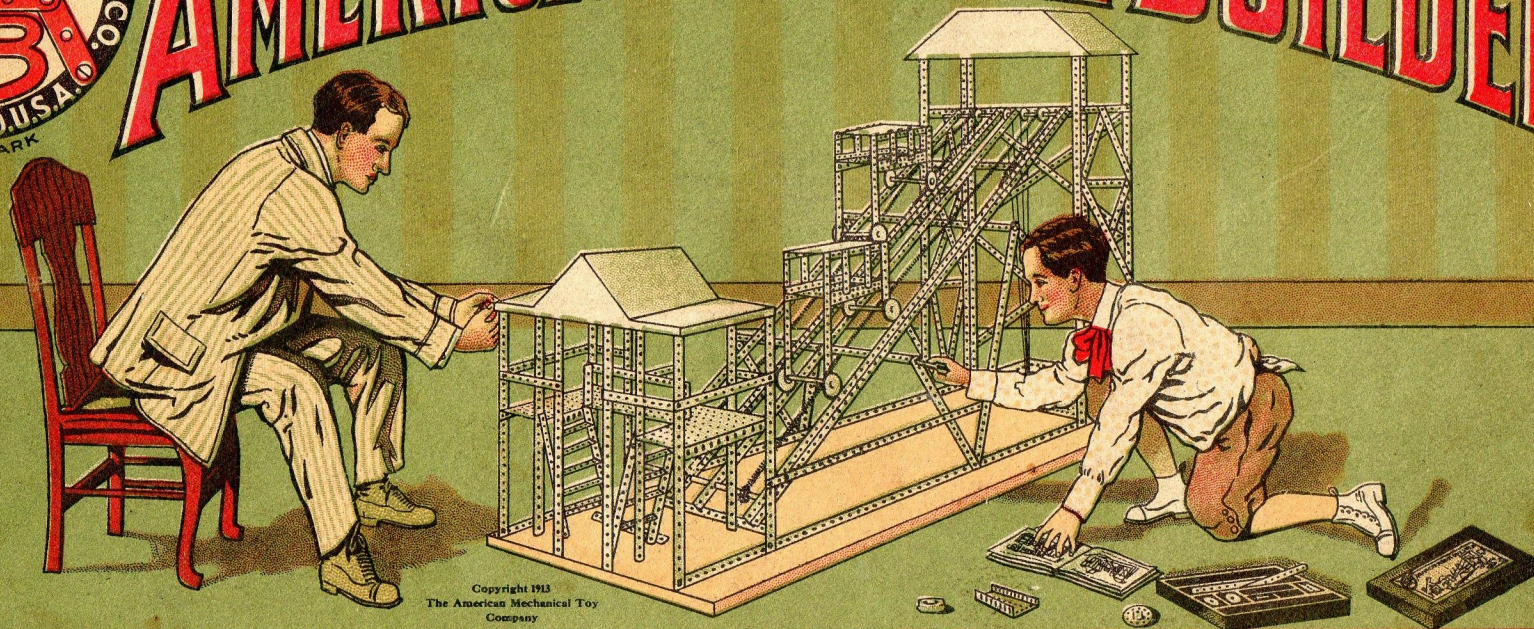




The AMERICAN MODEL BUILDER



ARTCRAFT LITHO. CO., DETROIT

Copyright 1913
The American Mechanical Toy
Company

COMPLETE MANUAL OF INSTRUCTION

Full details of construction given for all Models that
can be built with the Thirteen Progressive Outfits
of The American Model Builder

PATENTED IN CANADA
JULY 29, 1913

U. S. PATENT APPLIED FOR

Manufactured by The American Mechanical Toy Co., Dayton, Ohio, U. S. A.

MADE IN U. S. A.

THE AMERICAN MODEL BUILDER

THE TOY FOR THE BOY

Educational and Highly Entertaining

*Marvelous Mechanical Models
Can be Built by Any Boy*



MANUFACTURED BY
THE AMERICAN MECHANICAL TOY CO.
DAYTON, OHIO, U. S. A.

The American Model Builder

To Strengthen the Mind is to Exercise not Rest—Pope



THE AMERICAN MODEL BUILDER is designed to teach the boy the first steps in practical mechanics. Every part in this outfit is a miniature machine part made of steel and brass, double plated and polished. This makes the outfit practically indestructible.

Each Pulley, Flanged and Grooved Wheel, Gear, Pinion, Bush Wheel, Eccentric Drive Wheel, Car Wheel, Auto Wheel, and Sprocket is equipped with a brass Collar and case-hardened Set Screw, cupped at the end, which provides a positive fastening when used in any of the working models.

All Gears are accurately cut to pitch and all Strips are made with rounded edges, so as to avoid the possibility of cutting the fingers when building the models. All Cranks and 4" and 4½" Axle Rods are drilled for threading the string when used for hoisting purposes, and the cranks as well as the axles have rounded ends.

The most up-to-date and modern machinery has been installed in our factory to make the American Model Builder the most complete and practical steel construction outfit on the market.

First familiarize yourself with the various parts and their names, as described on pages 78 and 79; then start to erect all the Models, beginning with letter A. and take them in regular rotation until the capacity of your set is exhausted. Many mechanical principles are demonstrated in the smaller Models that will make the building of the more complicated ones much easier.

IMPORTANT.—Be sure to study the standard details of construction illustrated on pages 74 and 75.

The American Model Builder is made in eight regular progressive sets, numbered from 0 to 7, as shown on page 80. The outfits numbered from 0½ to 6½ are Accessory Sets and should only be purchased for use in enlarging the regular sets. For instance, if you possess a No. 2 Outfit, the purchase of a No. 2½ Accessory Set will supply sufficient parts to convert a No. 2 into a regular No. 3 set. The No. 3½ Accessory Outfit contains enough parts to convert a No. 3 into a regular No. 4 set, and so on. We recommend the purchase of Accessory Outfits as the boy's knowledge increases. They are furnished in neat cardboard boxes, where all the parts may be kept when not in use. However, individual

parts may also be purchased separately at the prices shown on page 79.

We have designed special Motors, Transformers and a Counter-shaft for boys desiring to operate their Models by Electricity. These are by far the most efficient small devices ever offered the public, and a full description will be found on page 76.

We maintain an Experimental Department at our factory where new designs and Models are constantly made. We want the name and address of each owner of an American Model Builder, as well as the number of your Outfit, so that we can keep you advised from time to time of any new models that can be built with your set. Please fill in the blank post card which is enclosed in your set and mail to us for this purpose.

PRIZE CONTEST

The charm and instruction in these Outfits lies in the building of original models. To encourage inventive genius, we are offering for the best original suggestions, submitted to us by April 1st, 1916, for the building of new models,

155 PRIZES, as follows:

1st Prize.....	value \$100.00	\$100.00
Two Prizes.....	25.00 each	50.00
Three ".....	15.00 "	45.00
Four ".....	7.50 "	30.00
Ten ".....	5.00 "	50.00
Twenty ".....	3.00 "	60.00
Fifty ".....	2.00 "	100.00
Sixty-five Prizes.....	1.00 "	65.00
		<hr/> \$500.00

No entrance fee of any kind will be charged.

In order to compete for these prizes it is not necessary for the contestant to own or buy an AMERICAN MODEL BUILDER OUTFIT,—simply send us a sketch, drawing, photograph or model made up of steel, cardboard, wood, tin or any other material, and all will receive equal consideration. These suggestions will then be submitted to three members of the Board of Directors of the Y. M. C. A. of Dayton, Ohio, and the awards made by them between April 15 and May 1, 1916.

The committee will be governed in awarding the prizes by the mechanical and structural features involved in the design, as well as their practicability, usefulness and symmetry.

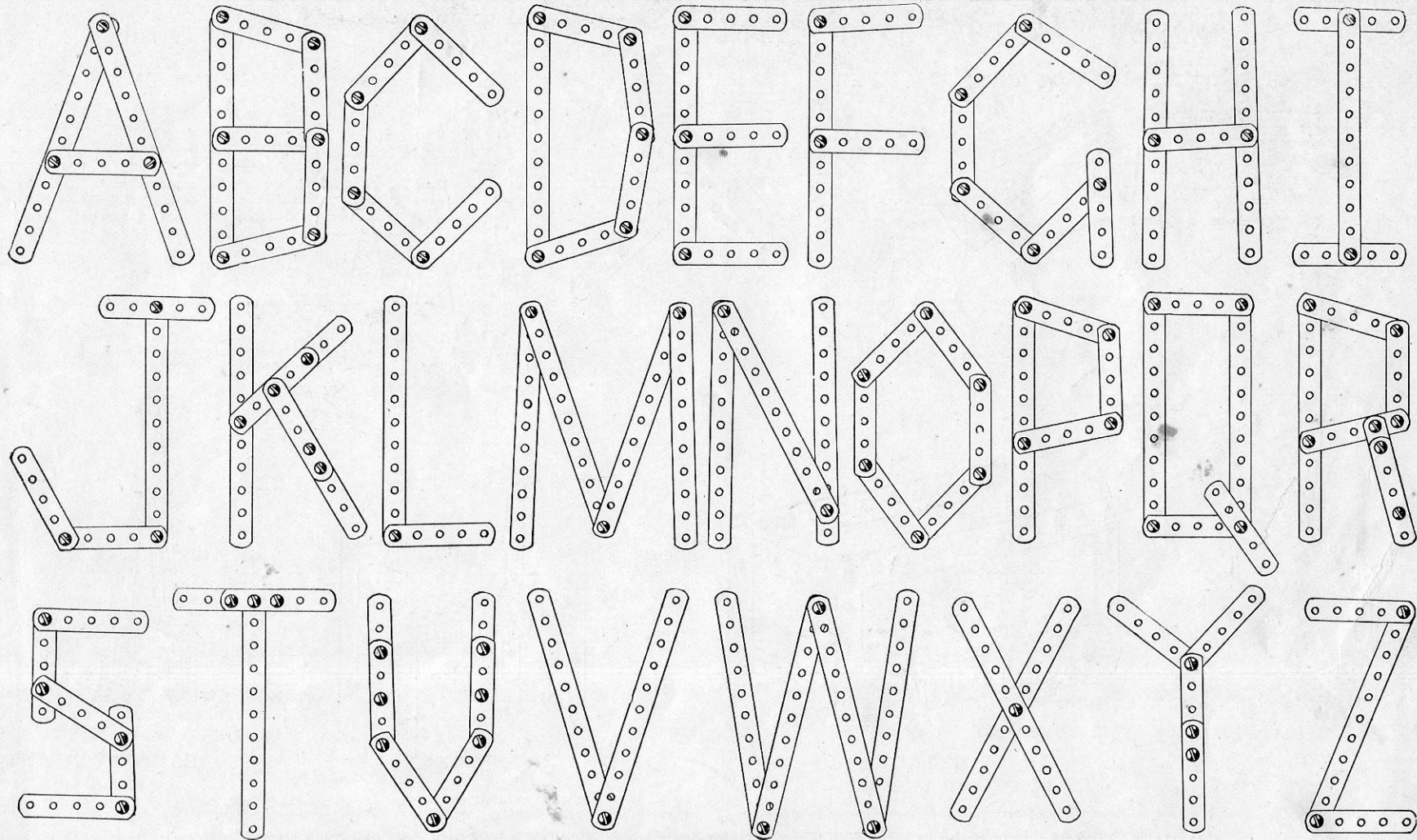
In submitting models, photos or suggestions BE SURE to give your FULL NAME and Postoffice address.

We want every user of The American Model Builder to feel free to write us at any time when difficulties arise in the building of Models and we will gladly give our suggestions and help.

THE AMERICAN MECHANICAL TOY COMPANY, DAYTON, OHIO, U. S. A.

THE TOY FOR THE BOY

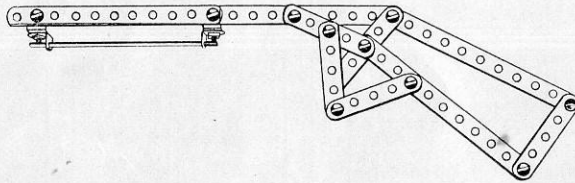
Page 3



The 26 Letters shown on this page can be made with The American Model Builder No. 1, or with No. 0 and No. 0½ Combined.

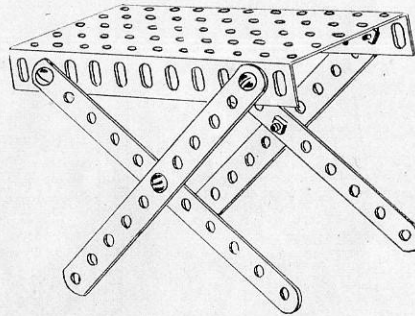
PISTOL

Fig. No. 27



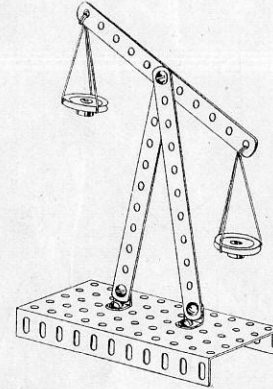
TABLE

Fig. No. 28



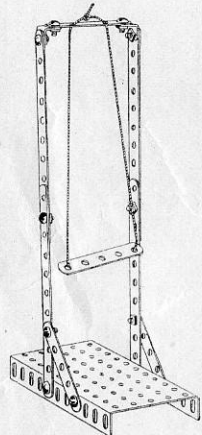
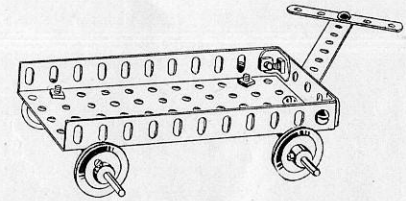
SCALES

Fig. No. 29



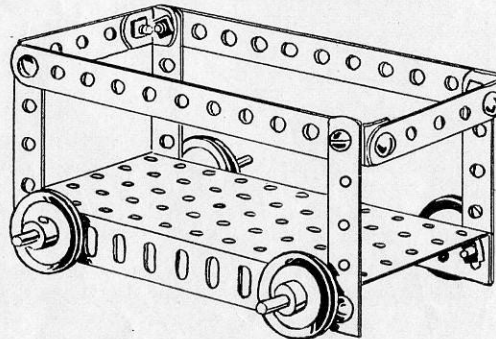
FLAT TRUCK

Fig. No. 30



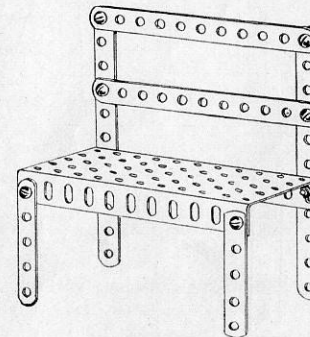
SWING

Fig. No. 31



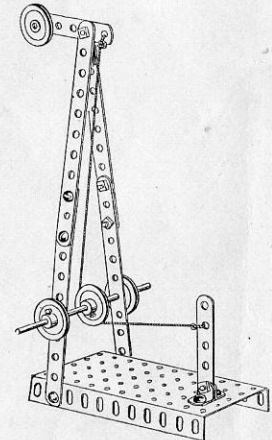
BOX TRUCK

Fig. No. 32



SETTEE

Fig. No. 33



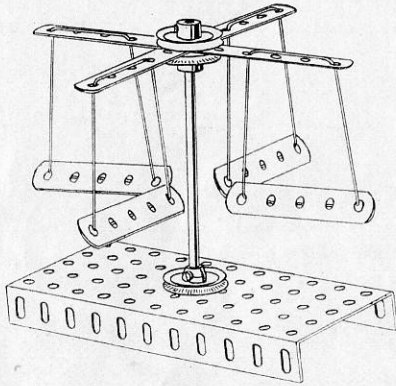
RAILWAY SIGNAL

Fig. No. 34

All Models shown on this page can be made with The American Model Builder Outfit No. 1, or with No. 0 and No. 0½ Combined.
 HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

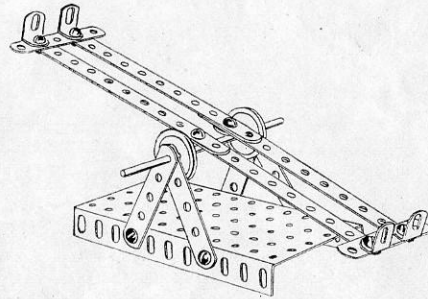
CIRCULAR SWING

Fig. No. 35



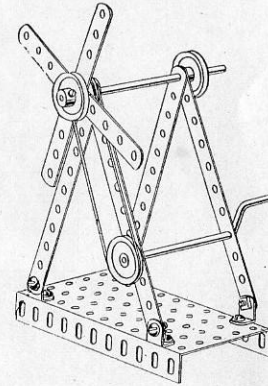
TEETER

Fig. No. 36



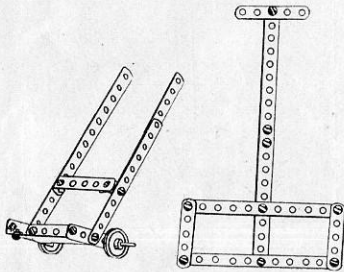
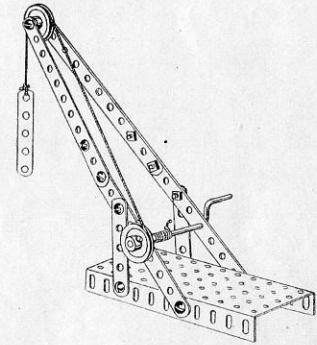
WIND MILL

Fig. No. 37



HOISTING DERRICK

Fig. No. 38



TRUCK

Fig. No. 39

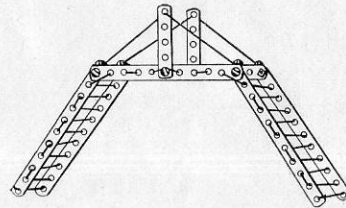
SHOVEL

Fig. No. 40



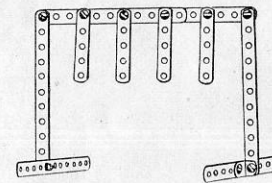
FACTORY TRUCK

Fig. No. 41



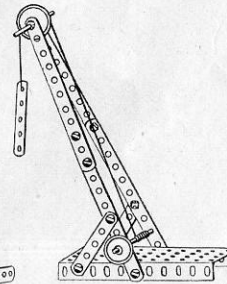
FOOT BRIDGE

Fig. No. 42



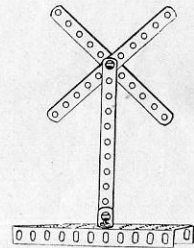
SAFETY SIGNAL

Fig. No. 43



CRANE

Fig. No. 44



CROSSING SIGNAL

Fig. No. 45

All Models shown on this page can be made with The American Model Builder Outfit No. 1, or with No. 0 and No. 0½ Combined.
 HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

LADDER

Fig. No. 46

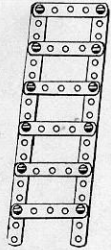
**BED**

Fig. No. 47

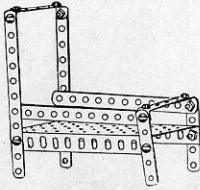
**DERRICK**

Fig. No. 48

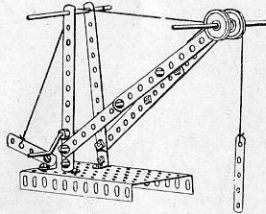
**TRANSPORTER**

Fig. No. 49

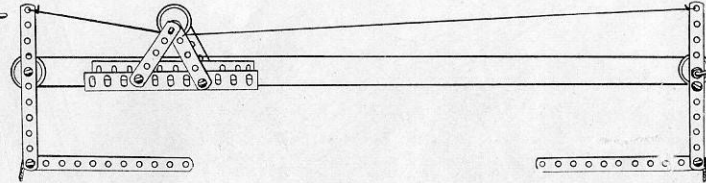
**SAW
BUCK**

Fig. No. 50

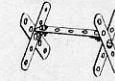
**STEP
LADDER**

Fig. No. 51

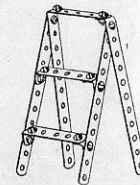
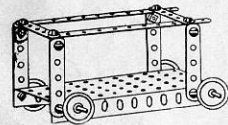
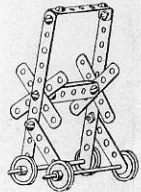
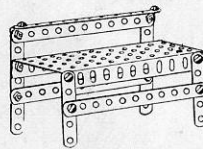
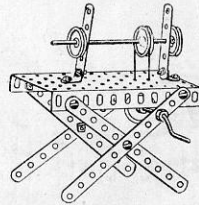
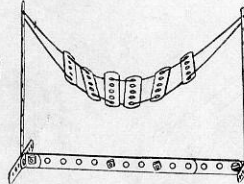
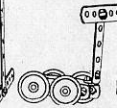
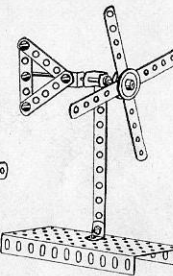
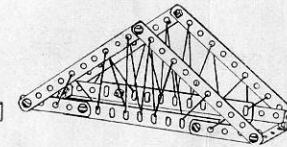
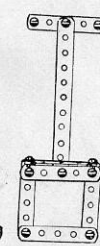
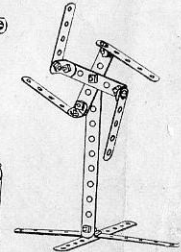
**REEL**

Fig. No. 52

**HAND
TRUCK**
Fig. No. 53**SETTEE**
Fig. No. 54**LATHE**
Fig. No. 55**HAMMOCK**
Fig. No. 56**COASTER**
Fig. No. 57**WEATHER
VANE**
Fig. No. 58**BRIDGE**
Fig. No. 59**SCRAPER**
Fig. No. 60**SWASTIKA**
Fig. No. 61

All Models shown on this page can be made with The American Model Builder Outfit No. 1, or with No. 0 and No. 0½ Combined.
 HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

THE TOY FOR THE BOY

Page 7

CANNON

Fig. No. 62

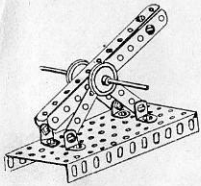
**BOAT**

Fig. No. 63

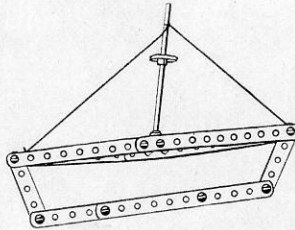
**AEROPLANE**

Fig. No. 64

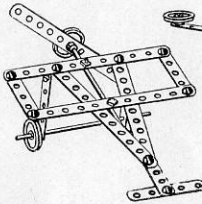
**FLY-AROUND**

Fig. No. 65

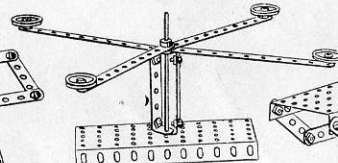
**SLED**

Fig. No. 66

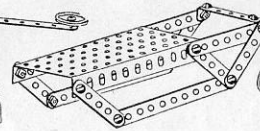
**RACER**

Fig. No. 67

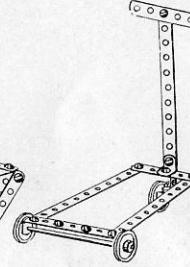
**SKATE**

Fig. No. 68

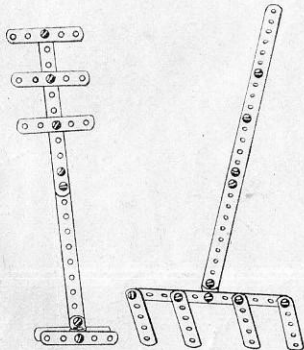
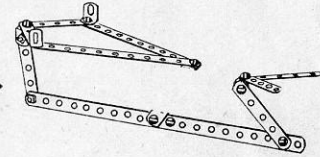
**TELEGRAPH
POLE**

Fig. No. 69

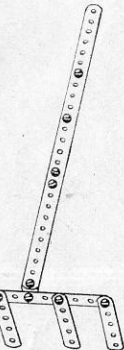
**RAKE**

Fig. No. 70

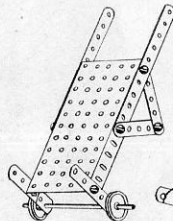
**R. R.
TRUCK**

Fig. No. 71

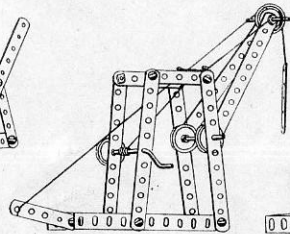
**WELL
DRILL**

Fig. No. 72

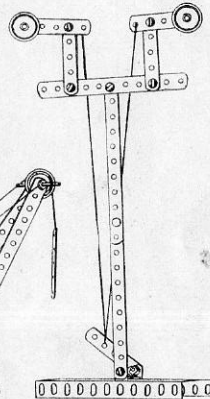
**R. R. SIGNAL**

Fig. No. 73

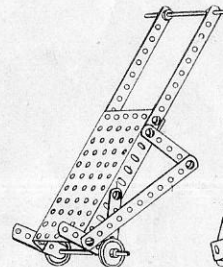
**BAGGAGE
TRUCK**

Fig. No. 74

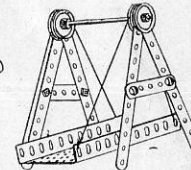
**SUSPENDED
BRIDGE**

Fig. No. 75

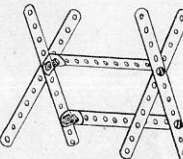
**TRESTLE**

Fig. No. 76

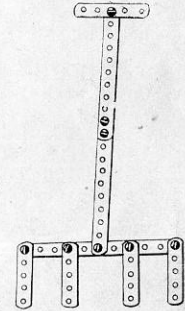
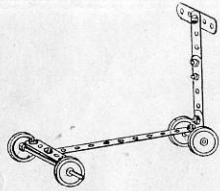
**PITCHFORK**

Fig. No. 77

All Models shown on this page can be made with The American Model Builder Outfit No. 1, or with No. 0 and No. 0½ Combined.
 HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

PUSH MOBILE

Fig. No. 78



GRINDER

Fig. No. 79

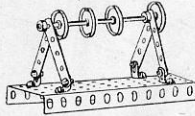
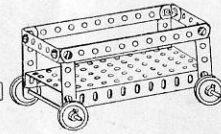
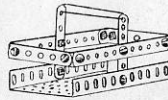
BREAD
TRUCK

Fig. No. 80



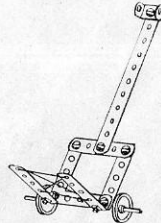
TRAY

Fig. No. 81



GO-CART

Fig. No. 82



WAGON

Fig. No. 83

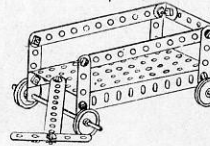
HAND
TRUCK

Fig. No. 84

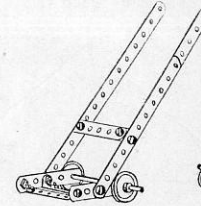
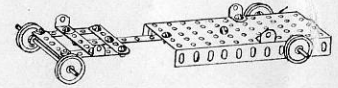
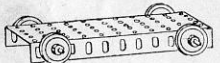
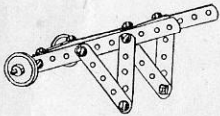
STEERING
BOB

Fig. No. 85



WHEELBARROW

Fig. No. 86



FLAT TRUCK

Fig. No. 87

Fig. No. 88

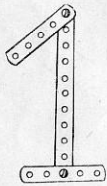


Fig. No. 89

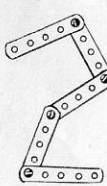


Fig. No. 90

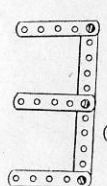


Fig. No. 91

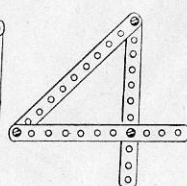


Fig. No. 92

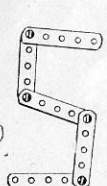


Fig. No. 93

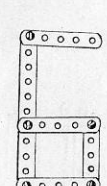


Fig. No. 94

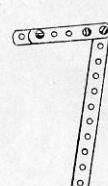


Fig. No. 95

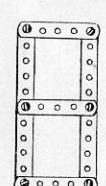


Fig. No. 96

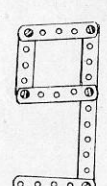
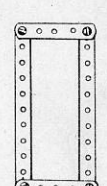
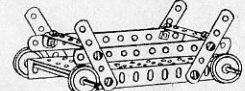
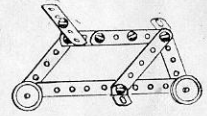


Fig. No. 97



BICYCLE

Fig. No. 98

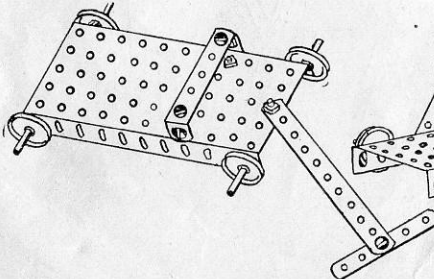


WALL PAPER TRUCK

Fig. No. 99

FLAT BED
WAGON

Fig. No. 100



HAND CAR

Fig. No. 101

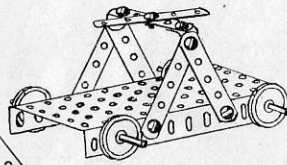
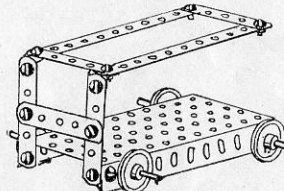
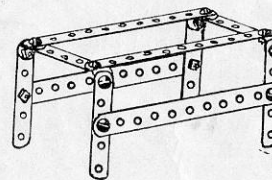
REPAIR
TRUCK

Fig. No. 102



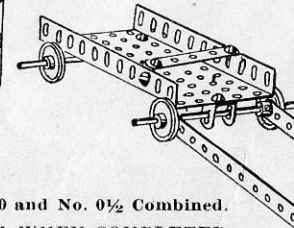
TABLE

Fig. No. 103



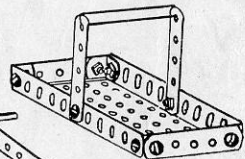
DOG-CART

Fig. No. 104



BASKET

Fig. No. 105

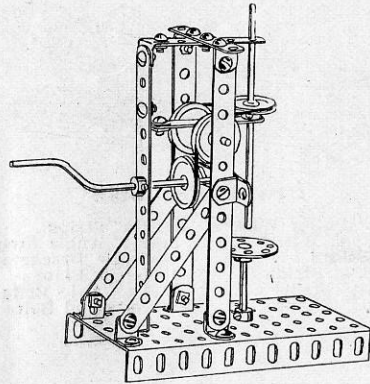


All Models shown on this page can be made with The American Model Builder Outfit No. 1, or with No. 0 and No. 0½ Combined.

HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED

DRILL PRESS

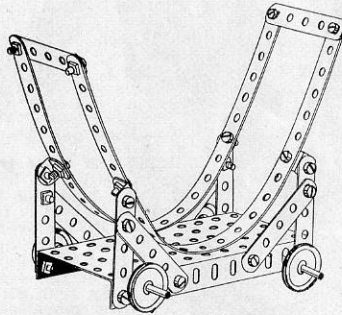
Fig. No. 106

**PARTS REQUIRED**

- 1—Large Plate
- 3—5½" Strips
- 2—3½" Strips
- 4—2½" Strips
- 1—Bush Wheel
- 4—1" Pulleys
- 1—4½" Axle Rod
- 2—2" Axle Rods
- 1—4½" Crank
- 11—Angle Brackets
- 4—Collars
- 23—Nuts and Screws

WALL PAPER TRUCK

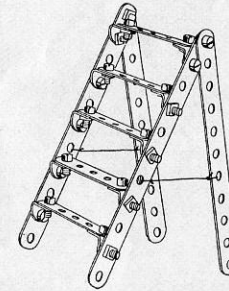
Fig. No. 107

**PARTS REQUIRED**

- 1—Large Plate
- 2—12½" Strips
- 10—2½" Strips
- 2—4½" Axle Rods
- 4—1" Pulleys
- 4—Angle Brackets
- 24—Nuts and Screws

MACHINISTS' LADDER

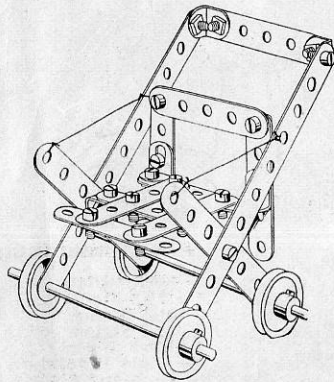
Fig. No. 108

**PARTS REQUIRED**

- 4—5½" Strips
- 5—2½" Strips
- 10—Angle Brackets
- 22—Nuts and Screws

FOLDING CHAIR

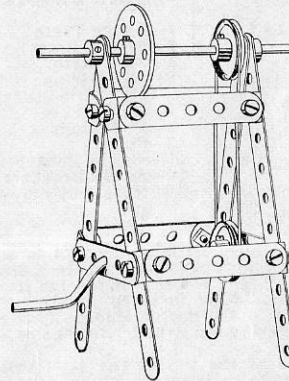
Fig. No. 109

**PARTS REQUIRED**

- 2—5½" Strips
- 2—3½" Strips
- 9—2½" Strips
- 6—Angle Brackets
- 2—4½" Axle Rods
- 4—1" Pulleys
- 20—Nuts and Screws

GRIND STONE

Fig. No. 110

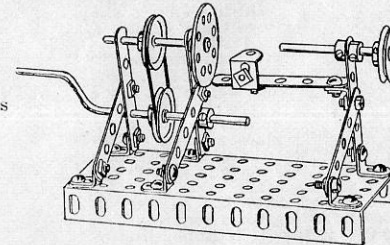
**PARTS REQUIRED**

- 4—5½" Perforated Strips
- 6—2½" Perforated Strips
- 8—Angle Brackets
- 1—4½" Axle Rod
- 1—5½" Crank
- 1—Bush Wheel
- 2—1" Pulley Wheels
- 3—Collars and Set Screws
- 16—Nuts and Screws

LATHE

Fig. No. 111

This is a simple type of Turning Lathe and will turn up soft material such as a candle or chalk. Any material to be turned should be fastened to the Bush Wheel by means of Angle Brackets and the 2" Axle Rod inserted in the opposite end. This little model can also be operated by motor by attaching another 1" Pulley Wheel to the 4½" Crank.

**PARTS REQUIRED**

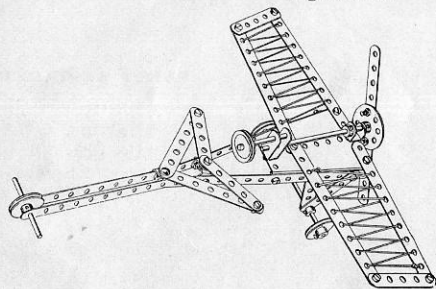
- 1—Large Plate
- 7—2½" Strips
- 1—Bush Wheel
- 3—1" Pulleys
- 2—2" Axle Rods
- 1—4½" Crank
- 4—Collars
- 9—Angle Brackets
- 18—Nuts and Screws

All Models shown on this page can be made with The American Model Builder Outfit No. 1, or with No. 0 and No. 0½ Combined.

HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

MONOPLANE

Fig. No. 112



PARTS REQUIRED

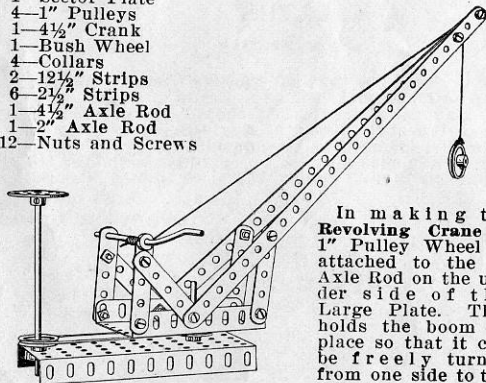
- 4—1" Pulleys
- 1—Bush Wheel
- 4—Collars
- 2—12 1/4" Strips
- 4—5 1/2" Strips
- 2—3 1/2" Strips
- 10—2 1/2" Strips
- 5—Angle Brackets
- 1—Single Bent Strip
- 1—Sector Plate
- 2—4 1/2" Axle Rods
- 2—2" Axle Rods
- 24—Nuts and Screws

REVOLVING CRANE

Fig. No. 115

PARTS REQUIRED

- 1—Large Plate
- 1—Sector Plate
- 4—1" Pulleys
- 1—4 1/2" Crank
- 1—Bush Wheel
- 4—Collars
- 2—12 1/4" Strips
- 6—2 1/2" Strips
- 1—4 1/2" Axle Rod
- 1—2" Axle Rod
- 12—Nuts and Screws



In making the Revolving Crane a 1" Pulley Wheel is attached to the 2" Axle Rod on the under side of the Large Plate. This holds the boom in place so that it can be freely turned from one side to the other.

A Collar is attached to the 2" Axle Rod on the top of the Sector Plate to hold the platform securely.

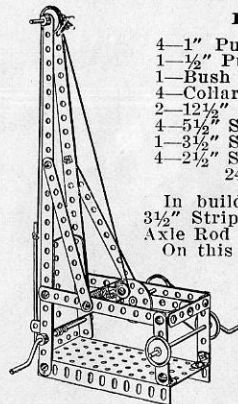
Owing to the view of the picture it is impossible to show these two parts.

WELL DRILL

Fig. No. 113

PARTS REQUIRED

- 4—1" Pulleys
- 1—3/8" Pulley
- 1—Bush Wheel
- 4—Collars
- 2—12 1/4" Strips
- 4—5 1/2" Strips
- 1—3 1/2" Strip
- 4—2 1/2" Strips
- 24—Nuts and Screws
- 8—Angle Brackets
- 1—Single Bent Strip
- 1—Large Plate
- 1—Sector Plate
- 1—4 1/2" Axle Rod
- 2—2" Axle Rods
- 1—4 1/2" Crank
- 1—5 1/2" Crank



In building the Well Drill, note that a 3 1/2" Strip is used as a bearing for the 2" Axle Rod which holds the Bush Wheel.

On this Bush Wheel is then attached the 1/2" Pulley over which the cord passes which operates the Drill.

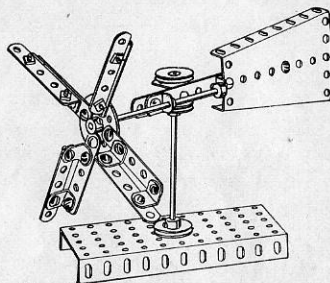
Both Cranks should be operated at the same time, the one in the rear giving the up-and-down movement to the Drill, while the one in the front extends the length of the rope as the Drill sinks.

WEATHER VANE

Fig. No. 116

PARTS REQUIRED

- 1—Large Plate
- 1—Sector Plate
- 1—5 1/2" Strip
- 8—2 1/2" Strips
- 2—4 1/2" Axle Rods
- 1—Bush Wheel
- 3—1" Pulleys
- 3—Collars
- 1—Single Bent Strip
- 10—Angle Brackets
- 24—Nuts and Screws



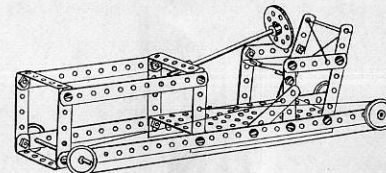
The Weather Vane is a clever little model and is so well balanced that if it is set in an open space where a free circulation of air can get to it, the wheel will revolve freely.

A Single Bent Strip should be fastened securely to the 5 1/2" Strip which is bolted to the Sector Plate. This Single Bent Strip forms the bearing on which the entire device turns.

The two Pulley Wheels at the top of the 4 1/2" Axle Rod are simply used as bearings to keep the upper part of the framework in place.

AUTO RACER

Fig. No. 114

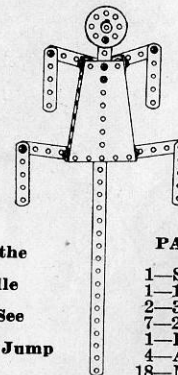


PARTS REQUIRED

- 4—1" Pulley Wheels
- 1—Bush Wheel
- 2—Collars
- 2—12 1/4" Strips
- 2—5 1/2" Strips
- 2—3 1/2" Strips
- 10—2 1/4" Strips
- 3—2 1/2" Angle Strips
- 8—Angle Brackets
- 1—Large Plate
- 2—4 1/2" Axle Rods
- 22—Nuts and Bolts

JUMPING JACK

Fig. No. 117



Pull the
Handle
and See
Him Jump

PARTS REQUIRED

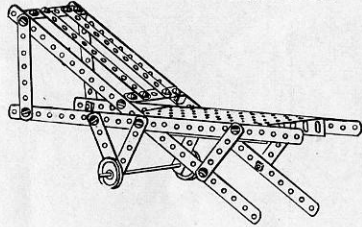
- 1—Sector Plate
- 1—12 1/4" Strip
- 2—3 1/2" Strips
- 7—2 1/2" Strips
- 1—Bush Wheel
- 4—Angle Brackets
- 18—Nuts and Screws

All Models shown on this page can be made with The American Model Builder Outfit No. 1, or with No. 0 and No. 0 1/2 Combined.

HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

SLOPING BAGGAGE TRUCK

Fig. No. 118

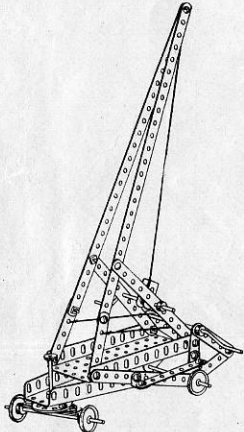


PARTS REQUIRED

- 2—1" Pulley Wheels
- 4—12½" Strips
- 2—5½" Strips
- 8—2½" Strips
- 4—Angle Brackets
- 1—4½" Axle Rod
- 2—3½" Strips
- 22—Nuts and Bolts

AERIAL WATER TOWER

Fig. No. 121



PARTS REQUIRED

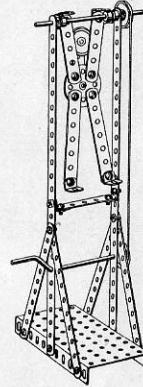
- 1—Large Plate
- 1—Sector Plate
- 2—12½" Strips
- 4—5½" Strips
- 2—3½" Strips
- 7—2½" Strips
- 1—Bush Wheel
- 4—1" Pulleys
- 1—½" Pulley
- 1—5½" Crank
- 1—4½" Crank
- 2—4½" Axle Rods
- 1—2" Axle Rod
- 6—Angle Brackets
- 1—Single Bent Strip
- 4—Collars
- 23—Nuts and Screws

The Aerial Water Tower is made so that it will collapse the same as the water tower that is used by the fire department.

By turning the lower crank the tower can be raised or lowered at will, while the upper crank will change the location of the tower after it is raised.

PERFORMING ACROBAT

Fig. No. 119



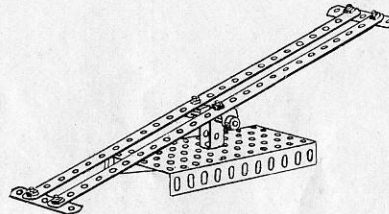
PARTS REQUIRED

- 1—Large Plate
- 2—12½" Strips
- 4—5½" Strips
- 2—3½" Strips
- 4—2½" Strips
- 1—4½" Crank
- 1—4½" Axle Rod
- 1—Bush Wheel
- 3—1" Pulleys
- 4—Collars
- 8—Angle Brackets
- 22—Nuts and Screws

Turn the Crank and See Him Do the Giant Swing.

TEETER

Fig. No. 122

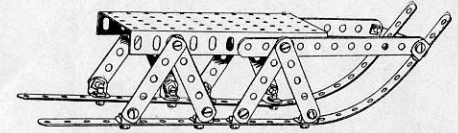


PARTS REQUIRED

- 1—Large Plate
- 2—12½" Strips
- 2—2½" Strips
- 1—Single Bent Strip
- 2—Angle Brackets
- 1—2" Axle Rod
- 2—Collars
- 7—Nuts and Screws

MOUNTAIN COASTER

Fig. No. 120

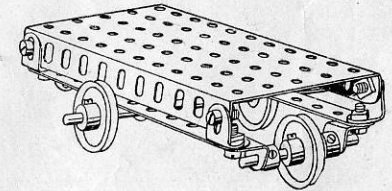


PARTS REQUIRED

- 1—Large Rectangular Plate
- 2—12½" Perforated Strips
- 2—5½" Perforated Strips
- 9—2½" Perforated Strips
- 10—Angle Brackets
- 24—Nuts and Screws

REVOLVING TRUCK

Fig. No. 123



PARTS REQUIRED

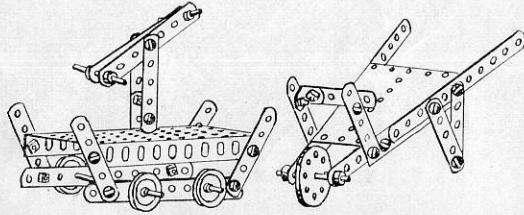
- 1—Large Plate
- 2—5½" Strips
- 3—1" Pulleys
- 8—Angle Brackets
- 1—4½" Axle Rod
- 1—2" Axle Rod
- 2—Collars
- 10—Nuts and Screws

All Models shown on this page can be made with The American Model Builder Outfit No. 1, or with No. 0 and No. 0½ Combined.

HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

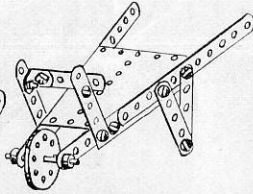
R. R. HAND CAR

Fig. No. 124



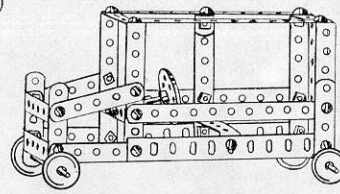
WHEELBARROW

Fig. No. 125



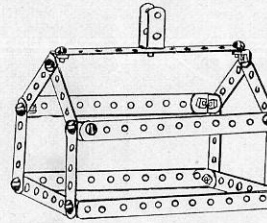
AUTO MAIL TRUCK

Fig. No. 126



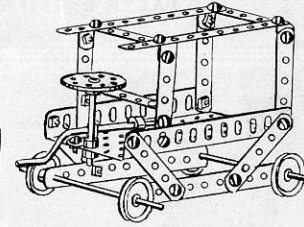
HOUSE

Fig. No. 127



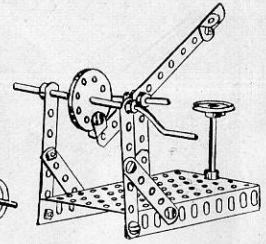
AUTO TRUCK

Fig. No. 128



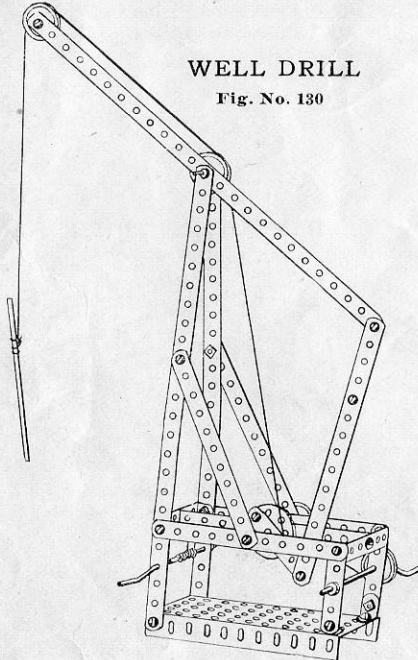
TRIP HAMMER

Fig. No. 129



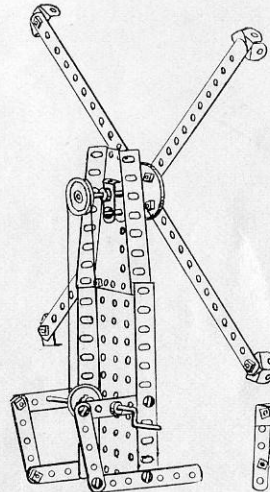
WELL DRILL

Fig. No. 130



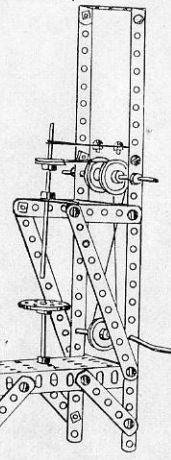
FERRIS WHEEL

Fig. No. 131



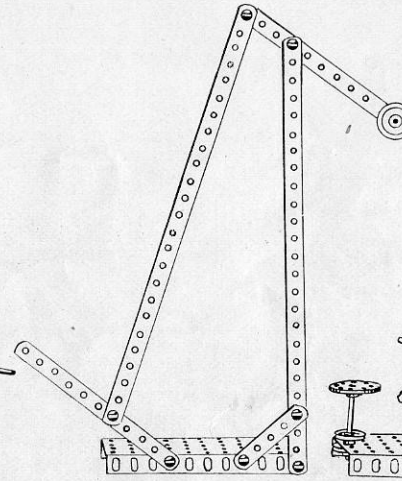
DRILL PRESS

Fig. No. 132



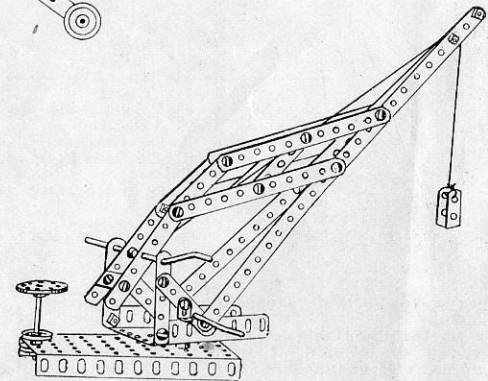
SEMAPHORE

Fig. No. 133



ELEVATING ROTARY CRANE

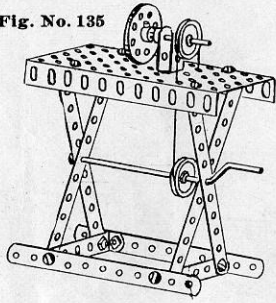
Fig. No. 134



All Models shown on this page can be made with The American Model Builder Outfit No. 1, or with No. 0 and No. 0½ Combined.
 HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

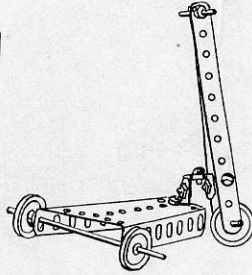
LATHE

Fig. No. 135



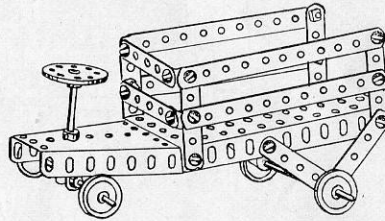
GO-CYCLE

Fig. No. 136



AUTO TRUCK

Fig. No. 137



SIEGE GUN

Fig. No. 138

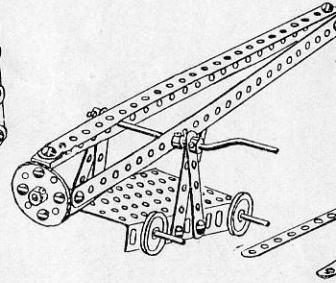
SINGLE HORSE
WAGON

Fig. No. 139

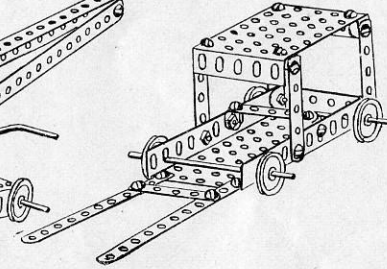
CLOTHES
HORSE

Fig. No. 140

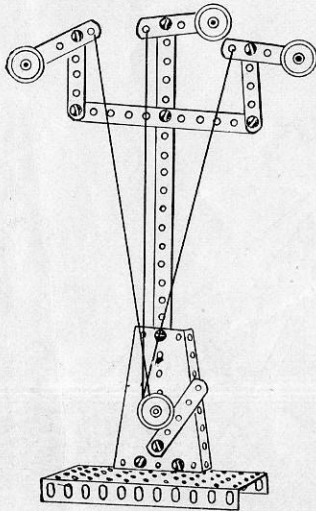
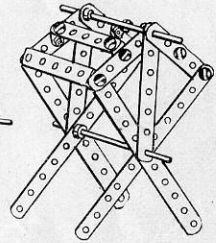
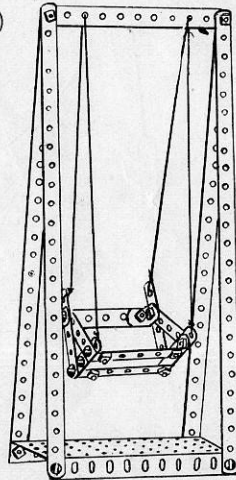
TRIPLE
R. R. SIGNAL

Fig. No. 141



PORCH SWING

Fig. No. 142

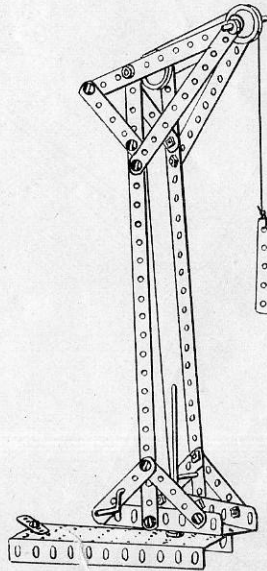
REVOLVING
HAY DERRICK

Fig. No. 143

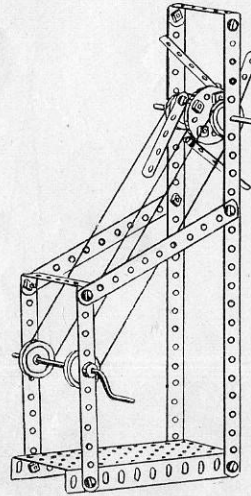
REVOLVING
PADDLE WHEEL

Fig. No. 144

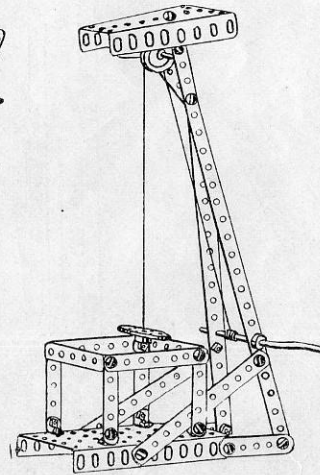
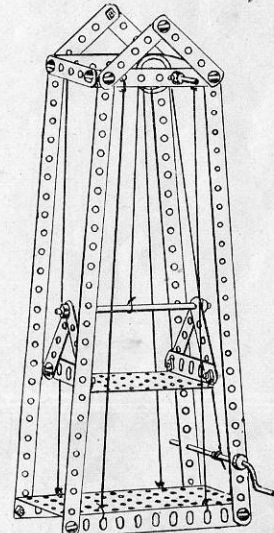
OLD-FASHIONED
DEEP WELL

Fig. No. 145



ELEVATOR

Fig. No. 146

All Models shown on this page can be made with The American Model Builder Outfit No. 1, or with No. 0 and No. 0½ Combined.
 HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

ZEPPELIN

Fig. No. 147

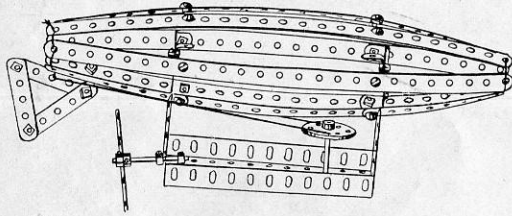
**BABY CARRIAGE**

Fig. No. 148

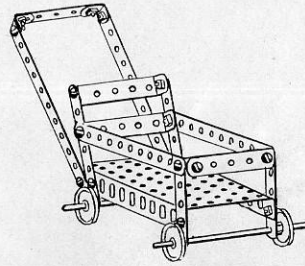
**AUTO TRUCK**

Fig. No. 149

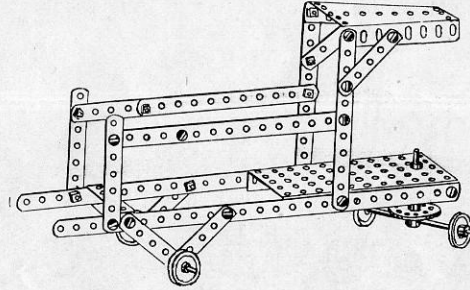
**PARCEL DELIVERY TRUCK**

Fig. No. 150

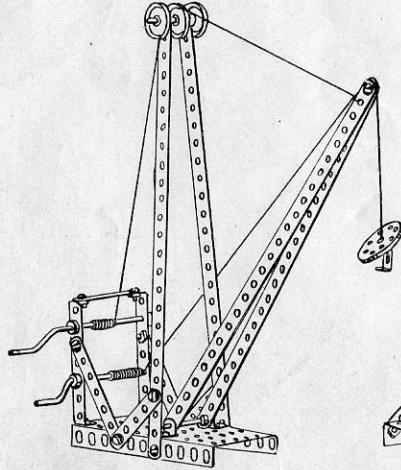
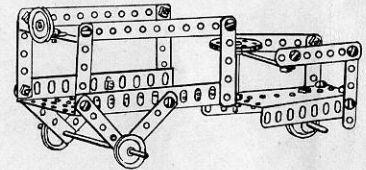
**PLATFORM DERRICK**

Fig. No. 151

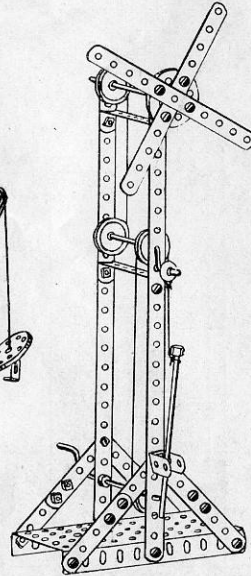
**WIND PUMP**

Fig. No. 152

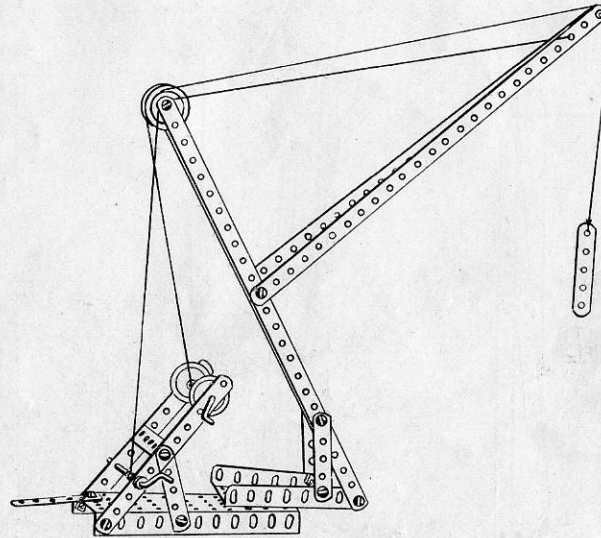
**BOOM DERRICK**

Fig. No. 153

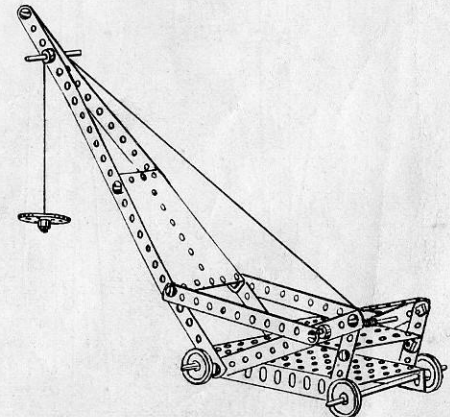
**PORTABLE JIB CRANE**

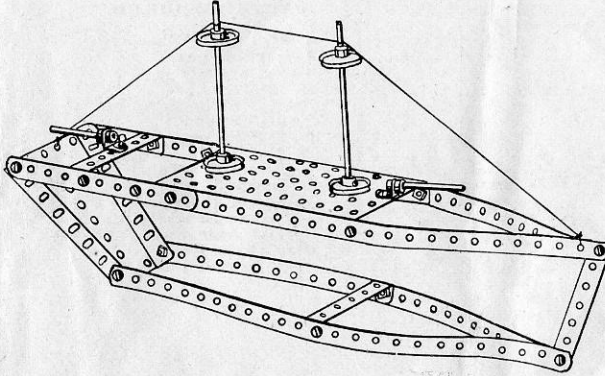
Fig. No. 154

All Models shown on this page can be made with The American Model Builder Outfit No. 1, or with No. 0 and No. 0½ Combined.

HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

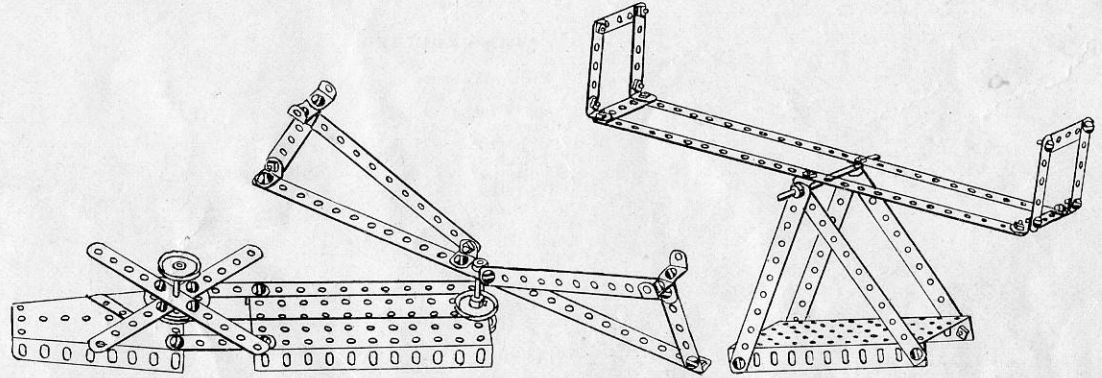
PROTECTED CRUISER

Fig. No. 155



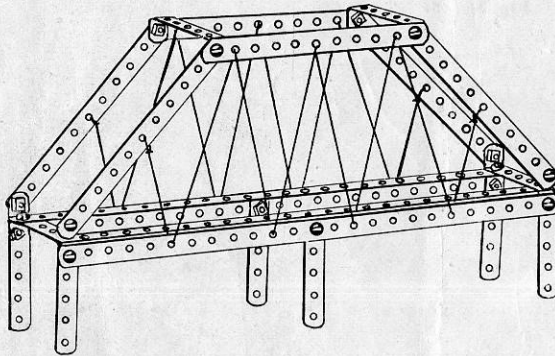
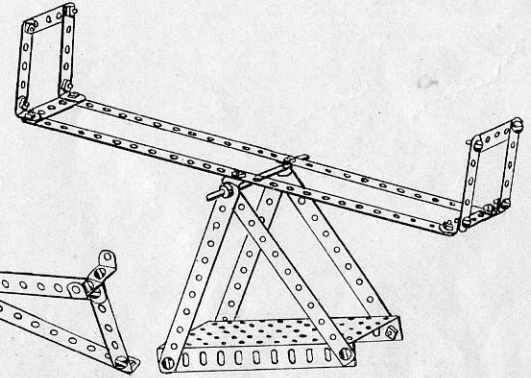
WHIRLI-GIG

Fig. No. 156



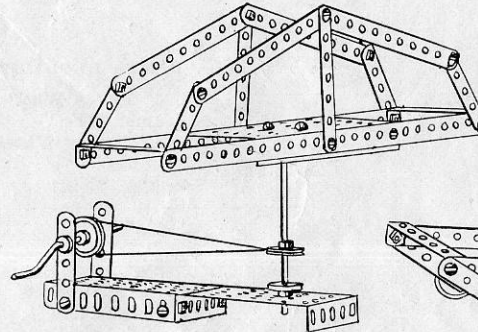
SWING

Fig. No. 157



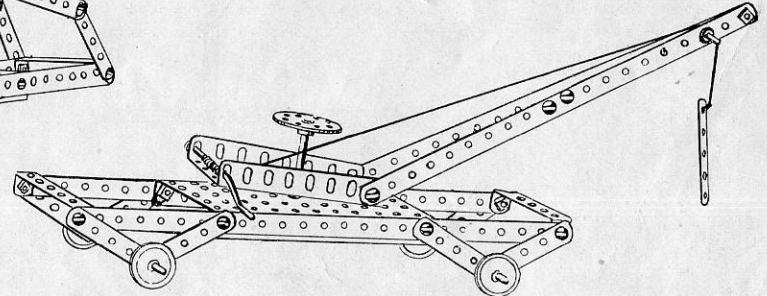
BRIDGE

Fig. No. 158



SWINGING BRIDGE

Fig. No. 159



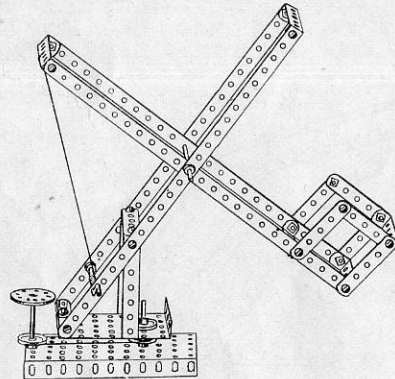
R. R. WRECKING CAR

Fig. No. 160

All Models shown on this page can be made with The American Model Builder Outfit No. 1, or with No. 0 and No. 0½ Combined.
 HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

REVOLVING STEAM SHOVEL

Fig. No. 161

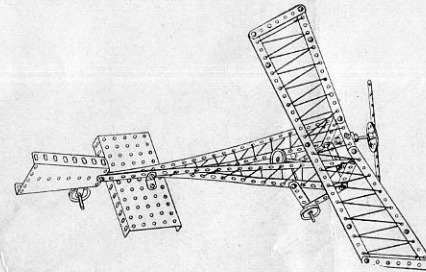


PARTS REQUIRED

- 4—1" Pulley Wheels
- 1— $\frac{1}{2}$ " Pulley Wheel
- 1—Bush Wheel
- 6—Collars
- 3— $12\frac{1}{2}$ " Strips
- 2— $5\frac{1}{2}$ " Strips
- 2— $3\frac{1}{2}$ " Strips
- 8— $2\frac{1}{2}$ " Strips
- 2— $2\frac{1}{2}$ " Angle Strips
- 2—Angle Brackets
- 1—Large Rectangular Plate
- 1—Sector Plate
- 2— $4\frac{1}{2}$ " Axle Rods
- 1— $4\frac{1}{2}$ " Crank
- 1— $5\frac{1}{2}$ " Crank
- 1—Single Bent Strip
- 2—2" Axle Rods
- 22—Nuts and Bolts

MONOPLANE

Fig. No. 162

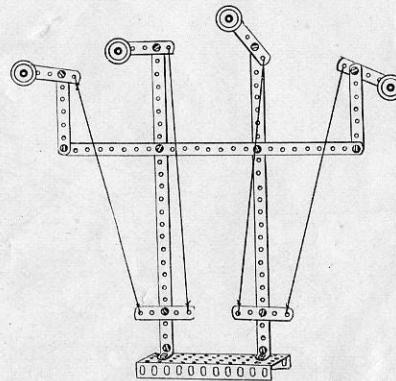


PARTS REQUIRED

- 4—1" Pulley Wheels
- 1—Bush Wheel
- 4—Collars
- 4— $12\frac{1}{2}$ " Strips
- 5— $5\frac{1}{2}$ " Strips
- 2— $3\frac{1}{2}$ " Strips
- 10— $2\frac{1}{2}$ " Strips
- 2— $2\frac{1}{2}$ " Angle Strips
- 4—Angle Brackets
- 1—Large Plate
- 1—Sector Plate
- 1—Single Bent Strip
- 2— $4\frac{1}{2}$ " Axle Rods
- 2—2" Axle Rods
- 24—Nuts and Bolts

4 ARM R. R. SIGNAL

Fig. No. 163

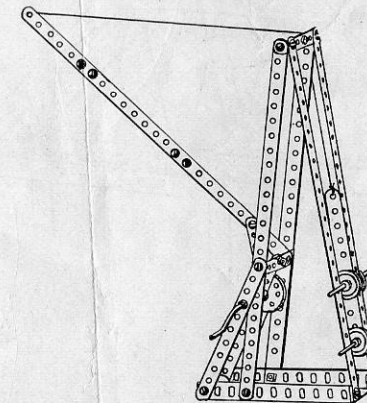


PARTS REQUIRED

- 4—1" Pulley Wheels
- 3— $12\frac{1}{2}$ " Strips
- 6— $2\frac{1}{2}$ " Strips
- 2— $3\frac{1}{2}$ " Strips
- 2—Angle Brackets
- 1—Large Plate
- 18—Nuts and Bolts

PILE DRIVER

Fig. No. 164



PARTS REQUIRED

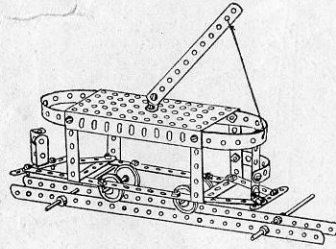
- 4—1" Pulley Wheels
- 1—Bush Wheel
- 1— $\frac{1}{2}$ " Pulley Wheel
- 3—Collars
- 4— $12\frac{1}{2}$ " Strips
- 6— $5\frac{1}{2}$ " Strips
- 2— $3\frac{1}{2}$ " Strips
- 10— $2\frac{1}{2}$ " Strips
- 2— $2\frac{1}{2}$ " Angle Strips
- 6—Angle Brackets
- 1—Large Plate
- 2— $4\frac{1}{2}$ " Axle Rods
- 2—2" Axle Rods
- 1— $5\frac{1}{2}$ " Crank
- 23—Nuts and Bolts

All Models shown on this page can be made with The American Model Builder Outfit No. 1, or with No. 0 and No. 0 $\frac{1}{2}$ Combined.

HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

TROLLEY CAR

Fig. No. 165

**PARTS REQUIRED**

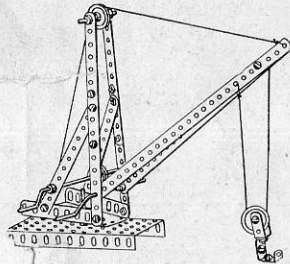
- 4—1" Pulley Wheels
- 1— $\frac{1}{2}$ " Pulley Wheel
- 5— $\frac{5}{8}$ " Strips
- 1— $\frac{3}{8}$ " Strip
- 9— $\frac{2}{3}$ " Strips
- 4— $2\frac{1}{2}$ " Angle Strips
- 7—Angle Brackets
- 1—Single Bent Strip
- 1—Large Plate
- 2—2" Axle Rods
- 23—Nuts and Bolts

TRACK FOR CAR

- 6—Collars
- 2— $12\frac{1}{2}$ " Strips
- 2— $4\frac{1}{2}$ " Axle Rods

**REVOLVING and ELEVATING
BOOM DERRICK**

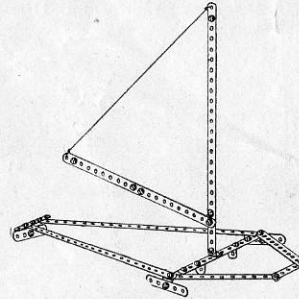
Fig. No. 167

**PARTS REQUIRED**

- 4—1" Pulley Wheels
- 1— $\frac{1}{2}$ " Pulley Wheel
- 1—Bush Wheel
- 5—Collars
- 2— $12\frac{1}{2}$ " Strips
- 6— $\frac{5}{8}$ " Strips
- 1—Single Bent Strip
- 3—Angle Brackets
- 1—Large Plate
- 1—Sector Plate
- 2—2" Axle Rods
- 1— $4\frac{1}{2}$ " Crank
- 1— $5\frac{1}{2}$ " Crank
- 18—Nuts and Bolts

ICE BOAT

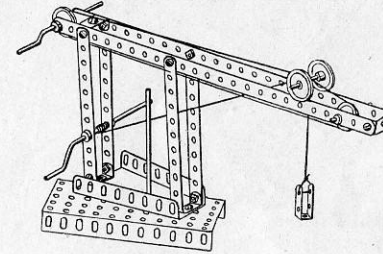
Fig. No. 168

**PARTS REQUIRED**

- 3— $12\frac{1}{2}$ " Strips
- 5— $5\frac{1}{2}$ " Strips
- 5— $2\frac{1}{2}$ " Strips
- 2— $2\frac{1}{2}$ " Angle Strips
- 1—Angle Bracket
- 19—Nuts and Bolts

**REVOLVING TRAVELING
CRANE**

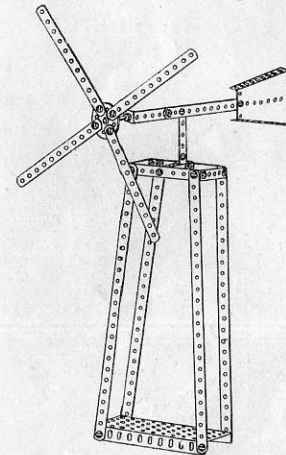
Fig. No. 166

**PARTS REQUIRED**

- 4—1" Pulley Wheels
- 1— $\frac{1}{2}$ " Pulley Wheel
- 1—Bush Wheel
- 6—Collars
- 2— $12\frac{1}{2}$ " Strips
- 4— $5\frac{1}{2}$ " Strips
- 8—Angle Brackets
- 1—Single Bent Strip
- 1—Large Plate
- 1—Sector Plate
- 1— $4\frac{1}{2}$ " Axle Rod
- 2—2" Axle Rods
- 1— $4\frac{1}{2}$ " Crank
- 1— $5\frac{1}{2}$ " Crank
- 16—Nuts and Bolts

WIND MILL

Fig. No. 169

**PARTS REQUIRED**

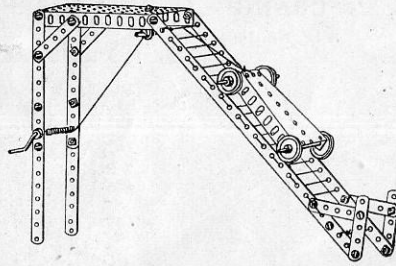
- 1—Bush Wheel
- 2—Collars
- 4— $12\frac{1}{2}$ " Strips
- 5— $5\frac{1}{2}$ " Strips
- 3— $2\frac{1}{2}$ " Strips
- 2— $3\frac{1}{2}$ " Angle Strips
- 2— $2\frac{1}{2}$ " Angle Strips
- 1—Angle Bracket
- 1—Large Plate
- 1—Sector Plate
- 1— $4\frac{1}{2}$ " Axle Rod
- 23—Nuts and Bolts

All Models shown on this page can be made with The American Model Builder Outfit No. 1, or with No. 0 and No. $0\frac{1}{2}$ Combined.

HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

INCLINED RAILWAY

Fig. No. 170

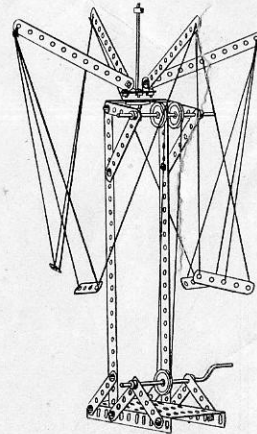


PARTS REQUIRED

- | | |
|-----------------------------|-------------------------------|
| 4—1" Pulley Wheels | 2—Angle Brackets |
| 1— $\frac{1}{2}$ " Pulley | 1—Large plate |
| 4—Collars | 1—Sector Plate |
| 2— $12\frac{1}{2}$ " Strips | 2— $4\frac{1}{2}$ " Axle Rods |
| 4— $5\frac{1}{2}$ " Strips | 1—2" Axle Rod |
| 7— $2\frac{1}{2}$ " Strips | 1— $4\frac{1}{2}$ " Crank |
| 1—Single Bent Strip | 23—Nuts and Bolts |

CIRCLE SWING

Fig. No. 171

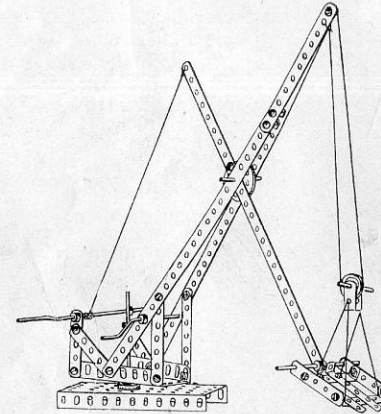


PARTS REQUIRED

- | |
|----------------------------------|
| 4—1" Pulley Wheels |
| 1—Bush Wheel |
| 6—Collars |
| 2— $12\frac{1}{2}$ " Strips |
| 4— $5\frac{1}{2}$ " Strips |
| 2— $3\frac{1}{2}$ " Strips |
| 10— $2\frac{1}{2}$ " Strips |
| 4— $2\frac{1}{2}$ " Angle Strips |
| 4—Angle Brackets |
| 1—Large Plate |
| 2— $4\frac{1}{2}$ " Axle Rods |
| 1— $5\frac{1}{2}$ " Crank |
| 20—Nuts and Bolts |

REVOLVING DREDGE

Fig. No. 172

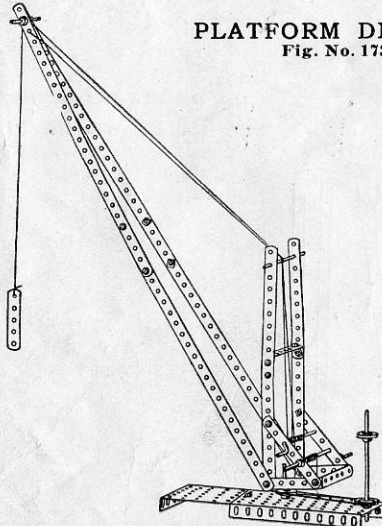


PARTS REQUIRED

- | |
|----------------------------------|
| 4—1" Pulley Wheels |
| 1—Bush Wheel |
| 6—Collars |
| 4— $12\frac{1}{2}$ " Strips |
| 8— $2\frac{1}{2}$ " Strips |
| 4— $2\frac{1}{2}$ " Angle Strips |
| 2— $3\frac{1}{2}$ " Angle Strips |
| 4—Angle Brackets |
| 1—Large Plate |
| 1—Small Plate |
| 1— $4\frac{1}{2}$ " Axle Rod |
| 2—2" Axle Rods |
| 1— $4\frac{1}{2}$ " Crank |
| 24—Nuts and Bolts |

PLATFORM DERRICK

Fig. No. 173



PARTS REQUIRED

- | |
|----------------------------------|
| 3—1" Pulley Wheels |
| 1— $\frac{1}{2}$ " Pulley Wheel |
| 1—Bush Wheel |
| 6—Collars |
| 4— $12\frac{1}{2}$ " Strips |
| 2— $3\frac{1}{2}$ " Strips |
| 3— $2\frac{1}{2}$ " Strips |
| 2— $3\frac{1}{2}$ " Angle Strips |
| 3—Angle Brackets |
| 1—Large Plate |
| 2—2" Axle Rods |
| 1— $4\frac{1}{2}$ " Crank |
| 1— $5\frac{1}{2}$ " Crank |
| 15—Nuts and Bolts |



The Platform Derrick completes the models that may be made with The American Model Builder Outfit No. 1. By purchasing Accessory Outfit No. $1\frac{1}{2}$, many additional models can be made, 59 of which are shown on the following pages.

For price of separate parts and Accessory Outfits, see pages 79 and 80.

For special Transformer and Countershaft for operating models with Electricity, see page 76.

All Models shown on this page can be made with The American Model Builder Outfit No. 1, or with No. 0 and No. $0\frac{1}{2}$ Combined.
HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

DEEP WELL PUMP

Fig. No. 174

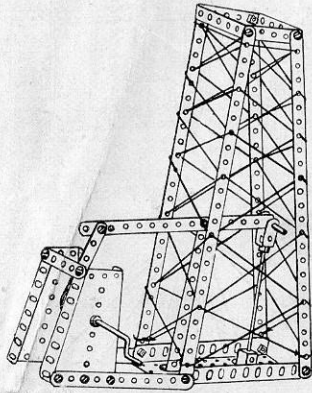
PLATFORM
LADDER

Fig. No. 175

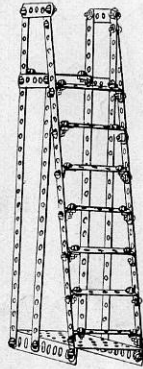
COLLAPSIBLE
FIRE LADDER

Fig. No. 176

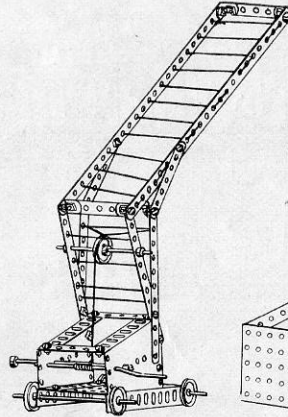
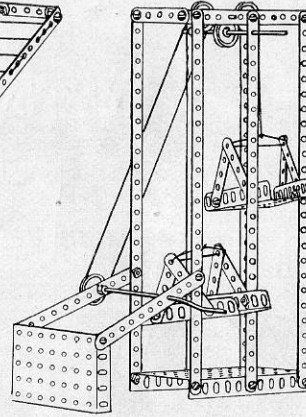
DOUBLE HOIST
ELEVATOR

Fig. No. 177



HOISTING SWIVEL DERRICK

Fig. No. 178

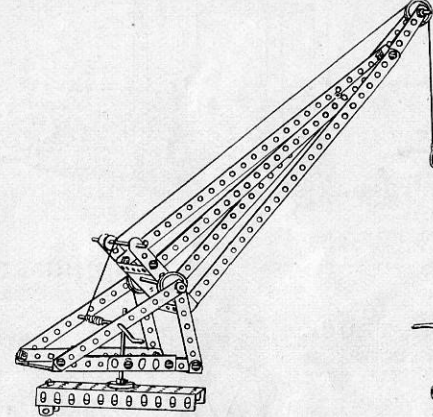
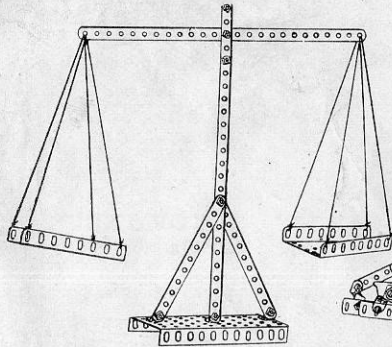
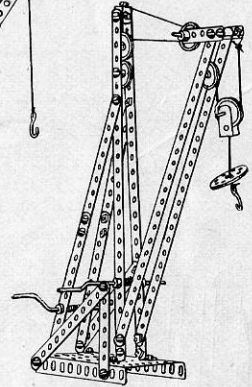
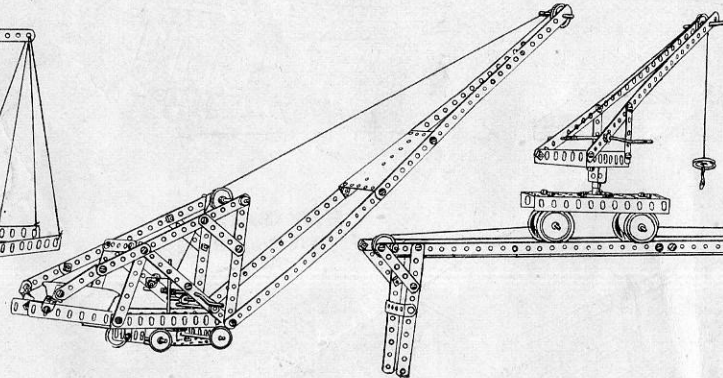
BOOM
DERRICK

Fig. No. 179



SCALES

Fig. No. 180



PORTABLE CRANE

Fig. No. 181

OVERHEAD TRAVELING AND
REVOLVING CRANE

Fig. No. 182

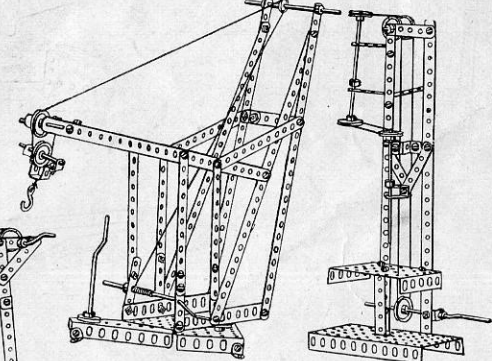
REVOLVING
DERRICK

Fig. No. 183

DRILL
PRESS

Fig. No. 184

All Models shown on this page can be made with The American Model Builder Outfit No. 2, or with No. 1 and No. 1½ Combined.
 HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

AUTO-TRUCK

Fig. No. 185

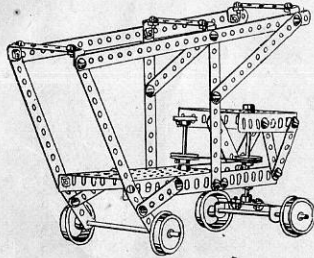
**TOURING CAR**

Fig. No. 186

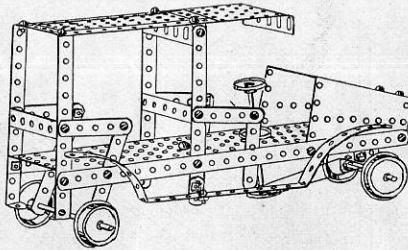
**BRIDGE**

Fig. No. 187

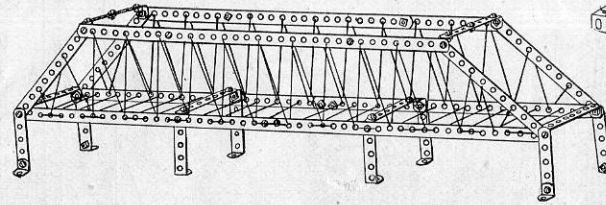
**BIPLANE**

Fig. No. 188

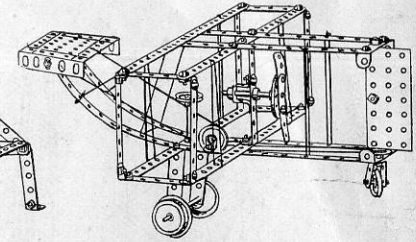
**SWINGING BRIDGE**

Fig. No. 190

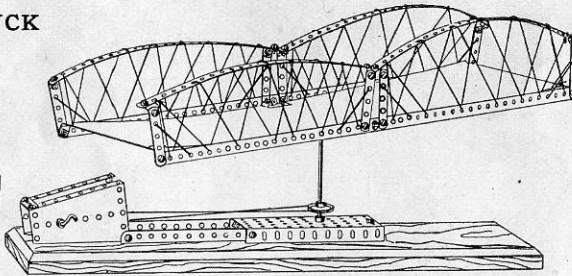
**REPAIR TRUCK**

Fig. No. 189

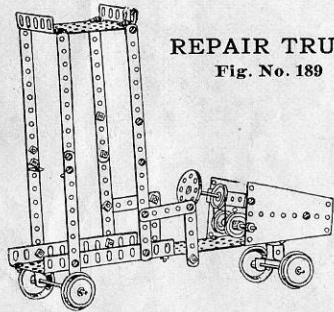
**ZEPPELIN**

Fig. No. 191

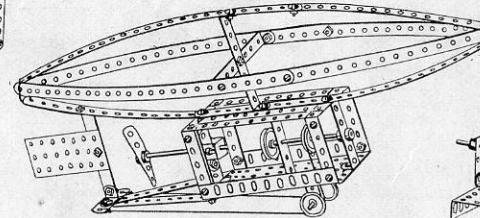
**MERRY-GO-ROUND**

Fig. No. 192

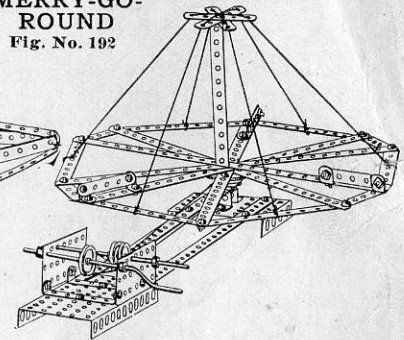
**HAY BALER**

Fig. No. 194

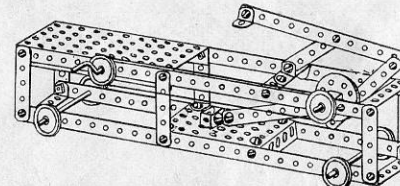
**MOTOR TRUCK**

Fig. No. 195

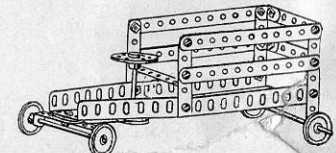
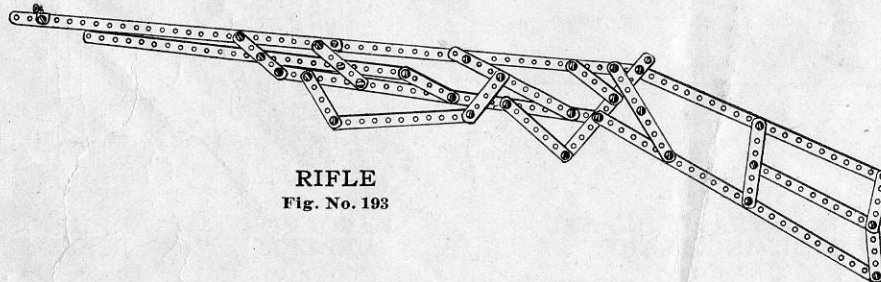
**RIFLE**

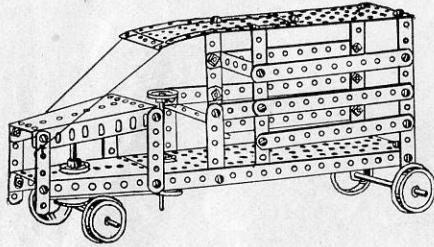
Fig. No. 193



All Models shown on this page can be made with The American Model Builder Outfit No. 2, or with No. 1 and No. 3½ Combined.
 HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

