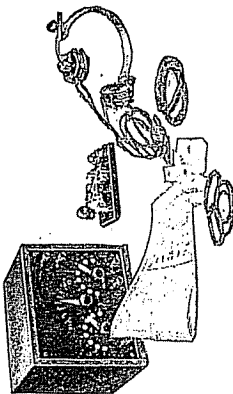


GILBERT BOY ENGINEERING

82

RADIO RECEIVING
OUTFIT

No. 4007

A complete receiving station for amateur work. It contains loose coupler, mineral detector, insulators, aerial wire, connecting wire, phones, and authoritative book on radio operating.

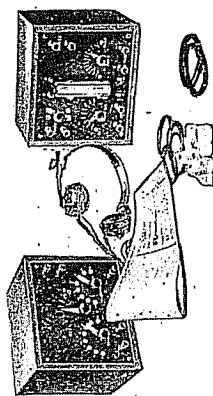
The Loose Coupler is the new enclosed panel type, designed with extreme care to eliminate all "dead end losses" in the secondary. It is an exceedingly efficient tuning system, with a range varying from 200 meter to 2500 meter stations. This range of wave length enables you to receive most of the stations operating in this country. It is put up in a polished golden-oak finish cabinet, size $6\frac{3}{4} \times 7\frac{3}{4} \times 5\frac{1}{2}$ inches.

The telephone receivers are the 2000-ohm type, with adjustable head band and six-foot cord. Insulators and sufficient aerial wire have been included so you can erect an antenna of the proper dimensions. An authoritative book on radio is also included which you will find valuable as a reference book. Not only does it give complete directions for the erection and operation of the No. 4007 outfit, but also lists the radio stations of the country, when they send, their wave length, how to receive them, etc.

Price, \$28.00 (in Canada, \$42.00).

RADIO RECEIVING
OUTFIT

No. 4008



This radio receiving station is exactly the same as our No. 4007 Outfit, except that the audion detector is used instead of the mineral detector. This change greatly increases the range of the station and makes it an extremely sensitive outfit. The audion detector and its amplifying device produces much louder signals than the crystal detector and is designed particularly for the critical operator who insists upon loud, clear signals.

In this outfit are the standard Gilbert Loose Coupler and the 2000-ohm phones. Both the loose coupler and audion are put up in the special golden-oak finish, polished cabinets, $6\frac{3}{4} \times 7\frac{3}{4} \times 5\frac{1}{2}$ inches.

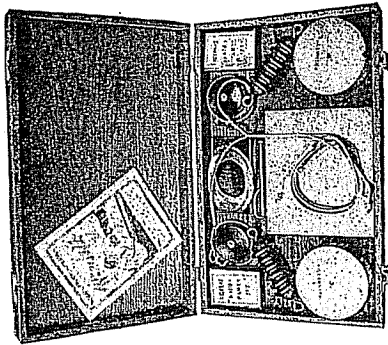
The book of instructions included with the outfit is an authoritative book on radio and is a valuable reference. It gives complete instructions for the operation of the outfit and also a list of the radio stations of the country, when they send, their wave lengths, how to receive them, etc.

This outfit has a receiving range under average conditions of 1000 miles. It provides a station of the most modern apparatus; highly sensitive and of most exacting radio design.

Price, \$48.00 (in Canada, \$72.00).

RADIO PARTS SET

No. 4009



This Radio Parts Set is an entirely new departure in the radio field. It consists of a complete set of parts and materials for building a receiving station, with a range of 300 miles. It is designed particularly for the amateur who wishes to construct his own stations—who wants to know his outfit from the bottom right through. The only way this is possible is to put every part together—do your own winding, and, in fact, do everything that enters into the make-up of your station.

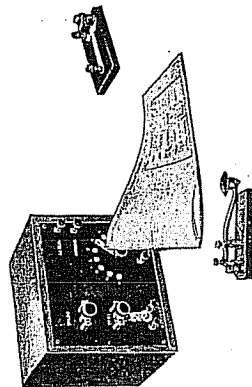
It comes knocked down in a compact, stained wood cabinet. You can build a loose coupler very similar to the standard Gilbert Loose Coupler furnished with all our high-priced Radio Outfits. All parts are in the set including coil forms, switch points, knob, switch levers, binding posts, machine screws, wire, insulators, etc. Also parts for a crystal detector with a moulded base as well as insulators and aerial wire.

This station will have a range of approximately 300 miles under average conditions. The outfit is packed complete in a compact hard-wood chest, size $10 \times 17 \times 2\frac{3}{4}$ inches.

Price, \$20.00 (in Canada, \$30.00).

TRANSMITTING OUTFIT

No. 4010



A Gilbert Transmitting Outfit that is entirely complete in itself. It does away with the trouble you have had buying separate parts. All the apparatus is complete, and has several new mechanical and electrical features that are great improvements over previous designs.

