

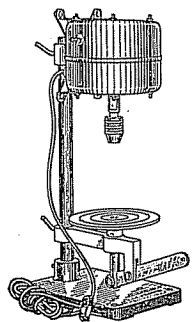
GET THE THRILL OF MAKING THINGS YOURSELF WITH GILBERT "BIG BOY" MACHINE TOOLS



ELECTRICALLY OPERATED DRILL PRESS

No. A 808
\$8.95

Adaptable for wood or metal work. Powered by 110 volt Induction motor, operates A.C. 60 cycles only. Toggle switch control. Motor mounted on rigid steel tube, adjustable to varying heights. Cast iron table, 5" diameter. Thrust taken up by ball thrust bearing. Lever action control of table. Complete with chuck which takes up to 1/4" drill. Standard cord and plug cap.

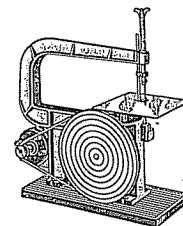


No. 804 Belt Driven DRILL PRESS

Same as above except with 3-step pulley drive mounted on adjustable arm in place of electric motor. Price \$3.95.

Every boy wants a Jig Saw

No. 10 \$12.50

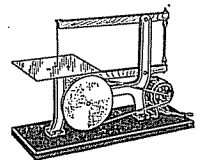


Big, sturdy, Powerful and Speedy. Cuts with absolute precision. C frame with reinforced cross sections, 6 1/2" square steel work table, spring tension on saw, instantly adjusted, adjustable presser foot for holding work in position. Roll guide protects saws against breakage. Cast iron drive wheel, one side scored for

attaching sandpaper discs for smoothing work. 110 volt Universal Motor, A.C. or D.C. with simple oscillating motion having minimum vibration. Motor encased in heavy shell, rigidly mounted to C frame. Finish blue and black.

No. 5—\$6.25

Fast cutting with vibration reduced to minimum. Uses a 6" loop end saw, actuated by hardwood rocker arms. Simple crank type oscillating motion, belt drive. 6 1/2" square steel work table and adjustable saw tension. Rugged cast-iron frame. Iron drive wheel has sandpaper disc for smoothing work. Driven by 110 volt Universal Motor, operates A.C. or D.C. Toggle switch control. Complete with cord and plug cap. Saw blade travels approximately 1000 cutting strokes per minute. Finish blue and black.



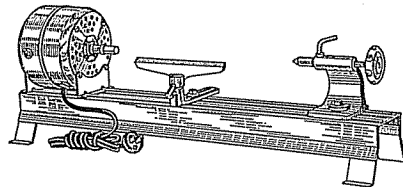
BOYS: Wouldn't you like to have a real he-man type power equipment in your work shop? A sturdy motor driven lathe—a drill press—or motor operated jig saw. Not just lightly constructed toy type equipment with little power but sturdy, dependable, serviceable units, operated by powerful induction motor. Rugged machines, built for precision work and professional like results. Just think of the fascination of it all—hours and hours of fun making real things in a real craftsman like manner. Imagine turning parts for light furniture pieces—something for your den or the home like chairs, tables, bookcases, foot stools and novelties of all sorts and designs.

How handy a motor driven drill press will be and what a variety of articles you can make with a real jig saw. See the Gilbert Machine Tool line at your favorite toy store. Take Dad along and show him just what you want to make your workshop complete.

POWERFUL MOTOR DRIVEN LATHE

A beauty in looks and a beauty in performance

No. A 810
\$8.95



Practical lathe for home or commercial use. Driven by powerful Gilbert Induction Motor operating on 110 volts, A.C., only. Toggle switch control. Turns 1750 R.P.M. Motor spindle threaded to accommodate face plate and standard chuck. Spindle fitted with ball thrust bearing 24" heavy gauge steel bed with embossed ways to insure accuracy. 5" swing. Complete with tool rest, tail stock, wrench, cord and plug cap. Sliding Tail stock, Face plate and Chuck purchased separately. Finished in nickel and blue.

No. 800 BELT DRIVEN LATHE

Same as above except drive is through 3-step V pulley, mounted on headstock, in place of electric motor. Price \$3.95.