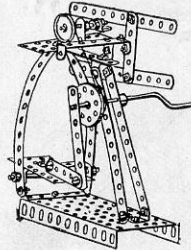
FORD DELIVERY

Fig. No. 196



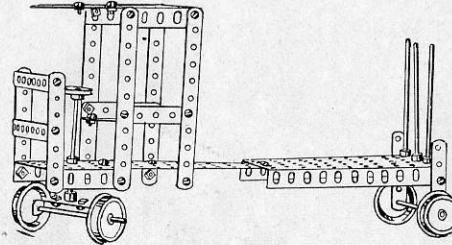
SCROLL SAW

Fig. No. 197



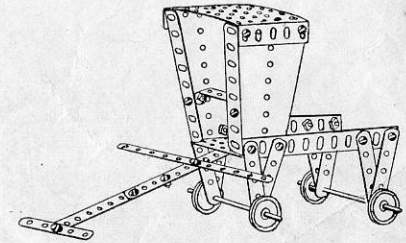
AUTO TRUCK

Fig. No. 198



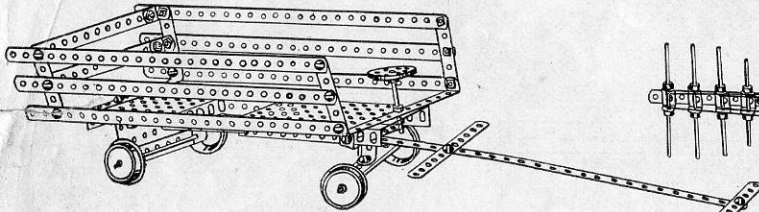
TWO-HORSE DRAY

Fig. No. 199



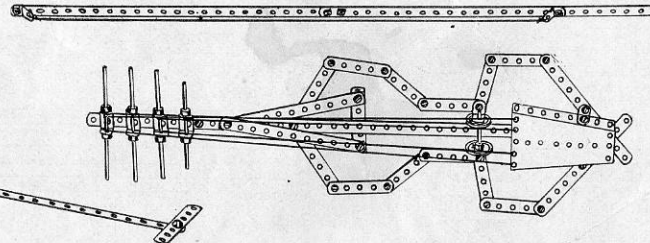
BARREL WAGON

Fig. No. 200



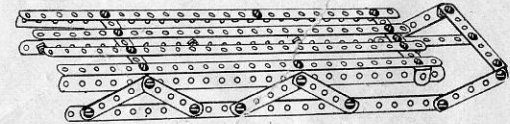
VIOLIN AND BOW

Fig. No. 201



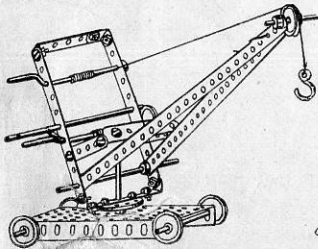
FLEXIBLE FLYER SLED

Fig. No. 202



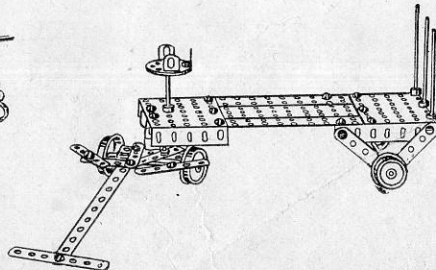
REVOLVING CRANE

Fig. No. 203



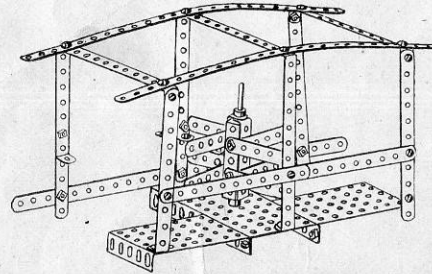
TWO-HORSE TRUCK

Fig. No. 204



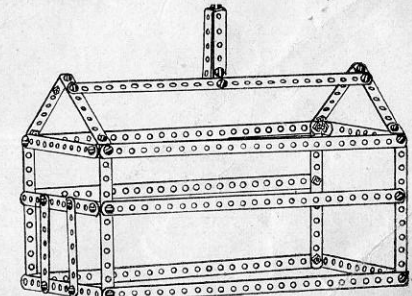
TURNSTILE

Fig. No. 205



SCHOOL HOUSE

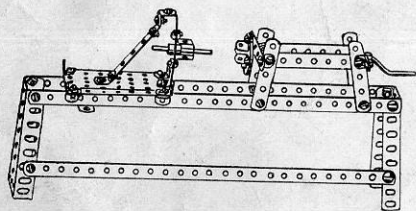
Fig. No. 206



All Models shown on this page can be made with The American Model Builder Outfit No. 2, or with No. 1 and No. 1½ Combined.
 HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

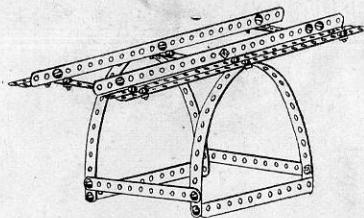
LATHE

Fig. No. 207



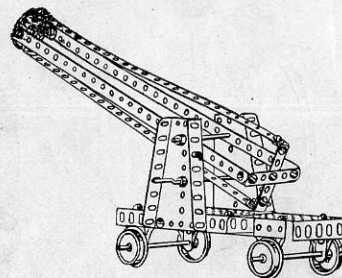
CULVERT

Fig. No. 208



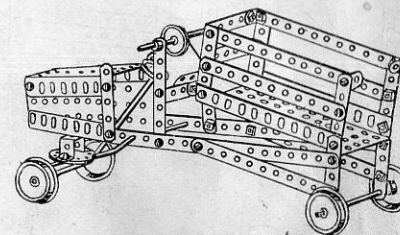
SIEGE GUN

Fig. No. 209



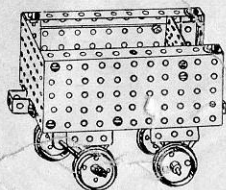
AUTO DUMP TRUCK

Fig. No. 210



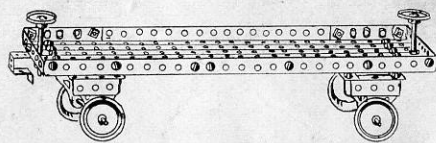
LOCOMOTIVE TENDER

Fig. No. 211



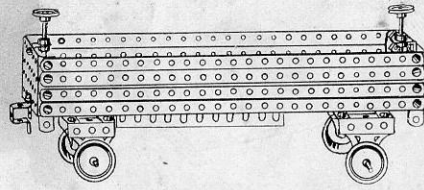
FLAT CAR

Fig. No. 212



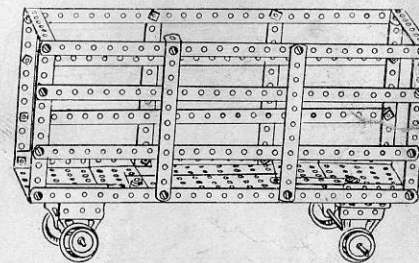
COAL CAR

Fig. No. 213



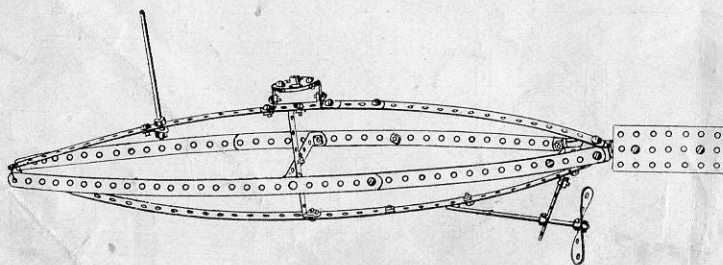
CATTLE CAR

Fig. No. 214



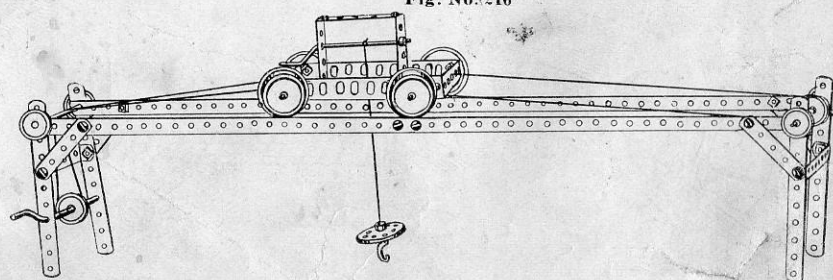
SUBMARINE

Fig. No. 215



OVERHEAD TRAVELING CRANE

Fig. No. 216



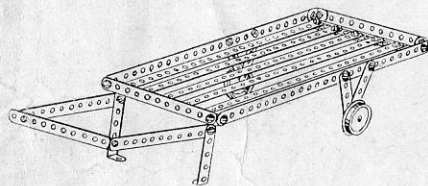
All Models shown on this page can be made with The American Model Builder Outfit No. 2, or with No. 1 and No. 1½ Combined.

HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

THE TOY FOR THE BOY

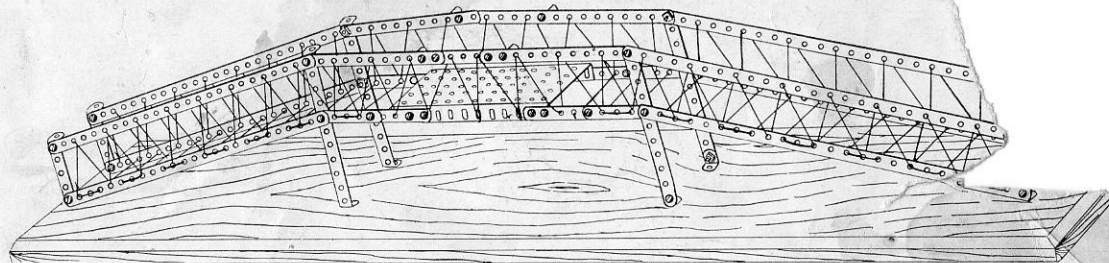
PUSH CART

Fig. No. 217



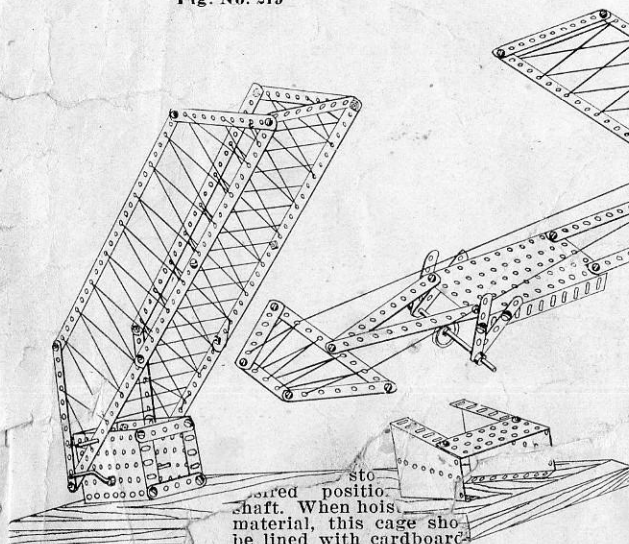
OVERHEAD CROSSING BRIDGE

Fig. No. 218



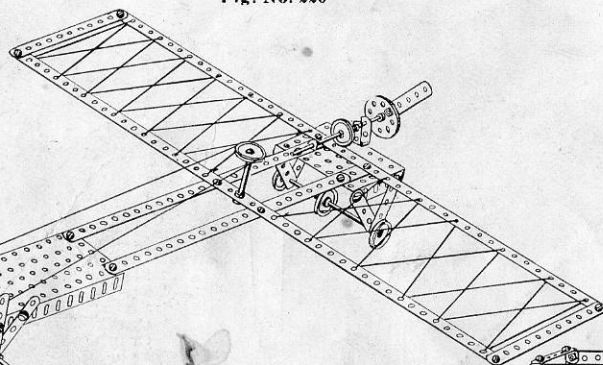
JACK-KNIFE BRIDGE

Fig. No. 219



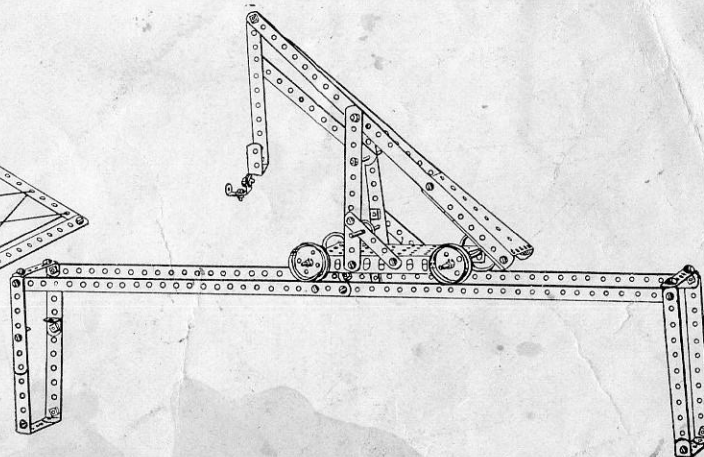
MONOPLANE

Fig. No. 220



HULETT ORE-UNLOADER

Fig. No. 221



storing position. When hoisting material, this cage should be lined with cardboard.

All Models shown on this page can be made with The American Model Builder Outfit No. 2, or with No. 1 and No. 1½ Combined.

HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

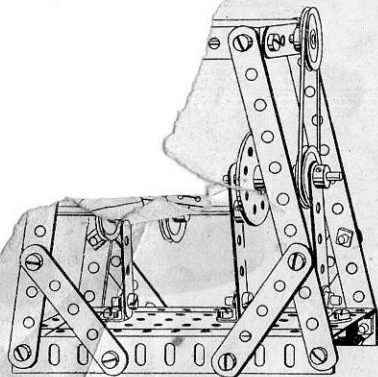
THE AMERICAN MODEL BUILDER

AND GRINDER

Fig. No. 222

PARTS REQUIRED

- 1—Large Plate
- 4—5½" Strips
- 2—3½" Strips
- 9—2½" Strips
- 1—5½" Crank
- 1—3½" Axle Rod
- 1—2" Axle Rod
- 7—Angle Brackets
- 5—1" Pulleys
- 1—Bush Wheel
- 4—Collars
- 26—Nuts and Screws

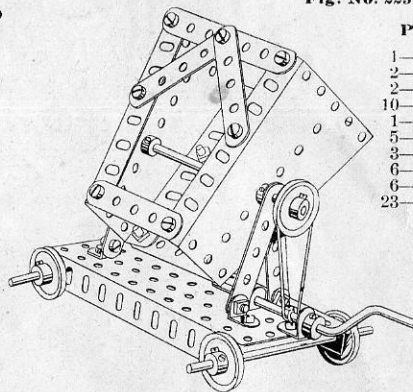


DUMP CAR

Fig. No. 223

PARTS REQUIRED

- 1—Large Plate
- 2—Sector Plates
- 2—3½" Strips
- 10—2½" Strips
- 1—4½" Crank
- 5—1" Pulleys
- 3—4½" Axle Rods
- 6—Angle Brackets
- 6—Collars
- 23—Nuts and Screws

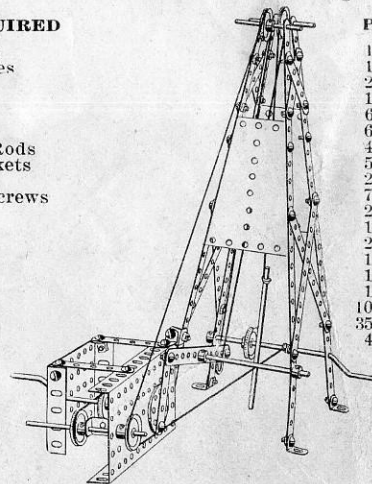


OIL WELL DRILL

Fig. No. 224

PARTS REQUIRED

- 1—Large Plate
- 1—Small Plate
- 2—Sector Plates
- 1—Bush Wheel
- 6—1" Pulleys
- 6—Collars
- 4—12½" Strips
- 5—5½" Strips
- 2—3½" Strips
- 7—2½" Strips
- 2—2" Axle Rods
- 1—3½" Axle Rod
- 2—4½" Axle Rods
- 1—4½" Crank
- 1—5½" Crank
- 1—Hook
- 10—Angle Brackets
- 35—Nuts and Screws
- 4—Wood Screws

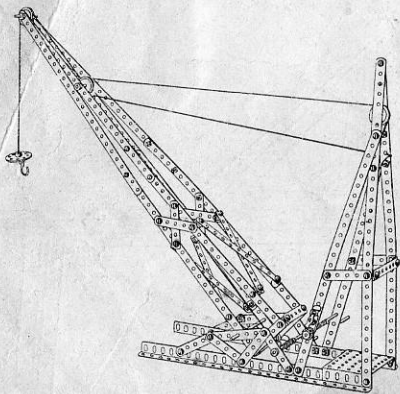


REVOLVING DERRICK

Fig. No. 225

PARTS REQUIRED

- 1—Large Plate
- 1—Small Plate
- 1—Sector Plate
- 6—1" Pulleys
- 1—½" Pulley
- 1—Bush Wheel
- 6—Collars
- 6—12½" Strips
- 6—5½" Strips
- 7—2½" Strips
- 1—Double Bent Strip
- 10—Angle Brackets
- 1—4½" Axle Rod
- 1—3½" Axle Rod
- 2—2" Axle Rods
- 1—4½" Crank
- 1—5½" Crank
- 1—Hook
- 36—Nuts and Screws
- 4—Wood Screws

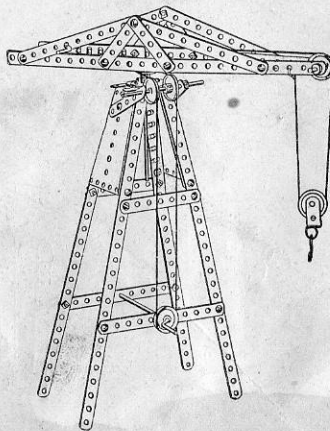


OVERHEAD ROTARY CRANE

Fig. No. 226

PARTS REQUIRED

- 1—Large Plate
- 2—Sector Plates
- 6—1" Pulleys
- 1—Bush Wheel
- 6—Collars
- 6—12½" Strips
- 6—5½" Strips
- 2—3½" Strips
- 8—2½" Strips
- 1—5½" Crank
- 1—4½" Crank
- 1—4½" Axle Rod
- 1—5½" Axle Rod
- 2—2" Axle Rods
- 2—Angle Brackets
- 1—Single Bent Strip
- 1—Hook
- 34—Nuts and Screws

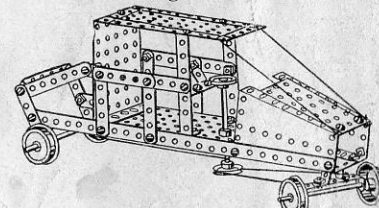


AUTO COUPE

Fig. No. 227

PARTS REQUIRED

- 1—Collar
- 3—1" Pulleys
- 4—Car Wheels
- 2—12½" Strips
- 10—2½" Strips
- 2—3½" Strips
- 2—Obtuse Angle Brackets
- 1—Large Plate
- 1—Small Plate
- 2—Sector Plates
- 1—5½" Flat Plate
- 2—3½" Flat Plates
- 2—4½" Axle Rods
- 2—4½" Axle Rods
- 1—Hook
- 35—Nuts and Screws
- 4—Wood Screws



All Models shown on this page can be made with The American Model Builder Outfit No. 2, or with No. 1 and No. 1½ Combined.

HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

REVOLVING TRAVELING CRANE

Fig. No. 228

PARTS REQUIRED

- | | |
|------------------------------|-------------------------------|
| 1—Large Plate | 3— $4\frac{1}{2}$ " Axle Rods |
| 1—Single Bent Strip | 1— $4\frac{1}{2}$ " Crank |
| 1—Double Bent Strip | 1— $5\frac{1}{2}$ " Crank |
| 2—2" Axle Rods | 1—Hook |
| 1— $3\frac{1}{2}$ " Axle Rod | 12—Angle Brackets |
| 1—Small Plate | |
| 2—Sector Plates | |
| 6—1" Pulleys | |
| 6—Collars | |
| 1—Bush Wheel | |
| 4— $12\frac{1}{2}$ " Strips | |
| 6— $5\frac{1}{2}$ " Strips | |
| 2— $3\frac{1}{2}$ " Strips | |
| 8— $2\frac{1}{2}$ " Strips | |
| 34—Nuts and Screws | |

ELEVATOR

Fig. No. 231

PARTS REQUIRED

- | |
|------------------------------|
| 1—Large Plate |
| 4— $12\frac{1}{2}$ " Strips |
| 6— $5\frac{1}{2}$ " Strips |
| 2— $3\frac{1}{2}$ " Strips |
| 6— $2\frac{1}{2}$ " Strips |
| 2—Sector Plates |
| 4—Angle Brackets |
| 1— $5\frac{1}{2}$ " Crank |
| 1— $4\frac{1}{2}$ " Axle Rod |
| 1—1" Pulley |
| 4—Collars |
| 24—Nuts and Screws |

An automatic stop can be provided for this Elevator by inserting a $4\frac{1}{2}$ " Axle Rod in the hole just above the Crank. This Axle Rod will come in contact with the Crank handle and the cage can be stopped at any desired position in the shaft. When hoisting small material, this cage should be lined with cardboard.

RAILWAY CROSSING GATES

Fig. No. 229

PARTS REQUIRED

- | | |
|-----------------------------|------------------------------|
| 2—Sector Plates | 6— $2\frac{1}{2}$ " Strips |
| 3—1" Pulleys | 1— $5\frac{1}{2}$ " Crank |
| 5—Collars | 1— $3\frac{1}{2}$ " Axle Rod |
| 4— $12\frac{1}{2}$ " Strips | 1— $4\frac{1}{2}$ " Axle Rod |
| 6— $5\frac{1}{2}$ " Strips | 8—Angle Brackets |
| 2— $3\frac{1}{2}$ " Strips | 34—Nuts and Screws |
| | 4—Wood Screws |

GUNBOAT

Fig. No. 230

PARTS REQUIRED

- | | |
|-----------------------------|-------------------------------|
| 6—Collars | 11—Angle Brackets |
| 6—1" Pulley Wheels | 1—Double Bent Strip |
| 1—Bush Wheel | 1—Large Plate |
| 6— $12\frac{1}{2}$ " Strips | 2—Sector Plates |
| 6— $5\frac{1}{2}$ " Strips | 2— $4\frac{1}{2}$ " Axle Rods |
| 9— $2\frac{1}{2}$ " Strips | 1— $3\frac{1}{2}$ " Axle Rod |
| 1—Single Bent Strip | 1—2" Axle Rod |
| | 35—Nuts and Bolts |

ENDLESS ROPE RAILWAY

Fig. No. 232

PARTS REQUIRED

- | | | |
|-------------------------------|----------------------------|--------------------|
| 1—Large Plate | 1— $5\frac{1}{2}$ " Crank | 12—Angle Brackets |
| 3— $4\frac{1}{2}$ " Axle Rods | 4— $5\frac{1}{2}$ " Strips | 4—Collars |
| 6—1" Pulleys | 6— $2\frac{1}{2}$ " Strips | 16—Nuts and Screws |

In the drawing of the Endless Rope Railway we show the two ends closely set together. In actual practice, these should be set apart and mounted on a board, as the truck will travel back and forth any distance and it is only necessary to extend the length of the cord.

The Endless Rope Railway completes the models which can be made with The American Model Builder Outfit No. 2. By purchasing Accessory Outfit No. 2½, many more Models can be made, 39 of which are shown on the following pages.

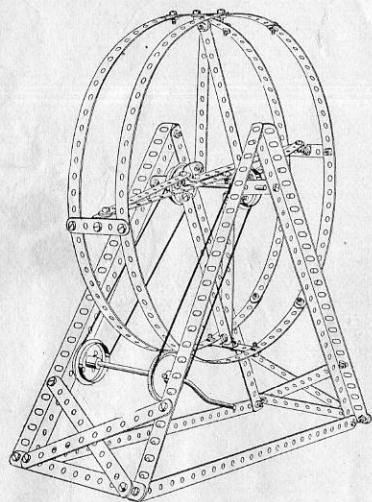
For price of separate parts and Accessory Outfits, see pages 79 and 80. For special Motors, Transformers and Countershaft for operating Models by Electricity, see page 76.

All Models shown on this page can be made with The American Model Builder Outfit No. 2, or with No. 1 and No. 1½ Combined.

HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

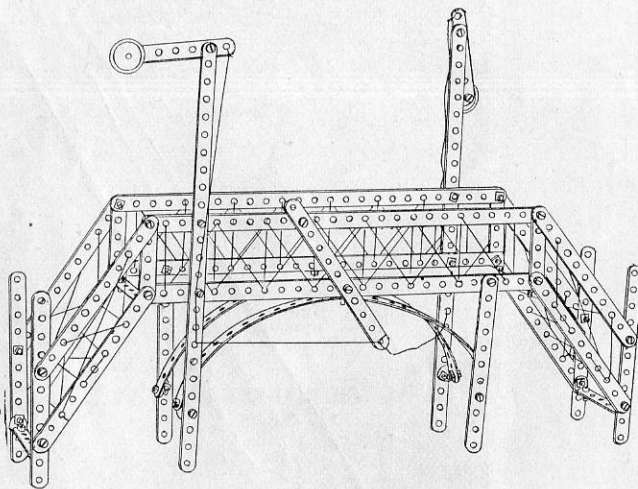
REVOLVING WHEEL

Fig. No. 233



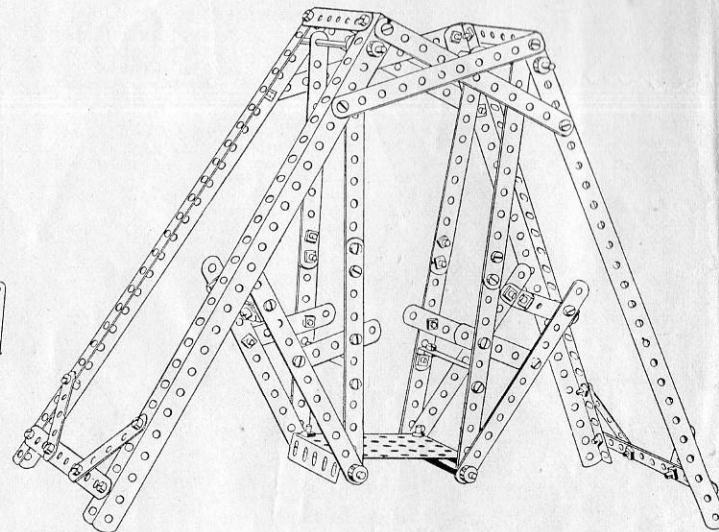
RAILWAY SIGNAL BRIDGE

Fig. No. 234



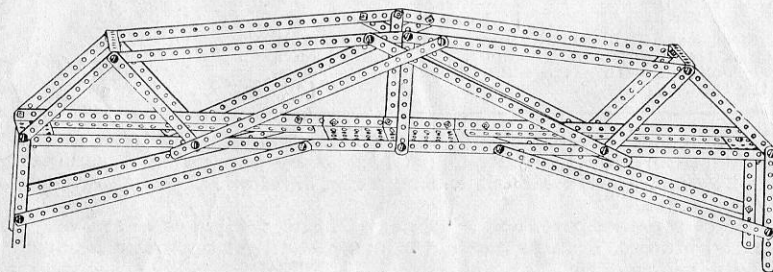
LAWN SWING

Fig. No. 235



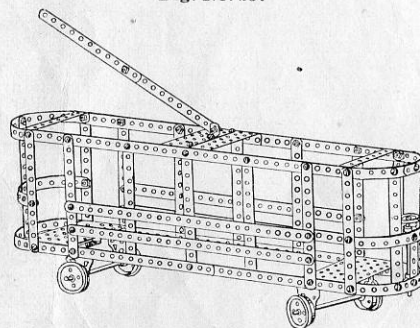
BRIDGE

Fig. No. 236



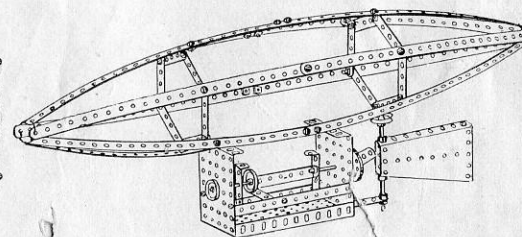
TROLLEY CAR

Fig. No. 237



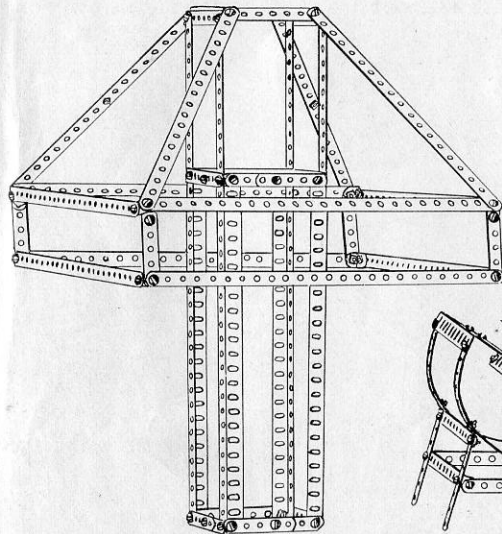
DIRIGIBLE

Fig. No. 238

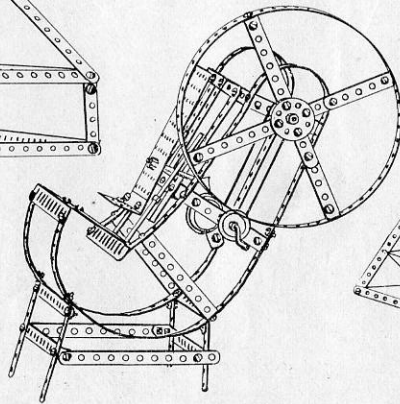


All Models shown on this page can be made with The American Model Builder Outfit No. 3, or with No. 2 and No. 2½ Combined.
 HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

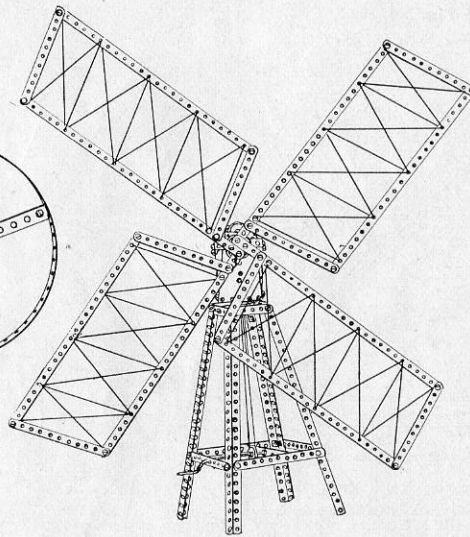
LAMP
Fig. No. 239



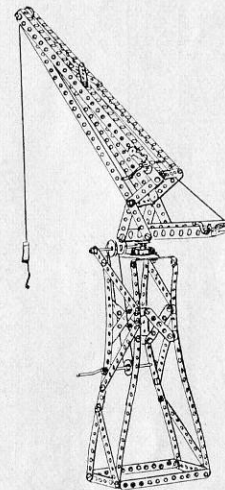
PUNCH PRESS
Fig. No. 240



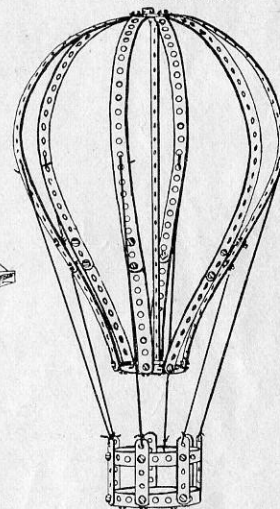
WIND MILL
Fig. No. 241



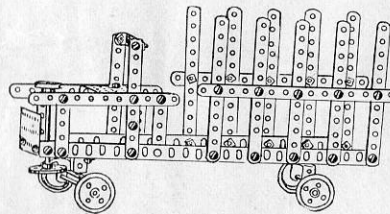
PANAMA DERRICK
Fig. No. 242



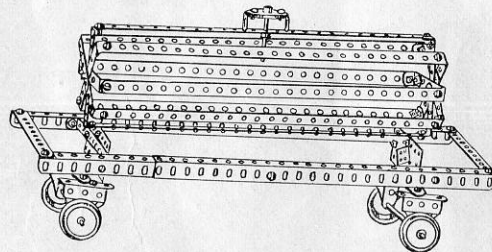
BALLOON
Fig. No. 243



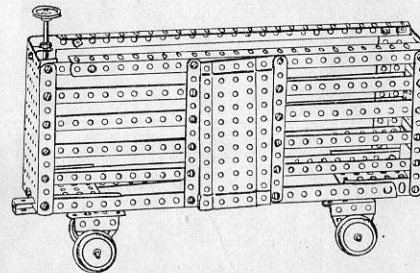
AUTO TRUCK
Fig. No. 244



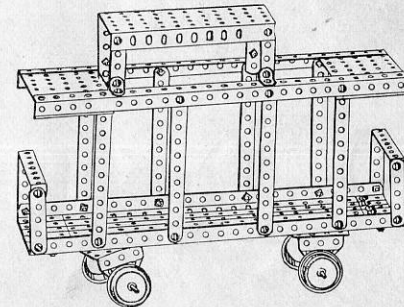
TANK CAR
Fig. No. 245



BOX CAR
Fig. No. 246



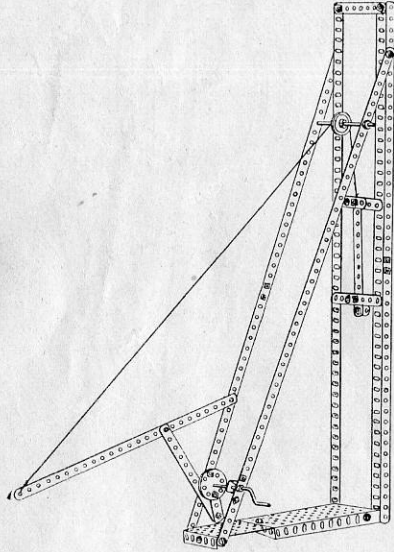
CABOOSE
Fig. No. 247



All Models shown on this page can be made with The American Model Builder Outfit No. 3, or with No. 2 and No. 2½ Combined.
HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

