SCHOOL STUDY SPORTS

THE JUNIOR BRITISH WHIG

BIGGEST LITTLE PAPER IN THE WORLD

After you have practiced it holding

Potatoes, bag\$1.25 Wheat, local \$1.15 to \$1.25

HUMOR PLAY . WORK

.. THE SWIMMING CLASS-LESSON V ..

By JACK GIHON The Man Who Taught One Thousand New Orleans Boys and Girls How to Swim

The crawl, used by practically every whole movement coming solely from epeed swimmer, and looked upon by the knees. Do not bend the knees too experts as the only logical racing much, and hold them close together. stroke, is naturally appealing to most The feet should never be opened more young swimmers. The crawl is the than 12 inches from the heel to toe. present perfection of all swimming When you do it correctly, your feet strokes, and many instructors declare should be churning the water, not



your head, lie flat in the water, face that until you have mastered it, you the leg drive alone. Then gradually cannot consider yourself a good swim- take a couple of strokes, and a couple This time—a kind of funny thing—

It is the most difficult of all strokes, but the speed it develops, its grace learning how to combine the arm and its general utility put it on such | movement and leg drive into a smooth a high plane as to make it well worth stroke. It is a matter of practice, any difficulty you might have in mas- alone. Arms and legs work independ-

The stroke consists of an abbrevi- kick and a slow arm movement, or ated double overarm movement, very vice versa, if you wish. No two perplained last week, and a peculiar leg and you will get a style of your own drive learned from the natives of the with practice. South Sea Islands.

The only difference between the on your face, and do not let your trudgeon and the crawl arm movements is that in the crawl the arms are bent at the elbows a triffe more than in the trudgeon, and they come down in the water alternately at the sides, rather than in front of the

The leg drive is radically different from any other stroke, however, and

To learn the leg drive, lie flat in strokes.

YESTERDAYS

PUZZLE 15

BACON

POTATOES

KINGSTON RETAIL

Lemons, dozen

Kingston Branch,

MARKET PRICES

Chickens, lb. 35 Lettuce, for 3

Bananas, doz.30 to .50 Sweet potatoes, 2 lbs,

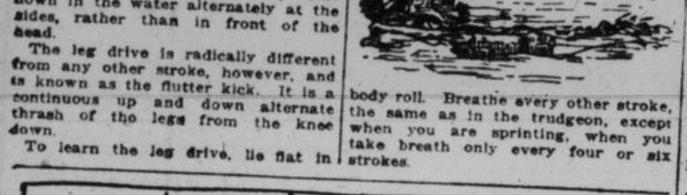
Grape fruit 12 to 15 Onions, 1b.

Kingston, June 17th.

Poultry.

Oranges, doz.30 to .70

Dairy Products.



MARION sewed the name of her favorite author in this quilt . WHAT IS IT ?

Oleomargarine

Beets, 2 bunches

.33 Celery, for 2

Barley

Dairy butter 30 Shorts \$30 to \$32 Kippers, pair

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problems which enables

us to be of service to the

man who needs sound

We invite your confid-

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co-operation which your

We have daily experi-

venience.

Cabbage, for 3 lbs.

Creamery butter, 1b. 38 to 49 Bran, ton \$28 to \$30 Halibut, 1b.28 to .30

Vegetables.

THE SHORT STORY, JR.

the water at the edge of the pool, so The Judge that you can support yourself with your hands. With your legs straight out behind you, start moving them back and forth; the hips straight, but relaxed; the ankles limber, and the splashing it. The crawl swimmer leaves a little wake behind him. something like that of a powerful

ERRY PARKS and me last Week We cracked s window. pane. le got away, but I got hauled Back into jail been there once before, you know-They caught me

I hated bein' caged like that, You feel like you was dead; to a support, point your arms above But all the fellows in our gang buried, and try to progress, using And used to boast about it, too, Had been to jail, you see,

The real difficulty of the crawl is in Cop took me in a room, A sort of nice and sunny place. And quiet as a tomb. A desk was 'cross one end of it, At which there sat a guy ently; you can use a fast flutter With grayish hair and funny smile,

And then he beat it quick, In swimming the crawl, keep flat While I was left alone in there, A-watchin' for a trick.

