

Children Cry for



Fletcher's CASTORIA

MOTHER:—Fletcher's Castoria is a pleasant, harmless Substitute for Castor Oil, Paregoric, Teething Drops and Soothing Syrups, prepared for Infants in arms and Children all ages.

To avoid imitations, always look for the signature of *Chas. H. Fletcher*. Proven directions on each package. Physicians everywhere recommend it.

But Only So Long

Friend—It's so lovely to have little sisters, I think.
Big Sister—Yes—so long as they don't fit your stockings and gloves.

All's Well

"How are your sick goldfish, Mrs. Blankhem?" "Oh, thank you. They're on their feet again."

A FEELING OF SECURITY WHEN YOU USE SWAMP-ROOT

You naturally feel secure when you know that the medicine you are about to take is absolutely pure and contains no harmful or habit-producing drugs.

Such a medicine is Dr. Kilmer's Swamp-Root, kidney, liver and bladder medicine. The same standard of purity, strength and excellence is maintained in every bottle of Swamp-Root.

It is scientifically compounded from vegetable herbs.

It is not a stimulant and is taken in teaspoonful doses.

It is not recommended for everything.

It is nature's great helper in relieving and overcoming kidney, liver and bladder troubles.

A sworn statement of purity is with every bottle of Dr. Kilmer's Swamp-Root.

If you need a medicine, you should have the best. On sale at all drug stores in bottles of two sizes, medium and large.

However, if you wish first to try this great preparation, send ten cents to Dr. Kilmer & Co., Binghamton, N. Y., for a sample bottle. When writing, be sure and mention this paper.—Advertisement.

Much Cheaper

Buy—Why do you carry your house around on your back?
Sell—'Cause it's cheaper to move than pay rent!

Freshen a Heavy Skin

With the antiseptic, fascinating Cuticura Talcum Powder, an exquisitely scented, economical face, skin, baby and dusting powder and perfume. Renders other perfumes superfluous. One of the Cuticura Toilet Trio (Soap, Ointment, Talcum).—Advertisement.

Purely Pro Tem

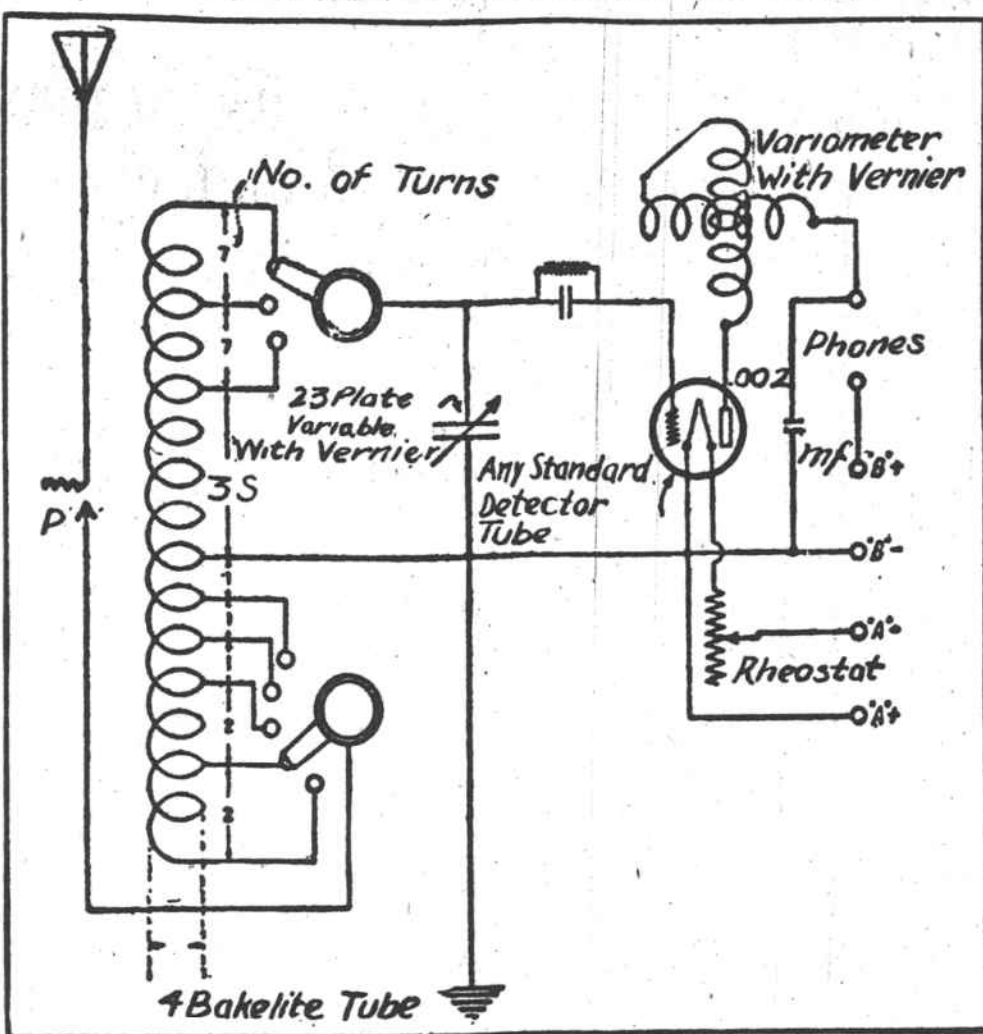
Lily—So you've done mortgaged our lil' home?
Mose—Jes' temporarily, honey, till de mortgage am foreclosed.