The present Government Radio regulations permit your using wave lengths of 200 meters. It has always been difficult for the average amateur to comply with these regulations, but all this has been overcome in the Gilbert Transmitter as the wave length of 200 meters has been fixed and is the maximum wave length which the set will permit. It is extremely simple to operate, as there are only three adjustments to make. The set is essentially the spark coil type and has a range of approximately 3 to 5 miles under average conditions.

The outfit includes transmitting cabinet, key aerial switch and complete book of instructions. Transmitting cabinet is $6\frac{3}{4} \times 7\frac{3}{4} \times 5\frac{1}{2}$ inches, finished in golden oak. The set throughout is the latest and most improved type of transmitting apparatus. A book of instructions is included, giving complete directions for the assembly and operation of the outfit.

Price, \$18.75 (in Canada, \$28.15).

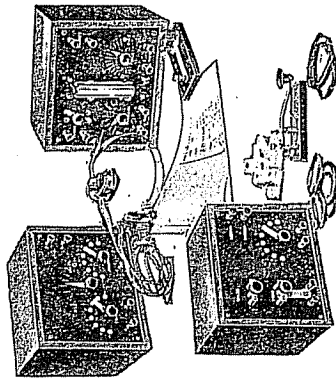
RECEIVING AND SENDING STATION

No. 4011

A complete radio station, with all equipment for transmitting as well as receiving messages. It is a combination of our No. 4007 Receiving Outfit and No. 4010 Sending Set, providing you with receiving equipment with a range of 300 miles, and transmitting apparatus enabling you to send messages from 3 to 5 miles. It complies with all Government regulations in every way and at the same time provides every essential part for a radio station of the most up-to-date type.

The new enclosed panel type Loose Coupler is included. This is the same Loose Coupler that is included in all Gilbert Receiving Outfits. The telephones are the 2,000-ohm type, with adjustable head band and 6 feet of cord. The switch and key are mounted on heavy moulded bases; binding post and lever knobs are fitted with brass bushings. The sending cabinet is the standard Gilbert Transmitting Cabinet, with fixed wave length of 200 meters. The necessary wire, insulators, etc., are also included.

With each outfit comes the complete reference book on Radio, giving detailed directions for assembling and operating. Price, \$46.00 (in Canada \$69.00).



RECEIVING AND SENDING STATION

No. 4012

A super-radio equipment that is all that its name implies. This outfit gives you a receiving range that enables you to receive signals almost any time during the day or night. It will receive most of the stations transmitting the press reports, weather reports, and time signals.

Made up of our No. 4008 Radio Receiving and No. 4010 Transmitting Set, it provides you with Loose Coupler, Audion Detector, Sending Cabinet, Wire and Reference Book on Radio; complete materials for a highly sensitive radio station. It is the most complete station we provide for amateurs and the one we strongly recommend.

The apparatus is exactly the same as put out in all Gilbert Radio Outfits: Sending Cabinet, Audion and Loose Coupler are all made standard size, $6\frac{3}{4} \times 7\frac{1}{4} \times 5\frac{1}{2}$ inches, in polished golden oak finished cabinets. The phones are the standard 2000-ohm type with head band and 6 feet of cord. The switch and key have the regular moulded bases. All fittings throughout are the latest type binding posts and lever knobs of moulded composition with brass bushings. The book on radio included gives complete directions for assembling and operating the set and also lists the government stations, when they send, how to receive them, etc.

The outfit has a receiving range of 1,000 miles and will transmit messages from 3 to 5 miles, complying with government regulations in every way. Price, \$66.00 (in Canada \$99.00).

GILBERT RADIO PRESS

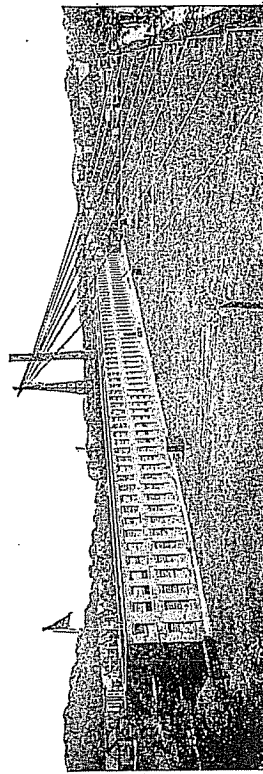
Transmits Daily to Amateurs

We have established a high-powered radio transmitter in our plant here in New Haven under special Government license, and will send daily press messages and matters of general interest to the amateur radio station owners of the country. The plant we have established is unique in itself, and to our knowledge the only one of its kind in the country, and an entirely different idea from anything ever attempted by other manufacturers of Radio Apparatus.

The transmitting plant is of the very latest design and is similar to the sets installed for the Navy Department. With the large umbrella antenna which is 125 feet high, an average range of over 1,000 miles is expected. The antenna has been arranged so that the station will direct most of its energy toward the West, and it is believed that it will include within its range most of the territory east of the Mississippi River and north of Tennessee and North Carolina.