This guy he tells me how he'll help Me get a chanct once more; He didn't think they ought to treat Me like they did before. He talked so sort of friendly-like, And kind of took my part, nd when I thought of what I done I didn't feel half so smart. Then when he'd talked a while like

He smiles, so sort of queer, And reaches in his desk and says, "Say, Sonny, just look here." He holds a funny sling-shot thing, All kind of old and worn; Twe kept this thing," he says to me, "Since long 'fore you were born. hit a window, just like you-A kid, and kind of wild-They took me off to jall for it. Like they did you," he smiled, He told me all 'bout what a time He had to get a start, And you could see that he was just A boy himself at heart; And-well, I've chucked the gang for

I'm back in school again, And we're such friends, and gool Most glad I gracked that pend

.25 Corn, yellow, feed, bush85

cwt. \$4.25 to \$4.65

.25 Straw, baled, ton \$16 to \$18

9 Cod, 1b. 12 to 15

Pike, 1b. 121/2

Salmon, 1b. 20 to 40

Steak, cod, lb.12 1/2 to 15

Trout, salmon, lb. 18 to 20

White fish 18 to 20

Herring, fresh, lb. 8 to 121/2

Porterhouse steak, lb. sv to .32

Local.. 9 to 10

Rib roasts, 1b. 25 to 30

Pork chops, 1b28 to .35

Hogs, dressed, cwt20

Bacon, breakfast35

Carcase, dressed .. \$8.00 to \$10.00

Hides and Wool.

Tallow, rendered 6c per lb

Ginseng \$9 per lo.

Beeswax, clear 30c per 1b.

GENERAL TRADE.

Belleville, 35 to 36; Brantford

35 to 38; Cobourg, 33; Chatham, 28

to 30; Hamilton, 40 to 45; Kingston,

Belleville, 25 to 26; Brantford,

Spring Chickens.

Fronts, lb, quarter

Hinds, lb., quarter

Chops, 1b Mutton, 1b.

Sausage meat lb,

Leg, 1b.

Spring lamb:

Finnan haddie, lb.

Flour, standard (Gov't)

.25 Eels, 1b.

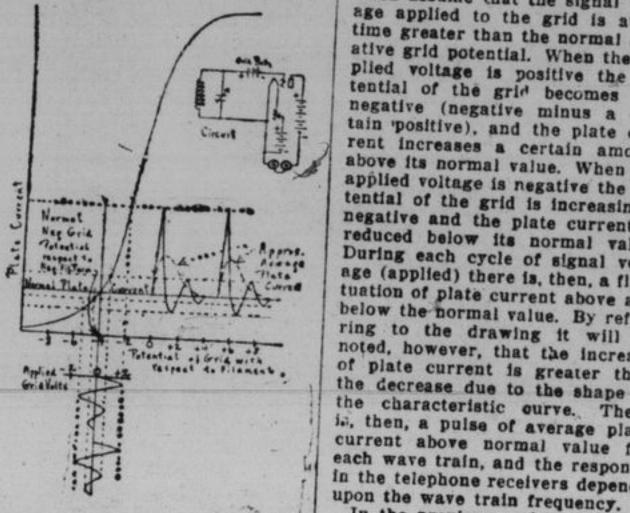
80 Perch, lb

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

SIMPLE DETECTION IN A VACUUM TUBE CIRCUIT.

(Continued) It has been pointed out that when an alternating (or oscillatory) signal voltage is applied to a tube whose normal grid potential is zero, the plate current decreases more on the average than it increases. The result, then, during a train of damped oscillations

in the antenna is one pulse of current reduction in the plate circuit. This pulse of reduction allows the diaphragms of the telephone receivers to oe released and attracted and makes one click. If there are 1,000 wave trains per



second there are 1,000 clicks or vibrations of the receiver diaphragms each second, which produces a certain musical tone. Starting and stopping of the wave trains at the transmitter then produces starting and stopping of the musical buzzes in the telephones, and signaling can be accomplished in a telegraphic code.

