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BERRY CHECKS—Get your order in now for your berry checks. Picking time will soon be here. Best for the money at The American Union, Denton, Md.

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THE AMERICAN UNION wants a Correspondent in every section of Caroline County. If your section is not represented, let us hear from YOU The American Union, Denton. Md.

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MOVING OR MOVED?

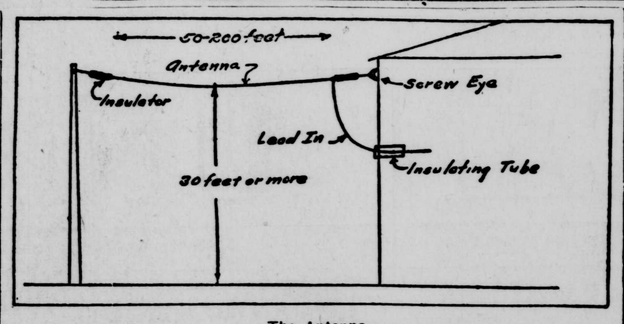
If any of our patrons have been unfortunate enough to have had to move this year will you kindly notify this office so that we may see to it that your paper is sent to the proper address. We thank you

Friendship improves happiness and abates misery by the doubling of our joy and the dividing of our grief.

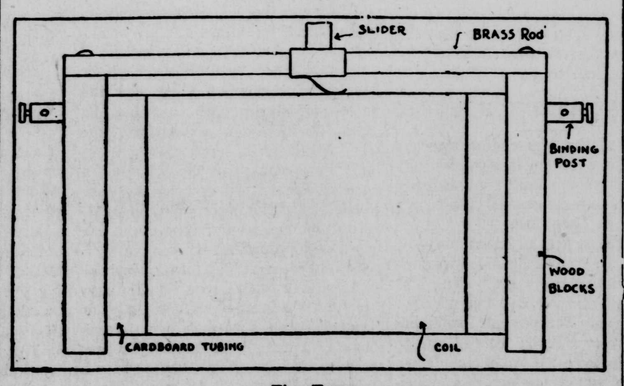
We are sure to get the better of fortune if we do but grapple with her.—Seneca.

A friendship that makes the least noise is very often the most useful; for which reason I would prefer a prudent friend to a zealous one.—Addison.

If you don't know all about your job, you can only conceal your lack of knowledge by keeping away from it.



The Antenna.



The Tuner.

RADIO

HOW AMATEUR CAN BUILD A RECEIVER

Instructions for Setting Up the Antenna and for Assembling the Tuner.

In order to pick up sufficient energy with the simple radio receiving set it is necessary to connect one terminal to an antenna consisting of one or more wires suspended in the air and insulated from all grounded material and the other terminal to a ground, usually the water supply pipe. The height of an antenna used with a small receiver should not be less than 30 feet. As the received energy varies directly as the height of an antenna, the higher the antenna the louder will be the signals or voice produced. The length of an antenna for short wave reception should not be less than 50 feet nor should it be longer than 200 feet. The minimum wave length to which a simple receiver can be adjusted for electrical resonance will be above that used by amateurs if the receiver be connected to an antenna 200 feet or more in length.

A simple radiophone receiver capable of picking up radiophone stations similar to KDKA at East Pittsburgh, can be assembled by a novice for from $4 to $15, depending upon the builder's ability to use his hands. If the builder will construct most of his apparatus he will appreciate it much more and probably will understand more about its operation than if he buys a set already made. However, for those who have not the ability or the time to spend constructing their own apparatus the following description will not only give the details as to the construction of each component part of a receiver but also what standard ready-made parts can be purchased and used in its stead.

The material can be purchased at any electrical supply store.

In erecting a simple antenna for use with the receiver shown in the diagram, the antenna proper and the lead-in are of stranded hard-drawn copper wire, strand No. 22, costing about 1 cent per foot. The two insulators are of molded material and can be purchased for about 25 cents each. The antenna shown is supported between a house and a pole. It may be found more convenient to support it between a tree and a house, two houses or even between two chimneys on the same house. In bringing down the lead-in care should be taken that it is kept as far away from grounded material as possible and when bringing through the wall or under the window into the house it should be brought through some sort of an insulating tube, such as rubber or bakelite.

In making the ground connection the same kind of wire can be used as was purchased for the antenna. You can clean a section of the waterpipe thoroughly and solder the ground wire to it.