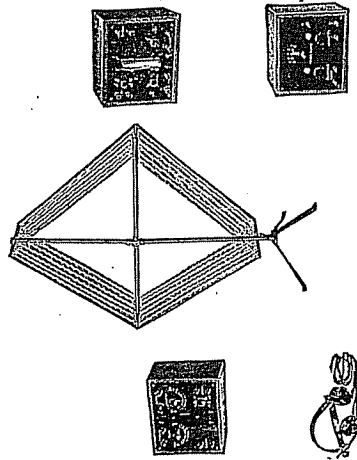
The operator in charge of the Gilbert Station will transmit the daily news twice every day, except Saturday and Sunday. The first bulletin starts at 4 P.M. Eastern Time, with five-minute periods, with ten-minute intervals between these periods. The second bulletin starts at 7 P.M. Eastern Time, and is sent in the same way. The news sent out will be a summary of the daily events and such matters as might be of interest to the amateurs of the country. Each of the periods will be used to transmit at different speeds. This will give the beginner, as well as the experienced operator, an opportunity to copy the press bulletins. It is probable that speeds of 8, 10 and 15 words per minute will be maintained. The variation of speed will be very beneficial to the beginner who is working up his operating ability.

If you are in the range of this station and have a wireless outfit, you surely want to listen in.



Loop Outfit

No. 4013



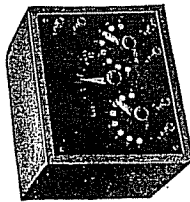
It is only necessary to set up the Loop Antenna, connect the Loop Tuner and Detector and you have a complete receiving station that you can use anywhere—on the ground—inside a house—from your machine, in fact, it has been found to operate from practically any place. This outfit makes it possible for you to have a receiving station with a range of approximately 300 miles when it is impossible for you to erect a standard antenna.

The outfit comes complete with the Gilbert Loop Tuner, Vacuum Tube Detector, Vacuum Tube Amplifier, Head Phones and Loop Antenna. Cabinets, $6\frac{1}{4} \times 7\frac{1}{4} \times 5\frac{1}{2}$ inches. It is an outfit we recommend highly for house use, where it is not convenient or you do not wish to go to the expense of erecting an aerial. It is designed to receive wave lengths from 200 meters up to 2500 meters and has a range of approximately 300 miles. Price, \$85.00. (Canada, \$127.50).

tenna put up in the standard polished quartered oak cabinets, $6\frac{1}{4} \times 7\frac{1}{4} \times 5\frac{1}{2}$ inches. It is an outfit we recommend highly for house use, where it is not convenient or you do not wish to go to the expense of erecting an aerial. It is designed to receive wave lengths from 200 meters up to 2500 meters and has a range of approximately 300 miles. Price, \$85.00. (Canada, \$127.50).

Loose Coupler

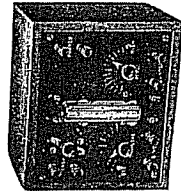
No. 4050



Not the old obsolete type of Loose Coupler that pulls out of the box, but a new enclosed panel type which is a distinct Gilbert invention. All the "Dead End" losses and undesirable effects from distributive capacity, which bring down the efficiency of the average Loose Coupler, have been eliminated by a special method of winding. Designed with the greatest care this Loose Coupler will receive all the average station wave lengths as well as the 600-meter length of the navy station and the 2500-meter length of Arlington. The case is hardwood with a golden oak finish, size $6\frac{1}{4} \times 7\frac{1}{4} \times 5\frac{1}{2}$ inches. Price, \$18.00. (Canada, \$27.00).

Audion

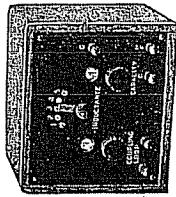
No. 4051



The Gilbert Audion has been designed so that the voltages and currents of the various batteries may be regulated to an extremely fine degree which increases considerably the sensitiveness of the detector. Accurate control of the high voltage battery is obtained by a potentiometer with a resistance of 8000 ohms. When used with the 45-volt battery, which is included in the Gilbert Audion, it will give any voltage from zero to 45, with extremely fine variations. The filament current for the Audion detector is controlled by a finely graduated rheostat. It is put up in the beautiful golden oak cabinet, size $6\frac{1}{4} \times 7\frac{1}{4} \times 5\frac{1}{2}$ inches. Price, \$25.00. (Canada, \$37.50).

LOOP TUNER

No. 4064

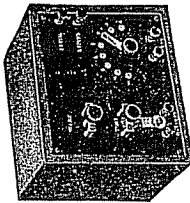


The Gilbert Loop Tuner is a special tuning device that has been designed particularly for use with the Gilbert Loop and Vacuum Tube Detector. The tuning of a Loop is extremely important, and all the fine details have received full consideration in the careful designing of this tuner. It is used to vary the wave length of the loop from 200 to 2500 meters and consists of a loading inductance, "feed-back circuit" and variable condenser for tuning. The signals received on it are exceedingly sharp and are greatly amplified by means of the "feed-back" device. While designed for use with the Loop and Vacuum Tube Detector, it may also be used with great efficiency with an antenna and audion detector.

