

# RADIO TALK

## A SURVEY OF THE FIELD OF RADIO COMMUNICATION

The transmission of signals by means of unguided electric waves was introduced in 1894 by Guglielmo Marconi. Three years later signals were successfully transmitted without wires between Dover, England, and Boulogne, France—a distance of thirty-two miles. Rapid strides have been made since that time until today, it is entirely practicable to establish communication between New York and Honolulu, Paris, Tokyo, and any place on the earth which is inhabited and equipped with the proper instruments without the use of wires between the points.

At first the efforts of scientists were confined to signaling by means of the dot and dash method, but gradually progress was made in the science which enabled people to talk with each other the same as they could on an ordinary telephone. In fact, one thing has been accomplished by means of the radio telephone which finds no counterpart in wire telephony, namely, the human voice has been heard around the world, the

### Crystal Detector And How to Use It

This article is not so much for the benefit of those amateur musicians who have been using crystal detectors for years as for those who have suddenly found themselves desirous of hearing the broadcasting at a minimum of expense.

Instructions for the use of simple and the receivers are often lacking in detail in regard to use of the detector.

First, when buying the galena (lead sulphide) it is well worth the extra expense to buy a mounted tested crystal.

Second, do not under any circumstances touch the surface of the galena; handle the lead mounting, there is always a certain amount of natural oil on the fingers which will coat the crystal and on account of its insulating properties spoil its sensitiveness.

If the crystal has been handled and lost its sensitiveness, buy half an ounce of carbo disulfide and wash the crystal with it, using a small soft brush to come in "school points."

A bit of rag on the end of a match will serve. If carbon disulfide is unavailable, commercial chloroform or ether will serve almost as well.

Third, tested galena requires only the highest pressure on the whisker. One strand from flexible electric light cord works beautifully; No. 30 copper or brass wire.

Now about the buzzer test; an ordinary buzzer will work, but it is more noticeable if the armature spring and armature are wedged with pieces of a soft eraser. When properly done, the buzzer will give a high musical tone, easily distinguished in the phone.

The placing of the rubber must be done by experiment, usually under the spring and between the magnets and the armature. The stationary contact of the buzzer is connected to the ground of the set; to test the connection is necessary. To test the crystal with the buzzer, set it in operation and by experimenting with the whisker, find the spot which gives the loudest response, then "tune" to the broadcasting. The sensitive spot on the crystal is of microscopic dimensions, hence great care is necessary in this particular.

tinkering with their receiving sets in spite of the weather, will find static an obstruction as great as and sometimes greater than the heat.

Worst interference. Static does its worst during summer. At that time it becomes so powerful that it endangers the construction of the telephone receivers.

Combination of both these obstructions, wireless practically all year round, makes the radio a somewhat impossible. A powerful set which in the temperate zones can send and receive signals up to 500 and even 750 miles distant, could hardly be heard as close as ten miles away near the equator.

While heat and static will keep the radio fan from his set during summer, engineers and officials of the large radio stations are perfecting the instruments in preparation of greater interest in the science next fall.

Broadcasting System. Already plans are under way for a nation-wide system of broadcasting stations by which concerts and other forms of entertainment will be heard out by radio under the control of a central station.

The American Telephone & Telegraph Company is connected with the Radio Corporation of America and other large radio firms, will be the leader in this enterprise. Although nothing definite has yet been said about such plans, it is understood work is progressing toward the development of a national broadcasting system under control of these companies.

In fact, an officer of one of these concerns has predicted the use of such a system in connection with the wired telephone lines over the country. With the immense central station now being erected on Long Island, New York, as main source, concerts and other programmes would be sent over the wired lines to the twenty or more sub-stations scattered about the country, from which they could be broadcasted locally.

BATTERY—A high-voltage battery, usually dry, giving 15 to 22½ volts current. It is used to furnish current to the plate in the detector and amplifier.