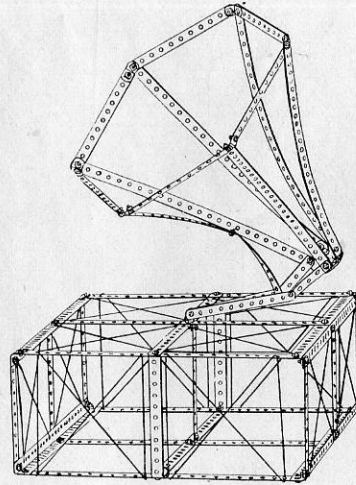
PILE DRIVER

Fig. No. 248



GRAPHOPHONE

Fig. No. 249



BASCULE BRIDGE

Fig. No. 250

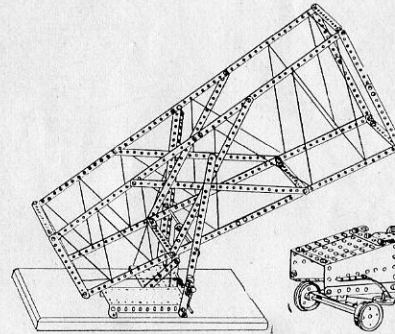
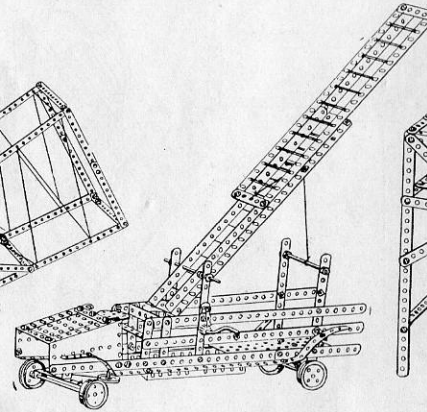
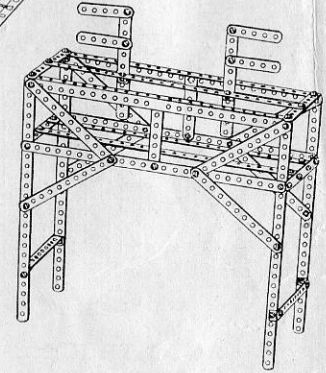
EXTENSION AUTO
FIRE LADDER

Fig. No. 251



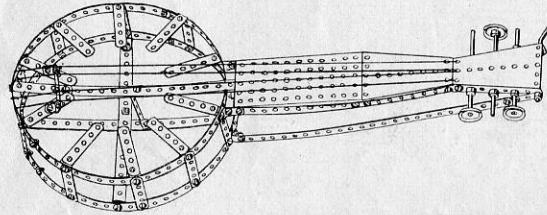
SEMAPHORE

Fig. No. 252



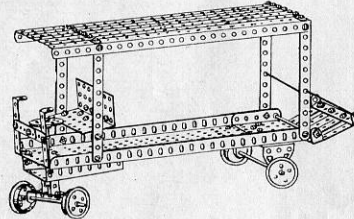
BANJO

Fig. No. 253



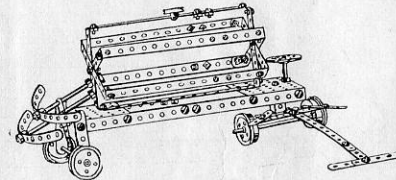
AUTO FURNITURE VAN

Fig. No. 254



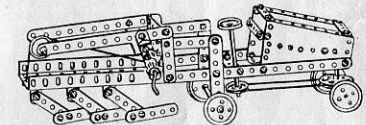
SPRINKLING CART

Fig. No. 255



MOTOR PLOW

Fig. No. 256

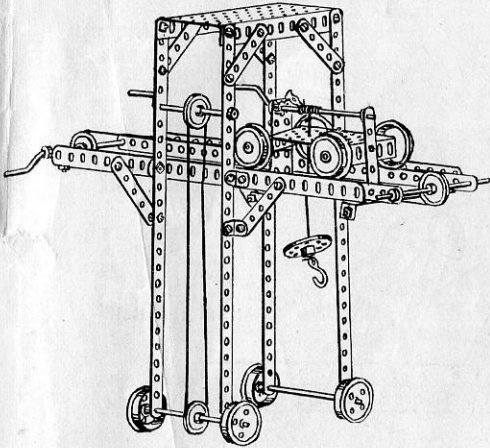


All Models shown on this page can be made with The American Model Builder Outfit No. 3, or with No. 2 and No. 2½ Combined.

HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

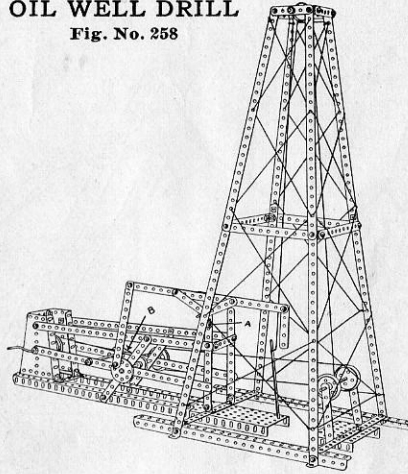
GANTRY CRANE

Fig. No. 257



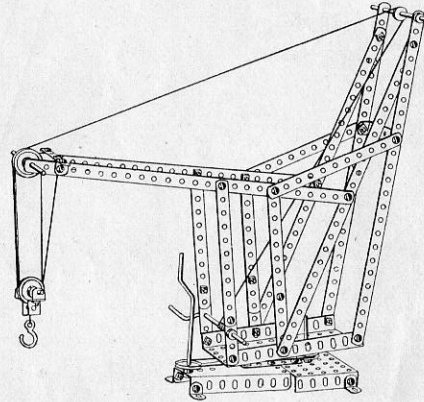
OIL WELL DRILL

Fig. No. 258



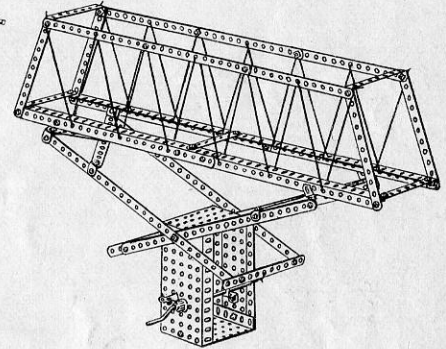
PLATFORM DERRICK

Fig. No. 259



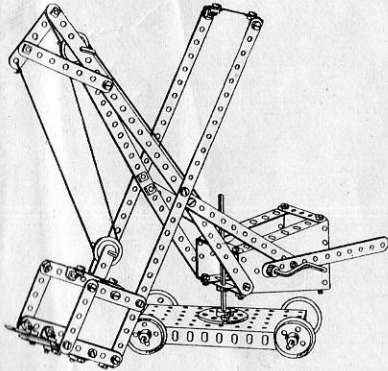
HOIST BRIDGE

Fig. No. 260



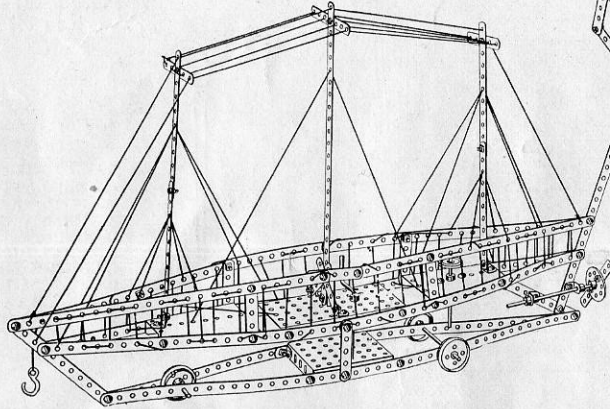
REVOLVING SCOOP

Fig. No. 261



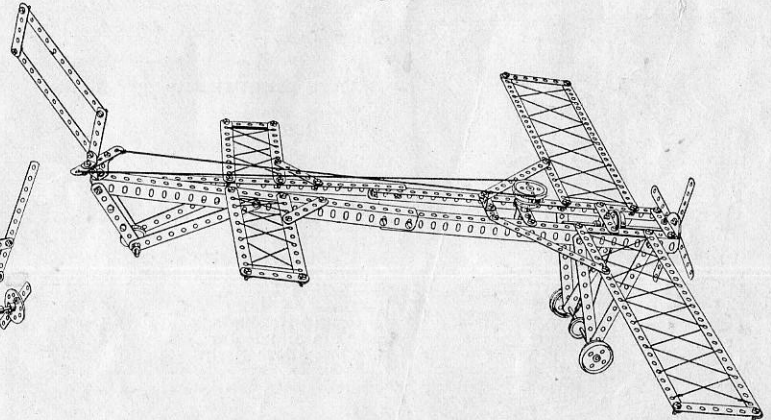
SCHOONER

Fig. No. 262



BLERIOT MONOPLANE

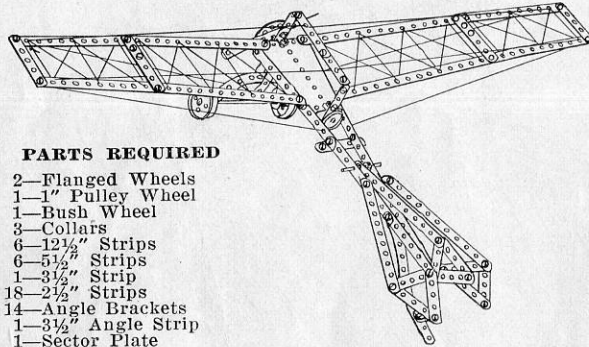
Fig. No. 263



All Models shown on this page can be made with The American Model Builder Outfit No. 3, or with No. 2 and No. 2½ Combined.
 HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

ANTOINETTE MONOPLANE

Fig. No. 264

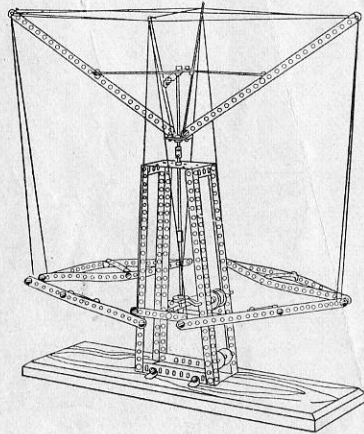


PARTS REQUIRED

- 2—Flanged Wheels
- 1—1" Pulley Wheel
- 1—Bush Wheel
- 3—Collars
- 6—12 1/2" Strips
- 6—5 1/2" Strips
- 1—3 1/2" Strip
- 18—2 1/2" Strips
- 14—Angle Brackets
- 1—3 1/2" Angle Strip
- 1—Sector Plate
- 1—5" Axle Rod
- 1—4 1/2" Axle Rod
- 1—2" Axle Rod
- 53—Nuts and Bolts

CIRCLE SWING

Fig. No. 266

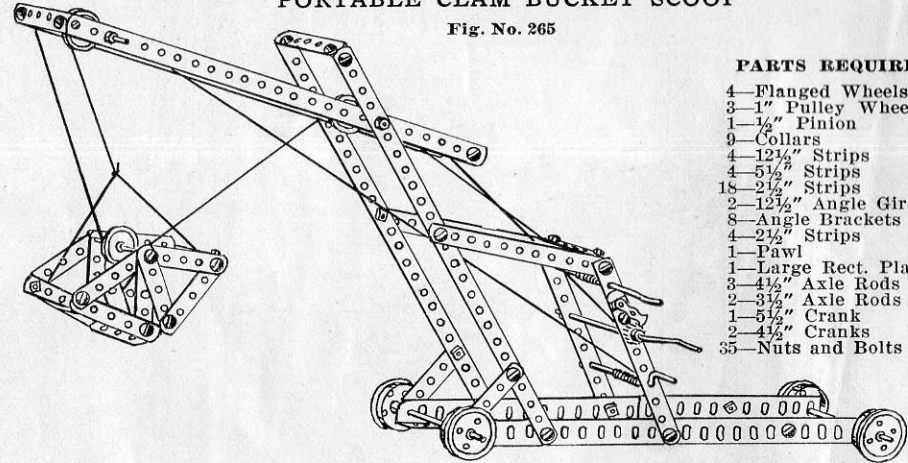


PARTS REQUIRED

- 1—Large Plate
- 1—Small Plate
- 4—12 1/2" Angle Girders
- 12—12 1/2" Strips
- 6—5 1/2" Strips
- 1—2 1/2" Strip
- 1—5 1/2" Crank
- 3—5" Rods
- 1—3 1/2" Rod
- 5—1" Pulley Wheels
- 2—Shaft Connectors
- 8—Collars
- 1—Bush Wheel
- 22—Angle Brackets
- 52—Nuts and Bolts
- 4—2 1/2" Angle Strips

PORTABLE CLAM BUCKET SCOOP

Fig. No. 265

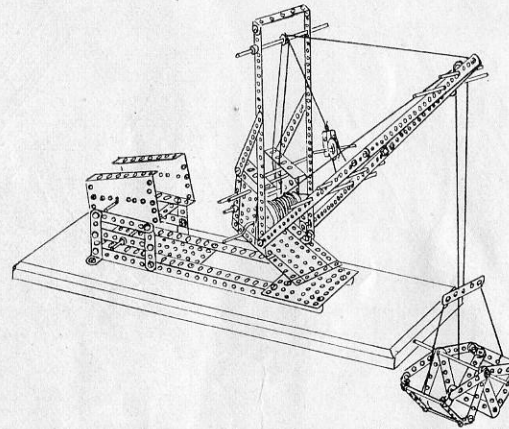


PARTS REQUIRED

- 4—Flanged Wheels
- 3—1" Pulley Wheels
- 1—1/2" Pinion
- 9—Collars
- 4—12 1/2" Strips
- 4—5 1/2" Strips
- 18—2 1/2" Strips
- 2—12 1/2" Angle Girders
- 8—Angle Brackets
- 4—2 1/2" Strips
- 1—Pawl
- 1—Large Rect. Plate
- 3—4 1/2" Axle Rods
- 2—3 1/2" Axle Rods
- 1—5 1/2" Crank
- 2—4 1/2" Cranks
- 35—Nuts and Bolts

REVOLVING CLAM BUCKET SCOOP

Fig. No. 267



PARTS REQUIRED

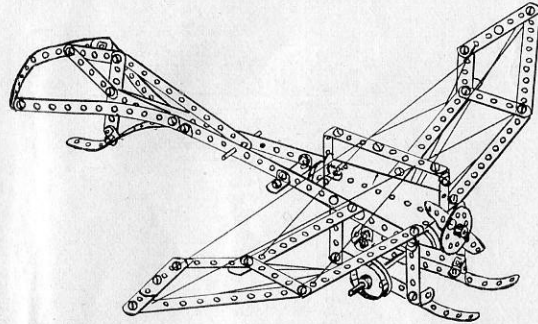
- 4—Car Wheels
- 4—Truck Frames
- 4—"T" Strips
- 2—Bolster Plates
- 4—1" Pulley Wheels
- 1—Bush Wheel
- 9—Collars
- 6—12 1/2" Strips
- 6—5 1/2" Strips
- 9—2 1/2" Strips
- 4—2 1/2" Angle Strips
- 2—12 1/2" Angle Girders
- 7—Angle Brackets
- 1—Double Bent Strip
- 1—Single Bent Strip
- 2—Small Rect. Plates
- 2—Sector Plates
- 2—3 1/2" Flat Plates
- 1—5 1/2" Flat Plate
- 3—4 1/2" Axle Rods
- 1—3 1/2" Axle Rod
- 3—2" Axle Rods
- 1—5 1/2" Crank
- 1—4 1/2" Crank
- 2—Washers
- 60—Nuts
- 58—Bolts

All Models shown on this page can be made with The American Model Builder Outfit No. 3, or with No. 2 and No. 2 1/2 Combined.

HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

TAUBE MONOPLANE

Fig. No. 268



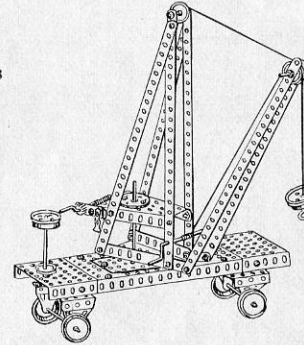
PARTS REQUIRED

- | | |
|------------------|-----------------------|
| 2—Flanged Wheels | 13—Angle Brackets |
| 1—1" Pulley | 1—2 1/2" Angle Strip |
| 1—Bush Wheel | 2—3 1/2" Angle Strips |
| 3—Collars | 1—Sector Plate |
| 2—12 1/4" Strips | 1—5" Axle Rod |
| 13—5 1/2" Strips | 1—4 1/2" Axle Rod |
| 1—3 1/2" Strip | 1—2" Axle Rod |
| 20—2 1/2" Strips | 55—Nuts and Bolts |

The Taube Monoplane is a very interesting model to build. It is an exact duplicate of the machines being used exclusively in the German army. The cords will take the place of the wires used in the original machine, and cardboard can be fastened to the wings to make them more realistic.

R. R. WRECKING DERRICK

Fig. No. 269



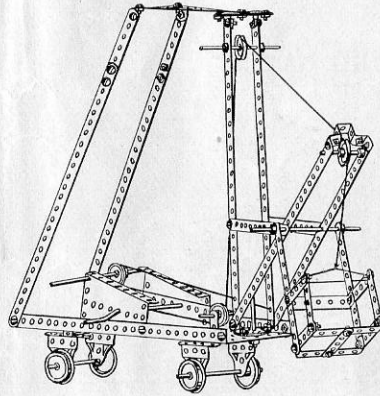
PARTS REQUIRED

- | | |
|-------------------------|----------------------|
| 2—Flanged Wheels | 1—Pawl |
| 4—Car Wheels | 1—Hook |
| 4—Truck Frames | 2—Small Rect. Plates |
| 4—"T" Strips | 2—Sector Plates |
| 2—Bolster Plates | 2—3 1/2" Flat Plates |
| 5—1" Pulleys | 1—5 1/2" Flat Plate |
| 1—Bush Wheel | 3—4 1/2" Axle Rods |
| 1—1/2" Pinion | 1—3 1/2" Axle Rod |
| 7—Collars | 2—2" Axle Rods |
| 6—12 1/4" Strips | 1—5 1/2" Crank |
| 4—2 1/2" Strips | 1—4 1/2" Crank |
| 2—12 1/4" Angle Girders | 2—Washers |
| 2—3 1/2" Angle Strips | 29—Nuts and Bolts |

The Railroad Steam Shovel is similar to those in daily use by the railroads in loading cars with ballast at the gravel pits, to be used in the building and maintenance of their lines. The wheels on this model can be adjusted, so as to be used in connection with an Electric Train.

R. R. STEAM SHOVEL

Fig. No. 270

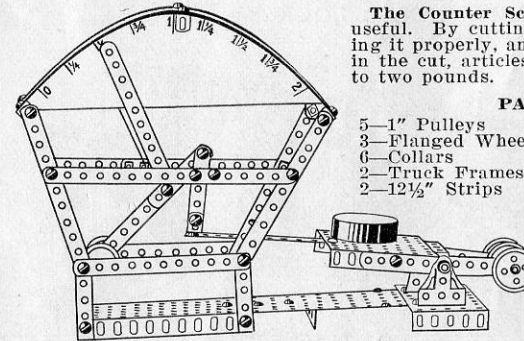


PARTS REQUIRED

- | | |
|-------------------------|----------------------|
| 4—Car Wheels | 1—Double Bent Strip |
| 4—Truck Frames | 1—Single Bent Strip |
| 4—"T" Strips | 2—Small Rect. Plates |
| 2—Bolster Plates | 2—Sector Plates |
| 4—1" Pulleys | 2—3 1/2" Flat Plates |
| 1—Bush Wheel | 1—5 1/2" Flat Plate |
| 9—Collars | 3—4 1/2" Axle Rods |
| 6—12 1/4" Strips | 1—3 1/2" Axle Rod |
| 6—5 1/2" Strips | 3—2" Axle Rods |
| 9—2 1/2" Strips | 1—5 1/2" Crank |
| 2—12 1/4" Angle Girders | 1—4 1/2" Crank |
| 4—2 1/2" Angle Strips | 2—Washers |
| 7—Angle Brackets | 60—Nuts |
| | 58—Bolts |

COUNTER SCALES

Fig. No. 271



The Counter Scales are not only ornamental, but useful. By cutting a piece of cardboard, and marking it properly, and fastening it in position as shown in the cut, articles can be weighed with accuracy up to two pounds.

PARTS REQUIRED

- | | |
|------------------|-----------------------|
| 5—1" Pulleys | 13—5 1/2" Strips |
| 3—Flanged Wheels | 3—3 1/2" Strips |
| 6—Collars | 8—2 1/2" Strips |
| 2—Truck Frames | 2—3 1/2" Flat Plates |
| 2—12 1/4" Strips | 1—5 1/2" Flat Plate |
| | 2—Small Rect. Plates |
| | 1—Large Rect. Plate |
| | 1—Sector Plate |
| | 2—2" Axle Rods |
| | 2—3 1/2" Axle Rods |
| | 2—Angle Brackets |
| | 13—Nuts and Bolts |
| | 2—2 1/2" Angle Strips |



The Counter Scale completes the models that may be made with The American Model Builder Outfit No. 3. By purchasing Accessory Outfit No. 3 1/2, many more models can be made, 43 of which are shown on the following pages. For price of separate parts and Accessory Outfits see pages 79 and 80. For special Motors, Transformers and Countershaft for operating Models by Electricity, see page 76.

All Models shown on this page can be made with The American Model Builder Outfit No. 3, or with No. 2 and No. 2 1/2 Combined.

HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

BARGE DREDGE

Fig. No. 272

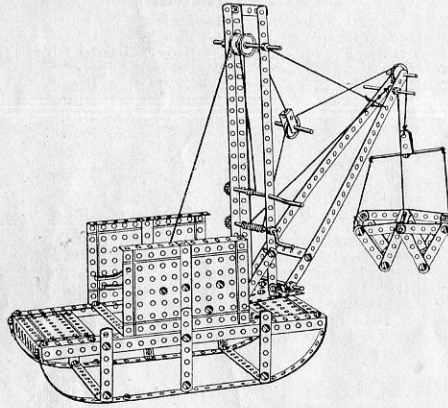
**CONVEYOR**

Fig. No. 273

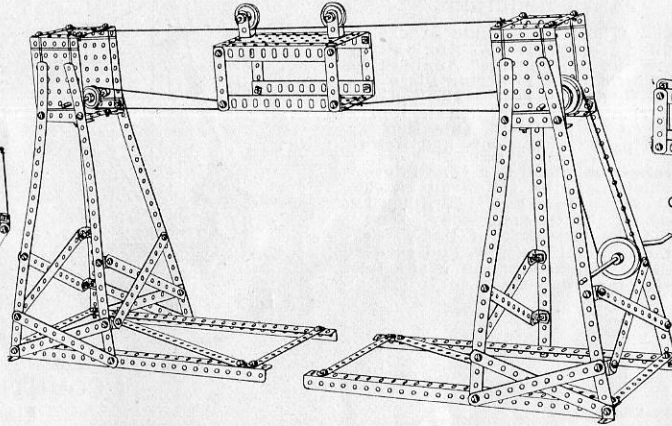
**TITAN CRANE**

Fig. No. 274

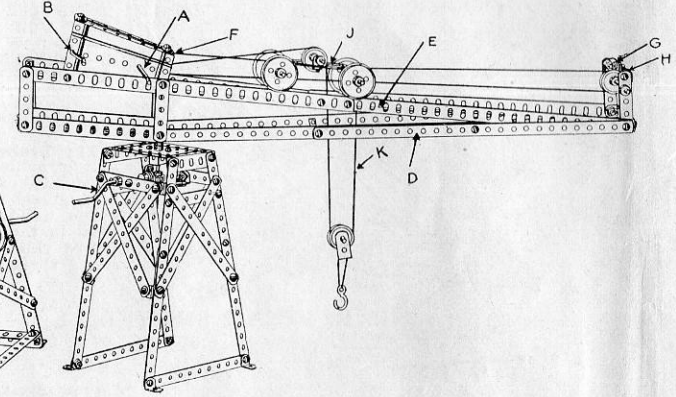
**PANAMA CANAL LOCK**

Fig. No. 275

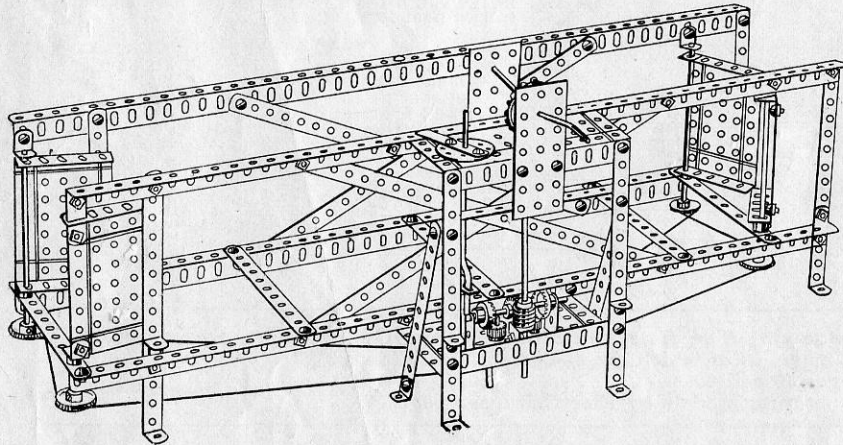
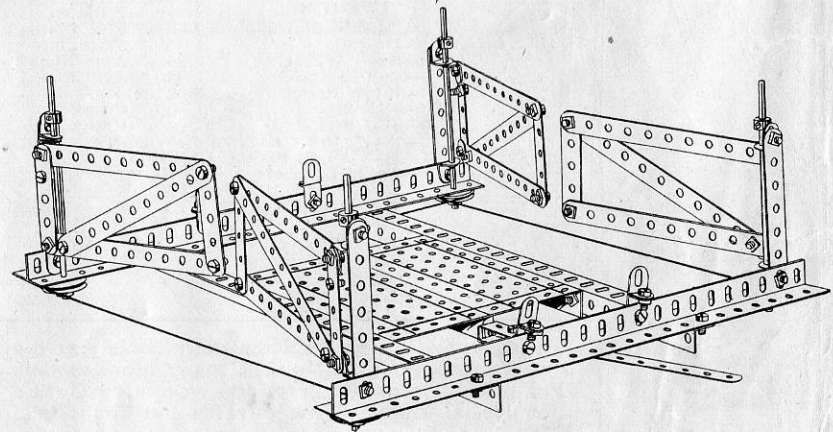
**R. R. CROSSING GATES**

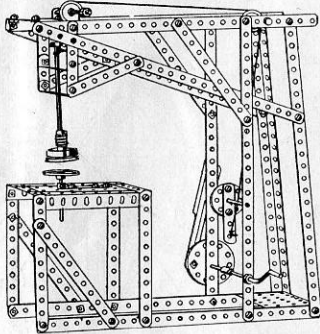
Fig. No. 276



All Models shown on this page can be made with The American Model Builder Outfit No. 4, or with No. 3 and No. 3½ Combined.
 HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

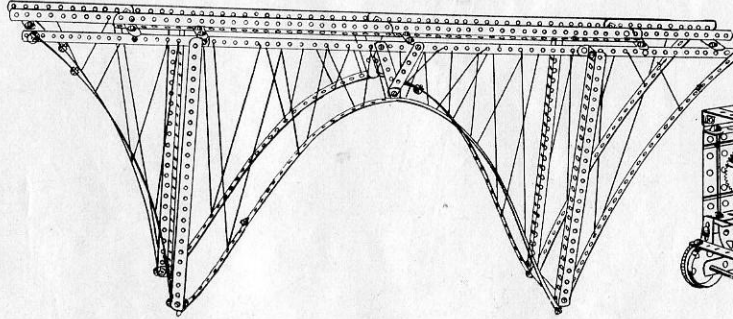
TRIP HAMMER

Fig. No. 277



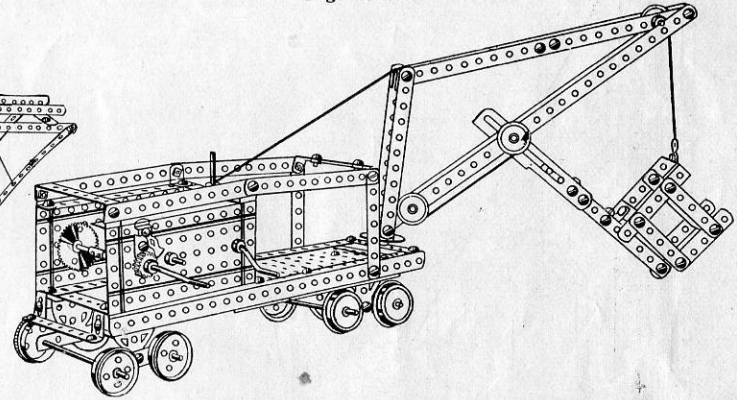
RAILROAD TRESTLE

Fig. No. 278



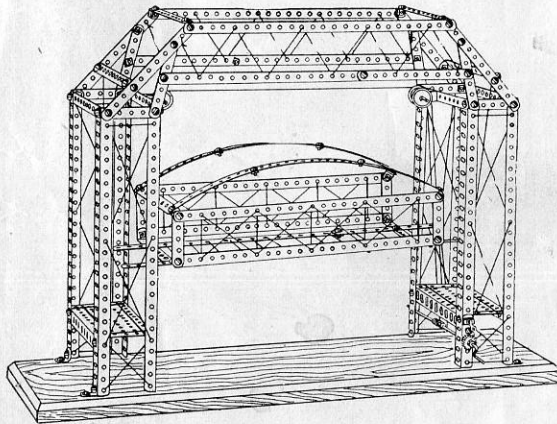
STEAM SHOVEL

Fig. No. 279



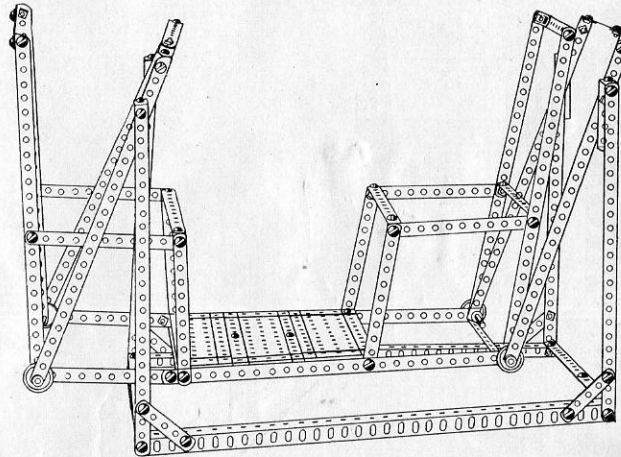
LIFT BRIDGE

Fig. No. 280



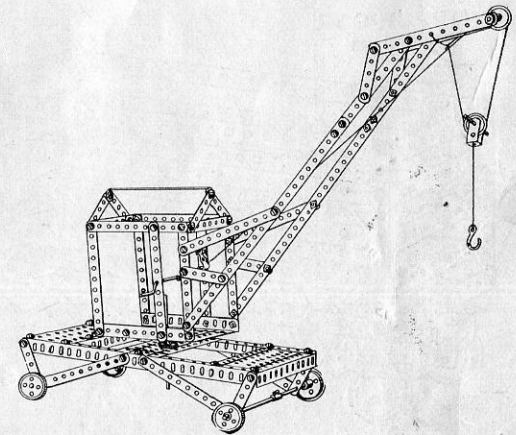
PORCH SWING

Fig. No. 281

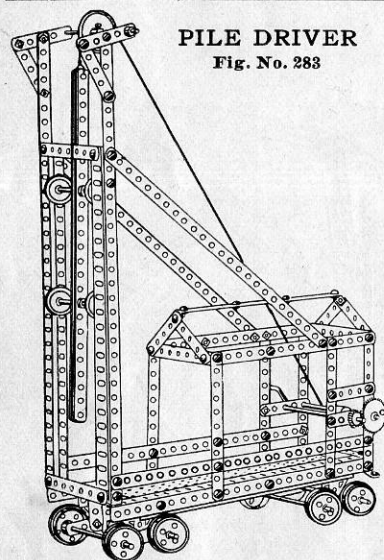


R. R. WRECKING CAR

Fig. No. 282

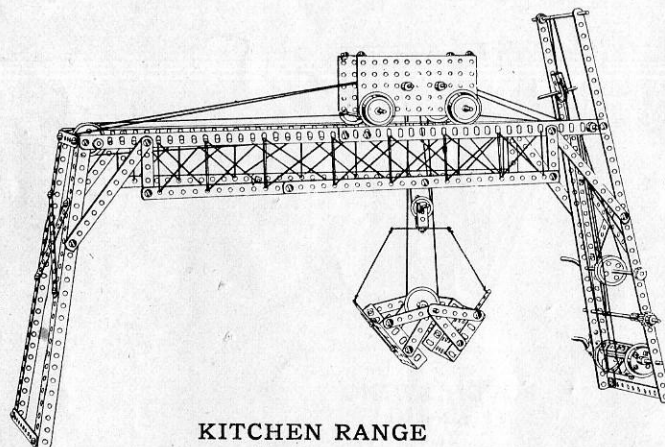


All Models shown on this page can be made with The American Model Builder Outfit No. 4, or with No. 3 and No. 3½ Combined.
 HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.