MAKING THE TUNER

To make a tuner for this receiver, the following raw material will be required:

Piece of cardboard tubing three inches outside diameter and five inches long, costing about 10 cents.

100 feet No. 22 double cotton-covered magnet wire costing 25 cents.

Standard slider (see sketch) for ¼ by ¼ brass rod, 40 cents.

1 six-inch length of ¼ by ¼ brass rod (square) 20 cents.

2 binding posts (see sketch) 20 cents.

2 circular blocks of wood whose diameter is just equal to the inside diameter of the piece of cardboard tubing and between 3-8 and 1-2 inch thick.

Some shellac or varnish is also required.

Starting one-half inch from one end of the cardboard tube wind on the No. 22 D. C. C. wire within one-half inch of the other end of the tube. Fasten one end of the winding to the tube but allow some surplus wire on the other end for making a connection. After the winding is in place give it a coat of shellac or varnish to hold the turns in place. Assemble the circular-cut pieces of wood in the geometrical center of the square blocks and then shellac or varnish them for the appearance's sake.

When thoroughly dry slip the two end blocks into the wound tube and by means of a few finishing brads driven through the cardboard tube, fasten the end blocks to the wound tube. The slider is to be mounted on top of the coil and should be capable of making contact with any turn of the wire on the tube. In order to remove the insulation from the wire just under the rod where the slider moves back and forth, wrap a piece of sandpaper around a thin piece of wood and using another piece of wood as a guide, sandpaper the insulation from the winding. Drill a hole one-eighth inch in diameter through the slider rod about one-fourth inch in from each end so that the rod can be fastened by screws to the end blocks. After the slider rod is fastened in place see that the contact finger on the bottom of the slider can at all times make good contact with the winding. Mount a binding post on either end of the coil, attaching one by means of a wire to the slider rod and the other to the end of the wire wound on the tube and the tuner is complete. A tuner can be purchased already assembled for about $3.50 to $4.00.

LINKING MOVIE AND RADIO

British Scientists Have Some Success in Wireless Transmission of Motion Pictures.

British scientists are reported to have met with more or less success in developing a method of transferring motion pictures by radio. Some months ago a photograph was transferred by wireless from the Copenhagen newspaper, the Politiken, to England, and later from England to a ship in mid Atlantic, so that the possibility of linking the movies with the new art is not remote.

If perfected the new development of the already versatile art will make it possible for one to see on his own receiving instrument things that are happening at a great distance. For instance, a ship is sinking at sea. The transmitting station of the vessel, instead of sending a message of the disaster, sends a picture that anyone with a receiving set will be able to see just as the present broadcasting programs are heard.

That all sounds remote now, but the telephone was considered even more so, and the wireless, even after Marconi's immortal message had bridged the Atlantic, was generally believed to be akin to the idea of perpetual motion.

TIPS TO THE RADIOIST

A crystal detector cannot be satisfactorily amplified.

Insulate ends of aerial wires with several small insulators.

Wherever possible run aerial wires at right angles to electric light wires.

The lead wire should be the size of the combined number of wires in the aerial.

Gas piping makes a poor ground, but the cold water pipe ground is excellent.

A crystal detector is never as efficient as a vacuum tube detector no matter what instruments are connected to it.

Within three to five miles from a broadcasting station indoor one wire aerials about 40 feet long stretched from room to room, are generally satisfactory with crystal detectors.

IMPROVED UNIFORM INTERNATIONAL

Sunday School Lesson

(By REV. P. B. FITZWATER, D. D., Teacher of English Bible in the Moody Bible Institute of Chicago.)
Copyright, 1922, Western Newspaper Union.

LESSON FOR MAY 21

HILKIAH'S GREAT DISCOVERY

LESSON TEXT.—II Chron. 34:14-33.

GOLDEN TEXT.—Thy word is a lamp unto my feet, and a light unto my path. —Ps. 119:105.

REFERENCE MATERIAL.—Deut. 6:6-9; Josh. 1:8; Col. 3:16; II Tim. 2:15; 3:14-16.

PRIMARY TOPIC.—How the Lost Bible Was Found.

JUNIOR TOPIC.—Hilkiah Discovers the Lost Bible.

INTERMEDIATE AND SENIOR TOPIC.—How to Make the Bible Our Own.

YOUNG PEOPLE AND ADULT TOPIC.—The Authority and Influence of the Bible.

