

SUCCESSFUL OPERATION OF SUPER-REGENERATIVE RECEIVER DESCRIBED

PRACTICAL DATA GIVEN CONCERNING WORKING OF SET

WSB, Atlanta, Is Heard In Addition to All Local Stations.

The amateur at present does not desire to invade the theoretical and mathematical side of super-regeneration. Rather than know the details of the circuit, he wants to know a few underlying principles and hold them in mind if he expects results. For instance, he must know which tube acts as the oscillator; which tube acts as the detector, amplifier, and regenerative set in operation, first light the filament of the oscillating tube and place the phones in the circuit to see if it is functioning properly. Next light the tube which is the detector and remove the phones (if they are not in the oscillating tube circuit) and close the circuit. The grid battery need not be included in the circuit, but add gradually to it if properly adjusted. Inductive relation is maintained between L-5 and L-6 in this circuit. Having lighted the filament of the oscillator tube, adjust the coupling between L-5 and L-6 and the condenser C-2 until a note of high pitch is heard in the phones. The condenser C-2 which is in connection with the radio frequency choke L-4 couples the grid and plate of the oscillator tube will have to be placed in approximately the maximum setting. Now light the regenerative circuit (condenser C and the variocoupler and variometer) until a signal is received. If no signals are received the oscillator tube which acts as detector.

Lower End Used.
Only the lower end of the condenser C, which is a .00025 (21 plate) was used in the above circuit and one of lower capacity (.00025, 11 plate) answers the purpose just as well. The condenser C-2, stator winding of the variocoupler and adjusted to the desired wave length in the same manner as usual.

The coupling between the rotor and stator of the variocoupler and variometer are next adjusted. Honeycomb coils were tried here, but with not nearly as good results. The signals will increase in strength as the coupling is tightened until an extremely loud squeal is heard; advance the coupling still further and at the same time advance the filament of the oscillator tube. If the signals are lost, the filament will have to be lighted a little brighter and the coupling again tightened and the filament again adjusted (lowered).

Repeat Operations.
It may be necessary to repeat the above operation five or six times before true super-regeneration is obtained. A verrier rheostat, although not necessary, will help things greatly.

If phone signals are being received, approach the minimum setting of C2 until the high pitched note is no longer clearly audible. A very weak high-pitched note is always audible. The circuit is now oscillating at a radio or superaudible frequency.

The signals are not nearly as strong, but have their natural tone and are very clear.
If a lower frequency is desired the coils may be wound with additional wire and the values of the condensers used. The lowering of the frequency of the oscillator tube gives greater amplification, but at the same time produces a continuous note in the phones which makes it difficult to read signals and renders the circuit useless for phone reception. The signals do not have their natural tone.

The given circuit is designed to oscillate at 10,000 cycles just between radio and audio frequency, thus throwing negative and positive resistance into the circuit 10,000 times a second. When the negative charge is impressed the set will function. When the positive is impressed it will not.

To secure the greatest amplification is very difficult. The set acts similar to a three-step radio frequency amplifier, detector and one-step audio frequency amplifier at all times, and with careful adjustment will equal a two-step audio frequency amplifier.

Three weeks were required to get the set into successful operation. All local stations and on one ocean in WSB, Atlanta, Georgia, was received.

Tells of Heroism In Big Hurricane

Jack Cole, Wireless Operator, Describes Destruction Of Station.

The report of the final destruction of their Cape San Antonio station by a hurricane is illustrative of the type of men employed by the United Fruit Company at its stations, and of the force of these storms, writes Roy Mason in Radio Broadcast. The following are extracts from the report made by John A. (Jack) Cole, one of the old-time radio operators who was at that time (1915) in charge of the Cape San Antonio station.

Tells of Heroism.
"About 9 a. m. the entire aerial was blown away and from that time on the wind blew stronger and stronger and stronger and about 11 a. m. was blowing with hurricane force. The Cuban government wind gauge had by this time been blown away. I judged the velocity of the wind was not less than 100 miles an hour and the barometer still falling.

"Our kitchen was the first to go, then the gas plant, warehouse, and roof of water storage plant were blown down, and some of the iron roofing carried for miles into the woods.

"Next the tower, which had been guyed with four 1" steel cables, broke in two about half way up, snapping the guys which blew straight out with the force of the wind.

