

RADIO ANSWERS

By C. H. LANGFORD.

Mr. S. Charlton of Springfield, Ont., requests information re radio telegraph transmitter.

Answer: The use of spark coils is prohibited by the Dominion government, hence this mode of transmission is out of the question. Ordinary spark-coil transmitters are not only very inefficient but are very broad in their tuning. It is this type of interference that spoils many radio programs today. This interference is caused by commercial radio stations and vessels at sea. It may be of interest to you to know that much of the interference on the broadcast waveband today comes from French and other foreign vessels in the Atlantic ocean.

One of the best low-power transmitters and also the worst of broadcast tuners is the old single-circuit tuner. This circuit makes a real transmitter. If a key were placed in the ground lead, 25 miles can easily be covered. Before such work is carried on it is necessary that a transmitting license be secured. The examination for this calls for the applicant to be able to send and receive at a speed of ten words per minute and have a good understanding of radio work. 20-A tubes can be used if you have no other tube.

M. C. McKim of Tiverton, Ont., asks information on his Radiola 111 receiver.

Answer: Your trouble, I believe, is due to swinging aerial and the possible poor connections that may be there. Be sure that the lead-in is clear of any object that it might strike during any storm. Poor connections or possible shorts in phone or hydro wires also will cause the interference you speak of. As far as being unable to cut out other stations—that is an inherent feature of the circuit used. If the set is not equipped with a switching arrangement so that it can be changed to a 2 or 3 circuit set, it cannot be helped at all. Reconstructing the receiver along a modified 3 circuit line will improve it, as far as selectivity is concerned.

Mr. Crawford, Thedford, Ont., requests information re radio frequency amplification.

Answer: The diagram you present while OK to results, would be better very little with the addition of ordinary RF transformer amplification. The cause for this is that the ordinary transformer does not have a uniform high amplification curve. This results in some stations being received very well, and again on other wave lengths the reception falls off in general efficiency. The only type of amplifier that is more popular than really good is the Neutrodyne. This type of amplification if added to your present regenerative receiver may better distance than your present receiver. More than two stages of transformer, coupled also inductively, usually results in distorted music. For resistance coupled work use 1 meg resistance in the plate circuit and 100,000 resistance in the grid leak. Couple the tubes with a .005 mica fixed condenser. Use at least 110 volts B battery on this amplifier.

W. A. Campbell, Strathroy, Ont., asks how to better his receiver.

Answer: Not having your receiver at hand it is somewhat hard to give any definite statement as to how it may be improved. However, I would suggest that you place the series condenser in the ground lead and connect the aerial directly to the top of your coil. Be sure the coil is not covered with heavy varnish or other substances. The grid condenser should be of the very best quality. The Dubilier is recommended. .002 mica condenser should be placed across the primary of the first audio transformer. Just how good your receiver operates depends largely on the quality of parts used in its construction.