GLASS BLOWING

New Gilbert Scientific Outfit for the Boy Experimenter with Interesting Tricks and Stunts

I wonder how many of you boys realize what fascinating fun there is in experimenting with glass and what you can actually do with this substance. Of course we see glass everywhere, we know it is used in hundreds of different ways and we realize its great importance, yet to do things with it ourselves is something we probably haven't given much thought to, but once we test our ability in the various forms of experimental glass blowing we soon find out there is plenty of sport we've been missing.

Just imagine building a submarine, syphons, levels, air guns and doing all sorts of magical experiments. You can do all these and more too with a Gilbert Glass Blowing Outfit and you'll find it great sport all the way.

There's Thrilling Adventures and Discoveries in Gilbert Micro-Chemistry Sets

Genuine thrills and sensational discoveries that will delight the heart of any boy are yours with the equipment in these wonder combination Micro-Chemistry outfits. Things that you have never seen before—sights that you never believed existed are brought to your clear vision through the searching eye of the microscope. Thrilling discoveries of action—color and life of nature's wondrous secrets are revealed, and touring the sub-world with an inexpensive eye-piece is the most exciting pleasure that one can contemplate. Your journey of exploration into the world within the world is a most fascinating adventure. But this is not all, boys. A large assortment of chemicals and necessary equipment is also included that permits dozens and dozens of amazing Chemistry experiments. For example, the fantastic designs formed by crystallizing chemicals, when watched through the Microscope, is one of the many highly interesting observations. Hundreds of other scientific experiments and mystifying illusions are also revealed. Two interesting instruction books packed in each outfit together with complete apparatus and fine assortment of accessories. Be sure and see these sets at your favorite toy store.

Make Your Friends Gasp With Wonder With the Mysterious GILBERT ELECTRIC EYE

Boys! here's one of the most fascinating and amazing inventions the world has ever known. The Electric Eye! No doubt you've heard about its wonders. How it opens doors, stops elevators, counts and sorts everything from beans to automobiles. Now Mr. Gilbert—the famous inventor of Erector—has made it possible for you to have an Electric Eye of your own. With this marvelous new device you can do things more mysterious than any magician ever dreamed of. Think of doing these uncanny stunts.

Turning Off a Reading Lamp by Waving Your Hand

Imagine Dad's surprise some night when you suddenly cut off his electric light by just waving your hand in front of the Electric Eye. He won't know what's happened.

Light an Electric Light by Striking a Match

It sounds unbelievable, doesn't it. Yet all you have to do is strike a match, hold it in front of the Gilbert Electric Eye and the eye turns on the electric light.

There are other startling things you can do too, such as controlling your electric train by a wave of your hand, silencing a radio with a flashlight and making the sunrise ring an alarm. See the Gilbert Electric Eye at your toy store.

Sound Reproduction on Newsprint

A method of printing sound records on ordinary paper or newsprint was demonstrated in London recently. The records are made by wrapping a photographic film, measuring about 17 inches by 20 inches, round a rotating cylinder. As the cylinder rotates, a narrow strip of the film is exposed to the light from a photo-electric cell, the illumination being controlled by the sounds transmitted to a microphone connected in the circuit through an amplifier. This beam of light is arranged to move along the axis of the cylinder, so that a series of lines of records of the sound variations are obtained on the film. The negative thus obtained is used to make a printer's block, and this block in turn is employed to obtain reproductions on separate sheets of paper, or on one or more pages of a newspaper.

To reproduce the sounds the paper record is wrapped round a similar cylinder in the receiving apparatus and is exposed to a narrow and highly-concentrated light beam from any convenient source. This light in turn is reflected from the record on to a photo-electric cell or cathode-ray oscillograph, the intensity of the reflection being controlled by the lines on the record that are exposed to the light as the beam traverses and the cylinder revolves. The variations in current thus obtained are then amplified and used to operate an ordinary loud speaker. It is claimed that there is no difficulty in obtaining good reproduction from an ordinary sheet of newsprint, provided that the surface of the cylinder is highly polished. Creases do not seriously affect the quality of the reproduction, and the records can also be printed on any paper, though their life is, of course, determined by the quality of the latter.

