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Montreal to Glasgow Aug. 11 Sept. 8 Oct. 6 Saturnia Aug. 31|Sept. 29|Oct. 27 Cassandra

Montreal to Liverpool July 29 Sept. 2 Sept. 30 Tyrrhenia Aug. 19 Sept. 23 Oct. 21 Albania

Sept. 16 Oct. 14 Nov. 11 Ausonia Montreal to Plymouth, Cherbourg

and London July 22 Aug. 26 Sept. 28 Andania Aug. 5 Sept. 9 Oct. 12 Antonia

N. Y. to Queenstown and Liverpool *July 20 Aug. 31 Sept. 28 Seythia Aug. 3 Sept. 7 Oct. 5 Laconia Aug. 17 Sept. 14 Oct. 12 Carmania * Sails from Boston, July 21st.

N. Y., Cherbourg & Southampton July 18 Aug. 15 Sept. 5 Mauretania Aug. 1 Aug. 23 Sept. 12 Aquitania Aug. 8 Aug. 29 Sept. 19 Berengaria

N. Y., Ply., Cherbourg and Hambourg July 29 Aug. 31 Oct. 5 Caronia Aug. 3 Sept. 9 Oct. 16 Saxonia Boston - Liverpool - Queenstown

Aug. 23 Sept. 20 Oct. 18 Samaria N. Y., to Glasgow (via Moville)

July 15 Aug. 25 Sept. 23 Algeria
July 22 Aug. 19 Sept. 16 Columbia
Sept. 2 City of London
Sept. 9 Oct. 7 Cameronia BOSTON TO LONDONDERRY

LIVERPOOL AND GLASGOW Aug. \$*Elysis *Cargo only to Glasgow.

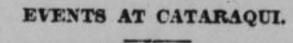
N. Y. to MEDITERRANEAN Oct. 26 (Cruise)Tuscania Nov. 25 (Cruise)Scythia Dec. 6 (Cruise)Tuecania

for rates of passage, freight and further particulars apply to local agents or THE ROBERT REFORD CO., LIMITED GENERAL AGENTS TORONTO, ONT.

NOTICE M. J. MALLEN

is still conducting the Automobile Repairing Business at corner Colborne and Barrie streets. All repairs will receive personal attention. Large cars washed, \$1.00; small cars, 75c.

TELEPHONE 1005J.



Anglican Lawn Social Was Spoiled by the Storm.

at that time prevented.

Congratulations are due Miss Evelyn Edwards, who has passed her normal school examination. She has wen engaged to teach at Fortar. Miss Alice Bothwell, Montreal, is visiting her sister, Mrs. G. A. Sisco. F. A. Smith, Plevna, spent last week at his home here. Miss Bessie Blair, Desert Lake, is spending her holidays with her mother. Miss Mildred England, who was visiting at Dr. Edvards', has gone to her home at knowlton, Que. Craig Kelly, Westboro, is spending a few days here with friends.

The Methodist Sunday school held

Francis Ashbury, Methodist bishop, born 1775, preached about 16,-500 sermons during his life.

Cataraqui, July 15 .- The Anglican church held a social on J. Clark's lawn on Tuesday evening. It was spoiled by the thunder storm and it was decided to continue it on Wednesday evening but the severe storm

their annual flower service last Sunday morning. Rev. G. A. Sisco delivered an address and a good programme was put on by members of the school. Some friends from the city were kind enough to come and help. These were: Mrs. Connolly, Mrs. Trencer, Miss B. Rogers and a male quartette consisting of Messrs. Haffner, Moncrieff, Marshall and H. Baker. A pretty feature was the presentation by Miss Janet Harpeli of cradle roll certificates to some of the babies present. Miss Bessie Edwards, who has been visiting Miss M. Coon at Elgin, has returned bringing Miss Coon with her.

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INSIST ON EVEREADY

REGENERATION. When radio frequency potential variations, due to received oscillations, are applied between the grid and filament of a vacuum tube variations in plate current at the same frequency will occur. With no incoming signals there is, of course, a steady, direct current flowing in the plate circuit, due to. the conduction between plate and filament, the energy being supplied by the plate battery. This is true when the positive terminal of the plate batters is connected to the plate, but there is no conduction when the negative battery terminal is so connected. The plate current variations mentioned above are increases and decreases of current about the steady value, and regarding this value as a mean the variations appear to be oscillations in the plate circuit. They are superimposed upon the steady, direct current. Whether the amplitudes of these oscillations will be comparatively large or whether they will be greatly smoothed out or even practically "killed" will depend upon the reactance of the plate circuit, particularly that due to the magnet windings of a pair of head telephones or the coils of a transformer. The amplitudes of the plate circuit oscillations may be made larger by providing a shunt path of low reactance across the portion of the circuit which contains the high reactance. A condenser shunted across the head telephones provides such a low reactance "by pass" for the radio fre-

If the plate circuit oscillations can be caused to induce oscillations in the grid circuit in step or in phase with the received oscil- the feed back action.

The efficiency of the honeycomb and later the duo-lateral type has

long been well known. A new coil

development has made its appear-

ance. These inductances come

wound in the usual conventional

sizes. The windings are made of

cotton yarn, wound into the form

of a lattice, and simultaneously the

wire is wound into the coil in par-

allel turns. The cotton yarn sep-

arates the layers of wire with cot-

ton and air cells. These air cells

reduce the high frequency resist-

ance greatly. This method of wind-

ing gives maximum copper space

and insulation space in a given

volume. The insulation between

layers is greatest at the points of

maximum potential difference.