The occasional use of Roman Eye Balsam at night will prevent and relieve tired eyes and eye strain. 372 Pearl St., N. Y. Adv.

Don't forget that machine-made politicians seldom become able statesmen.

RADIO

(Edited by G. Douglas Wardrop, Editor of Radio Merchandising.)



The Hookup of the Modified Circuit is Easily Followed.

By ROBERT HERTZBERG

As can be seen from the illustrations, the outfit is an unusually simple one. The circuit was designed by Messrs. Haviland Halsted and Donald B. Stevens of New Rochelle and its efficiency can be judged from the fact that station 2LO in London was heard on one WD12 tube during the recent transatlantic tests.

The parts required are few in number. A 23-plate vernier variable condenser is used for the tuning, and an ordinary variometer supplies the regeneration. The shaft of the latter instrument is equipped with a geared vernier dial, which greatly facilitates the adjustment. A standard tube socket and a six-ohm rheostat (for the WD12) are mounted on the right-hand end of the panel, which is of high-quality composition, 18 inches long and 7 wide. The variable condenser is mounted inside the special tuning coil, thus saving much space and making the connecting wires very short.

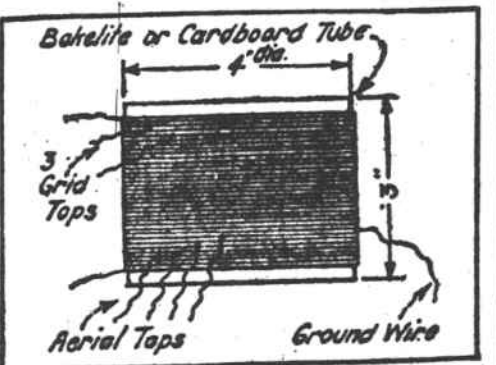
The inductance coil is the feature of this receiver, but there is nothing particularly difficult about its winding. The diagram gives all the constants. A standard 4-inch cardboard or bakelite tube 3 inches long is wound with 58 turns of No. 24 double cotton covered wire. The end nearest the panel is the lower end in the diagram. The lower switch shown in the latter is the upper switch on the panel.

Beginning at the end of the coil nearest the panel, a tap is taken after two turns, another tap after another two turns, and then two more taps, one turn apart. These four taps and the end of the coil go to the aerial switch points. Skipping one turn from the last tap, connection is made to the ground, the plus of the "A" battery, and to the rotary plates of the variable tuning condenser. This winding is the "primary," and is untuned, as in all Reinartz hookups.

Winding Is Continued.

The winding is now continued without interruption for thirty-five turns, and a tap taken at the thirty-fifth wire. Fourteen more turns complete the coil, and two more taps made, one at the forty-second, the other from the end of the wire. This winding is the "secondary," which is tuned in the usual manner by the variable condenser. The switch and its three contact points are beneath the primary switch on the panel, between the variable condenser and the variometer.

The aforementioned potentiometer is fastened to the panel to the left of the condenser-coil assembly. Only two



Inductance Coil, Single Layer Winding of No. 24 Magnet Wire.

of its three binding posts have wires connected to them. The arm and either end of the winding are used, and it makes no difference which goes to the aerial.

As can be seen from the hookup, the connections to be made are few and simple. The grid condenser is a standard one, of .00025 mfd. capacity, with a grid leak of two megohms for the WD12. The battery and phone binding posts are all placed along the right hand edge of the panel so as to make the addition of an amplifier easy. From bottom to top the posts read: "A" minus, "A" plus, "B" minus, "B" plus, and the top two the phones.

