law be initiated on the pro-Ans.—The proper C battery volt- grounded, there is danger, with some vincial highways, The Hamilton "What is good for the provincial

roads is also good for the county P. J. M. asks: "Is there any way and township roads. The menace in which I can make my crystal set is just as great on the one kind of On this score the Peterboro Ex-

"While the necessity for such illumination is, no doubt, greater on more frequented highways, it is desirable, when introducing this legis-

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A. S. HASTIE VETERAN BILLIARD PARLOR

Crimination of the kind in contemplation. The vehicle which makes lation. The vehicle which makes lation. The public highways ought to use of the public highways ought to be success of the Ontario Hydrothe success of the Ontario H

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Wearing rubbers all day is tiresome, but since rubbers are necessary, why not wear RHINO Rubber Footwear? Each pair combines the least weight with the longest possible wear?

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McFadden's Drug Store

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# two. The magnetic coupling is the ment rheostat and a target regeneration in leak. When the regeneration in leak. When the regeneration in leak. When the regeneration in these sets is not closely controlled, the Provincial Legislature and of the Provincial Legislature and it actually decreases the sensitivity. It has been agreed to advocate legit has been agreed to



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von "Santa Claus" BOSS: "Here, get for your wife JONES: "Gre might pay for it!"

Thursday, Dece

Done your Ch Year is about to fa

> ms 50 SUDDEN /

Our idea of a the exchange slip

Well-here's h your frame shakes (Copyright, 1924,

Flesherto

(Our own Corres The annual election the W. M. S. and Ladie Presbyterian Church to week at the home of Stewart as follows: . V dent, Mrs. (Rev.) Har President, Mrs. Cath Treasurer, Mrs. T. W. sionary Record, Mrs. Ge Strangers' Secretary, Duncan, Ladies' Aid S ident, Mrs. T. W. Fil President, Mrs. Alfred retary-Treasurer, Mrs. bull: Visiting Committee Inkster and Mrs. D. M. societies had a succes Mr. W. J. Meads, exemesia, who resides still interested in farm xtensive breeder and ford Down sheep. ! olied us with figur s flock weighed rec stock scales at Flesher

and we think there ar in this locality who car showing. One stock 300 pounds. One pair ewes weighed 480 por other pair 450 pounds. ling ewe weighed 190 one pair of ewe lambs An event of special i fowl supper and social e in by the members of 2855 and L. O. B. A. Cord No. 545 here, held in ( on Thursday evening. After the splendid supp ful Master Frank Dun chair and conducted program in his usual ner. A debate, which eresting and amusing. ests and games were er fine exhibition of cl vas given by Mrs. W. tev. J. Harrower gave ddress, which was eloful and highly Vorthy Mistress, Mrs. gave an address

### In the above mentioned variometer control. (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. W. D. P. asks: "What is the pro- battery is being charged?" per C battery voltage for tubes using 135 volts on the plates?" age depends upon the type of tube chargers, of burning out the fila- Spectator declares: and upon other things besides the ments. plate voltage. A guess is that about 4.5 to 6 volts would be about right.

M. D. asks: "Is it safe to use a re- louder by adding another crystal?" thoroughfare as the other."

seiving set at the same time the A Ans.-No.

DEBATING SOCIETY

were on hand from Normanby, Ben-

tinck, Glenelg, Holland and Artem-

esia. After discussion of the rules,

the teams which had sent their ap-

schedule arranged as follows:

Normanby vs. Edge Hill.

Edge Hill vs. Onward.

Rocky xs. Onward.

plications were considered, and a

The executive selected three sub-

jects which are being submitted to

the various competing teams.

Although there is not a large

number of competing teams, an in-teresting time and hard fighting is

The winners in each Township are given a suitable medal, and the final

winners a cup. These are donated by Miss Agnes Macphail, M. P.

Myortise in The Chronicle. It Pays.

anticipated for the winners.

SOUTH GREY

### OIL PROMOTER SKIPPED (Wiarton Canadian-Echo)

ARRANGES SCHEDULE Series of Debates For Agnes Mac- After spending considerable time The executive of the Southeast or \$20 in actual cash, and the only Grey Debating Society met at the persons affected are two merchants Department of Agriculture, Mark- who traded, one a suit of clothes and

# For Winter Sports

Ballard Hockey Tube Skates Starr Hockey Tube Skates C. C. M. Automobile Skates Wilson Expert Hockey Shoe Wilson Invincible Hockey Shoe Wilson Kangaroo Hockey Shoe Wilson Arena Hockey S. Famous Lightning Hitch and many others.

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Mr. D. J. Lee, claiming to be con- lation, to make it of universal apnected with the Mulberry Creek Oil plication. There should be no dis-Company which sunk a dry well at Spry last summer, attempted to float an Oil Company at Southampton. Department of Agriculture, Mark-dale, on Saturday afternoon. Decem-proprietor of the hotel where Lee ber 6. Although the weather was stayed gratis, Lee then got out of dull and the roads almost impassa- town under cover of darkness. ble, about seven of the directors

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