A "Radium Hen"

In spite of extreme care hospitals occasionally lose or mislay radium "seeds," the tiny gold needle-like radium containers that are inserted in the body in the treatment of cancer. In future when a seed is lost all a hospital needs to do is bring in the "Radium Hen," a new instrument that has been devised in the National Physical Laboratory, and which gets its name from the clucking sound it emits when placed near radium. The nearer it approaches the valuable element the more rapidly and excitedly it clucks. The apparatus consists of a neon glow-lamp enclosed in a light-tight chamber and supplied with a voltage just lower than that at which the discharge of the lamp normally commences. In the presence of radium radiations the discharge voltage of a neon lamp is rather lower than normal, so that the lamp glows more readily when near radium. The voltage to operate the lamp is supplied by a condenser charged through a suitable resistance by means of a dry battery, with the result that each time the lamp glows the exciting voltage falls and the glow is then extinguished. A pair of headphones in series with the lamp thus records each discharge as a quiet click. In use the glow lamp is mounted on a long handle suitable for exploring in any holes and corners where the needles are likely to be, and the presence of the radium is revealed by a rapid increase in the rate of clicking. Most of the needles or "seeds" get lost down sink pipes, and the apparatus is particularly useful in detecting the exact points in the pipes where the needles are lodged.

Novel Use for Aero Engines

A novel method of preventing frost from damaging their orange groves has been adopted by a group of fruit growers in California. It is known that frost needs cold air in order to settle, and the aim of the fruit growers therefore is to keep the air in motion. The equipment used for the purpose consists of a 450-h.p. aeroplane engine fitted with an 8-foot propeller, mounted on a tower 40 feet in height, the platform of which revolves when the engine is running. The propeller blade creates a wind that circulates the cold air before it can settle close to the ground, and it has been found that one engine can keep an area of from 40 to 50 acres quite clear of frost.

Mystify
your friends!
Be a boy
Magician
with—
**GILBERT
MYSTO
MAGIC**

Every boy would like to be a real magician. You can—after one hour with your Gilbert Mysto Magic Set. Each outfit contains the secrets and apparatus of the World's great magicians. Their secrets laid bare to you. Their tricks and devices are yours to perform with.

So, why not be a magician right away. Make money giving shows and exhibitions of sorcery. Perform before your wondering friends many of the greatest feats of magic with which the conjurers of America, Europe and the Orient have mystified the world.

Perform mind reading illusions. Produce balls, coins, cards and bottles out of thin air, then make them disappear. Make your audience gasp in amazement.

A few minutes of practice makes you an accomplished magician.

Each trick explained in detail in Instruction Book packed in each outfit.

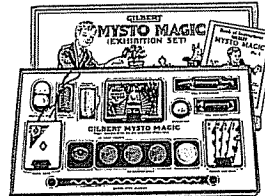
No duplicate tricks in Nos. 3, 4 and 5. With this group of outfits, boys, you have a complete assortment of mystifying tricks performed by the world's greatest magicians.

PRICES

No. 1 Magic . . .	\$1.00
No. 3 Magic . . .	2.50
No. 4 Magic . . .	2.95
No. 5 Magic . . .	4.95
No. 1031 Puzzle25
No. 1031½ Puzzle50
No. 1032 Puzzle . . .	1.00
No. 15 Xmas Tree Turntable (Music)	15.50

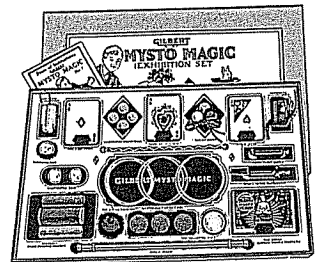
GILBERT MYSTO MAGIC SETS

The greatest assortment of magic tricks on the market. Outfits contain secrets and apparatus of the world's greatest magicians. All tricks explained in detail in instruction book packed in each outfit.



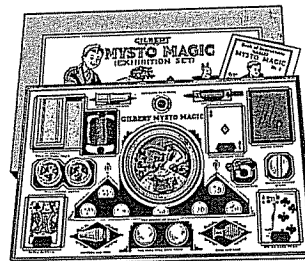
At left— No. 1
**GILBERT
MYSTO MAGIC**

Twelve clever tricks for the pocket or stage. Simple and easy to perform, including the Mysterious Multiplying Coin, Buddha Money Mystery, Mysterious Topsy-Turvy Match, Galloping Dime, Hiding Chessman and others. Complete manual of instructions.