In operation, this set exhibits exactly the same characteristics as any variable regenerative tuner. In turning up the variometer, a soft hush should be heard for about five degrees of dial movement, and then a sharp click when the tube falls into oscillation. The set is in the most sensitive condition just before this click is heard, and it will be found that the

vernier dial is of great value in working up to this point.

Tuning Is Very Sharp.

The tuning of the secondary variable condenser is very sharp, and no trouble is experienced in separating the powerful local broadcasters. In hunting around for a station, the single-plate vernier condenser plate should be left half in. Then, after making as careful an adjustment as possible with the main knob, the small vernier knob can be slowly turned either way.

To listen to the stations on the lower wave lengths, the secondary switch is turned down so that the fewest number of turns are in the circuit. The wave length range will increase as the switch is turned up. The setting of the primary switch will not be found to be critical. In most installations the switch arm can be left in one position for all stations.

It is very important that the rotary plates of the variable condenser be connected to the filament and the ground. This will do away with all hand capacity effects when turning the knob. If a WD12 tube is used, the "A" battery need only be a pair of ordinary dry cells connected in parallel, and the "B" a single 22½-volt block. If a UV199 or C200 is preferred, three dry cells are connected in series, and a 30-ohm rheostat used. The "B" battery remains of the same value.

As mentioned, the use of the potentiometer in series with the aerial wire prevents the set from radiating, or, at any event, it at least acts as enough of a choke to make any oscillations that do get by too weak to cause any harm. In addition, it aids quite noticeably in clearing the tone of many signals.—New York Sun and Globe.

A Battery Fuse

The practice of fusing the lighting circuit of a radio set is not recommended, because of the lagging time interval that takes place during the blowing of the fuse. In other words, it is not quick enough to save the filament. At present there is only one way in which the filament can be protected. Do not allow any heavy current or high potential to come in contact with the filament leads. In other words, be careful.

SHORT CIRCUITS

A burned-out vacuum tube makes an excellent grid condenser. All you need do is remove your present grid condenser and connect the grid terminal on the base of the tube to one end of the wire that was formerly connected to the condenser. Then connect a wire to the grid of the detector and lead it to the plate terminal on the blown-out tube. Connect the grid leak from the grid to the filament minus or plus (trial is the test), and you'll be surprised at the difference in reception.

If your "B" batteries are run down and you are not in the position to purchase new ones for a few days, they place them in a warm oven for a few hours. You will find that they will greatly increase in voltage. Say that a "B" battery registered 30 volts, then after baking it will go to about 40 volts or perhaps more. This scheme is not recommended unless in an emergency, as it is a rather dirty job and is usually not worth the trouble.

If you have a potentiometer in your set you will find that the set will work a little better if you connect a .002 fixed condenser from the movable arm of the potentiometer to one of the ends.

There is no need of soldering every connection in a radio set. In fact, it is better not to solder some terminals. For instance, it is absolutely unnecessary to solder wires to vacuum tube sockets. Place the wire under the screw, after looping it around, and tighten the screw with pliers. This holds true with transformers, some binding posts, and, in fact, any connection that can be made really secure without solder.

AN EXTRAORDINARY OFFER

THE SHARPLES SEPARATOR COMPANY, one of the largest and oldest Cream Separator manufacturers, will send a

Sharples Allsteel Cream Separator

Thirty Days' Free Trial
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Liberal Allowance for Old Machine

to your farm, all charges prepaid, so that you can try it Thirty Days Free at our risk. No obligations on your part. Now is your chance to try the latest improvement in the Separator world. Write today for details. Agricultural College Professors and Teachers are enthusiastic and unimpaired in their praise of this wonder Separator.

THE SHARPLES SEPARATOR CO.
West Chester, Pa.

Memories

Prospective Guest—Why, this room reminds me of a prison.
Manager—Well, sir, it's all a matter of what one is used to.—London Answers.

Unnecessary

Norah—Do yez set the table?
Bridget—No; shure OI've got thim so tame they ate out av me hand.

Farmers Wanted.
Particularly tobacco farmers, in Wayne County, Georgia. Healthful climate, fertile soil, splendid railroad facilities, fine schools, churches, and good neighbors; lowest-priced lands. For farm lands, or factory sites address Dr. W. A. Brooks, Sec., Jesup Board of Trade, Jesup, Ga.—Advertisement.

Nobody Home

"Where is the car?" demanded Mrs. Diggs. "Dear me!" ejaculated Professor Diggs. "Did I take the car out?"

For speedy and effective action, Dr. Peery's "Dead Shot" has no equal. A single dose cleans out Worms or Tapeworm. 372 Pearl St., N. Y. Adv.