FORD RUNS 57 MILES ON GALLON OF GASOLINE. A new automatic Vaporizer and De-carbonizer, which in actual test has increased the power and mileage of Fords from 35 to 50 per cent. and at the same time removed every particle of carbon from the cylinders, is the proud achievement of John A. Brennan, 205 South Main Street, Pukwana, South Dakota. A remarkable feature of this simple and inexpensive device is that its action is governed entirely by the motor. It is slipped between the carburetor and intake manifold and can be installed by anyone in five minutes without drilling or tapping. With it attached, Ford cars have made from 40 to 57 miles on one gallon of gasoline. Mr. Brennan wants to place a few of these devices out free in this territory and has a very liberal offer to make to anyone who is able to handle the business which is sure to be obtained wherever this wonderful little device is demonstrated. If you want to try one out on your car, send him your name and address today.

CHEATING THE DOG. "As the Youngwiddies are going to separate, what can the inevitable 'for cooking, I understand, she entered the dining room one day and found him feeding the dog with one of the bones she'd made and was so kind to give up a dog biscuit in exchange."—Boston Transcript.

### RADIO—A PERMANENT UTILITY

Probably no scientific development ever took such a hold on the public as radio has. In the past ten months the number of stations which have been installed has increased by leaps and bounds until now the only thing which limits the number seems to be the inability to obtain the required apparatus and material.

The Government radio inspectors are flooded with applications for licenses for transmitting stations and receiving stations which, of course, require no license, are growing like mushrooms. The supply houses cannot get the material inside their doors fast enough. As an example, one of our contributors told me that last week he secured around a fifteen large supply houses, whose service has heretofore been all that one could desire and was compelled to be satisfied with forty per cent. of the material he wanted to purchase. One manufacturer who concentrates on two items, one of which is vacuum tube sockets, informed me yesterday that the machines in which these sockets are moulded have not been cooled at any time in the last forty-five days, and that even with the enormous output which his plant has, his service department is swamped with telegrams and mail from distributing houses, begging him for supplies.

The practical application of radio is just beginning to be utilized. The farmer no longer has to wait for the next morning's paper to see how the produce market is going. After the "chore" is cleared up for the day, all he has to do is step to a corner of the house, put on a pair of head receivers turn a switch and get the latest selling and bid prices for live stock, grain and other commodities. No longer is it necessary for a public speaker to travel from town to town

in order to address a few thousand people during a period of several days. In one evening he can address hundreds of thousands, thus allowing him more time to prepare his work and consequently his audience benefit thereby.

During the past year, thousands of people in the United States have waited years before they had the opportunity.

During the last week of April, President Harding's voice was heard practically all over the United States by radio telephone.

For years the telephone and telegraph companies have been leading certain of their wires to the newspapers, banks, stock brokers and anyone who wished them. Now the installation of radio transmitting equipment is under way for the same purpose.

But think of the larger possibilities in the dissemination of information by radio.

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Everyone who wears glasses or suffers from eye strain will be interested in the remarkable offer of Dr. Ritholz, the famous ophthalmic specialist, Canadian Dept. 014, Madison & Larkin Sts., Chicago, Illinois, U. S. A., to send a pair of his handsome extra large size "True Vision" Tortoise Shell Spectacles Free on trial to any reader of this paper who writes him. These splendid glasses will enable anyone to read the smallest print, thread the finest needle, see far or near, and prevent eyestrain or headaches. These Spectacles are sold to be equal to any sold at retail at from \$12.00 to \$15.00 a pair, are very handsome in appearance and will last a lifetime. They are very becoming and your friends are sure to compliment you on your improved appearance. Don't send any money. Simply your name, address, and age, and state the length of time you have worn glasses (if any). He will send the glasses at once by Registered Parcel Post, for you to wear, examine and inspect for ten days in your own home absolutely free. If you are satisfied in every way and want to keep them, you are then to pay the small charge of \$4.00, otherwise return the glasses and you are out nothing. If you accept his offer at once, he will enclose the glasses in a beautiful velvet-lined, leatherette springback, pocket-book, gold-colored Spectacle Case, which is to be yours, free of all cost.