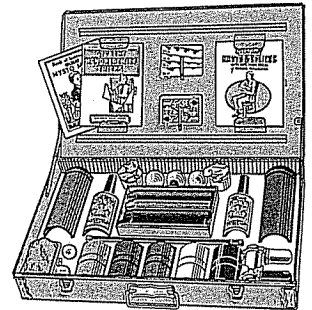
Above at right— No. 3 **GILBERT MYSTO MAGIC**

Contains 18 startling and mystifying magic tricks: Multiplying Billiard Balls, Mysterious Linking Rings, Hiding Chessman, Galloping Dime, Svengali Mind-reading Wonder and many others. Can be performed anywhere from drawing room to stage. Simple, effective, mysterious, up-to-date.

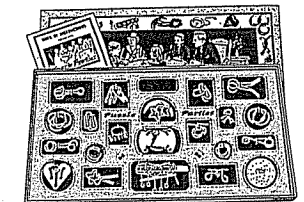


Below— No. 4
GILBERT MYSTO MAGIC

All different tricks—not contained in any other set—such as the Dream of Midas, Great Ball of Wool Trick, Oketo Coin Trick, Passe Passe Coin Trick, and many others of the world's most renowned magic tricks.



GILBERT PUZZLE SETS



Above—
No. 1032 **GILBERT PUZZLE SET**
21 fascinating puzzles. Instruction book giving details as to solution. Packed in four color labeled carton.

Listed only— No. 1031½ **PUZZLE SET**
13 puzzles assembled in four color labeled carton. Complete manual of instructions.

Listed only— No. 1031 **PUZZLE SET**
Seven interesting puzzles assembled in four colored label box with manual of instructions included.

**No. 15 ELECTRIC MOTOR DRIVEN
MUSICAL XMAS TREE TURNTABLE**



Completely assembled supporting stand. Circular wood base, mahogany finish, four rubber feet, metal housing enclosing all mechanism. Sturdy 110-volt motor with ample power to revolve 6 to 8 foot tree fully trimmed, attached to base with upright revolving spindle. Will revolve evenly balanced load up to 100 lbs. when bulk weight is centralized directly over spindle. Removable tree socket with three thumb screws to securely fasten butt of tree. Waterproof tree socket fits snugly on to spindle. Music box assembled to base, plays two tunes. Double socket bakelite plug outlet takes 2 strings of 8 regular Xmas tree bulbs providing for 16 lights. Two special switches, one for lights, other for motor control. Complete assembly one of sturdiness and stability, base being 16" in diameter and height overall 10". Richly finished in wrinkle green and brown. Ideal for the home. Lasts for years, also especially adaptable for window or counter display. Induction motor operating on 110 volts, 60 cycles, A.C. only.

GILBERT OPTO KITS



Imagine the thrills boys will get building

MAGNIFYING GLASSES
(Low, Medium and High Power)

DISSECTING TABLE

COMPOUND MICROSCOPES
(with Mirror)—Low, medium, high and super power—with and without electric illumination)

KALEIDOSCOPE

TELESCOPES
(High and Low Power)

PERISCOPES
(Hand Type—Stand Type with Revolving Mirror)

ELECTRIC BEAM SIGNALER
(Hello Type—for Code)

LIGHT-HOUSE TOWER
(Electrically Illuminated)

ELECTRIC SIGNALER
(Binary Type)

CAMERA MODELS
(Copying—Pin Hole—Regular Lens)

MAGIC LANTERN MODEL

SHADOW PROJECTORS
(Ceiling Type and with Glass Stop)

MICROSCOPE (Projection Type)
(Low, Medium and High Power)

COMPOUND MICROSCOPE
(Super Power—with Stage and Electrically Illuminated for color screens)

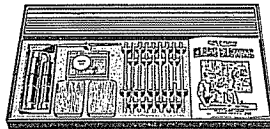
FLASHLIGHT

MAGNIFYING GLASS
(Low Power—with Camera Box and Lamp)

LIGHT EXPERIMENTS

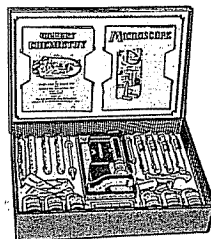
Below—No. 2 GLASS BLOWING SET

31 pieces of glass tubes, equipment and apparatus including a constant self-generating alcohol blow torch and 64-page manual showing how to do 80 experiments in glass blowing including how to build a submarine, syphons, levels, air gun, magical experiments, etc.



Below—No. 2 MINERALOGY

45 pieces of minerals, equipment and apparatus including blow pipe, assortment of minerals with manual of instructions showing how to analyze, test and identify various minerals



GILBERT MICRO CHEMISTRY SETS

Thrilling discoveries and amazing wonders for the boy explorer in these completely equipped combination Microscope and Chemistry outfits.