This results in giving this type of

coil winding an extremely low self

capacity, and this in turn is no-

ticeable in the great selectivity and

sharp tuning obtained. The high

frequency resistance is by far

much less than on any other type

of coil. On the usual amateur an-

tenna of low capacity these coils

give remarkable results. They are

equally effective on all waves. The

workmanship is very neat, and

they are reasonably priced.

with the editor by mail?

CTMIF

FOR

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quency oscillations.

lations the amplitudes of the latter will be increased. Suppose that the tuned secondary circuit of a receiver is connected to a vacuum tube so that the potential variations across the tuning condenser are applied between the grid and filament. The oscillations in the tuned circuit are limited in amplitude by the resistance of the circuit, since the total reactance is zero when resonance is secured with the antenna oscillations. This presupposes a fixed applied electromotive force in the tuned circuit. The amplitudes may be increased, then, by anything which reduces the resistance of the circuit. Since resistance results in energy loss, it is seen that anything which causes energy to replace that which is lost will decrease the resistance or at least its effect. In such an event the oscillations in the tuned circuit being made stronger, the potentials applied between the grid and filament of the tube will be increased. If the resistance were totally compensated by the replacing of energy in step with the oscillations in the tuned circuit those oscillations would become undamped. They would be continuous oscillations generated by the tube itself and would have a frequency determined by the inductance and capacitance of the tuned oscillatory circuit. The energy for the selfgenerated oscillations is, of course, drawn from the plate battery.

There are ways in which energy may be fed back to the grid circuit from the plate circuit. All of them are referred to as regeneration methods, since the energy in the first circuit is regenerated by

APPARATUS AND DEVICES

By RALPH BROWN, RADIO ENGINEER

A NEW KIND OF COIL INDUCTANCE.

Will readers interested in these radio articles kindly communicate

Rusted Together Parts

The Greasing Of Parts, When Put Together, Is A Preventative

THE "RUST JOINT" is noted for its strength and this readiness of

exposed fron and steel parts to "freeze together," when allowed to oxidize,

often works to the motorists detriment. If brake-red joints and brake

toggles are not oiled, they soon begin to rust and in time work so hard

that no equalizing arrangement can prevent one sided action and the total braking effect is much reduced. The outside brake band anchor-

pin is completely exposed to road splash and is seldom disturbed so that,

when it has to be moved, for purposes of adjustment, it is often so rusted

as to break rather than turn. It should be ofled occasionally just as if

it were a moving part, so that it can be budged when occasion requires.

Tires will rust to rims so that it is a Herculean job to free them and

for this reason, the metal parts should be graphited. Graphite or

graphite grease is the best rust preventer and all exposed rustable parts. which may require to be removed, should be put together well coated with one of these materials, the threads of all bolls such as those of

spring-clips, shock absorber, fittings and indeed of all parts that are exposed to mud and water being thus treated. For separating rusted

parts keresene is good, but the very penetrative liquid, sold as "rust

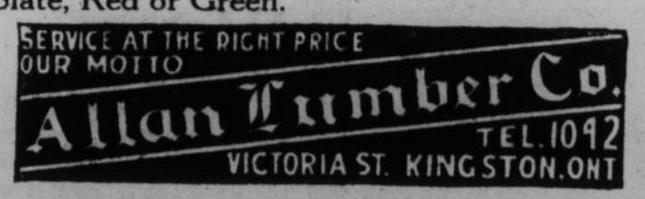
as yet.

remover" or by various trade names, is much better.

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Automotive Grinders

Corner of Queen and Wellington Streets.

One hundred dollars for twenty | The manufacture of alizarm is one words of five letters each was the of the most important branches of rate on the first trans-Atlantic cable. the coal tar industry.



make that will improve its run-Answer: Engines often run worse

for a time after overhauling than before, partly because important adjustments have been disturbed and not properly restored. Your engine must have been rather stiff, after this repair work was done, and the abnormal friction from this cause may not have been wholly eliminated yet, so that you may hope for more available power and ess heat after slightly more running. Perhaps they set the igni-tion a little late or altered the carburetor adjustment for the worse.

Are you positive about the compression being good in each cylinder? Ordinarily it is difficult to tell as to this, immediately after an overhauling, the parts are so stiff. We suspect that the piston rings have not worn in to secure

REAR AXLE LEAKS OIL C. K. M. asks: How can I preand new wrist-pins and piston- vent oil from leaking out around

rings installed, but after having the right reas wheel of my --been run 500 miles since the over- car? I have tried a heavy graphite hauling, it heats badly and does compound, but this does not stop Answer: Be sure that you do not put too much lubricant in the

housing. There is sufficient if it

will just flow out when the lower

oil-plug in the gear housing is re-

moved. There is an oil retaining ring, fitted around the bearing sleeve, just inside the inner roller bearing of the wheel, which car-ries a felt washer that wipes against the inside of the wheel flange. If this washer has lost its springiness so that it does not touch the wheel flange, lubricant will work past it. We suggest that you remove the wheel and have this washer replaced, if necessary. We doubt the advantage of using a heavy graphite compound in this axle-housing, unless it is of a fully approved quality. Very likely you will have to remove the right shaft and wipe it free of lubricant, before you can stop oil leakage, as the new lubricant is likely to follow an oily shaft, even past an oil-retainer.



Questions of general interest to the motorist will be answered by Mr. Clough in this column, space permitting. It an immediate enswer is dezired, enclose self-addressed, stamped envelope.