It is put up in a standard polished quartered oak cabinet, $6\frac{1}{4} \times 7\frac{1}{4} \times 5\frac{1}{2}$ inches, and matches all of the other Gilbert Radio apparatus. Price, \$18.00. (Canada, \$27.00).

Sending Cabinet

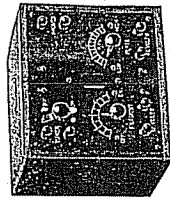
No. 4052



A new departure in the amateur radio field was made with the introduction of the Gilbert Sending Cabinet. It automatically does away with any difficulty you have had in complying with Government regulations. The 200-meter wave length which the Government permits amateur stations to use is no longer an uncertainty, as the Gilbert Sending Cabinet has a definitely established primary wave length of 200 meters. Means have been provided to send the waves out with antennae of varying lengths. This is controlled by an 8-point switch in the cabinet, and is one of the adjustments which the operator makes when he first gets the set. Cabinet is polished oak, size $6\frac{1}{4} \times 7\frac{1}{4} \times 5\frac{1}{2}$ inches and has the same beautiful golden oak finish that is used on all Gilbert Apparatus. Price \$15.00. (Canada \$22.50).

AMPLIFIER

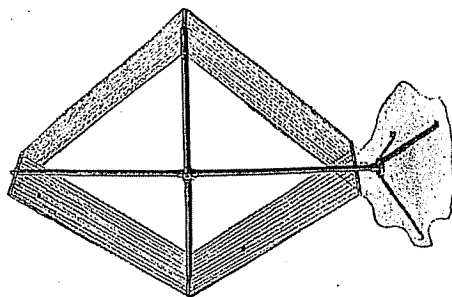
No. 4066



An Amplifier is almost indispensable when operating a Loop Outfit, but it is also a big addition to any type of outfit when the signals you are receiving are weak and hard to hear. The Gilbert Amplifier is the Audion Frequency type and will work with any radio outfit. It increases the signal strength from 5 to 25 times. The make-up of the Gilbert Amplifier is distinctly different from the conventional amplifiers. The Amplifying coil in this instrument has an impedance equal to the output impedance of the Vacuum Tube, resulting in an extremely efficient instrument. Used with the connections in the Gilbert Loop Outfit, this Amplifier has hardly an equal. It is put up in the standard polished hardwood cabinets, size $6\frac{1}{4} \times 7\frac{1}{4} \times 5\frac{1}{2}$ inches. Price, \$27.50. (Canada, \$41.25).

Loop Antenna

No. 4063



The Loop Antenna used with Gilbert Radio Apparatus has been designed to receive wave lengths from 200 meters up to 2500 meters, and when connected to the Gilbert Loop Tuner, Vacuum Tube Detector and Amplifier, it has a range of approximately 300 miles. It will operate on the ground—in a house—practically anywhere. One of its chief values is to provide a means of radio receiving where the erection of an antenna is impossible, as in a garage, farm or house. It might be called the inside antenna.

It comes knocked down with all the necessary wire for winding, and assembles easily and quickly. Price \$10.00. (Canada, \$15.00).

Rotary Spark Gap

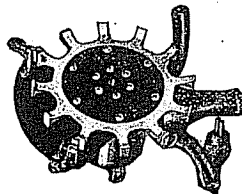
No. 4060

The Gilbert Rotary Spark Gap, with its 12 electrodes and a speed of 4000 R. P. M. gives a clear, musical note, and has proper quenching and great radiation qualities. It is extremely well built and operates on a quiet-running 110-volt universal motor.

The Rotor element is a cast zinc alloy wheel which is machined to balance and give freedom from vibration. The fixed electrodes are also made of zinc and can be closely adjusted to the moving points. The insulation throughout is sufficient to stand 10,000 to 15,000 volts.

The construction is extremely novel since the whole gap is fastened to the motor housing and shaft, thus doing away with an insulated base and the accompanying drawbacks.

Price \$12.00. (Canada, \$18.00).



Vacuum Tube

No. 4062

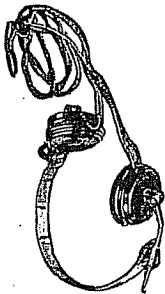
With the restricted wave-length and comparatively small antenna current that amateur stations are allowed, a vacuum tube with its amplifying properties is an essential. The Vacuum Tube used in all Gilbert outfits gives excellent results, and with proper care will have a very long life. It will operate efficiently over a wide range of voltages. Price, \$6.00. (Canada, \$9.00).



Phones

No. 4055

The Gilbert Phones are the 2,000-ohm type, with head-band, receivers and cord. These telephone receivers are specially constructed for radio work and are extremely sensitive. Part of the sensitiveness of this head phone set is due to the special magnet steel which we use in the permanent magnets and to the fine grade of soft iron which makes up the pole pieces. The diaphragms are carefully selected stock and are only .006 inches thick. The shell is aluminum and the earpieces of insulating composition. Price, \$5.00. (Canada, \$7.50).