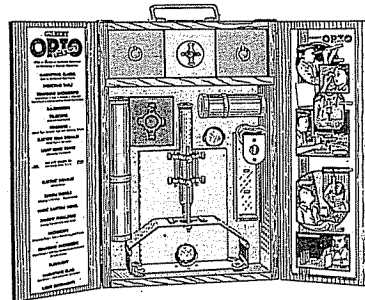
No. 4
GILBERT
MICRO-
CHEMISTRY

Chemicals and equipment for many Chemistry experiments in combination with Microscope and necessary apparatus. Over 100 Chemistry experiments all explained in manual. 20 different pieces of apparatus. Microscope has high resolving power. Magnifies 175 times. Adjustable mirror, dissecting needle, tweezers, slides, etc. Instruction folder. Packed in labeled cardboard box with hinged cover. Finish blue and gold.

New—Sensational—Fascinating

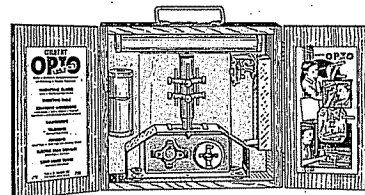
Complete apparatus and all necessary parts for building
GENUINE, SERVICEABLE SCIENTIFIC INSTRUMENTS

New Thrills, Discoveries and Adventures through the searching lenses of these wonder scientific instruments are in store for the boy or girl who is lucky enough to obtain Opto-Kit, the new wonder toy.



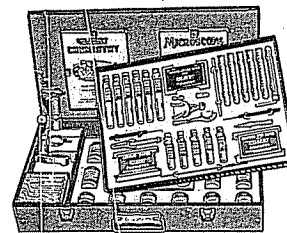
Above—No. 5 GILBERT OPTO KIT

Complete apparatus and all necessary parts to build genuine serviceable instruments for numerous fascinating and scientific experiments. Over 50 instruments and experiments can be made from this set including various types of magnifying glasses, microscopes (Compound and simple) of various powers, Kaleidoscope, Telescopes, Periscopes, Signaling Device, Camera models, Magic Lantern, Shadow Projectors, Flashlight and a series of fascinating and interesting experiments with light. Attractively packed in laboratory type redwood box.



Above—No. 3 GILBERT OPTO KIT

New, sensational, fascinating. Complete apparatus and all necessary parts for building genuine serviceable scientific instruments. Builds 22 different instruments, one after another, such as various types of magnifying glasses, Microscopes, Compound Microscopes, Dissecting Table, Kaleidoscopes, Telescopes, Periscopes, Signaling Device, together with instructions for various experiments. Packed in redwood laboratory type box.



No. 7
GILBERT
MICRO-
CHEMISTRY

Combination Chemistry and Microscope Outfit. Large assortment of chemicals. Big instruction book. Over 150 experiments. Forty pieces of apparatus with microscope equipment. Scope has high resolving power, three lenses. Magnifies 50, 90, 210 times according to lens combinations. Die cast base, tilting device, adjustable mirror. Stage equipped with brass clips to hold slides. Assortment of necessary accessories. Manual of instructions. Assembled in metal cabinet. Finish blue and gold.

Boys! Explore New Worlds of Science

Here's the most sensational scientific outfit you can own. The new Gilbert Opto Kit.

With it you can build one after another—genuine—serviceable scientific instruments that will give you hours of thrilling fun and knowledge.

Just imagine exploring hidden mysteries of nature and science, sending messages by electric beam, making camera models, observing and studying animal life through the powerful lens of a telescope, and dozens of other exciting things.

These thrills are all yours with the wonderful equipment contained in the Gilbert Opto Kit.

Then there are more wonders for you to see through the searching lens of the powerful microscope in the Micro Chemistry outfits—and, that's not all—for these sets contain apparatus and chemical assortments that reveal dozens of dazzling wonders in exploring the mystic realms of chemistry.

You'll find just the outfit you want at your toy store.

PRICES

No. 3 Opto Kit . . .	\$2.50
No. 5 Opto Kit . . .	5.00
No. 2 Glass Blowing . . .	2.00
No. 2 Mineralogy . . .	2.00
No. 4 Micro Chemistry	2.00
No. 7 Micro Chemistry	5.95