Speculating sounds more dignified than gambling, but a fellow loses just the same.

Sure Relief FOR INDIGESTION



6 BELLANS Hot water Sure Relief
BELLANS
25¢ AND 75¢ PACKAGES EVERYWHERE

W. N. U., CHARLOTTE, No. 23-1924.



ASPIRIN
Say "Bayer Aspirin"

INSIST! Unless you see the "Bayer Cross" on tablets you are not getting the genuine Bayer Aspirin proved safe by millions and prescribed by physicians for 24 years.

Accept only a Bayer package

which contains proven directions
Handy "Bayer" boxes of 12 tablets
Also bottles of 24 and 100—Druggists
Aspirin is the trade mark of Bayer Manufacture of Monocetate of Salicylic Acid

BIG ULCER ALL HEALED

"Here is another letter that makes me happy," says Peterson of Buffalo. "One that I would rather have than a thousand dollars."
"Money isn't everything in this world. There is many a big-hearted, rich man who would give all he has on earth to be able to produce a remedy with such mighty healing power as Peterson's Ointment. To sell at all druggists for 60 cents a large box."
Dear Sirs:—
I was an untold sufferer from old running sores and ulcers. I had tried most everything without any relief from pain. A friend told me of your wonderful ointment and the first box took away the pain that had not left me before in years, and after using just nine dollars' worth of the salve I am cured. The ulcer was 9 inches by 6½ inches. It is all healed and I can walk. Never, never will I be without Peterson's again.
You may use this to recommend your ointment, if you wish. I cannot say enough to praise it. Yours truly, Mrs. Albert Southcott, Londonville, N. Y.
Mail orders filled by Peterson Ointment Co., Inc., Buffalo, N. Y.

A few puffs Kill FLIES MOSQUITOES FLEAS

CLOSE doors and windows, then place a small quantity of Bee Brand Insect Powder on a piece of paper. Blow upward—the tiny particles of powder float about the room and kill these annoying household pests. Some prefer to burn the powder. It is also effective. The cost of using Bee Brand Insect Powder is amazingly low.

Insect Powder is one of the most effective insecticides. Bee Brand is the most effective Powder.

Bee Brand Insect Powder kills Flies, Fleas, Mosquitoes, Ants, Roaches, Water Bugs, Bed Bugs, Moths, Lice on Fowl, Weevil—and many other house and garden insects.

Non-poisonous—harmless to mankind, domestic animals and plants. Does not stain—100% pure—no adulteration.

McCormick & Co., Baltimore, Md.

In red sifting-top cans—
at your grocer or druggist.
Household sizes, 15c and 35c. Other sizes, 70c and \$1.25.
Large Pump Can—75c.

If your dealer can't supply you, send 35c for large household size. Give dealer's name. Get our free booklet, "It kills them," a guide for killing house or garden insects.

Bee Brand INSECT POWDER



More Economical In Every Way

YOU'LL never know how many steps or how much time you can save by using self-rising flour until you try it. A heaping plate of delicious biscuits, a light wholesome cake, or a pan of golden muffins all ready to serve in the time it takes to prepare coffee!

"I use self-rising flour because it is much more economical in every way. It requires less lard and takes less time to bake with it—all the rising ingredients have already been mixed," writes Mrs. J. of Leland, Louisiana.

Self-rising flour provides a new way to make old familiar dishes wholesome and tempting. Baking experts recommend it heartily. For high food value it is excelled by no other flour. Try it—test it. Ask your grocer for self-rising flour that carries the Blue Shield on the bag. It complies fully with all pure food laws.

FOLLOW THESE FIVE RULES For Making Perfect Biscuits with Self-Rising Flour. (1) See that your oven is hot; (2) Always use sweet milk or cold water; (3) Never add baking powder, soda or salt; (4) Use good shortening—lard, vegetable fat or butter; (5) Make soft dough—bake quickly. SOFT WHEAT MILLERS' ASS'N., Inc.

Use SELF-RISING FLOUR

MONEY-BACK GUARANTEE
Every bag of self-rising flour bearing the Blue Shield of purity is fully guaranteed by the Soft Wheat Millers' Association. The contents are absolutely pure and wholesome and comply with all pure food laws. If you are not satisfied with your baking results, the Association will cheerfully refund your money.

It's Healthful—Dependable—Economical

BLANKETS

Cleansed and refined—original softness renewed by special process. \$1.00 per pair.
THE CHARLOTTE LAUNDRY, CHARLOTTE, N. C.