



### Try Doing Next Week's Washing with Rinso

Find out for yourself why hundreds of thousands of women say that they could not face another wash day without it. The two easy steps below will save you hours of back breaking rubbing.

First: For each tub of clothes dissolve a half a package of Rinso into a little cool water until it is like thick cream, then stir in two quarts of boiling water. If the water is hard, or the clothes extra dirty, use more Rinso.

Then, pour into tub—of cool or lukewarm water. Mix well. Keep adding the solution until you get a rich, lasting, soapy suds, even after the clothes

have been put in. Do not pour the Rinso direct from the package into the tub.

Soak the clothes for one hour, two hours, overnight, or as long as convenient. Then rinse to remove the loosened dirt, until the water runs clear. Hang them out to dry.

There's no rubbing—no boiling. Rinso is not a washing powder, but a scientific combination of pure cleansing materials that loosen and dissolve the dirt from even the heaviest pieces. It soaks clothes clean in a few hours without injury to a single fabric.

#### IF YOU USE A WASHING MACHINE

Follow the regular directions given here. Soak the clothes. Then, before operating the machine, add fresh Rinso solution using the same amount of Rinso as you used for soaking. No other product is needed when Rinso is used.

At All Grocers

# Rinso

Made by the makers of LUX

#### MUSIC AS AN AID TO DEMOCRACY

##### What Governments Have Done for Europe Musically.

The rapid development of our country and the speed with which land workers arrived almost to a point of affluence, were the determining factors in preventing the growth of peasantry in this country. In contrast with this, we find that the lack of a universal system of education in most of the European countries was the great determining factor in the development of Continental peasantry. We read much about the marvelous folk music of Russia. If we reflect, we find that this was the result of lack of school education, and it was one of the ways through which the peasantry expressed its social, intellectual and political developments. The folk music of Germany, perhaps not so inspired as the music of Russia and not so beautiful in its content, was the result of education built largely around mythological text.

European diplomacy realized at a very early stage that national education would be a large contributing element in political unification, and because of this fact did a great deal to encourage music as a national institution. The government-supported opera houses in several Continental countries made the development of music possible, and thereby brought distinction and honor to native songs. This country has not felt the necessity for this, but the time will surely come when our own government will appreciate the fact that there is no greater force in nationalization than a well organized and controlled scheme for educating the populace to the belief that music is an important part of educational and political strength.

Our public school systems, with very few exceptions, are now stressing music with the hope that no one shall leave school ignorant at least of the influence which music has in character building for citizenship. Each year enormous sums of money have been appropriated by private individuals for the maintenance of opera houses, symphony orchestras, choral societies. Such money was needed because without it little progress could have been made. To such citizens who have given unselfishly to the great cause only the fullest praise should be accorded. Criticism is hardly in order, even by those who still hate to see the great subject of music patronized largely by the wealthy. Certain civic bodies have done a great deal in the direction of cultural music, but unfortunately there has never been a consistent effort to nationalize this principle. The activity has been largely local, and no government recognition has, up to the present, been given.

In spite of these conditions, the schools have been carrying on the great work of bringing music not only into the school but also into the home. The organization of bands and orchestras, glee clubs, etc., in our

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schools cannot be without fruitful result. The full effect, of course, may not be realized for several generations, but it is bound to come, because a love for music is being instilled into the hearts of the citizens of to-morrow. And for that reason the early formation of correct habits will inspire the men and women of coming generations to make possible the ideals of the present-day teachers.

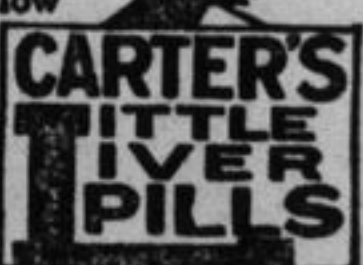
The development of mechanical musical instruments has played a very strong part in the cultural life of the people. Perhaps the well-organized music in motion picture houses in the larger cities will gradually make itself felt in smaller towns and communities, although not so fine a scale.

