

# REX



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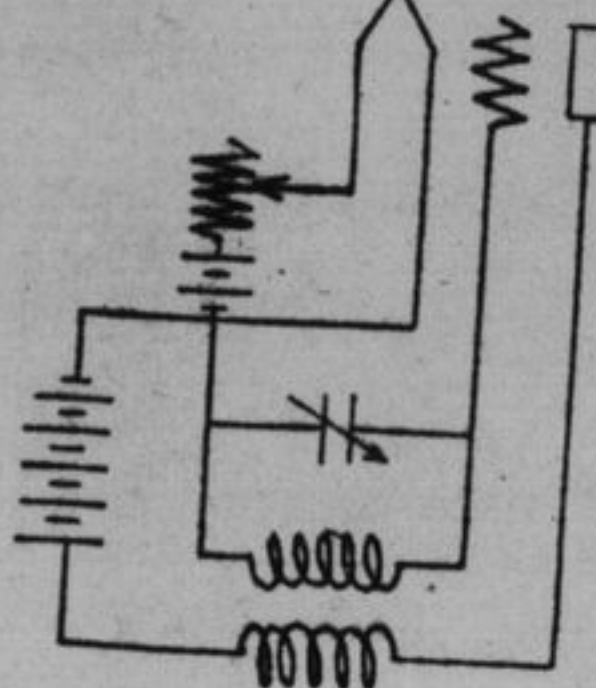
## RADIO EXPLAINED

BY E. H. LEWIS  
INSTRUCTOR NEW YORK Y.M.C.A. RADIO SCHOOL

### THE PRODUCTION OF OSCILLATIONS.

It is a well known fact that a vacuum tube may be used in a suitable circuit to generate sustained or undamped oscillations. The diagram illustrates the fundamental schematic arrangement.

Suppose that a disturbance is created as for example by increasing the coupling between the two coils shown in the diagram. This disturbance which



varies the potential on the grid starts an oscillation in the tuned circuit comprising the grid coil and the condenser shunted across it. If the coupling between the coils is sufficiently great the variations of plate current started by the oscillations will react in the customary manner for regeneration upon the grid circuit and will constantly supply energy to replace that lost in the grid oscillatory circuit. The degree of coupling necessary is found by experiment, but it will be noticed that upon increasing the coupling gradually a click or thump will be heard if a pair of head tele-

phones are connected in the plate circuit and the oscillations start suddenly at that instant. If the coupling is still further increased and the plate circuit is furnishing more energy to the grid oscillatory circuit than is lost the oscillations will build up in strength until the losses in the grid circuit balance the amount of energy furnished by the plate circuit. The frequency of the oscillations will be determined by the capacitance and inductance of the grid oscillatory circuit. That is, by the capacity of the variable condenser and the inductance of the grid coil since they are usually far greater than any distributed capacitance and inductance in the circuit.

The coils should be placed in the proper relation to each other which will insure the maintenance of oscillations or the oscillations will quickly die out after once being started. Or, at any rate, increasing the coupling will result in their dying out. When the coupling, having been made in the proper manner, is increased too greatly the potentials on the grid will swing through comparatively large values which will not produce corresponding proportional variations of plate current. The energy for the oscillations is, of course, furnished by the plate or "B" battery so that continuous oscillations may be maintained practically as long as the battery lasts. In the case of oscillation generators for transmitting, however, a generator is usually provided to replace the battery except in very low power portable sets.

## APPARATUS AND DEVICES

By RALPH BROWN, RADIO ENGINEER  
A SUBSTANTIAL AND REASONABLY PRICED VARIOMETER.

A reasonably priced variometer and a very efficient one this. All metal parts are



nickelled. The finish is of dark mahogany. Stator and rotor windings are connected by a spring and make a good per-

manent contact. Bronzed notched washers are used to do this and give this contact in any position of the rotor. Stator and rotor blocks are tested for dielectric strength. No detrimental or non-insulating paint is used. Two styles are made wound with No. 18 and No. 20 wires. Size over all, 4 1/2 by 4 1/2 by 3 1/2 inches wide. Stator comes ready for mounting and rotor has the usual arm of 1/4 inch brass rod so that dial can be secured to it. Construction is strong and windings are well turned out. A small air space between stator and rotor parts assures maximum current strength. The usual bearing is used on the rotor on each side, giving free movement with no catch. As plate and grid variometers these instruments give fine satisfaction and are inexpensive.