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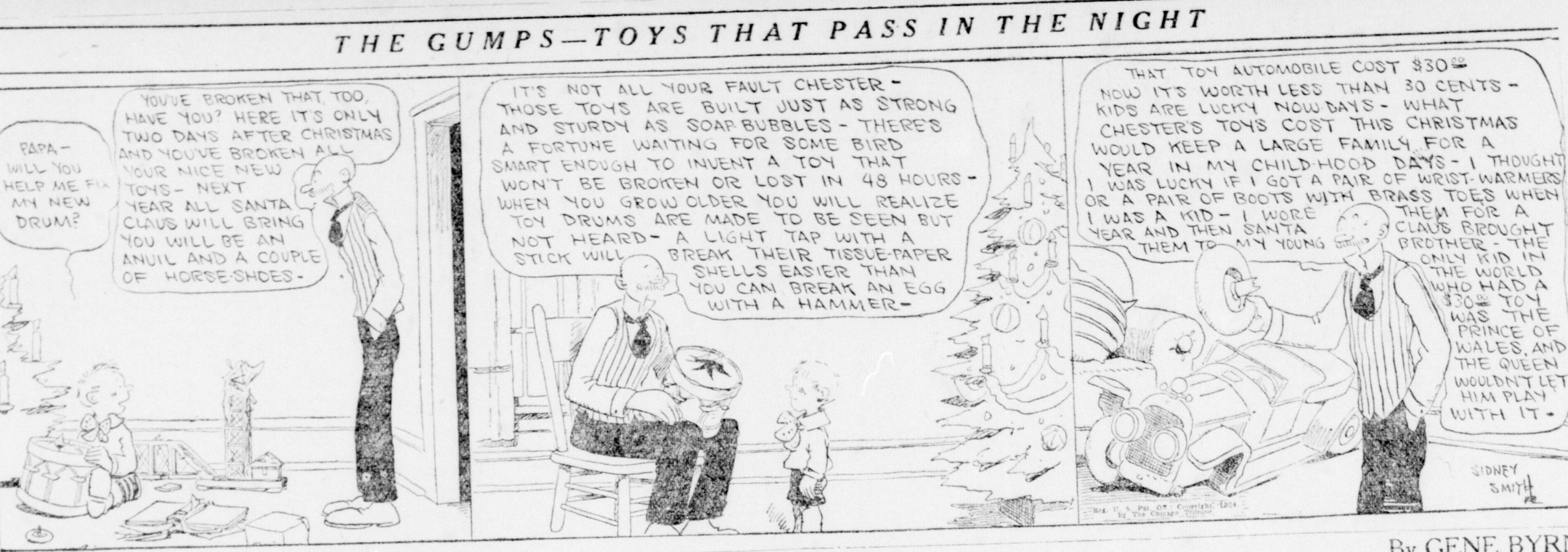
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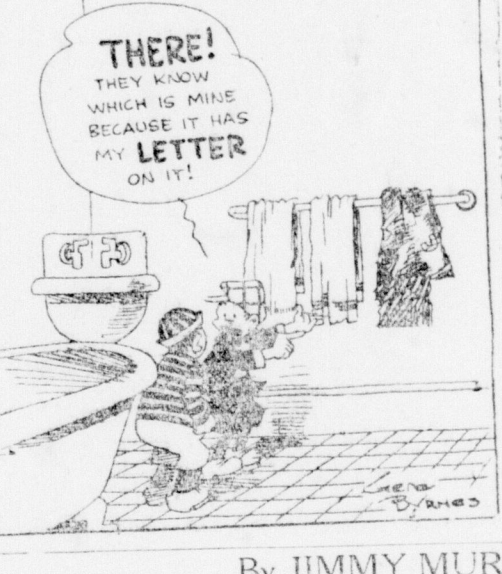
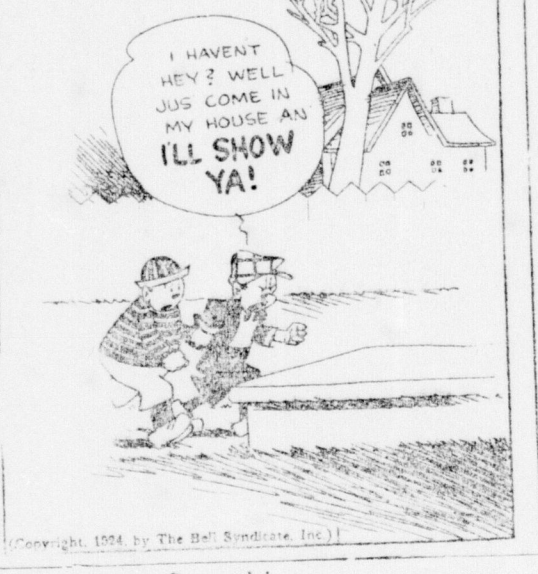
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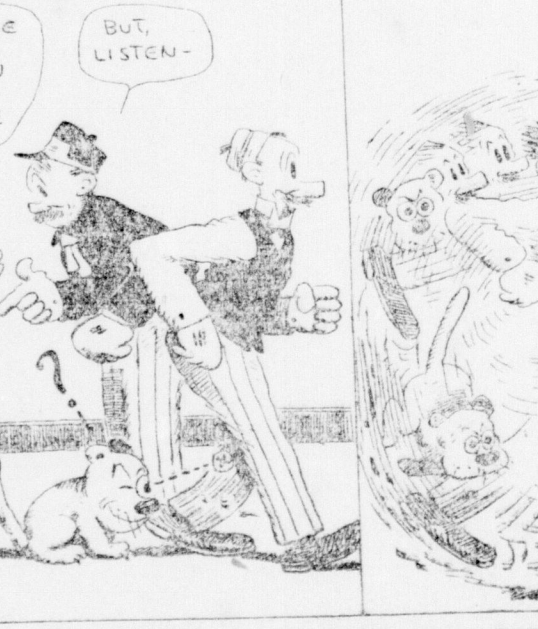
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Heart Trouble Yields to Chiropractic

Heart trouble may be of various kinds and affects people of all ages and in all walks of life. It is one of the most common diseases of the present day, and the one which is calculated to give the patient as his greatest concern. Acquaintances who are handicapped throughout life from the effects of a heart which fails to function properly?