Key

No. 4057

A snap key which can be used with wireless transmitters where a comparatively low power is handled. This key is not recommended to handle large amount of power. The base of the key is moulded composition, very attractive and extremely serviceable. Price, \$2.75. (Canada, \$4.15).



Aerial Switch

No. 4056

An aerial switch is used to transfer the aerial lead from the sending to receiving or vice versa. The Gilbert Aerial Switch accomplishes this in a very short throw which gives the operator the quick control which is desired in changing from transmitting to receiving. This switch will operate where the transmitting voltage is not over 20,000. Price, \$1.50. (Canada, \$2.25).



Buzzer

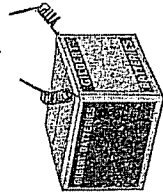
No. 4058

The adjustments of a crystal detector are greatly facilitated by the use of a small buzzer. This Gilbert buzzer is extremely efficient and will be found a big assistance. Mounted on black moulded composition base. Price, 50 cents. (Canada, 75 cents).



Batteries

No. 4059

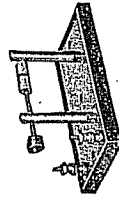


High voltage batteries which have been constructed for use with the Gilbert Audion. It is a long life battery and will considerably outlast the small flashlight type. Its voltage is .45 and the positive and negative terminal is clearly marked. These batteries are a regular part of the Gilbert Audion, No. 4051.

Price \$6.00. (Canada, \$9.00).

Fixed Spark Gap

No. 4061

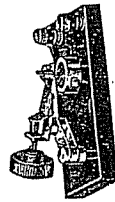


A fixed spark gap to be used with spark coil transmitters. The gap has been rigidly constructed, binding posts and gap of lacquered brass mounted on black moulded composition base.

Price \$2.00. (Canada, \$3.00).

Crystal Detector

No. 4054



A crystal detector of the adjustable type mounted on a moulded composition base. This detector is rugged in construction and is arranged so that the fine wire may be readily moved over the surface of the crystal. Once the adjustment is made this detector is rigid enough so that it will withstand ordinary shocks without losing its adjustment. Means is provided for the interchanging of different minerals.

Price, \$5.00. (Canada, \$7.50).

WIRELESS TELEGRAPH OUTFITS

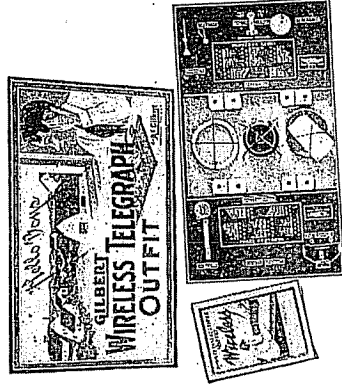
Most of you boys know how valuable the science of wireless telegraphy has become in the last few years. Nowadays it's nothing for a ship way out to sea to send a message to land or to another ship. What an improvement that is over the old days when it was only possible to send messages in the slow way of flag signalling, called wiggling. And then they could only be sent a very short distance. Only

as far as it was possible to see through a telescope. Wireless telegraphy has changed all this. For instance, if some man whom the police are after escapes on board a ship and gets half way across the ocean, they simply send a wireless message which is relayed from ship to ship until it gets to the right one, and the man is caught before the ship lands in a foreign port.

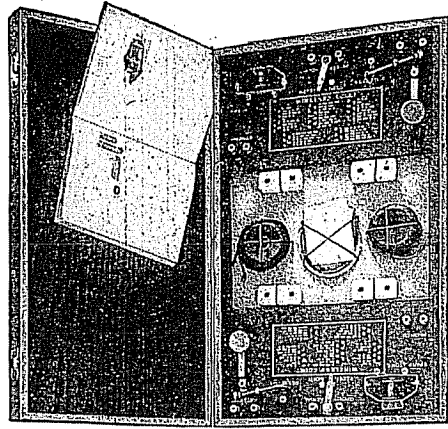
I knew many of my boy friends would like to know more about this wonderful science, so I made these Wireless Telegraph Sets. The Manual which is included will teach you the first steps in Wireless. How to rig up your outfit, all about the code, etc.

No. 4004 Outfit—Contains one receiving and one sending station, receiver, wire, cleats, and book of instructions. Packed in the Gilbert Toy sealed carton, 18 x 10 x 1 1/4 inches. Price, \$7.50 (Canada, \$11.25).

No. 4005 Outfit—Contains two complete receiving and sending stations, together with receiver for both stations, wire, cleats, and big book of instructions. Packed in stained hard-wood cabinet 19 x 11 x 3 inches. Price, \$15.00 (Canada, \$22.50).