About a hundred years elapsed between the reformation under Hezekiah and that of Josiah. Some time during this time the book of God's law had been lost. Two wicked kings had reigned in this interval. The Lord had given Hezekiah much wealth. His son Manasseh, coming into possession of his father's property, and being ungodly, would naturally neglect the Bible, if not purposely try to put it from sight. Those who do not obey the law of God, are usually interested in putting it out of sight.

I. The Book of the Law Found (vv. 14-17).

1. The Occasion (v. 14). It was while repairing the temple during Josiah's reformation that the law was discovered.

2. The Book Delivered to the King (vv. 15-17). Upon making a report to the king of work done, the king was told of the finding of the book of the law by Hilkiah, and the book delivered to him.

II. The Effect of the Reading of the Law (vv. 18-28).

Shaphan the Scribe read the law before the king.

1. The King Rent His Clothes (v. 19). As the law was read before him he was led to realize more seriously the awful extent of the nation's departure from God. He knew that sin merited punishment. The function of the law is to reveal sin. The man who will honestly hear the demands of God's law will fall upon his knees before God and cry for mercy. The rending of the royal robes indicated that the king was penitently sorrowful.

2. The King Sent a Deputation to Make Inquiry of the Lord (vv. 20, 21). The king included himself in the guilt before God. "Go inquire for me and for them that are left, for great is the wrath of the Lord that is poured out upon us." His sense of sin was so keen that he sent them to inquire as to whether there was any means of averting the judgments of the Lord. Instinctively the human heart turns from God's threatening judgments to a means of escape. The soul that sorrows for sin inquires for a way of escape. The law prepares for the gospel. The law is our schoolmaster to bring us to Christ. The soul under condemnation inquires, "What must I do to be saved?"

3. The Message of Huldah, the Prophetess (vv. 22-28). (1) Confirmation of what the law said (vv. 22-25). She said that all the curses written in the law must fall, for the sins had been so flagrant that God's wrath could not be restrained. Destruction was hanging over Jerusalem and it was too late to avert it. It was not too late to repent to obtain mercy from God, but the outward consequence of sin must be realized. This finds fulfillment on every hand today. The murderer must hang. His soul may go directly to heaven, provided he has accepted Jesus Christ. (2) Acceptance of Josiah's repentance (vv. 26-28). Because of his tenderness of heart and deep penitence, the Lord said he should be gathered to his grave in peace, and should not see all the evil to be brought on Jerusalem and its people. What Huldah said was true even though Josiah died in battle (35: 23-25). When God accepts a man and forgives him, his death is a peaceful one even though it may be on the battlefield. God's presence is with him and he thus will go straight to the heavenly home.

III. The Law Obeyed (vv. 29-33).

1. The King Read the Law (vv. 29, 30). He gathered together the inhabitants of Jerusalem, including the priests, Levites and elders, and read unto them the law.

2. The King Made a Covenant Before the Lord to Keep His Commandments and Testimonies (vv. 31, 32). This was done sincerely—with all his heart and soul. He caused all that were present to stand to it.

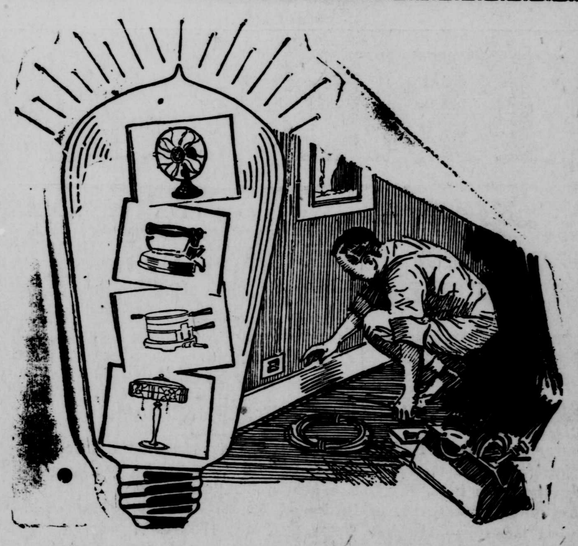
3. The king took away all the abominations out of all the countries that pertained to Israel (v. 33). All the days of the king they departed not from following after the Lord.

He Will Save You.

When you feel as if things were dragging you down into the depths will you remember that the Lord Jesus Christ is at your side? All human help may seem very far away; but He is not far away. Even through the noise of the storm He can hear the faintest cry, "Lord save me, I perish," and He will save you to the uttermost.

Adversity.

Adversity is the first path to truth.—Byron.



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