What Is the Heart?

This vital organ, small as it is, is one of those which must function continuously and consistently in order for the body to enjoy the maximum of health. Of all the organs in the body, this one probably does the most actual physical work. It is composed of a mass of muscle fibres and is hollow in its center. It possesses several valves all placed so as to permit the blood to travel in only one direction. It is the great central pump of the circulatory system which, by its alternative contraction and relaxation forces the blood to the smallest parts of the body where oxygen and life-giving food are delivered to the tissues that proper function may obtain.

What Does the Heart Do?

Because the heart is purely a muscular structure, it is possessed of the power of contraction. When it contracts, it produces pressure on blood contained in its cavity and this blood is thus forced into the great vessels attached to the heart. The blood can only pass in one direction, due to the presence of the heart valves. The heart means that every time the heart contracts a small quantity of blood is forced into the blood vessels for distribution through the body. The heart contracts approximately seventy-two times per minute, it can readily be seen that the total quantity of blood forced through the heart and vessels during each hour forms a considerable total. There is also a returned system of vessels which carries the impure blood back to the heart, and even through the lungs, where it again receives oxygen. This same is again redistributed, and thus the process goes on as a continuous cycle.

Control of Heart Action.

Before the muscles of the arm contract to produce movement, we first think the thought and as a result the contraction takes place. This same process is also true of the heart, subconscious as it is. Though we are not aware of its existence, the mental process or thought absolutely must precede the contraction of any muscle. This thought takes place in the brain and as a result the tiny nerve fibres transmit energy from here to the heart and thus produce contraction. There must be no interference with these nerves leading from the brain to the heart else they cannot properly transmit the energy, and as a result the function in this vital organ will be abnormal. The spine is the only place along the course of the nerves where such an interference can exist. If the vertebrae are in abnormal position, they will produce pressure upon the nerve fibres. This pressure must be removed before the heart can again function normally.

Proper Condition of the Heart.

Upon the ability of the nerve fibres to transmit the proper mental force to the heart is also dependent its condition. Impulses of nutrition, heat, of expansion and many others are carried to the heart throughout these nerves. If the function of any of them is hindered by pressure, the condition and action of the heart must suffer as a consequence. It can readily be seen, then, that not only the action of the heart but its condition is dependent upon the ability of the nervous system to carry to it the proper supply of energy from the brain. Whether the abnormal condition be of one character or of another, it is all produced by the same cause. Enlargement of the heart, leakage of the heart irregularity in the heart action and in fact every abnormality by which the heart is subject has a common cause. It is accepted by scientific men and has been proven repeatedly that the vertebrae of the spine do assume abnormal positions, that they do produce pressure upon the nerve fibres supplying the organs of the body, and that by the release of this pressure the organs again become normal. This is not idle theory, it has been thoroughly and consistently demonstrated on hundreds of cases that have found other methods of no avail.

To Correct Abnormal Heart Action.

If it is true that disease of the heart is produced by pressure upon the nerve fibres supplying that organ, then it is equally true that the release of this pressure will restore normality. The Chiropractor is not concerned with administering poisonous drugs that can only offer temporary relief. He is only concerned with relieving the pressure upon the involved nerves and thereby restoring normal function. The Chiropractor is thoroughly trained in locating the points of pressure in the spine and in so adjusting the bony segments that this pressure is removed. He knows where these nerves make their exits, and through special training in this work he is capable of relieving that pressure which is responsible for the disease.

Is Your Heart Diseased?

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We have informative Chiropractic literature that will help you on application, without cost or obligation. Before employing the services of a Chiropractor, inquiry should be made for your convenience to The Chiropractic Educational Bureau, Address Box No. 1, London Advertiser, London, Ontario.

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