Port, Arthur, Ont., May 19.—The Port Arthur Shipbuilding Company is to be one of the biggest industrial mergers since the formation of the British Empire Steel Corporation, it is learned today.

The merger represents a total capital of over \$8,000,000 and takes in three of the largest steamship companies on the Great Lakes, including the two shipbuilding plants, an elevator and coal dock.

The companies included are the Playfair interests, the Great Transportation Company, Great Lakes Steamship Company, Midland Elevator, Midland Coal docks, Midland Shipbuilding and the Port Arthur Shipbuilding Company.

Negotiations have been under way for several weeks and the deal is expected to be consummated before the end of the present month.

Some women attract attention simply because they make no effort to attract it.

### Communist Party Has Monopoly On Legality

No New Political Parties Can Be Legalized for a Term of Years.

Moscow, April 24.—(By Mail).—No new political parties can be legalized in Russia for a number of years and the Communist party must press and keep its ranks closed except to those strictly sympathetic with the dictatorship of the proletariat, G. E. Zinovieff told the last session of the All-Russian Communist Party Congress.

Zinovieff is head of the Third International, president of the Petrograd Provincial Soviet, one of Premier Lenin's closest friends and the author of Lenin's biography. He is a fiery, revolutionary crusader and in the Soviet regime virtually has been dictator of Petrograd.

"Our party has the monopoly of legality," he said. "The danger of this monopoly is that a number of people are getting into the party who would go into the petty bourgeoisie parties if such existed."

"They are not coming into the party with bad intentions, and are honest enough, but bring in bourgeois views. They are an active part of the population who like to participate in the economic and political life of the country. We shall surely be the monopolists of the legality of any party in this country for a number of years to come."

Mr. Zinovieff said it would be difficult to clear out this element of the party but, as the labor class must "do it" the bourgeoisie, the party's difficulties, no matter how great, in restoring Russia, should not permit any unripe measures that would lead to the restoration of the Mensheviks, or other bourgeois.

More serious attention must also be paid to the press, Mr. Zinovieff declared as the bourgeoisie writers are trying to get an independent press and even journalists registered as employees of the newspapers now permitted to operate (all government controlled) are mostly of the old intelligentsia class.

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The Victory Garage & Supply Co., Ltd. 92-94 Duke Street, Telephone M. 4100 St. John, N. B.

### LOCKOUT OF COTTON WORKERS AVERTED

Striking Workers at Royton and Middleton Returned to Their Duties.

Manchester, England, May 19.—The threatened lockout of operatives in the cotton spinning trade, to the number of 140,000, has been averted, it was announced today. The dispute was over the workers at Royton and Middleton, in the Old Ham district, who were on strike against a new wage cut, the Master Cotton Spinners' Federation deciding to lock out the other workers unless the strikers returned. Today announcement was made that the strike had been settled, and that the men resume work Monday.

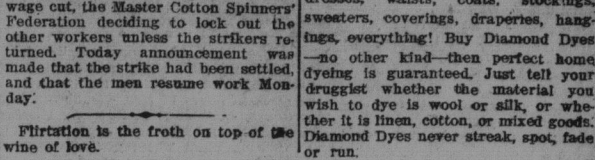
Flirtation is the froth on top of the wine of love.

### Dye Old Wrap, Skirt, Sweater, Curtains In Diamond Dyes

Each package of "Diamond Dyes" contains directions so simple any woman can dye or tint her old worn, faded things new. Even if she has never dyed before, she can put a rich, fadeless color into shabby skirts, dresses, waists, coats, stockings, sweaters, coverings, draperies, hangings, everything! Buy Diamond Dyes—no other kind—then perfect home dyeing is guaranteed. Just tell your druggist whether the material you wish to dye is wool or silk, or whether it is linen, cotton, or mixed goods. Diamond Dyes never streak, spot, fade or run.

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