"The roof of the operating house was next blown off and the windows and doors blown in. Myself, the cook and engineer, were inside at the time and we then took shelter in the engine house. The operating house, although of steel construction on concrete foundation, was moved about eight feet off its foundation. The roof and floor of the veranda were wrenched from the house, but the house itself stood, although badly damaged.

"The engine house, where we went for shelter, stood only about twenty minutes after we got there. This being the last house, we started for the woods.

"When I found that the barometer was as low as it would go, and the wind again increasing, we decided to go to the lighthouse, three miles away. This is a stone structure and we thought it would stand. In the meantime the wind had gotten stronger than ever. It took us about four hours to reach the lighthouse, which we did at 7 p. m., having had to crawl most of the way amidst flying sand, timber, falling trees, etc. On our arrival at the lighthouse we found that the prism had been blown in, putting the light out of commission. We found there the wreck of a Honduranian schooner. The captain had come in as close as he could get, but before he could get a boat out, the anchor chain parted and the vessel started out to sea. All hands jumped overboard and somehow got ashore. The vessel was blown to pieces and disappeared in less than thirty minutes."

BRANDES RECEIVERS
A leader in head sets, fitted with spring steel head band covered with black color woven cotton tubing. Formerly \$7.75
Radiotone Vacuum Tubes, UV 200..... \$5.00
UV 201..... \$6.50

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LARGE ASSORTMENT OF PARTS ON HAND
Capitol Radio Sales Agency
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Only Exclusive Radio Store.

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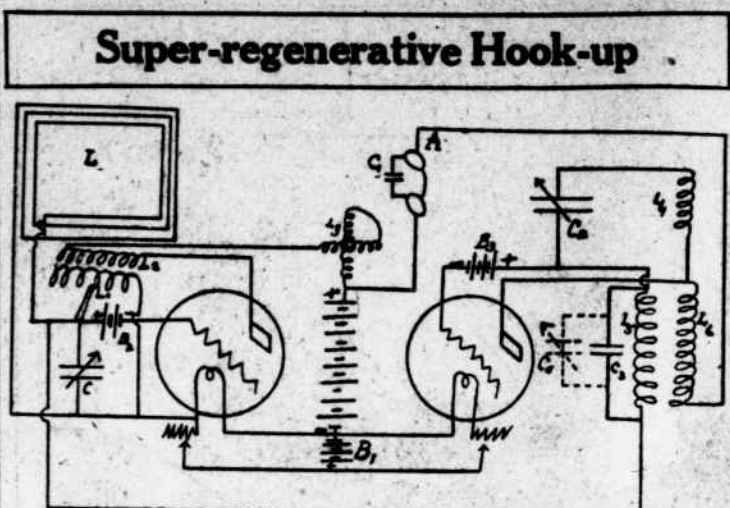
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RADIO FREQUENCY STILL UNDER TEST
Despite the fact that radio-frequency amplifying apparatus is tricky and difficult to build and handle, there have now appeared on the market a number of radio-frequency units, says Scientific America, which may be used in connection with the usual receiving set, as well as complete receiving sets with one, two- and even three-stage radio-frequency amplifiers, a detector, and one or two stages of audio-frequency amplification. It is still too soon to say just how efficient these manufactured radio-frequency amplifiers are, but we hope that they are thoroughly practical and devoid of all the experimentation and generally goes along with a home-made radio-frequency outfit.

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—at Peoples!
You'll find a complete stock of Radio Needs and a Radio Service Unbeatable.

At Peoples Drug Store No. 2, 7th and E Sts., you'll find a Radio Expert with years of experience and is considered one of the best in the city. He is ready and anxious to serve you at all times. Complete machines and necessary parts are here, too, in a pleasingly large assortment. Drop in tomorrow and "listen in" on our Radio.

