

minutes
That's all it takes—5 brief morning minutes—and Albers Carnation Mush is on your table piping hot, ready-to-eat. Try it for your "better breakfast" tomorrow!

Albers Carnation mush

Los Angeles Newest

Hotel Cecil
Main Street
bet. 6th & 7th
700 ROOMS

300 without bath \$150
200 with toilet \$200
200 with private bath \$250

GOOD GARAGE FACILITIES

Soldiers — Pensions
IMPORTANT
Soldiers who served in war with Spain, and not receiving pension, should write
J. IRVING McKENNA
No. 440 Wilcox Bldg., Los Angeles.

Shoes Sent Far
Shoes sent to chilly Alaska from this country in seven months of this year numbered 20,558 pairs for men and boys and 8,072 pairs for women, while those shipped to sunny Hawaii included 98,613 for males and 48,092 for females.

Sure Relief

BELL-ANS FOR INDIGESTION
6 BELL-ANS Hot water Sure Relief
BELL-ANS FOR INDIGESTION
25¢ and 75¢ Pkgs. Sold Everywhere

Have Good Hair And Clean Scalp
Cuticura
Soap and Ointment Work Wonders
Try Our New Shaving Stick.

Cumulative
"Why do you mark that paper 'urgent' when you leave it on your desk for weeks?"
"Because every day I leave it it becomes more urgent, doesn't it?"

Gob Humor
Aucklander—I say there, Yank, what is that song you sing about there'll be no great precipitation hereafter?
Bluejacket—Oh, you mean "It Ain't Gonna Rain, No More"!

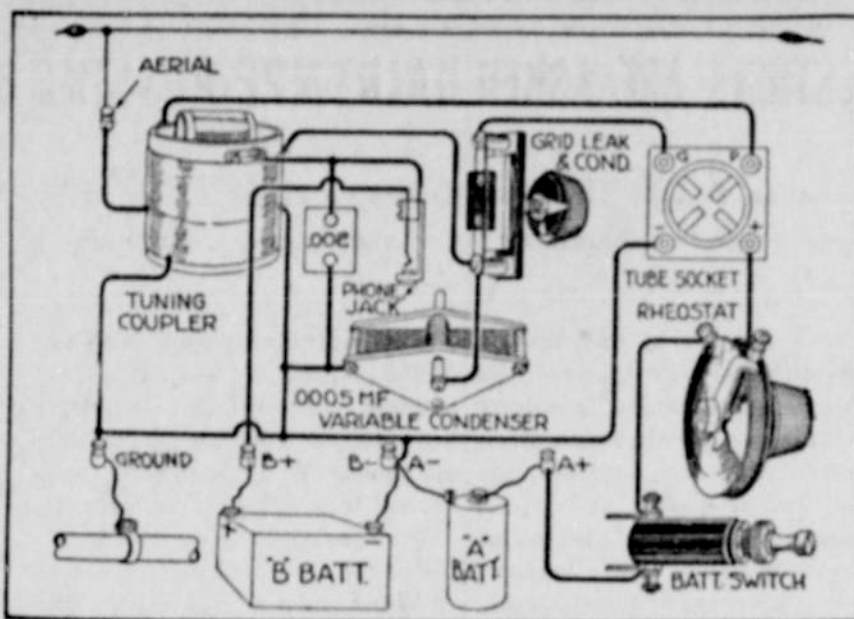
Backache Wearing You Out?
Every day find you miserable with backache? Suffer sharp, stabbing pains? Feel lame and stiff—always tired, nervous and dispirited? Then look to your kidneys! Your kidneys are the blood filters. Perhaps they have failed to properly rid the blood of body poisons. Naturally, then, you suffer the injurious effects of this slow poisoning. Don't risk neglect! If your kidneys need help, use Doan's Pills. No other kidney diuretic is so well recommended nor so successful. Ask your neighbor!

A California Case
Mrs. J. P. Buell, 1534 Orizaba Ave., Long Beach, Cal., says: "I had a bearing-down pain across my kidneys and a sharp, stinging pain through my back. My back became lame and I always felt tired. I had headaches and dizzy spells when tiny specks flickered before my eyes, blurring my sight. My kidneys were also disordered. But after using Doan's Pills I was rid of the attack."

DOAN'S PILLS
60c
STIMULANT DIURETIC TO THE KIDNEYS
Foster-Milburn Co., Mig. Chem., Buffalo, N. Y.

W. N. U., San Francisco, No. 47-1925.

RADIO



Pictorial Diagram of Three-Circuit Regenerative Receiver That is Selective and Has Wonderful Range. Three-Circuit Tuner Used.

By **CARLTON E. BUTLER**,
(Member, American Institute of Electrical Engineers and Institute of Radio Engineers.)
Superheterodynes and tuned radio frequency receivers are the eventual goal of most set builders in radio. For the beginner, the usual start should be with a one-tube set, amplification coming later. One of the encouraging things about radio for the novice is that the ultimate set may be built on the installment plan, yet give entertainment from the moment that the initial unit with a single tube is assembled.