No. 4004



No. 4005

The Original Tin Can Toy Making

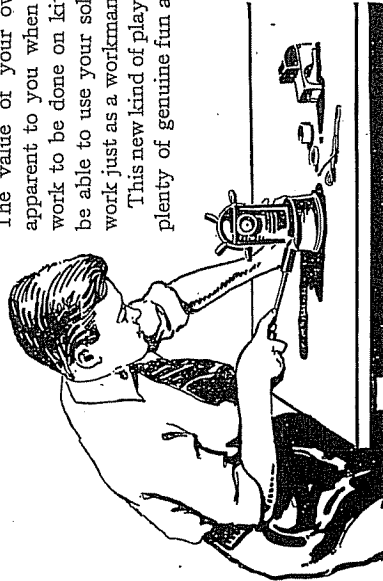
For long, people have regarded tin cans as worthless—without value of any kind. Empty tins have been looked upon as a nuisance and rather than have them gather about the house they were thrown away. The invention of Tin Can Toy Making has changed this idea and makes it possible for you and every boy to use tin cans with benefit to yourself and to others. Mr. Thatcher, the originator of Tin Can Toy Making, has taught boys, and during the war, wounded soldiers, the methods of putting tin together so as to make articles for the home and novelties and toys.

There are many styles of tin cans come into your home—such as cocoa, tobacco and olive oil cans. These are clean and in a shape that requires little fixing to make excellent models. It is very interesting to know how different cans, small and large, are used for a particular purpose. In the construction of a power wheel a flat salmon can is used for a base, a tobacco can for supports, the lids of small-sized cans for wheels, and the caps from soda bottles as paddles. In some things you make it will be necessary to cut tins. Now just as it is important to know what type can you should use for your model, it is equally important that you know how to use the shears, forming blocks, folder, etc., which are used in Tin Can Toy Making. This knowledge you will get clearly from the book of instructions. In the beginning it is best that you start on the small articles, like the ash tray or the biscuit cutter. When you have learned to use your tools carefully you will be in a position to attempt difficult work, such as building automobiles, forts, ships, aeroplanes, weather-vanes, etc.

You will find Tin Can Toy Making very amusing and an excellent pastime.

The value of your own workshop will be apparent to you when there is some repair work to be done on kitchenware. You will be able to use your soldering iron to do this work just as a workman would do.

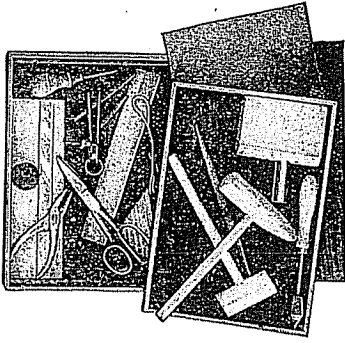
This new kind of play will provide you with plenty of genuine fun and will please you in every way. You will have the satisfaction of showing others that tin cans should not be considered as rubbish, but should be used for a good purpose.



Tin Can Toy

No. 7050

The idea of making toys and handy articles from tin cans seems queer because you have always looked upon them as worthless. You cannot realize what interesting models will result from a little work on cans. Automobiles, power boats, tug boats and numerous other toys can be made. You can make, too, handy articles for the house, such as ash trays, biscuit cutters, etc. The set contains a complete soldering outfit, mallet, soldering iron, shears, and forming blocks. You can use your equipment to make repairs of kitchenware also. You will have the same amount of fun using this set as the wounded soldiers had during the war, when they made many pleasing articles. They enjoyed Tin Can Toy making, and you will, too, when you have read the book of instructions that comes in every set. You will learn how simple it is to use your various tools for different purposes. Packed in stained hardwood cabinet with tray. Dimensions, $12\frac{3}{8} \times 8\frac{3}{4} \times 3\frac{1}{8}$ inches. Weight approximately 4 pounds. Price, \$7.50 (in Canada, \$11.25).

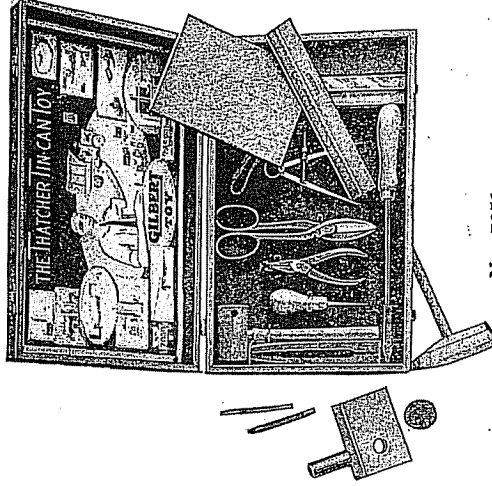


No. 7050

Tin Can Toy

No. 7051

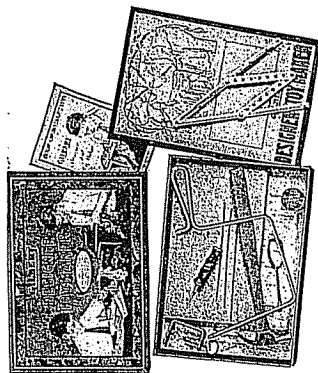
This outfit, with No. 7050, are the only toys of the kind on the market—the original Tin Can Toy making invented by Mr. Edward Thatcher. The boy who wants a complete outfit will be interested in this, as it contains full-size tools, such as a boy needs to make big models. A book containing many illustrations and detailed instructions for making toys was prepared by Mr. Thatcher, the inventor. Comes packed in stained hardwood cabinet fitted with iron hinges and suitcase catches. Dimensions, $10\frac{1}{4} \times 16\frac{7}{8} \times 2\frac{1}{8}$ inches. Weight, approximately 5 pounds. Price, \$12.00 (in Canada, \$18.00).