When the grid potential, with respect to the filament (actual grid | the same,

potential), is positive, a grid current flows, which damps the signal energy and decreases the sharpness of tuning. It would be a good plan, therefore, to never allow the grid to become positive. Suppose that a certain normal regative potential is applied to the grid by a grid battery. The plate current has a certain value depending upon filament current, plate potential and this normal negative grid potential. This can be called the normal plate current. Then assume that the signal voltage applied to the grid is at no time greater than the normal negative grid potential. When the applied voltage is positive the potential of the grid becomes less negative (negative minus a certain positive), and the plate current increases a certain amount above its normal value. When the applied voltage is negative the potential of the grid is increasingly negative and the plate current is reduced below its normal value. During each cycle of signal voltage (applied) there is, then, a fluctuation of plate current above and below the normal value. By referring to the drawing it will be noted, however, that the increase of plate current is greater than the decrease due to the shape of the characteristic curve. There is, then, a pulse of average plate current above normal value for each wave train, and the response

In the previous article the tube was seen to operate actually as a rectifier. In the present case, however, there is no rectification, since there is at no time any grid current flowing. Due to the pulses of plate current being in only one direction, there is, however, apparent rectification of the alternations above and below the normal plate current value, and the effect in the telephone receivers is practically

in the telephone receivers depends

. A Herald Sun Feature.

APPARATUS NO DEVICES

By RALPH BROWN, RADIO ENGINEER

A LOW POWER TELEPHONE TRANSMITTING SET

The radio telephone transmitter illustrated is of low power, but has covered some very remarkable sending ranges. It can be successfully used on an antenna having a capacity of .00025 to .002 microfarads and resistance up to 50 ohms. Any type of 5 watt vacuum tubes may be used, and the plate voltages may be anywhere from



60 to 500 volts, limited only by the

In the upper left hand corner there is a radio frequency ammeter, which indicates antenna current. The scale reads to one ampere, and a shunt, which may be cut out, allows currents up to two amperes. The shunt is usually cut out of circuit when the antenna resistance is high. Right beside the meter is a high frequency buzzer, which is used when modulated continuous waves are desired for telegraphing. At the upper right there is a grid control, which acts as a stabilizer. The scale provides for accurate adjustment to predetermined position. Immediately

below this stabilizer are two switches, one being a plate inductance control and the other a wave length switch. The wave length switch has seven points, and any one of seven wave lengths between 160 and 325 meters may be used for transmission. To the left of these two switches there is a transmission control switch. This provides for buzzer, modulated, telegraph transmission, straight, continuous wave telegraphy or telephony. There is one position of the switch for each, and selection is quickly made. Terminals for a microphone and for a key are located below the switches. The switch at the lower left is a rheostat control. There are eight points on this switch, and the current carrying capacity of the rheostat is five amperes. Ample regulation is thus provided for, whether six eight or ten volts are required for the filaments.

Two tubes may be used if desired and will increase the range of transmission. The telephone modulation is very good, and when filters are used the plate potential can be furnished from a direct current dynamo of proper voltage.

The panel is of formica, with a grain finish; metal parts are all highly nickel plated and the case is of heavy, dark quartered oak, with a rubbed finish. The lettering is engraved and filled with white. The case has a hinged top, which provides easy access to the interior. All terminals are plainly, marked for quick and easy connec-

Will readers interested in these radio articles kindly communicate .25 with the editor by mail?

\$1.25; Port Hope, \$1; St. Thomas, London, 45 to 54; Peterboro, \$1.75 to \$2; Woodstock, \$1.60.

Loose Hay. Belleville, \$26 to \$27; Brantford, Lamb and sheep skins, up to .. .25 \$18 to \$20; Woodstock, \$17. Wheat.

Belleville, \$1.20; Brantford. \$1.20; Cobourg, \$1.05; Chatham,

Diet Not Everything

33 to 35; Cobourg, 27; Chatham, 26 to 28; Hamilton, 35 to 38; Kingston food digestible and wholesome, yet 30; London, 27 to 33; Peterboro, 30; you don't get strong.. What's the Belleville, 30 to 35; Brantford, because they keep the system clear of impurities. Those who regulate the system with Dr. Hamilton's Pills woman. She seems shorter than when I saw her last."