Just Received!
Baldwin Head Phones
Type C.... \$16.00

Standard V. T. Sockets..... \$5 to \$15
Stromberg Carlson Plug..... \$1.25
Facet Plug..... \$1.25
Facet Twin Adapter..... \$1.50
Facet Multifac..... \$1.50
Facet Jack S. Circuit..... \$1.00
Facet Jack D. Circuit..... \$1.00
Ant. Insulators—all types..... 10c to 90c
Spaghettini tubing, per foot..... 10c
Audiola Crystal Receiving Set, with R. S. phones and antennae equipment, complete..... \$25.00
Audiola Set, separate..... \$15.00
Mesco Jr. Receiving Set, complete..... \$20.00
Mesco Phones, 3000 ohms..... \$5.00
Westinghouse (Baldwin, Type "C," unit), loud speaking attachment for phonograph, with cord and plug..... \$18.00
Aeriotron, 4-V, U. T..... \$4.50
Aeriotron, 1 1/2-V, W. D-11, V. T..... \$5.00
U. T. Socket for type W. D-11..... \$1.50
Special—U. V-201 Radiotrons, were \$6.50..... \$5.00
Grebe C. R-5 Receiver..... \$50.00
Grebe Type Rork, 2-stage amplifier..... \$55.00
Magnavox (loud speaker)..... \$45.00
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Vocaloid (loud speaker)..... \$35.00
R. C. Radio Transformer..... \$6.50
R. C. Audio Transformer..... \$7.00
Paragon V. T. Control Unit..... \$6.00
Paragon Filament Rheo..... \$1.00
Nutmeg Buzzers..... 50c
Nos. 22, 24, 26 single and double covered wire..... 30c to 65c
U. V-200 Radiotrons..... \$5.00
R. C. Power Transformer, model U. P. 1958, Regular price, \$25.00, Peoples price..... \$20.00
Service, "Little Wonder" Crystal Set, complete..... \$15.00
Service, Intermediate Wave Crystal Set, complete..... \$22.50
Binding Posts..... 4c to 25c
Galena (tested)..... 20c and 30c
R. R. S. Multipoint Crystal, very sensitive, guaranteed..... 60c
Ruco Receiver, Det. and 2-stage..... \$130.00
Westinghouse R. C. Det. and 2-stage..... \$130.00
Dictograph Phones, 3000 ohms..... \$10.00
Brandes' Phones, 3000 ohms..... \$8.00
Universal (Roller-Smith), 2000 ohms..... \$8.00
Murdock Phones, 3000 ohms..... \$8.00
Mesco Phones, 3000 ohms..... \$8.00
Copperweld Ant. Wire, 200 feet..... \$1.00
7-strand Ant. Wire, 100 feet..... 75c
Geraco H. R. Dial..... \$1.00
Anti. Cap. Dial..... \$1.00
Fada Inductance Switch, with contact points..... 90c
Wound Coils, 6-inch..... \$1.20
Wound Coils, 8-inch..... \$1.20
Acme Single Phone..... \$4.00
43 Plate Variable Condenser..... \$3.00
23 Plate Variable Condenser..... \$3.00
3 Plate Variable Condenser..... \$1.70
Simplex Filament Rheo..... \$1.25
Atwater Kent Filament Rheo..... \$1.75
Ajax Verrier Filament Rheo..... \$1.75
Atwater Kent Audio Transformer..... \$7.00
Atwater Kent Variocoupler..... \$8.00
Atwater Kent Variometer..... \$8.00
Dubilier Ducon..... \$1.50
Facet Audioformer..... \$5.00
Honey Comb Coils—
No. 35—Unmounted, for..... 65c
No. 80—Unmounted..... 70c
No. 75—Unmounted..... 74c
No. 100—Unmounted..... 80c
No. 25—Mounted..... \$1.00
No. 75—Mounted..... \$1.25

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Radio Parts and Apparatus
Washington's CUT RATE Radio Store
THE RADIO SHOP
1321 G Street N. W.
Specials for This Week:

Grand Special
\$5.00
Only the Best Goods Stocked
Concert every evening at four o'clock.

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The World's Greatest Artists to Your Home!
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Tell the dealer frankly what you expect—whether you are content with telephone head-sets, or whether you want to flood a whole room with broadcasted music. Ask him questions. If he is an R. C. A. dealer he will explain what each of the R. C. A. Radiolas can do.

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Wherever there is a broadcasting station, you will find thousands of homes where the family gathers in the evening to hear the concerts, news, lectures and dance music transmitted through the Radiola. The character of the Radiola installed in the home should be determined partly by the distance of your home from a broadcasting station and partly by the use to which the Radio is to be applied.

Tell the dealer frankly what you expect—whether you are content with telephone head-sets, or whether you want to flood a whole room with broadcasted music. Ask him questions. If he is an R. C. A. dealer he will explain what each of the R. C. A. Radiolas can do.

Radiola Receiver Model A R-1375
Price \$40
(includes telephone receiver