No. 7051

Gilbert Designer and Toy Maker

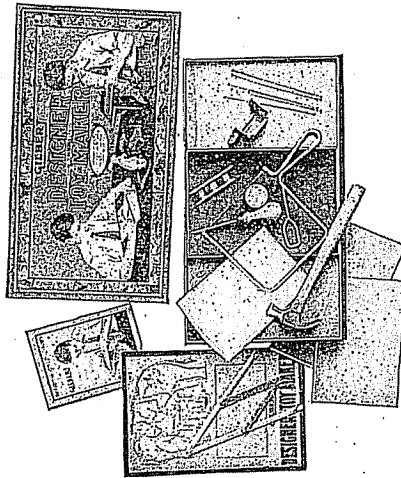
No. 8001



Think what an advantage boys who are interested in scroll saw work have to-day with a Gilbert Designer & Toy Maker outfit over the boys who had to do their scroll saw work without it. Read the manual and understand the possibilities of the outfit. Learn how to enlarge or reduce different designs with the apparatus included and be able to explain it without any hesitation. You will be interested in the animal puzzles printed on the top of the board. The idea of that is to trace with the stylus one of the animals. If you have followed the correct lines, you will find a small reproduction that your pencil has made. The animal puzzle is just something for you to start on. After you know how to use the set you can use any design you want—transfer it to wood and then saw it out with the scroll saw included in this set. You can build easily bird cages, small book racks and a number of useful articles. Packed in the Gilbert Toy sealed carton $12\frac{1}{4} \times 8\frac{3}{4} \times 1\frac{1}{4}$ inches. Price \$1.50. (Canada \$2.25).

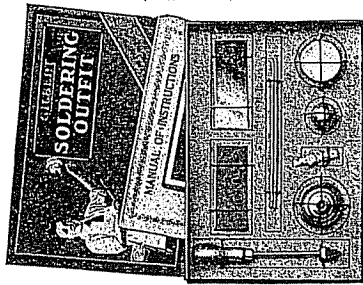
Gilbert Designer and Toy Maker

No. 8002



This larger Designer and Toy Maker outfit gives you complete material for making exact copies of designs found in magazines and books. You can either reduce or increase the size of the article you build from the original sketch as you prefer. There is included also a board on which you can try out your designs. After your pattern is made, you can use the colors that come in this set to paint it with very pretty effects. This toy making work you will enjoy because you can make articles for your own use or gifts for your friends. There is no other way that you can make your play more pleasant than this, and you have the satisfaction that comes to every boy while he does something to benefit himself and others. This set comes in a Gilbert Toy sealed carton, size $18 \times 10 \times 1\frac{1}{4}$ inches. Price \$2.50. (Canada \$3.75).

GILBERT SOLDERING OUTFITS



These new soldering outfits are really more than toys. They are mighty handy things to have around the house if any of your mother's pans or small kettles spring a leak. With one of these outfits on hand you can quickly and easily repair them. There's any number of useful household jobs you can take care of as well as perform many novel and interesting experiments. With each set comes a book of instructions telling all about soft soldering and hard soldering, heating methods, etc., as well as giving complete directions for soldering hinges, joining sheets of metal, soldering chain, soldering a crack in a pipe, enamelware, galvanized iron, etc.

No. 7001

You can do real soldering with these sets, not only for your mothers, but for other folks living near you. Any work you do for anybody outside your family you can charge for and in that way make quite a little extra spending money.

Soldering Outfit

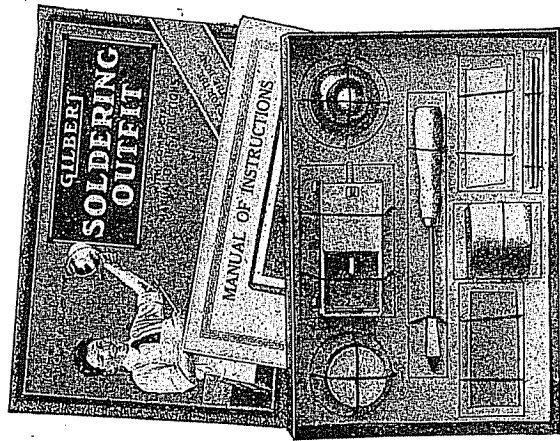
No. 7001

This outfit contains soldering iron, solder, lamp, flux, sheets of metal and complete book on soldering. Packed in the distinctive Gilbert Toy sealed carton. Size $12\frac{1}{4} \times 8\frac{3}{4} \times 1\frac{1}{4}$ inches. Weight approximately 1 lb. Price, \$1.50. (Canada \$2.25).