"Certainly," said the writer, solter of impurities. Those who regulate the system with Dr. Hamilton's Pills emnly. "She has married and seterboro, 30 to 35; Port Hope, 30; St. don't have indigestion or constipat-Thomas, 30 to 35; Woodstock, 30 to ed headaches, they feel enlived all over, because their system is kept in mooth running order. To revitalize and stimulate your whole being, to bell-boy for whistling in the lobby. Belleville, \$1.65 to \$1.75; Brantford, \$1.70; Cobourg, \$1.25; Chatham, \$1.40 to \$1.60; Hamilton,
\$2.75 to \$2. Kingston, \$1.40; Lon-\$1.75 to \$2; Kingston, \$1.40; Lon- 25c. all dealers, or The Catarrhozone sternly.

Port Hope, 60; St. Thomas, 65 to 75; Woodstock, 55.

Wool, unwashed, 12 to 14 \$16 to \$18; Chatham, \$18; Hamil- Belleville, 65 to 70; Brantford, Port Hope, 95; St. Thomas, 75 to 85; Woodstock, 70.

Why She Got It. Two beggar women \$1.35; Hamilton, \$1.45; Kingston, street the other day. "Fine coat \$1.15 to \$1.25; London, \$1.35 to you've got there. Where did you \$1.40; Peterboro, \$1.30; Port Hope land it?" said the first one. "Old \$1.40; St. Thomas, \$1.40; Wood- Mrs. Golde gave it to me," said the second beggar woman. "Is that so? I've begged at Mrs. Gobsa Golde's a hundred times, and then she never 30 to 40; London, 30 to 33; Peter- Cobourg, 50; Chatham, 40 to 45; work her?" "Well, you see," said the Belleville, 65; Brantford, 52; gave me a cent. How did you boro, 28 to 30; Port Hope, 30; St. Hamilton, 47 to 50; Kingston, 55; first woman, stroking her new coat complacently. "I didn't tell her I was begging for myself, but I prc-

> Matrimonial Shrinkage. It was a well-known writer of

Paging Doggie.

"Ain't whistling, sir,"

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J. L. ABELL District Agent 237 Bagot Street. Phone 704.

alow, 4 bedrooms, sun porch, elec-tric light, gas, hardwood floors; good lot \$6,500 BEVERLEY STREET — P. R. Bungalow, 5 bedrooms, hot water heating, electric light, gas, hardwood floors; good lot \$5.200 Kingston Agencies Limited 67 Clarence Street - Phone 703

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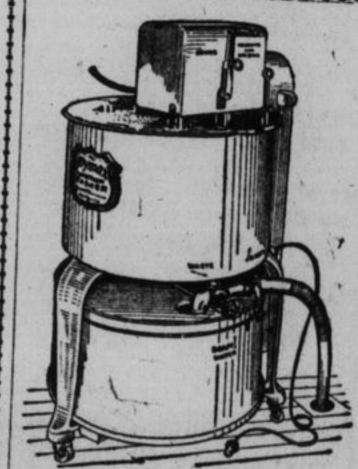
ST. PAUL

This stock sold at 117 before the war. It is now around 26. The President of the road recently reported traffic 20% heavier this year than last and prospects of heavy business.

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pillow.

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Branch Manager. Capital \$5,000,000

problem requires.

Consult our

assistance.

Reserves \$7,000,000

nearest

Potatoes, Bag.

don, \$1.65 to \$1.85; Peterboro, Co., Montreal.

In Keeping Healthy

tended I was begging for the poor"

Port Hope, 24; St. Thomas, 28 to trouble? The liver is lazy, stomach "I have just seen your wife for is overloaded, the bowels are not ac- the first time since your marriage; tive. Relief is quickly supplied by but I had supposed she was a taller Dr. Hamilton's Pills. They make woman. She seems shorter than