### Is Your Stomach Sour? Do You Belch Gas?

If you have sour risings from the stomach, feel bloated and uncomfortable, just try twenty drops of Nerviline in sweetened water. Relief will come quick. Nerviline dispels the gas, sweetens the stomach, makes you fit and fine in a few minutes. As a general household remedy for many of the ills that constantly turn up, nothing is more useful in every home than a 25 cent bottle of good, old "Nerviline."

Should there be a real coal shortage next winter, the schools and the churches will be among the places to close. But it is a pretty safe guess that there will be fuel enough.

The vacant chaplaincy of the penitentiary should go to the sect whose adherents maintain the lead in the prison population. Heretofore the two chaplains have represented the sects having the highest percentage of convicts.

So there is no hope of the Salvation Army, the Baptists, the Congregationalists, the Christian Scientists and some other bodies being called upon to choose a chaplain from their ranks of clergy.

The circus may overlook Kingston, but according to the official reports the Stork has a great liking for the Limestone city. Hitherto childless families are getting into the parent league.

The ladies say that the golfing men have stolen the old costume of the bicyclists. Right they are, but will the Kingston lady golfers have the nerve to follow the lead of a darling young woman golfer across the border who plays the game in her bathing costume.

Half a loaf may be better than none, but if the Lammman had been on the city property committee, of which "Tommy" Angrove is the chairman, he would have insisted on painting the whole city hall dome and not a piece of it. They should have allowed "Bill" Vance and his arm to have touched up the weep-hole too.

—THE TOWN WATCHMAN.  
Miss Caroline K. Robbins, a Brooklyn girl, presides over an American drug store in Moscow, Russia.

### KINGSTON RETAIL MARKET PRICES

Kingston, July 22nd.	
<b>Poultry.</b>	
Chickens, lb.	35
Hens, dressed, lb.	35
<b>Fruit.</b>	
Bananas, doz.	30 to 40
Grape fruit	12 to 18
Lemons, dozen	30
Oranges, doz.	30 to 70
<b>Dairy Products.</b>	
Creamery butter, lb.	42
Dairy butter	35
Farmers' rolls	35
Whey butter	32
Eggs, fresh, dozen	30
Oleomargarine	25
Cheese	20
<b>Vegetables.</b>	
Beets, 2 bunches	1
Cabbage, for 3 lbs.	25
Lettuce, for 3	25
<b>Carrots, 2 bunches</b>	
Potatoes, new, bus.	\$1.25
Sweet potatoes, 2 lbs.	25
Onions, lb.	8
Celery, for 2	25
<b>Wheat.</b>	
Barley	75
Bras, ton	\$26 to \$28
Shorts	\$28 to \$30
Buckwheat, bush	80
Hay, baled, ton	\$26 to \$27
Hay, loose, ton	\$26.00
Corn, yellow, feed, bush	85
Corn, car lots	77 to 79
Flour, standard (Gov't) cwt.	\$4.00 to \$4.50
Oats, local	55
Oats, western	55 to 60
Straw, baled, ton	\$16 to \$14
Straw, loose, ton	\$14
Wheat, local	\$1.15 to \$1.25
<b>Fish.</b>	
Cod, lb.	12 to 15
Keels, lb.	12 1/2
Filets, lb.	20
Finnan haddie, lb.	20
Haddock, fresh, lb.	13 1/2
Halibut, lb.	28 to 30
Kippers, pair	18
Perch, lb.	18
Pike, lb.	12 1/2
Salmon, lb.	40
Steak, cod, lb.	12 1/2 to 15
Trout, salmon, lb.	15 to 20
White fish	15
<b>Beef.</b>	
Porterhouse steak, lb.	30 to 32
Round steak, lb.	25
Bolling cuts, lb.	10
Western carcass, cwt.	15
Western hinds, cwt.	18
Local	13
<b>Pork.</b>	
Loin roasts, lb.	30
Rib roasts, lb.	25 to 30
Pork chops, lb.	25 to 35
Hogs, live weights, cwt.	14 1/2
Hogs, dressed, cwt.	20
Bacon, breakfast	35
<b>Spring Lamb:</b>	
Carcass, dressed	\$8.00 to \$10.00
Froats, lb. quarter	25
Hinds, lb. quarter	30
Leg, lb.	25
Loin, lb.	30
Chops, lb.	30
Mutton, lb.	30
Veal, lb.	18
Sausage meat lb.	30
<b>Hides and Wool.</b>	
Wool, unwashed	12 to 14
Wool washed	13
Wool, rejects	at value
Deacon skins, each	70
Lamb and sheep skins, up to	35
Horse hides	\$2.00
Tallow, rendered	6c per lb
Ginseng	\$9 per lb.
Beeswax, clear	30c per lb.