Soldering Outfit

No. 7002

This outfit contains a dandy little oven which can be used with gas or regular lamp, in addition to soldering iron, solder, lamp, flux, sheets of metal and big book on soldering. Packed in the Gilbert Toy sealed carton $12\frac{1}{2} \times 8\frac{1}{2} \times 2$ inches. Weight approximately 2 lbs. Price, \$3.00. (Canada, \$4.50).



No. 7002

Gilbert Toy Motors

You know that unless a motor works when you want it to, it is more trouble than it's worth. And I can tell you, boys, these Gilbert Toy Motors work. They are strong and powerful and will surprise you with the way they stand up. Of course, besides motors, I make lots of electrical toys to be used with them, such as control switches, reverse bases, transformers and electric shockers. But you can be sure you can depend on all of them to do the things you want to have them do. They are great to use with your Erector models. Your regular toy dealer sells them.

P 52 Motor. A dandy two-terminal motor for operating light-running models. Operates on either batteries or from transformer. Height, 3¼ inches. Price, \$1.50. (In Canada, \$2.25.)

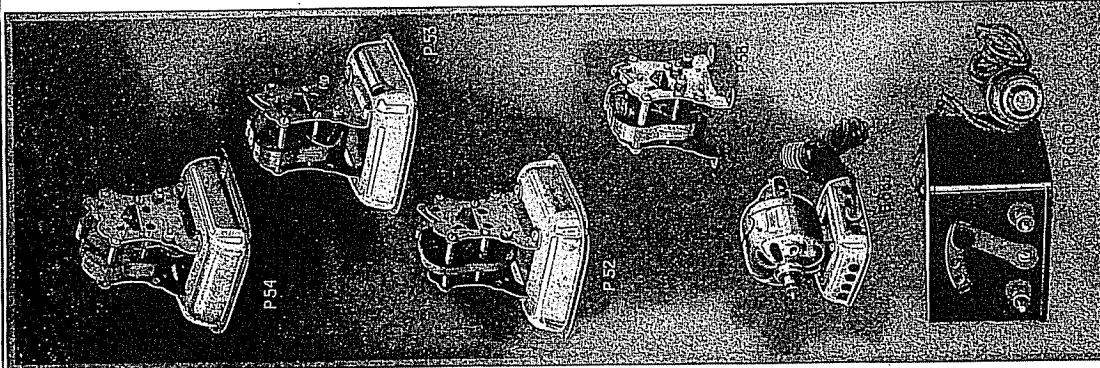
P 53 Motor. This motor has two terminals, pressed steel base, latest type tubular holders with copper gauze brushes. Works great. Height, 3¼ inches. Price, \$2.50. (In Canada, \$3.75.)

P 54 Motor. This is the same as P 53 Motor mounted on a reverse base, so that you can run it either backwards or forwards. Fine for running elevator models. Height, 3¼ inches. Price, \$3.00. (In Canada, \$4.50.)

P 58 Four-Terminal Motor. I made this motor specially for operating Erector and other Mechanical Toy models. Can be used with P 59 Reverse Base or P 61 Control Switch. You won't find a better motor for the price anywhere. Height, 2¼ inches. Price, \$2.25. (In Canada, \$3.40.)

B 685 Universal Motor. This is more than a toy. It's a real motor of 1-30 horse-power. The same motor I use to run all my big machine shops. Die cast frame. Cast base similar to base on P 56C. Has cord and plug ready to attach to lamp socket. Height, 5 inches. Price, \$8.50. (In Canada, \$12.75.)

P 60C Transformer. This transformer saves the use of batteries. Attach it to your electric light socket (alternating current only) and run your motor direct from it. Comes with 5-ft. cord and plug. Size, 3¼ x 3¼ x 2½ inches. Price, \$7.50. (In Canada, \$10.75.)



Gilbert Toy Motors

P 73B Motor. Cast iron motor shell and base. Looks very much like big commercial motors. Can be used on batteries or from house current through a transformer. Height, 4¼ inches. Price, \$5.00. (In Canada, \$7.50.)

P 56C Motor. This is one of the strongest universal toy motors made. Attaches direct to electric light socket, operating on alternating or direct current 110 volts. Made of cast iron with bearings an integral part of die casting. Height, 3¾ inches. Price, \$6.00. (In Canada, \$9.00.)

P 82 Battery Wound Motor. This motor is meant especially to be used with batteries. Has die cast frame and cast iron base. Height, 3¾ inches. Price, \$5.00. (In Canada, \$7.50.)

275 Electrical Shocker. Here's an electrical toy you can have loads of fun with. Get your friends to hold the handles and give them a real electric shock. Size, 4 x 2¾ inches. Price, \$2.50. (In Canada, \$3.75.)

P 61C Control Switch. With this control switch you can regulate the speed of your motor. It is controlled by lever, just like all big rheostats. Porcelain base. Size, 4 x 4 inches. Price, \$1.00. (In Canada, \$1.50.)

P 59 Reverse Base. This is used to operate four terminal toy motors either backward or forward. Can be directly attached to motor P 58 or at a distance with longer wire. Size, 4 x 4 inches. Price, \$1.00. (In Canada, \$1.50.)