In the realm of one-tube sets, the foundation for the big set later on, there are many freak or trick circuits each having a following of boosters. The little points of difference between the majority of these circuits usually rests in the manner in which regeneration is secured. The best circuits use regeneration, without which it is next to impossible to tune through interference, or bring in distant stations.

Regenerative Feedback.
The ultra-audion circuits, known under a variety of names and very popular a few years ago, secure regeneration by the direct method, but as this is used with single circuit receivers as a rule, it is not selective enough for present-day needs. The variometer in the plate circuit method is good, but requires additional space, and the purchase of additional apparatus. The capacity feedback method is good but also requires an additional instrument.

The tickler method of regeneration is very popular and can be secured by the use of a small rotating coil inside of the tuning inductance. The three circuit tuners, of which there are a number of popular makes on the market, use this form of securing a regenerative feedback. This type of receiver is by far the easiest and cheapest to build, when selectivity and DX reception are taken into consideration.

The three-circuit couplers make use of an aperiodic or untuned primary. The secondary winding is without taps, being tuned by a variable condenser. The rotor, or tickler winding, is connected in the plate circuit of the detector tube. Two controls tune the circuit, making it convenient for the beginner to obtain results.

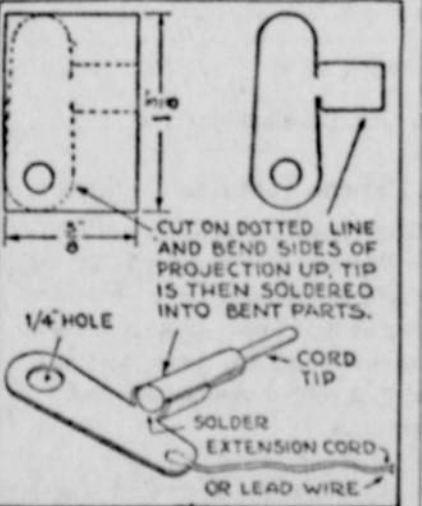
- Apparatus Needed.**
- To construct a set of this kind, the following apparatus will be needed:
 - 1 3-circuit tuner of any good make.
 - 1 23-plate .005 mfd. variable condenser of good low loss construction.
 - 1 centralab rheostat (6 ohm for the WD 11, WD 12, UV 200 and C 300 type of tubes. 30 ohm for the UV 201-A and C 301-A, UV 199 and C 299 types).
 - 1 fixed mica condenser of .00025 mfd. capacity.
 - 1 centralab variable grid leak.
 - 1 centralab filament cut-off switch.
 - 1 detector tube (WD 11 or WD 12).
 - 1 2 1/2-volt "B" battery. "A" battery for tube to be used (1 1/2 volt for WD 11 or WD 12).
 - Wire, binding posts, headphones, etc.

The receiver will take up but little room and can easily be assembled on a baseboard 6 by 12 by 1/4 inches. After the set is working satisfactorily it may be assembled on a bakelite or hard rubber panel and inserted in a cabinet. As it is usually desirable to add further amplification, it is best to purchase a cabinet and panel that will accommodate additional apparatus needed.

The value of the grid leak required depends on the individual tube used for a detector. This value can be secured best through the use of a variable grid leak which will also be of considerable assistance in tuning. Remarkable long-distance records have been made with receivers using this circuit, and it can conservatively be called the best one-tube receiver for the beginner to try.

Tip and Lug Combined for Extension Cords

A combination tip and binding post lug for use on loud speaker extension cords, battery wires, etc., can be easily made in the following fashion. A piece of metal about one and one-eighth inches long and five-eighths inches wide, copper, tin or brass, is cut with



How to Make Combination Tip and Binding Post Lug.

a pair of tin shears as shown in the accompanying illustration. Cut on dotted line, fold sides together, and then solder to folded tin.—Radio Digest.

Pencil as Substitute
If you have no vernier condenser, the sharpest kind of tuning can be done by resting the rubber end of a long pencil between the edge of the dial and the panel and turning slowly.

Some Good Suggestions That Will Help Fans

Because of the shrinkage, all guys should be made of rope. Every connection of an aerial will help to increase the volume, if soldered. It is better to connect the ground wire to the water pipe before it reaches the water meter, if possible, for there is considerable resistance in the meters.

A crystal can be securely held in its cup by mixing a small quantity of mercury or quicksilver with a piece of ordinary tinfoil to the consistency of a thick paste.

A squealing set will annoy the neighbors' reception. Find the point on the dial where this oscillation starts on a given signal, and then always keep it below this point.

As earphones must be handled carefully, why not put a small screw eye or hook on the side of the radio table so you can hang up the phones when through with them for the night?

There is ample current capacity in dry cell batteries to produce a fatal shock, but ordinarily the voltage is not sufficient to force this fatal shock through the body.

A good ground and aerial are the basis on which an efficient set can be installed.

When a loop won't reach the longer wavelengths insert a 25 or 50-turn honeycomb coil in series with the loop. When it won't reach the low, or short, wavelengths use a variable condenser in series with the loop.

If you want a "C" battery in the audio unit, connect the F posts on the transformers, run the negative U to this wire and hook the positive side of the C to the negative A battery line.

Mr. Dairyman

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Dispose
of a cow in a day, but to
Produce
one requires from 2 1/2 to 3 years?

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