### To Retain Good Health Follow This Advice

Most important of all is proper attention to the bowels. Avoid constipation—it is the health-killer of today. Harsh gripping medicine is ruinous—beware of it. Best results follow a remedy like Dr. Hamilton's Pills, which relieve costiveness promptly and tone the bowels so that constipation becomes a thing of the past. No distress or inconvenience attends the use of Dr. Hamilton's Pills, which are famous for their weakness & efficiency. For headache, biliousness, indigestion and liver complaint, Dr. Hamilton's Pills are just what you need. Thousands maintain their health by regulating frequently with Dr. Hamilton's Pills. 25c. all dealers, or The Catarhazone Co., Montreal.

### Wasapika Gold Mine

is being rapidly developed. Official word of results on 100 ft. level show remarkable attainments. Drifting north and south of the shaft on this level, 30 feet one way and 40 feet the other, gave an average ore value of better than 120 a ton across full width of shaft. Recent faces have run as high as \$40. A recent cut on the 100 ft. level cut the full width of the ore 20 feet and gave an average of \$15 a ton. A month ago the stock was below 10 cents a share. Send in your order at once before it is too late. PHONE 221. We execute orders on all the markets.

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### THE MAN ON WATCH

Some people walk into church as if they were at the movies. Their tongues keep going all the time, their minds being on everything else but divine worship. In order to retain Kingston's beauty spots on the roadsides, the council should appoint a landscape architect. Col. Kent horticultural association might offer its services to Christy's Board of Works. Over at Watertown they cannot understand why old boats beat the new ones. Well, it is just like old wine—it beats the new all hollow. "Why did you hold your regatta sta-

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Rolls, 32" wide ..... \$3.90 per sq.  
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Our business is RADIO ONLY. That means, for you, satisfaction at less cost.  
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Aug. 21/Sept. 19/Oct. 17  
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Montreal to Liverpool  
July 29/Sept. 26/Oct. 23  
Aug. 19/Sept. 16/Oct. 13  
Sept. 16/Oct. 14/Nov. 11  
Aussonia

Montreal to Plymouth, Cherbourg and London  
July 22/Aug. 26/Sept. 23  
Aug. 8/Sept. 10/Oct. 12  
Antonia

N. Y. to Queenstown and Liverpool  
Aug. 2/Sept. 7/Oct. 5  
Aug. 17/Sept. 14/Oct. 12  
Aug. 31/Sept. 28/Oct. 26  
Scythia

N. Y., Cherbourg & Southampton  
Aug. 1/Aug. 22/Sept. 12  
Aug. 1/Aug. 22/Sept. 12  
Aug. 16/Sept. 6/Sept. 26  
Berengaria

N. Y., Plymouth, Cherbourg and Hamburg  
July 19/Aug. 31/Oct. 5  
Aug. 3/Sept. 9/Oct. 14  
Caronia

Boston - Liverpool - Queenstown  
Aug. 22/Sept. 20/Oct. 18  
Samarina

N. Y. to Glasgow (via Seattle)  
July 22/Aug. 19/Sept. 14  
Aug. 28/Sept. 23  
Sept. 2  
City of London  
Sept. 9/Oct. 7  
Cameronia

BOSTON TO LONDON-DERRY LIVERPOOL AND GLASGOW  
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Nov. 25 (Cruise) ..... Scythia  
Dec. 6 (Cruise) ..... Tuscania  
Feb. 10 (Cruise) ..... Caronia

For rates of passage, freight and further particulars apply to local agents or

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Take this refreshing holiday cruise to St. John's, Nfld., stopping at Charlottetown, P. E. I. S. S. "Manoa" leaves Montreal Saturday, August 5th, and every second Saturday thereafter.

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