Every once in a while a group of enthusiastic people gather together for the purpose of giving more recognition to music by our native composers. Surely there is no more worthy movement. Yet there are so few of the new world composers who have schooled themselves sufficiently in the ancient routine to gain national repute. The day is coming when this will be the case, and time alone will be the determining factor as to whether the music by our composers shall take its place side by side with composers of the old world. However, if we are going we must not commence by adopting the ancient standards which we have followed for many years, but we must begin anew in an effort to reach all people of all classes and stations in life, train them along the ideals of appreciation and hope that at least a few of them will arrive at the point where it is possible to create something wonderful in art as well as to develop the power to perform. Such standards have not yet been determined. It will depend largely upon the character of music which is to be taught in our schools for years to come.

Why Not Use the Mails? A storyette that dates to the eighteenth century is as follows: Dr. Johnson once met the village postman trudging along the dusty road on a hot summer afternoon. The postman observed that he had still a mile to walk just to deliver one newspaper. "My goodness!" exclaimed the sympathetic doctor, "I'd never go all that distance for such a trifle. Why don't you send it by post?"

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### RADIO DEVELOPMENT

By LIEUT JOHN R. IRWIN  
U S AIR SERVICE (RESERVE)

#### REACTANCE.

A steady current in a circuit meets no other hindrance than the resistance of the circuit. If the current changes this is no longer true. If the circuit has inductance the current is opposed by the emf. induced by the variation of the current. If a condenser is present this is constantly charging or discharging as the current changes, and it exerts a counteracting influence on the passage of current. If both inductance and capacitance are included in the circuit they tend to offset each other in their effects, but usually one or the other exerts a predominating influence, with the result that there is added to the resistance an extra opposition to the current, which is known as reactance.

The more rapid the changes in the current the greater the induced emf. in a circuit and consequently the greater the inductive reactance. On the contrary, the reactance of a condenser is less the more rapidly the current varies, as can be understood when we reflect that the number of charges and discharges of the condenser performed each second the greater the total quantity of electricity which flows around the circuit in that interval, that is, the greater the current. In general the reactance of a radio circuit is very much greater than the resistance.

To calculate the current in a radio circuit, then, it is necessary to know how to calculate the reactance and how to combine it with the resistance in order to determine the total hindrance or "impedance" to the current. Since the reactance, however, depends upon the way in which the current is varying it is evident that this must be specified definitely in each case. The problem cannot be solved for all imaginable kinds of variations of the current. Radio currents, however, belong to the general class of alternating currents, and for these the theory is rather simple. In the following articles will be given a brief treatment of those alternating current principles which are essential to an understanding of radio.

(Continued in next issue.)

### APPARATUS AND DEVICES

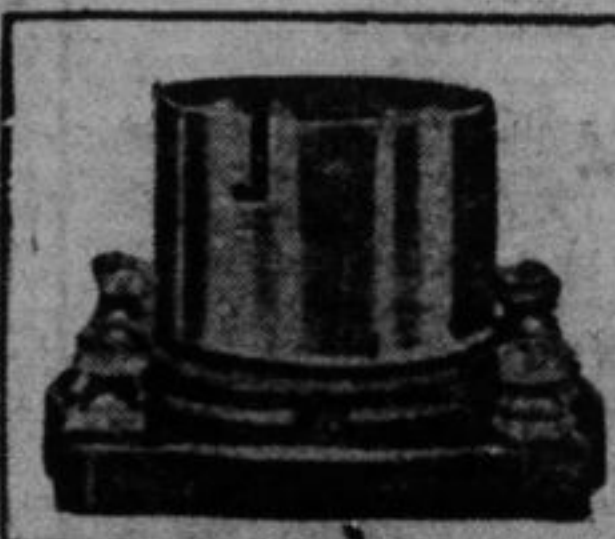
By RALPH BROWN, RADIO ENGINEER

#### V. T. SOCKETS.

The illustration shows a very compact V. T. Socket, suitable for any type of mounting, as the binding posts may be inserted. The base of the socket is genuine bakelite and supports four readily accessible binding posts. The tube receptacle is highly polished nickel and will take any standard make of detector or amplifier tube as well as smaller size power tube.

Although primarily designed for receiving circuits it may be used with transmitters up to 1,000 volts.

Positive connection is assured at all times by the use of four heavy phosphor bronze contact springs. This instrument is an added beauty to any station.



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

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has just been published. This book contains details of capitalization, earnings, etc., of the principal Canadian Industrial and Public Utility Corporations, together with the price range for the year. We shall be pleased to forward a copy on request.

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