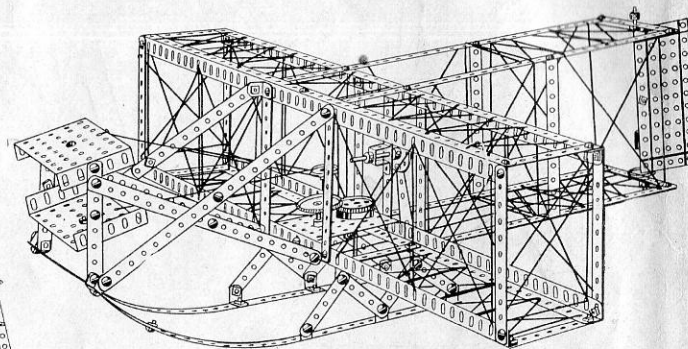
PILE DRIVER

Fig. No. 283



IRON ORE UNLOADER

Fig. No. 284

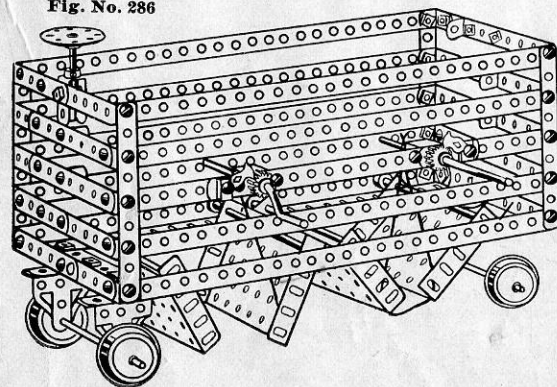


BIPLANE

Fig. No. 285

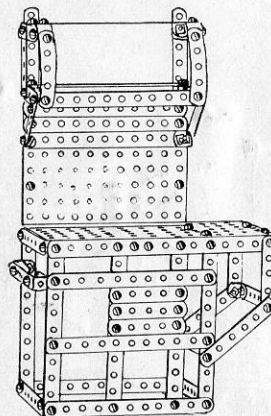
HOPPER CAR

Fig. No. 286



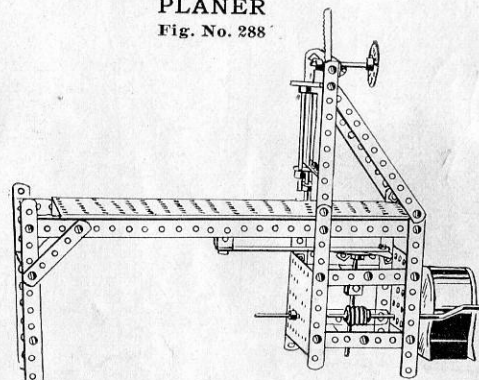
KITCHEN RANGE

Fig. No. 287



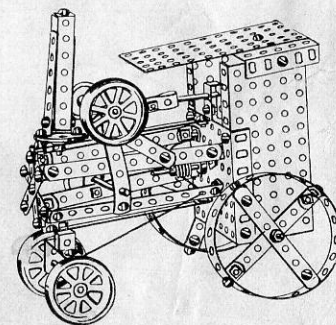
PLANER

Fig. No. 288



TRACTION ENGINE

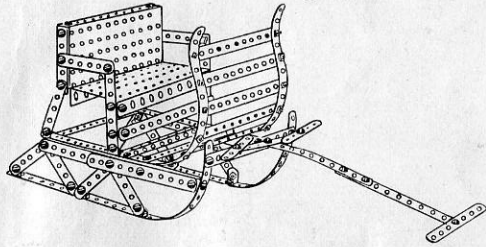
Fig. No. 289



All Models shown on this page can be made with The American Model Builder Outfit No. 4, or with No. 3 and No. 3½ Combined.
HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

SLEIGH

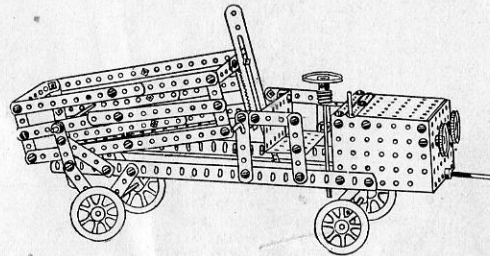
Fig. No. 303

**PARTS REQUIRED**

- 4—12½" Strips
- 16—5½" Strips
- 4—3½" Strips
- 2—3" Strips
- 14—2½" Strips
- 2—5½" Angle Strips
- 23—Angle Brackets
- 2—Large Plates
- 78—Nuts and Bolts

AUTO DUMPING TRUCK

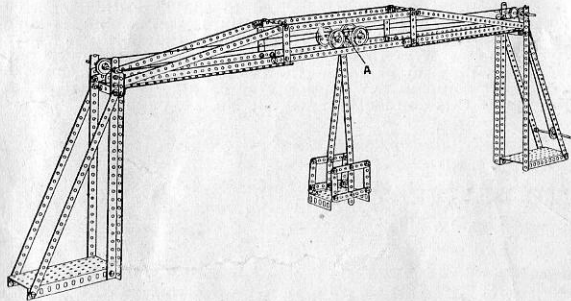
Fig. No. 304

**PARTS REQUIRED**

- | | |
|------------------|----------------------|
| 1—1½" Pulley | 2—3½" Angle Strips |
| 2—1" Pulleys | 2—12½" Angle Girders |
| 2—¾" Pinions | 14—Angle Brackets |
| 1—½" Pinion | 1—Large Bent Strip |
| 1—1½" Gear Wheel | 4—Small Plates |
| 1—Worm Wheel | 2—3½" Flat Plates |
| 4—Auto Wheels | 3—5" Rods |
| 8—Collars | 2—4½" Rods |
| 16—5½" Strips | 1—5½" Crank |
| 6—3½" Strips | 1—4½" Crank |
| 2—3" Strips | 1—Oscillating Rack |
| 20—2½" Strips | 76—Nuts and Bolts |

FERRY

Fig. No. 305

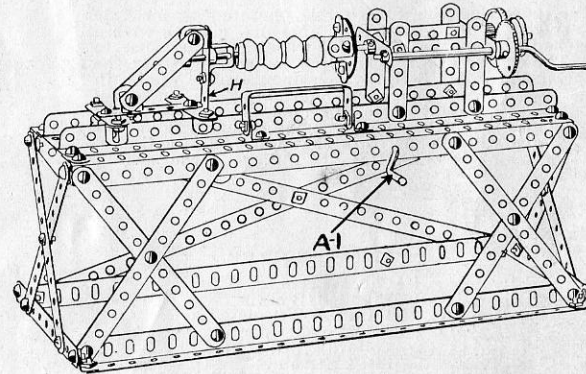
**PARTS REQUIRED**

- 8—12½" Angle Girders
- 12—12½" Strips
- 6—3½" Strips
- 15—2½" Strips
- 2—Large Plates
- 1—Small Plate
- 2—4½" Axles
- 2—2" Axles
- 1—5½" Crank
- 4—Flanged Wheels
- 4—1" Pulleys
- 10—Collars
- 20—Angle Brackets
- 70—Nuts and Screws

This Model of a Ferry demonstrates the principle of transporting material from one side of a stream to another, and when completed is about four feet wide. The upright bracing for the carrying truck is made of six 12½" Strips, fastened together with six 2½" Strips, as shown in the cut. In attaching the 2½" upright Strips to the 12½" Angle Girders, which form the track, Angle Brackets should be used at the bottom so as to give sufficient clearance for the wheels as they move back and forth. The carriage is simple and needs no particular explanation.

TURNING LATHE

Fig. No. 306

**PARTS REQUIRED**

- 6—12½" Angle Girders
- 14—5½" Strips
- 2—3½" Strips
- 16—2½" Strips
- 1—Large Bent Strip
- 1—Double Bent Strip
- 1—Single Bent Strip
- 1—2" Axle Rod
- 1—5" Axle Rod
- 2—5½" Cranks
- 1—Oscillating Rack
- 1—½" Pinion
- 1—¾" Pinion
- 1—1½" Gear
- 1—1½" Pulley
- 1—1" Pulley
- 6—Collars
- 1—Bush Wheel
- 28—Angle Brackets
- 85—Nuts and Screws

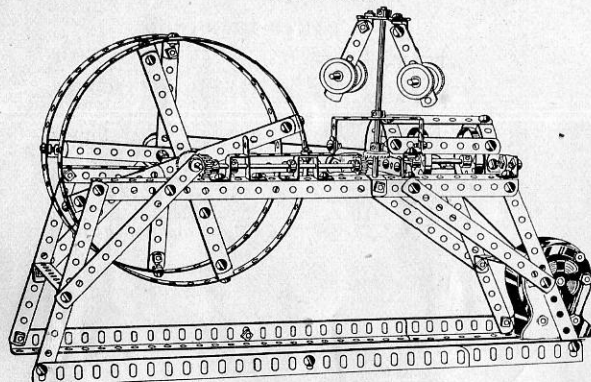
The Turning Lathe is one of the most practical models shown and can be used for turning up soft material. In the cut, we show a candle turned up in the form of a pillar. The frame work needs no explanation. The article to be turned is held securely in position between the Double Bent Strip and the Angle Brackets attached to the Bush Wheel. The 5½" Crank at the side furnishes the power. To this is attached a 1½" Gear Wheel which meshes with the ¾" Crown, fastened to the main Axle. At the end of this Axle Rod is attached the Bush Wheel which forms the Chuck for the Lathe. When a Candle is inserted in the Chuck, same can be turned with the use of a dull knife or screw driver held against the Large Bent Strip.

All Models shown on this page can be made with The American Model Builder Outfit No. 4, or with No. 3 and No. 3½ Combined.

HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

GAS ENGINE WITH GOVERNOR

Fig. No. 307



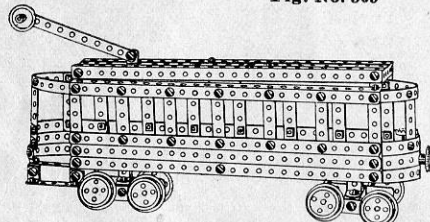
PARTS REQUIRED

- 1—1½" Pulley
- 6—1" Pulleys
- 1—Bush Wheel
- 2—½" Pinions
- 2—¾" Crown Gears
- 2—Auto Wheels
- 11—Collars
- 4—12½" Strips
- 17—5½" Strips
- 6—3½" Strips
- 6—2½" Strips
- 1—2½" Angle Strip
- 2—5½" Angle Strips
- 6—12½" Angle Girders
- 21—Angle Brackets
- 1—Single Bent Strip
- 2—Double Bent Strips
- 1—Large Bent Strip
- 2—5" Rods
- 2—4½" Rods
- 4—2" Rods
- 1—4½" Crank
- 2—Shaft Connectors
- 80—Nuts and Bolts

In building the Gas Engine, note that the governor is operated by an Axle Rod, at each end of which is attached a ½" Pinion, one of which meshes with a ¾" Crown Gear, which is attached to the axle of the fly-wheel and the other to the axle rod of the governor. The engine crank is used as the axle between the two fly-wheels, and to this is attached a 5½" Strip, which operates the piston in the front part of the engine, as shown by cut No. 14 on page 75. For Connecting Governor, see cut No. 11, page 75. The model is operated by a 4½" Crank mounted on the far side of the frame of the engine, having bearings on the frame and on one of the 3½" Strips which constitute the wall of the cylinder. On this is mounted a 1½" Pulley which is belted to a 1" Pulley on the axle of the engine.

STREET CAR

Fig. No. 309

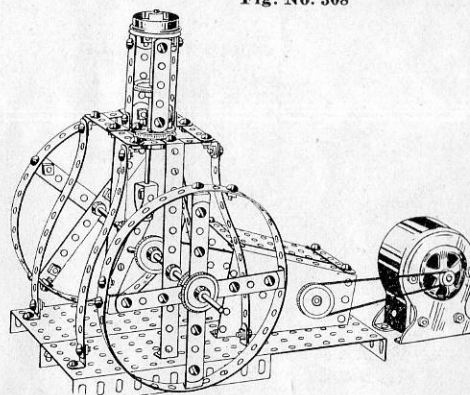


PARTS REQUIRED

- 4—Car Wheels
- 4—Flanged Wheels
- 2—1" Pulley Wheels
- 1—¾" Crown Gear
- 2—Collars
- 5—12½" Strips
- 10—5½" Strips
- 6—3½" Strips
- 1—3" Strip
- 17—2½" Strips
- 4—2½" Angle Strips
- 2—3½" Angle Strips
- 6—12½" Angle Girders
- 6—Angle Brackets
- 2—Double Bent Strips
- 2—Large Plates
- 4—Small Plates
- 2—3½" Flat Plates
- 4—4½" Axle Rods
- 80—Nuts and Bolts

AIR COMPRESSOR

Fig. No. 308



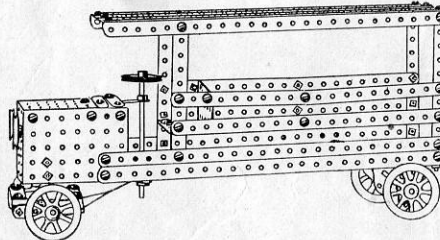
PARTS REQUIRED

- 2—Flanged Wheels
- 5—1" Pulleys
- 1—1½" Pulleys
- 4—Collars
- 2—12½" Strips
- 6—5½" Strips
- 6—3½" Strips
- 2—3" Strips
- 9—2½" Strips
- 2—2½" Angle Strips
- 2—5½" Angle Strips
- 22—Angle Brackets
- 1—Single Bent Strip
- 2—Large Plates
- 2—Small Plates
- 2—Sector Plates
- 1—3½" Flat Plate
- 1—5" Rod
- 2—3½" Rods
- 1—4½" Crank
- 2—Shaft Connectors
- 1—Engine Crank
- 72—Nuts and Bolts

In the Air Compressor model the motor is belted to the 1" Pulley, carried by an Axle Rod running between the two Sector Plates, on which is also mounted inside the Sector Plates a 1" Pulley, from which the belt runs to a pulley on the axle between the two fly-wheels. The center part of this axle between the two fly-wheels is composed of an engine crank connected to the two short axles by means of shaft connectors. This engine crank drives the piston in the cylinder. For details of this connection, see cut No. 14, page 75.

AUTO DELIVERY VAN

Fig. No. 310



PARTS REQUIRED

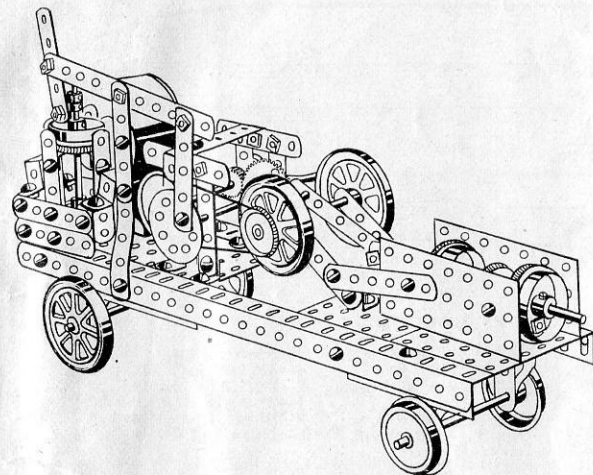
- 1—1½" Pulley Wheel
- 2—1" Pulley Wheels
- 1—Bush Wheel
- 4—Auto Wheels
- 4—12½" Strips
- 12—5½" Strips
- 9—Collars
- 6—3½" Strips
- 6—2½" Strips
- 2—3½" Angle Strips
- 4—12½" Angle Girders
- 16—Angle Brackets
- 2—Single Bent Strips
- 2—Double Bent Strips
- 4—Small Plates
- 2—3½" Flat Plates
- 1—5" Rod
- 9—4½" Rod
- 4—2" Rods
- 2—Truck Frames
- 80—Nuts and Bolts

All Models shown on this page can be made with The American Model Builder Outfit No. 4, or with No. 3 and No. 3½ Combined.

HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

PORTABLE GAS ENGINE AND PUMP

Fig. No. 311



PARTS REQUIRED

- 2—Car Wheels
- 3—Flanged Wheels
- 1—1½" Pulley Wheels
- 5—1" Pulley Wheels
- 1—Bush Wheel
- 1—¾" Pinion
- 1—1½" Gear Wheel
- 4—Auto Wheels
- 6—Collars
- 1—5½" Strip
- 20—2½" Strips
- 2—3" Strips
- 2—2½" Angle Strips
- 1—3½" Strip
- 23—Angle Brackets
- 2—12½" Angle Girders
- 1—Single Bent Strip
- 2—Double Bent Strips
- 4—Small Plates
- 2—3½" Flat Plates
- 3—4½" Axle Rods
- 2—3" Axle Rods
- 1—2" Axle Rod
- 1—4½" Crank
- 1—Engine Crank
- 4—Truck Frames
- 78—Nuts and Bolts

This model of a **Portable Gas Engine and Pump** is an attractive as well as an instructive one, for the reason that the power automatically operates both engine and pump.

The bed is made of two 12½" Angle Girders fastened together with four Small Plates, to form the bed of the truck. The usual truck wheel construction is used.

The speed of the pump piston is reduced by belting from a small Pulley on the Engine Crank to a larger Pulley on the 4½" Crank, and again by using a Pinion and Gear on a 4½" Axle Rod as described below.

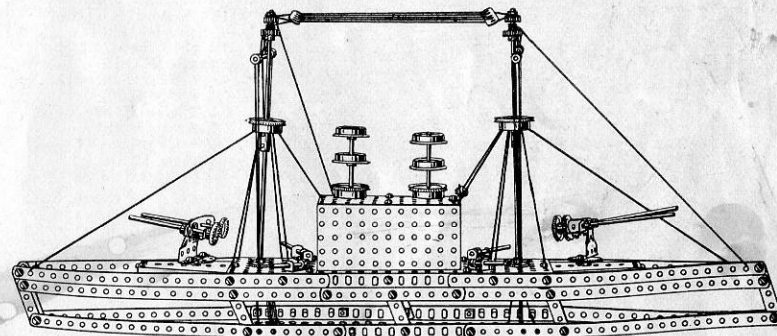
The crank which operates this model is shown on the far side and carries a ¾" Pinion which meshes with a 1½" Gear Wheel, which in turn operates a Bush Wheel, acting as an Eccentric drive. This Eccentric moves the walking beam, which operates the piston on the pump. An 1½" Pulley mounted on the Crank is belted to a 1" Pulley on the Engine Crank, and this in turn operates the piston on the engine. For details of piston connections, see cut No. 14, page 75.

DREADNAUGHT

Fig. No. 312

PARTS REQUIRED

- | | | |
|--------------------|----------------------|-------------------|
| 4—Flanged Wheels | 12—Collars | 2—3½" Flat Plates |
| 4—Car Wheels | 12—12½" Strips | 1—5½" Flat Plate |
| 6—1" Pulley Wheels | 2—5½" Strips | 4—5" Axle Rods |
| 1—¾" Pulley Wheel | 13—2½" Strips | 4—4½" Axle Rods |
| 1—Bush Wheel | 4—12½" Angle Girders | 2—3½" Axle Rods |
| 2—¾" Pinions | 21—Angle Brackets | 4—2" Axle Rods |
| 2—½" Pinions | 2—Large Plates | 2—5½" Cranks |
| 1—1½" Gear Wheel | 3—Small Plates | 69—Nuts and Bolts |
| 2—¾" Crown Gears | 2—Sector Plates | |



In building the **Dreadnaught**, four 12½" Angle Girders are used in the middle section to stiffen the framework. Between the upper pair of these Girders are bolted Flat Plates to form the deck, supporting the superstructure, and the rapid fire guns.

At each end of the deck is bolted a Sector Plate which supports the forward and rear turrets. Truck Frames are utilized for the mounting of the turret guns, and are permitted to swivel by the use of a bolt with lock nuts below the deck.

The construction of the superstructure, the masts and funnels needs no explanation.

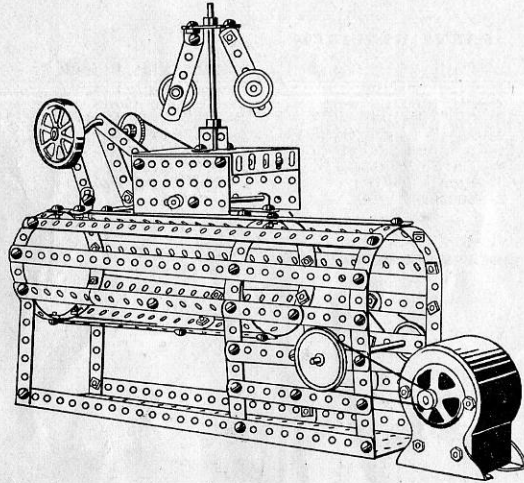
Every boy should build this model so that he may get some idea of how the Dreadnaught used in the European conflict looks in miniature.

All Models shown on this page can be made with The American Model Builder Outfit No. 4, or with No. 3 and No. 3½ Combined.

HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

STATIONARY ENGINE

Fig. No. 313



PARTS REQUIRED

- 1—1½" Pulley Wheel
- 6—1" Pulley Wheels
- 1—Bush Wheel
- 1—¾" Pinion
- 1—¾" Crown Gear
- 1—Auto Wheel
- 8—Collars
- 6—12½" Strips
- 13—5½" Strips
- 2—3½" Strips
- 19—2½" Strips
- 4—2½" Angle Strips
- 2—12½" Angle Girders
- 7—Angle Brackets
- 2—Double Bent Strips
- 1—Small Plate
- 2—3½" Flat Plates
- 1—5" Axle Rod
- 1—3½" Axle Rod
- 3—2" Axle Rods
- 1—5½" Crank
- 1—Engine Crank
- 78—Nuts and Bolts

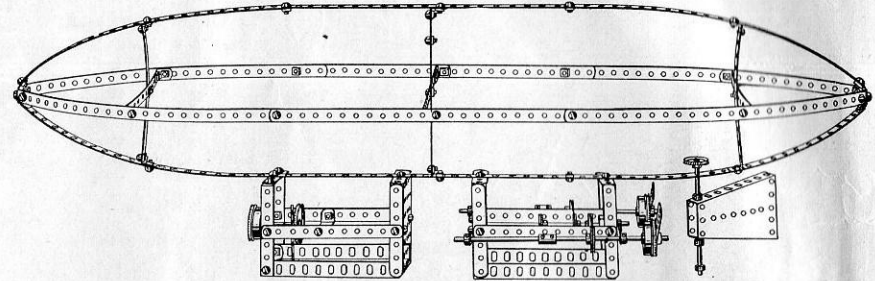
The Stationary Engine shown here is an exact duplicate of the engine and boiler commonly used in country saw mills. It may be operated by an electric motor belted to a 1½" Pulley, mounted on the axle, shown on the side of the fire box. On the opposite end of this axle is a 1" Pulley from which a belt runs to a similar pulley on the far end of an axle running through the steam chest. In the center of this chest is mounted, on an axle, a 1½" Crown Gear, which meshes with a ¾" Pinion on the bottom of the governor shaft.



The Zeppelin completes the models that may be made with The American Model Builder Outfit No. 4. By purchasing Accessory Outfit No. 4½, many additional Models can be made, 22 of which are shown on the following pages. For price of separate parts and Accessory Outfits, see pages 79 and 80. For special Transformer and Countershaft for operating Models by Electricity, see page 76.

ZEPPELIN

Fig. No. 314



PARTS REQUIRED

- | | | |
|---------------------|---------------------|--------------------|
| 3—Flanged Wheels | 2—5½" Angle Strips | 2—Sector Plates |
| 1—1½" Pulley Wheels | 2—3½" Angle Strips | 4—4½" Axle Rods |
| 6—1" Pulley Wheels | 2—2½" Angle Strips | 2—3½" Axle Rods |
| 11—Collars | 17—Angle Brackets | 1—2" Axle Rod |
| 12—12½" Strips | 8—Obtuse Angles | 2—Shaft Connectors |
| 12—5½" Strips | 1—Double Bent Strip | 78—Nuts and Bolts |
| 6—3½" Strips | 2—Large Plates | |
| 5—2½" Strips | 3—Small Plates | |

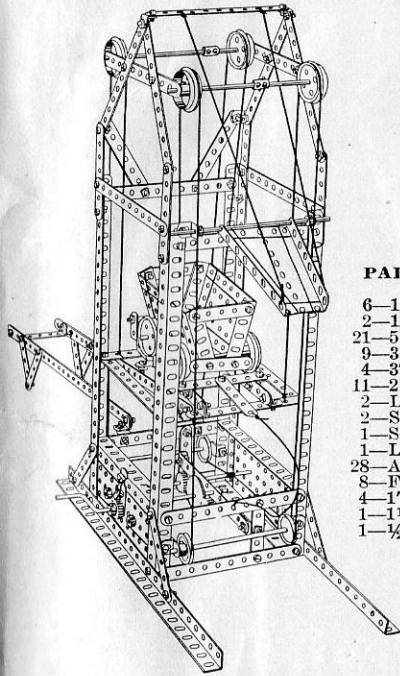
In building the Zeppelin model the extreme ends of the gas bag are fastened together by the use of Obtuse Angle Brackets. The bearings for the propeller axles are provided by placing a 3½" Strip on each end of the engine room with the ends extending one hole beyond the sides. The pulleys on the axles of the propellers are belted to two pulleys on the central axle. The rudder may be operated by a belt passing around a pulley mounted on the rod supporting the rudder. This belt passes through holes in the lower strip of the main frame and then down around a flanged wheel in the front of the cabin.

All Models shown on this page can be made with The American Model Builder Outfit No. 4, or with No. 3 and No. 3½ Combined.

HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

COAL ELEVATOR

Fig. No. 315



PARTS REQUIRED

- 6—12½" Angle Girders
- 2—12½" Strips
- 21—5½" Strips
- 9—3½" Strips
- 4—3" Strips
- 11—2½" Strips
- 2—Large Plates
- 2—Small Plates
- 1—Sector Plate
- 1—Large Bent Strip
- 28—Angle Brackets
- 8—Flanged Wheels
- 4—1" Pulleys
- 1—1½" Gear
- 1—½" Pinion
- 2—¾" Pinions
- 1—Pawl
- 4—6" Axles
- 3—5" Axles
- 2—3½" Axles
- 1—6½" Crank
- 7—Collars
- 114—Nuts and Screws

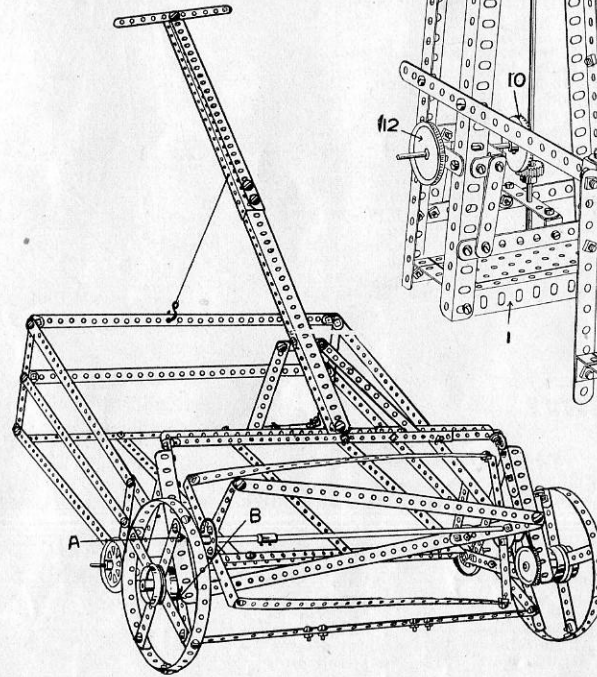
The Coal Elevator Model will be found very simple yet extremely interesting when completed. The Elevator carrying the Dump Car is very simple in construction, being made of four 5½" Strips. The track on which the car runs is fastened at one end only to two Angle Brackets, so that when the elevator is raised to the top of the chute the car will automatically dump. In order to prevent the dump car from running off the track when dumping, two Angle Brackets are attached to the 3½" Strip forming the lower tie for the two tracks, and on the end of the dump car is fastened a Large Bent Strip which hooks under these Angle Brackets.

LAWN MOWER

Fig. No. 316

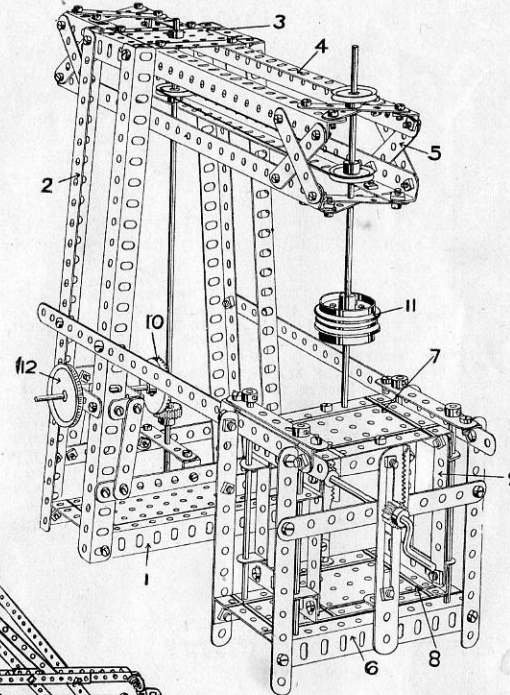
PARTS REQUIRED

- 4—Flanged Wheels
- 2—1¼" Pulley Wheels
- 2—1" Pulley Wheels
- 2—Bush Wheels
- 20—12½" Strips
- 16—5½" Strips
- 8—3½" Strips
- 8—2½" Strips
- 25—Angle Brackets
- 4—5½" Angle Strips
- 6—12½" Angle Girders
- 4—5½" Angle Girders
- 1—Hook
- 2—11½" Rods
- 1—3½" Rod
- 2—2" Rods
- 2—Shaft Connectors
- 2—Double Bent Strips
- 1—6" Rod
- 6—Collars
- 2—Auto Wheels
- 117—Nuts and Bolts



DRILL PRESS

Fig. No. 317



PARTS REQUIRED

- 8—12½" Angle Girders
- 2—12½" Strips
- 8—5½" Strips
- 6—3½" Strips
- 20—2½" Strips
- 1—Large Bent Strip
- 2—Large Plates
- 3—Small Plates
- 2—Oscillating Racks
- 1—¾" Pinion
- 2—½" Pinions
- 1—1½" Crown Gear
- 1—1½" Pulley
- 3—1" Pulleys
- 2—Flanged Wheels
- 1—11½" Axle
- 1—6" Axle
- 4—5" Axles
- 1—3½" Axle
- 1—2" Axle
- 10—Collars
- 14—Angle Brackets
- 106—Nuts and Screws
- 8—Wood Screws

The Drill Press makes an instructive Model, and demonstrates a good many practical mechanical movements.

The gearing is accomplished by means of a Crown Gear (10) attached to a 3½" Axle Rod, which meshes with the ¾" Pinion attached to the perpendicular 11½" Axle Rod. At the top of this 11½" Axle Rod should be fastened a 1" Pulley, which is belted to the 1" Pulley mounted on the 6" perpendicular Axle Rod carrying the spindle.

The chuck is made of two Flanged Wheels (11) bolted together, a 2" Axle Rod being fastened in the lower Flanged Wheel.

This Model should be operated by a Motor belted to the 1½" Pulley Wheel (12). This makes an exceptionally interesting Model, and the boy will be fully repaid for the time spent in constructing it.

All Models shown on this page can be made with The American Model Builder Outfit No. 5, or with No. 4 and No. 4½ Combined.

HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

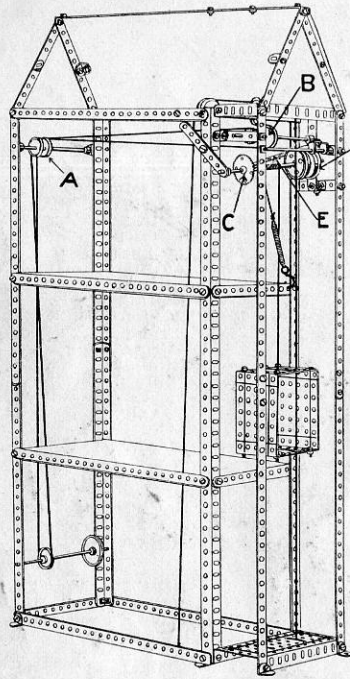
WAREHOUSE WITH ELEVATOR

Fig. No. 318

PARTS REQUIRED

- | | |
|----------------------|--------------------|
| 8—12½" Angle Girders | 4—1" Pulleys |
| 13—12½" Strips | 4—Flanged Wheels |
| 13—5½" Strips | 1—1½" Gear Wheel |
| 2—3½" Strips | 1—¾" Pinion |
| 7—2½" Strips | 1—Hook |
| 2—Large Plates | 2—6" Axles |
| 2—Small Plates | 3—5" Axles |
| 27—Angle Brackets | 2—2" Axles |
| 1—¾" Spring | 10—Collars |
| 1—1½" Pulley | 92—Nuts and Screws |

In building the Warehouse with Elevator, the following parts should be noted: The pulley wheel (A) should run loose on the axle. Pulley wheel (B) is attached to the axle supported in center of frame carrying the elevator. (C) is a 1½" gear which meshes with a ¾" pinion when elevator is to be operated. (D) is two flanged wheels over which is passed a 5½" strip (E) which forms a brake. This 5½" strip is fastened to two angle brackets, and these in turn are fastened to an axle rod in the front part of the elevator frame. When it is desired to raise the cage of the elevator pull down on the cord which will throw the 1½" gear wheel in mesh. When it is desired to lower the cage simply release the cord and the cage will drop down of its own weight.

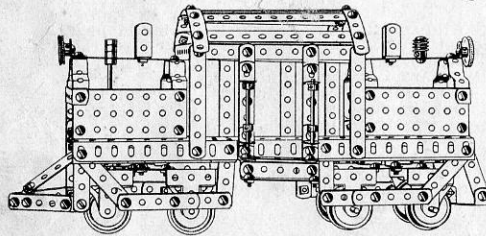


ELECTRIC LOCOMOTIVE

Fig. No. 320

PARTS REQUIRED

- | | |
|----------------------|----------------------|
| 2—1" Pulleys | 7—Obtuse Angles |
| 1—Worm Wheel | 2—Single Bent Strips |
| 8—Car Wheels | 2—Double Bent Strips |
| 13—5½" Strips | 4—Small Plates |
| 8—3½" Strips | 4—¾" Flat Plates |
| 26—2½" Strips | 4—3½" Rods |
| 4—2" Strips | 3—2" Rods |
| 3—2½" Angle Strips | 8—Collars |
| 3—3½" Angle Strips | 8—Truck Frames |
| 2—12½" Angle Girders | 4—"T" Strips |
| 18—Angle Brackets | 2—Bolster Plates |
| | 112—Nuts and Bolts |

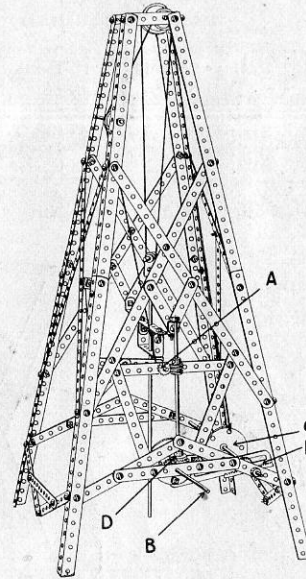


OIL WELL DRILL

Fig. No. 319

PARTS REQUIRED

- | | |
|----------------------|-----------------------|
| 8—12½" Angle Girders | 2—Eccen. Drive Wheels |
| 8—12½" Strips | 1—¾" Pinion |
| 18—5½" Strips | 2—½" Pinions |
| 1—3½" Strips | 1—1½" Pulley |
| 9—2½" Strips | 2—1" Pulleys |
| 2—Large Bent Strips | 1—½" Pulley |
| 2—11½" Axle Rods | 1—¾" Crown Gear |
| 1—6" Axle Rod | 1—Worm |
| 1—5" Axle Rod | 10—Collars |
| 2—3½" Axle Rods | 9—Angle Brackets |
| 1—2" Axle Rod | 1—Single Bent Strip |
| 1—4½" Crank | 2—Washers |
| 1—Oscillating Rack | 82—Nuts and Screws |



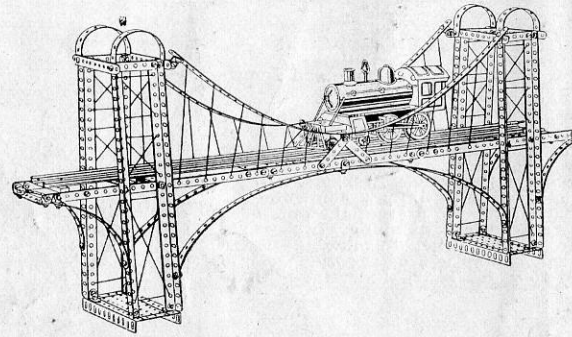
The Automatic Oil Well Drill is a very effective Model and considerable care should be used in its construction. The framework can be easily built from the drawing itself. The Cord which operates the Plunger is fastened to the Eccentric Drive Wheel "C," then passes over the 1½" Pulley Wheel at the top, then down over the ½" Pulley Wheel at the top of the Plunger, then over the 1" Pulley Wheel at the top, then over the 1" Pulley Wheel attached to the upper side of the frame, then fastened to the 3½" Axle Rod, to the end of which is attached a ½" Pinion marked "A." "B" is the Oscillating Rack, which is attached to the Eccentric Drive Wheel at the end of the 4½" Crank "D" and meshes with the ½" Pinion Wheel mounted on to the 11½" Axle Rod. "D" is the ¾" Crown Gear attached to the bottom of the 6" Axle Rod and meshes with the ¾" Pinion mounted on the 4½" Crank. When the Crank is turned, the Plunger will move up and down automatically and at the same time the string operating this Plunger will lengthen automatically.

SUSPENSION BRIDGE

Fig. No. 321

PARTS REQUIRED

- | |
|----------------------|
| 8—12½" Angle Girders |
| 14—12½" Strips |
| 12—5½" Strips |
| 6—3½" Strips |
| 8—2½" Strips |
| 36—Angle Brackets |
| 2—Large Plates |
| 3—Small Plates |
| 108—Nuts and Screws |

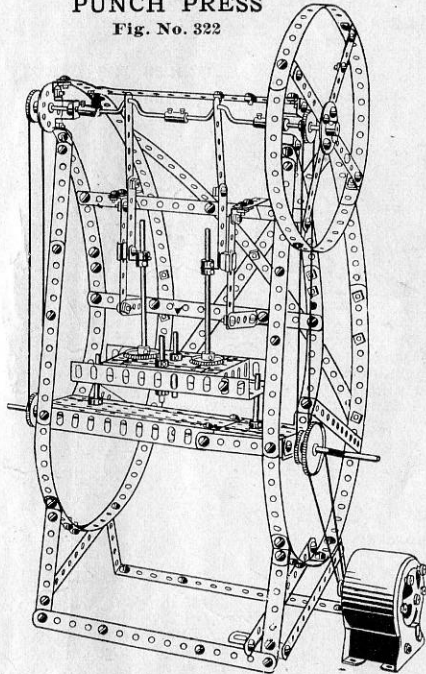


All Models shown on this page can be made with The American Model Builder Outfit No. 5, or with No. 4 and No. 4½ Combined.

HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

PUNCH PRESS

Fig. No. 322

**PARTS REQUIRED**

- | | |
|--------------------|----------------------|
| 1—1½" Pulleys | 2—5½" Angle Strips |
| 6—1" Pulleys | 4—Obtuse Angles |
| 2—Bush Wheels | 25—Angle Brackets |
| 2—¾" Pinions | 2—Double Bent Strips |
| 2—½" Pinions | 2—Large Plates |
| 12—Collars | 2—Small Plates |
| 8—12½" Strips | 3—4½" Rods |
| 23—5½" Strips | 6—2" Rods |
| 8—3½" Strips | 1—6¼" Crank |
| 2—3" Strips | 2—Eye Pieces |
| 2—2½" Strips | 4—Shaft Connectors |
| 4—2" Strips | 2—Engine Cranks |
| 3—2½" Angle Strips | 119—Nuts and Bolts |

GEARED WIND MILL

Fig. No. 323

PARTS REQUIRED

- | | |
|----------------------|------------------------|
| 4—12½" Angle Girders | 1—Worm Wheel |
| 16—5½" Strips | 1—1" Pulley |
| 8—3½" Strips | 12—Collars |
| 20—2½" Strips | 2—11½" Rods |
| 4—Flanged Wheels | 4—3½" Rods |
| 2—Bush Wheels | 13—Angle Brackets |
| 2—1½" Crown Gears | 100—Nuts and Bolts |
| 2—¾" Pinions | 1—5½" Crank |
| 2—½" Pinions | 2—5½" Angle Strips |
| 2—¾" Crown Gears | 1—3½" Angle Strip |
| 1—1½" Gear Wheels | 6—2½" Angle Strips |
| | 4—2" Perforated Strips |

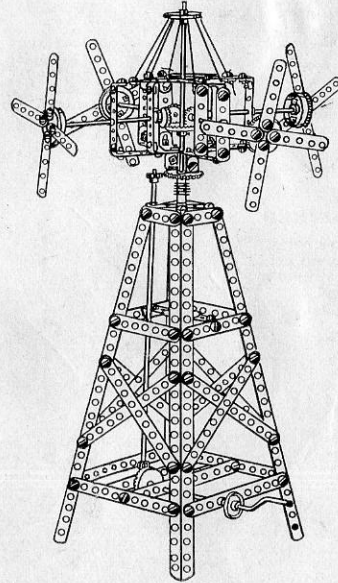
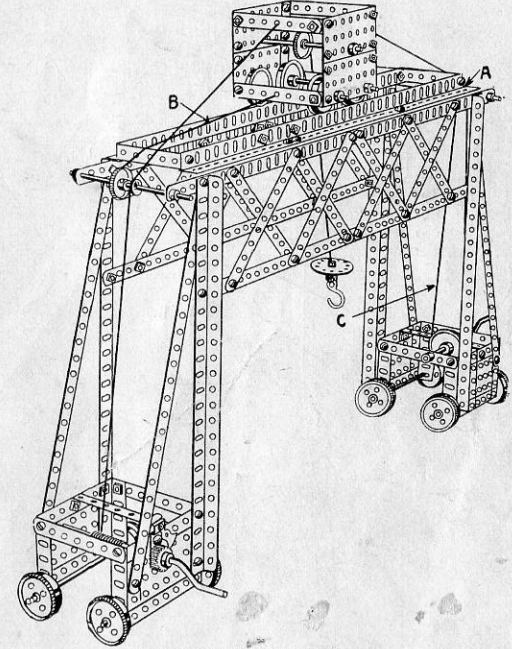
**GANTRY CRANE**

Fig. No. 324

**PARTS REQUIRED**

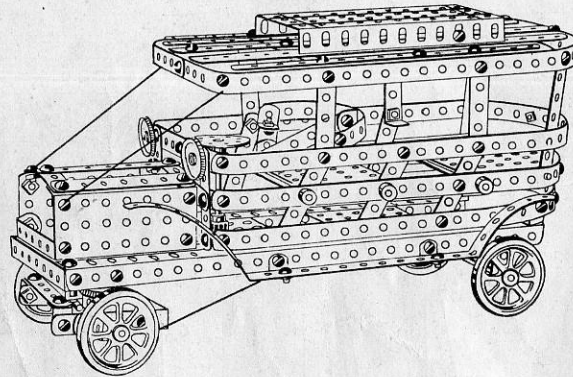
- | | |
|------------------|----------------------|
| 8—Flanged Wheels | 6—2½" Strips |
| 1—1½" Pulley | 2—2½" Angle Strips |
| 4—1" Pulleys | 4—3½" Angle Strips |
| 4—Car Wheels | 8—12½" Angle Girders |
| 1—Bush Wheel | 4—5½" Angle Girders |
| 1—¾" Pinion | 4—Angle Brackets |
| 1—Pawl | 1—Hook |
| 1—¼" Pulley | 4—Small Plates |
| 12—Collars | 4—3½" Flat Plates |
| 8—12½" Strips | 5—4½" Rods |
| 16—5½" Strips | 4—5" Rods |
| 8—3½" Strips | 1—6¼" Crank |
| 4—3" Strips | 1—5½" Crank |
| | 97—Nuts and Bolts |

All Models shown on this page can be made with The American Model Builder Outfit No. 5, or with No. 4 and No. 4½ Combined.

HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

LIMOUSINE

Fig. No. 325

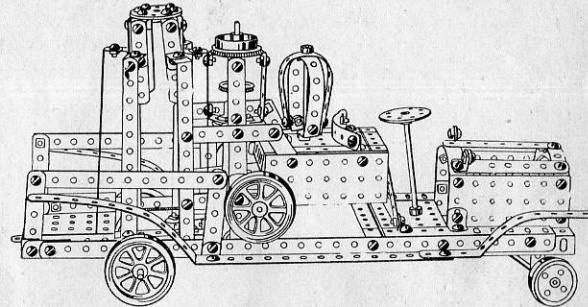


PARTS REQUIRED

- 6—1" Pulleys
- 4—Auto Wheels
- 1—Bush Wheel
- 2— $\frac{1}{2}$ " Pinions
- 12—Collars
- 10— $12\frac{1}{2}$ " Strips
- 12— $5\frac{1}{2}$ " Strips
- 7— $3\frac{1}{2}$ " Strips
- 2— $3\frac{1}{2}$ " Strips
- 24— $2\frac{1}{2}$ " Strips
- 3— $2\frac{1}{2}$ " Angle Strips
- 1— $3\frac{1}{2}$ " Angle Strip
- 2— $12\frac{1}{2}$ " Angle Girders
- 4—Obtuse Angles
- 34—Angle Brackets
- 2—Single Bent Strips
- 2—Double Bent Strips
- 1—Large Plate
- 4—Small Plates
- 2— $3\frac{1}{2}$ " Flat Plates
- 4— $5\frac{1}{2}$ " Rods
- 1— $4\frac{1}{2}$ " Rod
- 1— $3\frac{1}{2}$ " Rod
- 4— $2\frac{1}{2}$ " Rods
- 2—Truck Frames
- 116—Nuts and Bolts

MOTOR FIRE ENGINE

Fig. No. 326



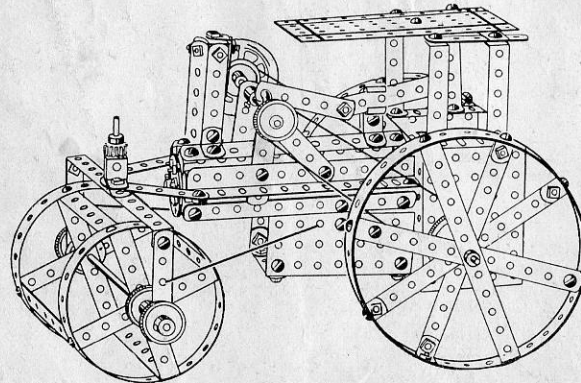
PARTS REQUIRED

- 4—Flanged Wheels
- 2— $1\frac{1}{2}$ " Pulleys
- 6—1" Pulleys
- 4—Auto Wheels
- 2—Bush Wheels
- 1— $1\frac{1}{2}$ " Gear Wheel
- 9—Collars
- 4— $12\frac{1}{2}$ " Strips
- 9— $5\frac{1}{2}$ " Strips
- 6— $3\frac{1}{2}$ " Strips
- 4— $2\frac{1}{2}$ " Strips
- 3— $3\frac{1}{2}$ " Strips
- 21— $2\frac{1}{2}$ " Strips
- 2— $3\frac{1}{2}$ " Angle Strips
- 1— $2\frac{1}{2}$ " Angle Strip
- 4— $5\frac{1}{2}$ " Angle Strips
- 4—Obtuse Angles
- 43—Angle Brackets
- 4— $5\frac{1}{2}$ " Angle Girders
- 1—Single Bent Strip

- 1—Large Bent Strip
- 4—Small Plates
- 4— $3\frac{1}{2}$ " Flat Plates
- 5— $4\frac{1}{2}$ " Rods
- 1—5" Rod
- 1—Engine Crank
- 120—Nuts and Bolts
- 2— $\frac{1}{2}$ " Pulleys

ROAD ROLLER

Fig. No. 327



PARTS REQUIRED

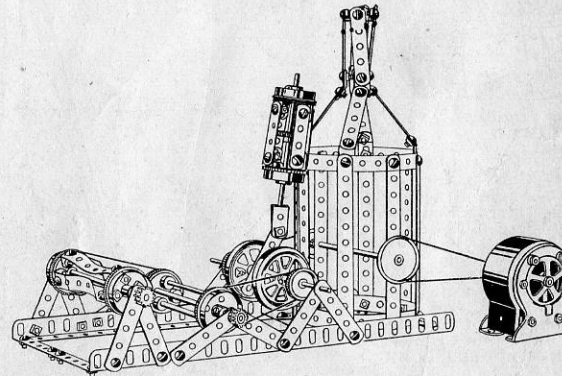
- 1—Flanged Wheel
- 2— $1\frac{1}{2}$ " Pulley Wheels
- 6—1" Pulley Wheels
- 1—Bush Wheel
- 1—Worm Wheel
- 12—Collars
- 6— $12\frac{1}{2}$ " Strips
- 12— $5\frac{1}{2}$ " Strips
- 6— $3\frac{1}{2}$ " Strips
- 4— $2\frac{1}{2}$ " Strips
- 16— $2\frac{1}{2}$ " Strips
- 1— $1\frac{1}{2}$ " Pinion
- 4— $3\frac{1}{2}$ " Angle Strips
- 3— $5\frac{1}{2}$ " Angle Strips
- 4— $2\frac{1}{2}$ " Angle Strips
- 2— $5\frac{1}{2}$ " Angle Girders
- 33—Angle Brackets
- 3—Obtuse Angles
- 2—Single Bent Strips
- 2—Double Bent Strips
- 4—Small Plates
- 2— $3\frac{1}{2}$ " Flat Plates
- 1—Engine Crank
- 2—Shaft Connectors
- 118—Nuts and Bolts

- 1— $5\frac{1}{2}$ " Flat Plate
- 1—6" Rod
- 2— $3\frac{1}{2}$ " Rods

- 2—2" Rods
- 1— $4\frac{1}{2}$ " Crank
- 1—Eye Piece

HOISTING ENGINE

Fig. No. 328



PARTS REQUIRED

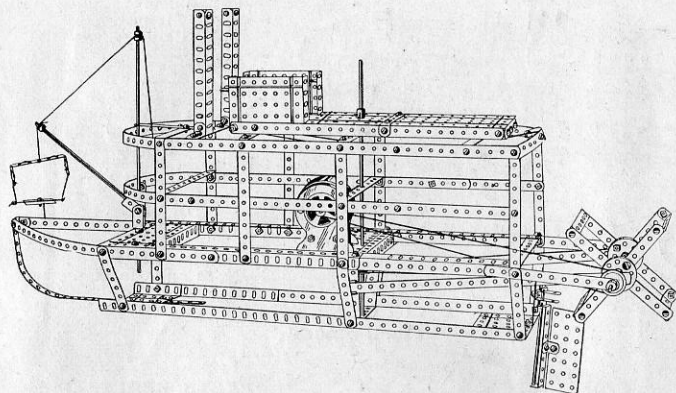
- 6—Flanged Wheels
- 4—1" Pulleys
- 2—Auto Wheels
- 1— $1\frac{1}{2}$ " Pulley
- 12—Collars
- 2— $1\frac{1}{2}$ " Pinions
- 12— $5\frac{1}{2}$ " Strips
- 1— $3\frac{1}{2}$ " Strip
- 4— $3\frac{1}{2}$ " Strips
- 22— $2\frac{1}{2}$ " Strips
- 4— $2\frac{1}{2}$ " Strips
- 2— $12\frac{1}{2}$ " Angle Girders
- 24—Angle Brackets
- 8—Obtuse Angles
- 1—Single Bent Strip
- 1—6" Rod
- 5— $4\frac{1}{2}$ " Rods
- 2—2" Rods
- 1— $6\frac{1}{2}$ " Crank
- 2—Shaft Connectors
- 1—Engine Crank
- 73—Nuts and Bolts

All Models shown on this page can be made with The American Model Builder Outfit No. 5, or with No. 4 and No. $4\frac{1}{2}$ Combined.

HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

STERN WHEELER

Fig. No. 329



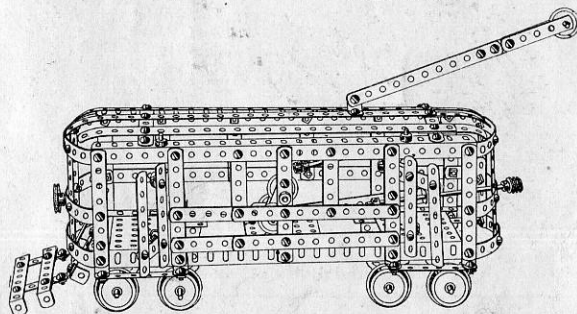
- 2—11½" Rods 2—Eye Pieces
1—5" Rod 2—Engine Cranks
1—6" Rod 120—Nuts and Bolts

PARTS REQUIRED

- 2—11½" Pulleys
5—1½" Pulleys
2—1½" Pulleys
2—Bush Wheels
12—Collars
14—12½" Strips
21—5½" Strips
7—3½" Strips
4—2½" Strips
4—5½" Angle Strips
1—3½" Angle Strip
6—2½" Angle Strips
2—Hanger Strips
8—12½" Angle Girders
4—5½" Angle Girders
2—Single Bent Strips
20—Angle Brackets
2—Obtuse Angles
1—Large Bent Strip
2—Large Plates
4—Small Plates
1—3½" Flat Plate
2—5½" Flat Plates

PAY-ENTER CAR

Fig. No. 331



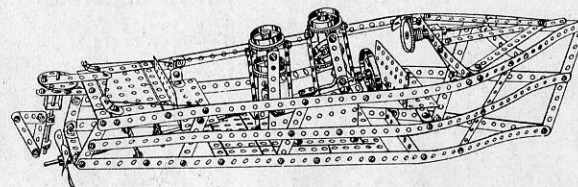
- 3—5" Rods 8—Truck Frames
2—3½" Rods 4—"T" Strips
120—Nuts and Bolts 2—Bolster Plates

PARTS REQUIRED

- 1—Worm Wheel
6—1" Pulleys
8—Car Wheels
12—Collars
4—12½" Strips
12—5½" Strips
8—3½" Strips
4—3" Strips
20—2½" Strips
1—2½" Angle Strip
4—3½" Angle Strips
4—12½" Angle Girders
19—Angle Brackets
1—Single Bent Strip
1—Hanger Strip
1—Double Bent Strip
3—Small Plates
4—4½" Rods

MOTOR BOAT

Fig. No. 330



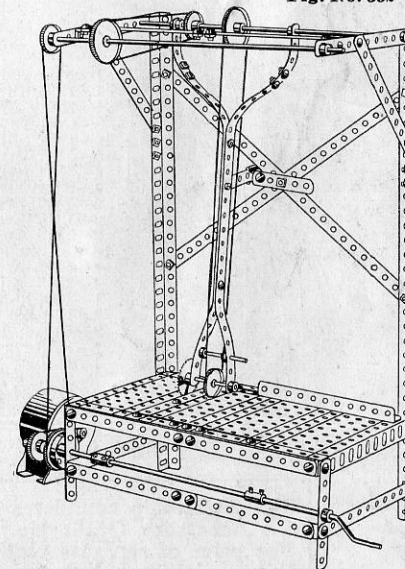
- 2—Double Bent Strips 3—2" Rods
4—Small Plates 2—3½" Rods
2—Sector Plates 2—Engine Cranks
4—3½" Flat Plates 3—Shaft Connectors
1—6" Rod 120—Nuts and Bolts

PARTS REQUIRED

- 4—Flanged Wheels
1—1½" Pulley
1—1" Pulley
1—Auto Wheel
1—Bush Wheel
1—Worm Wheel
11—Collars
12—12½" Strips
5—5½" Strips
8—3½" Strips
4—3" Strips
16—2½" Strips
3—2" Strips
3—3½" Angle Strips
1—5½" Angle Strip
32—Angle Brackets
4—Obtuse Angles
2—Single Bent Strips

SWING SAW

Fig. No. 332



PARTS REQUIRED

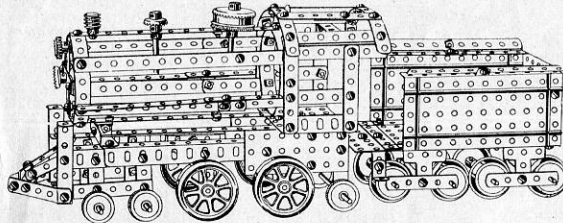
- 1—Flanged Wheel
2—1½" Pulleys
4—1" Pulleys
1—1½" Gear Wheel
10—Collars
4—12½" Strips
12—5½" Strips
2—3½" Strips
5—2½" Strips
12—Angle Brackets
2—12½" Angle Girders
3—5½" Angle Girders
2—Large Plates
2—5½" Flat Plates
2—11½" Rods
1—6" Rod
2—2" Rods
1—3½" Rod
1—4½" Crank
1—Eye Piece
2—Shaft Connectors
56—Nuts and Bolts

All Models shown on this page can be made with The American Model Builder Outfit No. 5, or with No. 4 and No. 4½ Combined.

HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

LOCOMOTIVE AND TENDER

Fig. No. 333



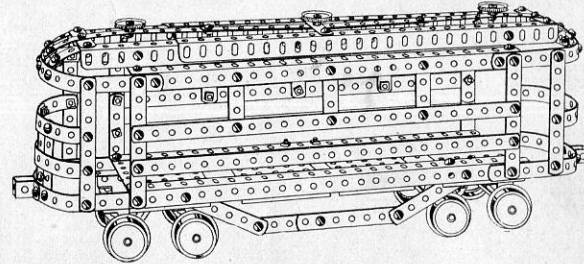
- | | |
|----------------------|--------------------|
| 10—Obtuse Angles | 5—4½" Rods |
| 2—Double Bent Strips | 4—3½" Rods |
| 2—Large Plates | 2—2" Rods |
| 4—Small Plates | 8—Truck Frames |
| 4—3½" Flat Plates | 120—Nuts and Bolts |

PARTS REQUIRED

- 6—1" Pulley Wheels
- 8—Car Wheels
- 4—Auto Wheels
- 1—3½" Pinion
- 1—Flanged Wheel
- 1—1½" Crown Gear
- 2—3½" Crown Gears
- 1—Worm Wheel
- 7—Collars
- 2—12½" Strips
- 10—5½" Strips
- 8—3½" Strips
- 4—3" Strips
- 30—2½" Strips
- 4—2" Strips
- 4—2½" Angle Strips
- 2—3½" Angle Strips
- 4—5½" Angle Girders
- 23—Angle Brackets

PULLMAN CAR

Fig. No. 334

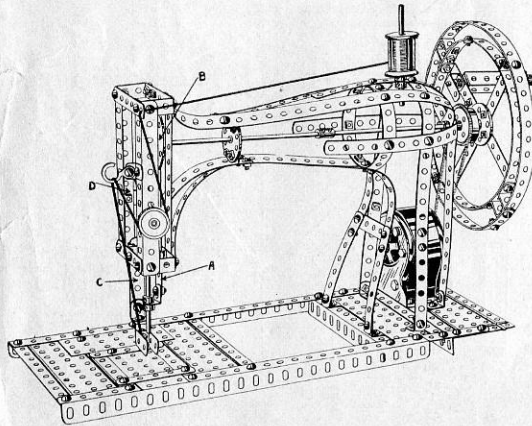


PARTS REQUIRED

- 3—1" Pulleys
- 8—Car Wheels
- 6—12½" Strips
- 8—5½" Strips
- 8—3½" Strips
- 4—3" Strips
- 30—2½" Strips
- 4—2" Strips
- 2—3½" Angle Strips
- 8—12½" Angle Girders
- 4—Angle Brackets
- 6—Obtuse Angles
- 2—Double Bent Strips
- 4—Small Plates
- 4—3½" Rods
- 8—Truck Frames
- 4—"T" Strips
- 2—Bolster Plates
- 120—Nuts and Bolts

SEWING MACHINE

Fig. No. 335

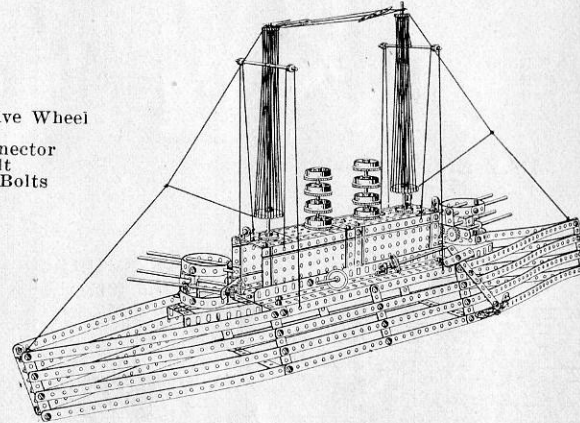


PARTS REQUIRED

- | | |
|----------------------|----------------------|
| 1—Flanged Wheel | 1—2" Rod |
| 1—1" Pulley | 1—Eye Piece |
| 1—Bush Wheel | 1—Eccen. Drive Wheel |
| 8—Collars | 1—Washer |
| 10—12½" Strips | 1—Shaft Connector |
| 5—5½" Strips | 1—Pulley Belt |
| 4—3½" Strips | 110—Nuts and Bolts |
| 4—3" Strips | |
| 5—2½" Strips | |
| 2—12½" Angle Girders | |
| 2—5½" Angle Girders | |
| 18—Angle Brackets | |
| 2—5½" Angle Strips | |
| 4—2½" Angle Strips | |
| 1—Single Bent Strip | |
| 2—Double Bent Strips | |
| 2—Large Bent Strips | |
| 1—Hanger Strip | |
| 1—Hook | |
| 2—Large Plates | |
| 2—3½" Flat Plates | |
| 2—5½" Flat Plates | |
| 2—6" Rods | |
| 2—3½" Rods | |

BATTLESHIP

Fig. No. 336



PARTS REQUIRED

- | | |
|----------------------|--------------------|
| 8—Flanged Wheels | 4—3½" Rods |
| 6—1" Pulleys | 3—2" Rods |
| 3—½" Pulleys | 120—Nuts and Bolts |
| 7—Car Wheels | |
| 2—Bush Wheels | |
| 2—3½" Pinions | |
| 2—½" Pinions | |
| 2—1½" Crown Gears | |
| 2—3½" Crown Gears | |
| 1—Worm Wheel | |
| 12—Collars | |
| 20—12½" Strips | |
| 6—5½" Strips | |
| 8—3½" Strips | |
| 25—2½" Strips | |
| 4—2" Strips | |
| 2—2½" Angle Strips | |
| 20—Angle Brackets | |
| 6—12½" Angle Girders | |
| 2—Double Bent Strips | |
| 2—Large Plates | |
| 2—Small Plates | |
| 2—Sector Plates | |
| 4—3½" Flat Plates | |
| 2—5½" Flat Plates | |
| 2—11½" Rods | |



The Battleship completes the models that may be made with The American Model Builder Outfit No. 5. By purchasing Accessory Outfit No. 5½, many additional Models can be made, 16 of which are shown on the following pages. For price of separate parts and Accessory Outfits, see pages 79 and 80. For special Transformer and Countershaft for operating Models by Electricity, see page 76.

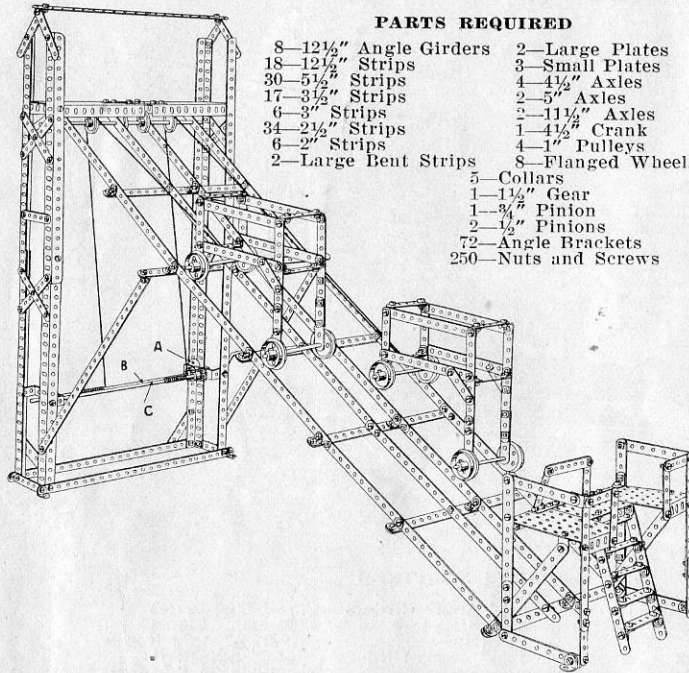
All Models shown on this page can be made with The American Model Builder Outfit No. 5, or with No. 4 and No. 4½ Combined.
HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

MOUNTAIN CABLE RAILROAD

Fig. No. 337

PARTS REQUIRED

- | | |
|----------------------|---------------------|
| 8—12½" Angle Girders | 2—Large Plates |
| 18—12½" Strips | 3—Small Plates |
| 30—5½" Strips | 4—4½" Axles |
| 17—3½" Strips | 2—5" Axles |
| 6—3" Strips | 2—11½" Axles |
| 34—2½" Strips | 1—4½" Crank |
| 6—2" Strips | 4—1" Pulleys |
| 2—Large Bent Strips | 8—Flanged Wheels |
| | 5—Collars |
| | 1—1½" Gear |
| | 1—¾" Pinion |
| | 2—½" Pinions |
| | 72—Angle Brackets |
| | 250—Nuts and Screws |



The Mountain Cable Railroad is used mainly in hilly cities for transporting passengers as well as vehicles to higher elevations.

The tower should be erected first. The bracing can easily be followed from the cut. The roof can be made of cardboard and fastened in place with Angle Brackets. The loading platform should be made next, followed by the railing and bracing, all plainly shown in the cut.

At the top the tracks are fastened to Angle Brackets bolted fast on the under side of the Large Plates.

The power is applied by means of two ½" Pinions attached to two 11½" Axle Rods, "B" and "C." These ½" Pinions mesh with each other, causing the Axles to revolve in opposite directions. A ¾" Pinion should then be attached to axle "B" on the outside of the Large Bent Strip, and this should mesh with the 1½" Gear "A" attached to the 4½" Crank. When the Crank is operated both cars will move in opposite directions.

MACHINE SHOP

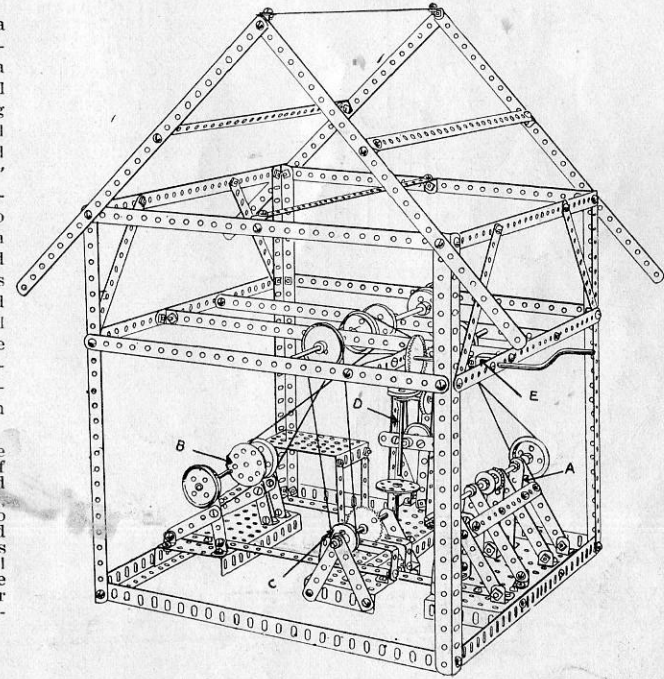
Fig. No. 338

PARTS REQUIRED

- | | | |
|------------------|----------------------|---------------------|
| 6—Flanged Wheels | 19—12½" Strips | 4—Small Plates |
| 3—1½" Pulleys | 10—5½" Strips | 2—Large Plates |
| 6—1" Pulleys | 6—3½" Strips | 1—11½" Axle Rod |
| 2—Bush Wheels | 4—3" Strips | 4—4½" Axle Rods |
| 1—½" Pinion | 20—2½" Strips | 2—3½" Axle Rods |
| 1—1½" Gear | 8—12½" Angle Girders | 4—2" Axle Rods |
| 1—1½" Crown | 56—Angle Brackets | 1—6½" Crank |
| 2—¾" Crowns | 2—Large Bent Strips | 165—Nuts and Screws |
| 16—Collars | 1—Double Bent Strip | |

The Machine Shop is a combination of small models, all operated from a main shaft. "A" is a small Lathe; "B" is a Turning Lathe; "C" is a small Power Saw; "D" a Drill Press. By mounting a 1" Pulley Wheel on the outside of the framework to the 6½" Crank, same can be belted to a Geared Countershaft and this Countershaft can be belted directly to one of the small models, so that all of the models can be set in operation at one time by simply turning the lever on the Motor.

Note that the main Drive Shaft in the upper part of the building has mounted on the 11½" Axle Rod, three 1½" Pulleys and two Flanged and Grooved Wheels. One of these is belted direct to the Drill Press, one to the Large Lathe, one to the Power Saw and one to the Turning Lathe.



The Models shown on this page can be made with The American Model Builder Outfit No. 6, or with No. 5 and No. 5½ Combined.

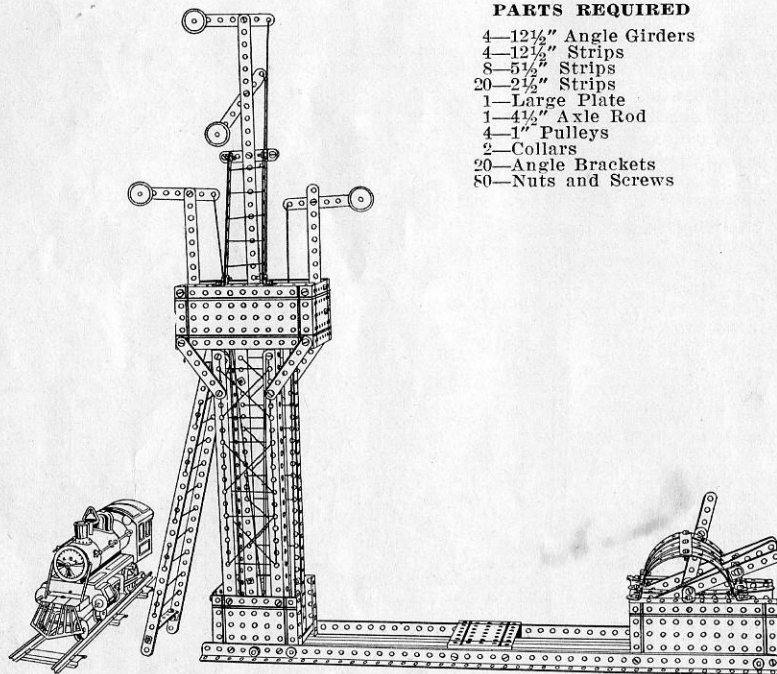
HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

R. R. TOWER SIGNAL

Fig. No. 339

The Railroad Semaphore can be seen in every day use in any railroad yard and is used for giving the engineer the right of way over certain tracks.

The matter of attaching the Signals and the Ladders is very simple and can be easily followed from the cut. One signal cord is attached to each lever, and when the lever is thrown back the signal should rise into proper position.

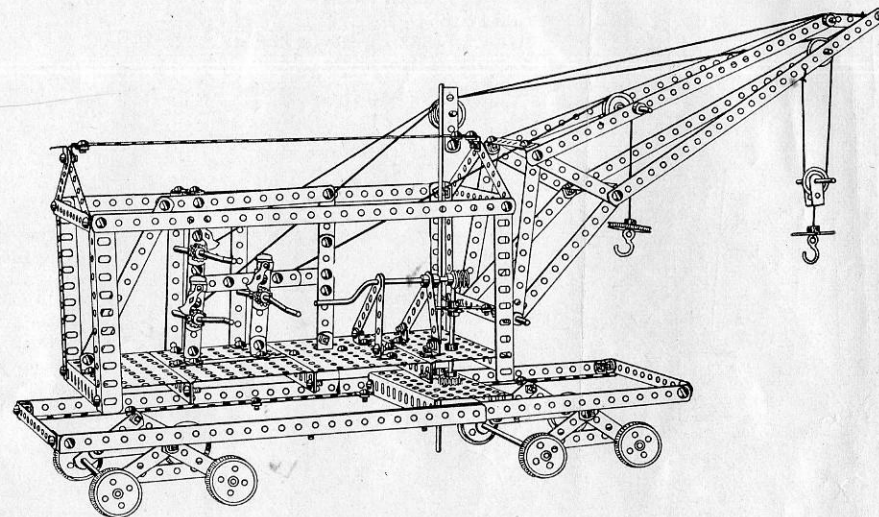


PARTS REQUIRED

- 4—12 1/2" Angle Girders
- 4—12 1/2" Strips
- 8—5 1/2" Strips
- 20—2 1/2" Strips
- 1—Large Plate
- 1—4 1/4" Axle Rod
- 4—1" Pulleys
- 2—Collars
- 20—Angle Brackets
- 80—Nuts and Screws

WRECKING CAR

Fig. No. 340



PARTS REQUIRED

- | | | |
|---------------------|-------------------------|---------------------|
| 8—Flanged Wheels | 4—5 1/4" Angle Girders | 3—Large Plates |
| 1—1 1/2" Pulley | 13—2 1/2" Strips | 4—Small Plates |
| 5—1" Pulleys | 2—2" Strips | 1—11 1/4" Axle Rod |
| 2—1/2" Pulleys | 4—12 1/4" Angle Girders | 4—6" Axle Rods |
| 2—Bush Wheels | 4—3" Strips | 1—5" Axle Rod |
| 2—3/4" Pinions | 17—3 1/2" Strips | 1—4 1/4" Axle Rod |
| 3—1/2" Pinions | 39—Angle Brackets | 1—3 1/2" Axle Rod |
| 1—1 1/2" Gear Wheel | 1—Single Bent Strip | 1—2" Axle Rod |
| 15—Collars | 1—Double Bent Strip | 3—1" Axle Rods |
| 1—Worm Wheel | 1—Hanger Strip | 3—5 1/2" Cranks |
| 7—12 1/2" Strips | 3—Pawls | 1—4 1/2" Crank |
| 14—5 1/2" Strips | 2—Hooks | 124—Nuts and Screws |

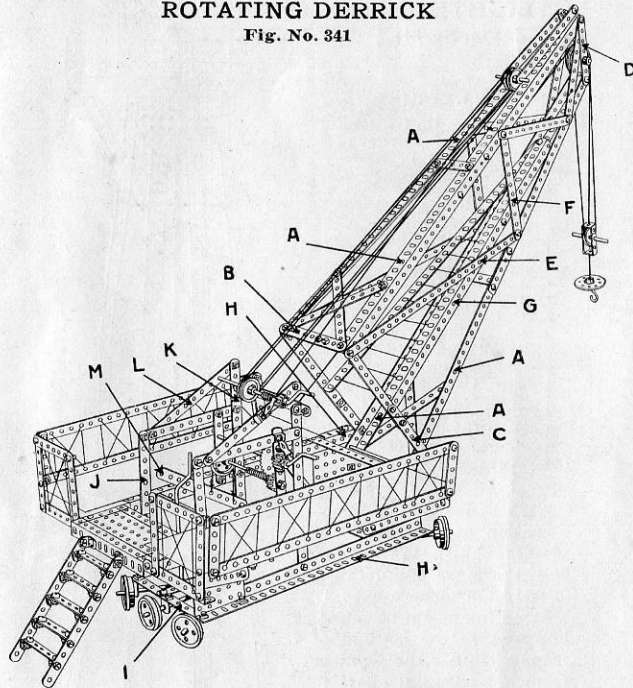
The Wrecking Car is submitted as a test Model and therefore no explanation is given.

The Models shown on this page can be made with The American Model Builder Outfit No. 6, or with No. 5 and No. 5 1/2 Combined.

HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

ROTATING DERRICK

Fig. No. 341

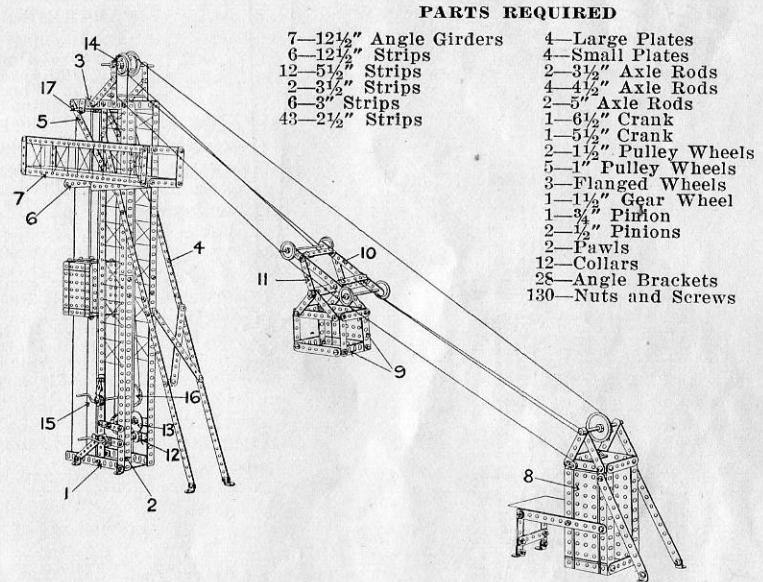


PARTS REQUIRED

- 6—Flanged Wheels
- 2—1 1/2" Pulleys
- 5—1" Pulleys
- 1—Bush Wheel
- 1—3/4" Pinion
- 3—1/2" Pinions
- 1—Worm Wheel
- 1—1 1/2" Gear Wheel
- 2—Pawls
- 6—12 1/2" Strips
- 36—5 1/2" Strips
- 14—3 1/2" Strips
- 1—3" Strip
- 12—2 1/2" Strips
- 46—Angle Brackets
- 17—12 1/2" Angle Girders
- 3—5 1/2" Angle Girders
- 1—6" Axle Rod
- 1—5" Axle Rod
- 5—4 1/2" Axle Rods
- 3—2" Axle Rods
- 3—6 1/2" Cranks
- 1—Large Plate
- 4—Small Plates
- 2—Single Bent Strips
- 12—Collars
- 156—Nuts and Screws

CABLE SPAN

Fig. No. 342



PARTS REQUIRED

- 7—12 1/2" Angle Girders
- 6—12 1/2" Strips
- 12—5 1/2" Strips
- 2—3 1/2" Strips
- 6—3" Strips
- 43—2 1/2" Strips
- 4—Large Plates
- 4—Small Plates
- 2—3 1/2" Axle Rods
- 4—4 1/2" Axle Rods
- 2—5" Axle Rods
- 1—6 1/2" Crank
- 1—5 1/2" Crank
- 2—1 1/2" Pulley Wheels
- 5—1" Pulley Wheels
- 3—Flanged Wheels
- 1—1 1/2" Gear Wheel
- 1—3/4" Pinion
- 2—1/2" Pinions
- 2—Pawls
- 12—Collars
- 25—Angle Brackets
- 130—Nuts and Screws

In this Model, build the boom first, the outside frame of which is constructed of eight 12 1/2" Angle Girders (A), those for the upper frame overlapping six holes and those for the lower frame five holes, bolted together at the front end and separated at the rear by two 3 1/2" Strips (B) overlapped five holes. The upper and lower frames should then be fastened at the rear by two 5 1/2" Strips (C) overlapped three holes and at the front by a 3 1/2" Strip (D), and braced by a 12 1/2" diagonal Strip (E) and three 5 1/2" diagonal Strips (F).

Next, construct the main lower frame, which is made of four 12 1/2" Angle Girders (H). The Strips (I) support the Flanged Wheels, which you will note are set at an angle so that the crane will revolve in a complete circle.

The Cable Span is used in hilly countries for transporting ore and other substances across gulleys or deep ravines.

The gearing on this model is accomplished by means of a 5 1/2" Crank, and attached to this is a 3/4" Pinion (12) which meshes with an 1 1/2" Gear (13) mounted on a 4 1/2" Axle Rod. On this same Axle Rod is mounted a Flanged Wheel. This Flanged Wheel is then belted to one of the Flanged Wheels (14) mounted at the extreme top of the model and controls the movement of the riding carriage. You will notice this carriage rides on two cables tightly stretched, and is operated by a belt which passes over the Flanged Wheel at the top of the main structure and around the 1 1/2" Pulley Wheel mounted on the loading platform.

The second Crank (15) that is mounted through the ninth hole from the bottom in the Angle Girders operates the elevator cage. At the end of this Crank (16) is attached an 1 1/2" Pulley Wheel that is belted to the 1" Pulley Wheel mounted on a 5" Axle Rod (17) which operates and controls the up-and-down movement of the elevator cage.

The Models shown on this page can be made with The American Model Builder Outfit No. 6, or with No. 5 and No. 5 1/2 Combined.

HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

TRAVELING ROTARY CRANE

Panama Type
Fig. No. 343

PARTS REQUIRED

- 4—Flanged Wheels
- 2— $1\frac{1}{2}$ " Pulleys
- 3—1" Pulleys
- 2—Bush Wheels
- 1— $\frac{3}{4}$ " Pinion
- 2— $\frac{1}{2}$ " Pinions
- 1—Worm
- 15—Collars
- 16— $12\frac{1}{2}$ " Strips
- 16— $5\frac{1}{2}$ " Strips
- 6— $3\frac{1}{2}$ " Strips
- 4—3" Strips
- 27— $2\frac{1}{2}$ " Strips
- 4— $12\frac{1}{2}$ " Angle Girders
- 34—Angle Brackets
- 1—Single Bent Strip
- 1—Double Bent Strip
- 1—Hook
- 2—Large Plates
- 4—Small Plates
- 1— $11\frac{1}{2}$ " Axle Rod
- 1—5" Axle Rod
- 2— $4\frac{1}{2}$ " Axle Rods
- 6—2" Axle Rods
- 1— $6\frac{1}{2}$ " Crank
- 2— $4\frac{1}{2}$ " Cranks
- 2—Pawls
- 143—Nuts and Screws

The **Traveling Rotary Crane** is a type of Crane used during the excavation of the Panama Canal. The lower framework is made of four $12\frac{1}{2}$ " Angle Girders, braced on each side by two $12\frac{1}{2}$ " Strips, with a Small Plate mounted in the top. The $11\frac{1}{2}$ " Axle Rod which forms the axis for the upper Boom is supported by two $5\frac{1}{2}$ " Strips set crossways, marked "E" in the drawing. This Axle Rod passes through a Double Bent Strip attached to the Small Plate at the point marked "F" and passes through a $2\frac{1}{2}$ " Strip at the top, at point marked "D." "A" is a $6\frac{1}{2}$ " Crank, to which is attached a $1\frac{1}{2}$ " Pulley Wheel. This is belted to a 1" Pulley Wheel, mounted on a 5" Axle Rod. To this Axle Rod is attached a Worm Wheel which meshes with the $\frac{3}{4}$ " Pinion mounted on the lower end of the $11\frac{1}{2}$ " Axle Rod. When this Crank is turned, the entire upper Boom revolves in a circle. "B" is a $4\frac{1}{2}$ " Crank which operates the Boom up and down while Crank "C" controls the load. "G" shows two $2\frac{1}{2}$ " Strips bolted to the Angle Girders between which the Flanged Wheels are mounted.

LIGHTHOUSE

Fig. No. 344

PARTS REQUIRED

- 8— $12\frac{1}{2}$ " Angle Girders
- 8— $5\frac{1}{2}$ " Angle Girders
- 19— $12\frac{1}{2}$ " Strips
- 19— $5\frac{1}{2}$ " Strips
- 3— $3\frac{1}{2}$ " Strips
- 20— $2\frac{1}{2}$ " Strips
- 1—Bush Wheel
- 2— $1\frac{1}{2}$ " Gear Wheels
- 1— $1\frac{1}{2}$ " Crown Gear
- 2— $\frac{3}{4}$ " Pinions
- 1— $\frac{1}{2}$ " Pinion
- 1—1" Pulley
- 6—Collars
- 2—8" Rods
- 2— $11\frac{1}{2}$ " Rods
- 1—Shaft Connector
- 1— $6\frac{1}{2}$ " Crank
- 1—Large Bent Strip
- 4—Large Plates
- 4—Small Plates
- 22—Angle Brackets
- 141—Nuts and Bolts

Lighthouse. The construction of this model is plainly shown in the cut, and therefore no detailed description is necessary.

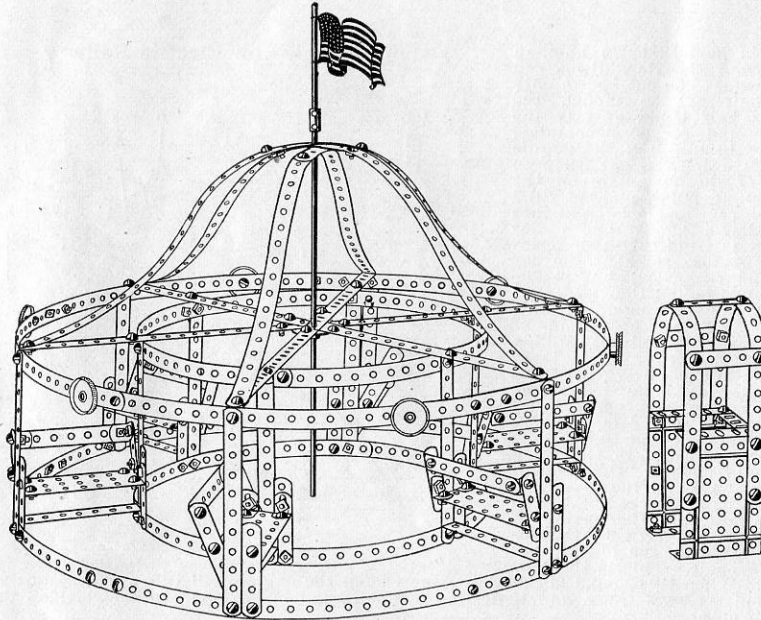
Attention might be called, however, to the method of transmitting the power from a horizontal shaft to a vertical, by means of a Pinion and a Crown Gear, which at the same time reduces the speed. See cut No. 8, page 74.

Also note that the speed of the lantern is reduced at two other points by means of a Pinion meshed with Gears as shown. See cut No. 10, page 75. Colored glass may be used in the lantern, or colored paper pasted on clear glass. A very pretty effect is obtained at night by suspending an electric light in the lantern.

The Model shown on this page can be made with The American Model Builder Outfit No. 6, or with No. 5 and No. $5\frac{1}{2}$ Combined.
HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

MERRY-GO-ROUND

Fig. No. 345



PARTS REQUIRED

- 1—Flanged Wheel
- 6—1" Pulleys
- 1—Bush Wheel
- 1—2 1/4" Gear Wheel
- 1—Worm Wheel
- 4—Collars
- 22—12 1/2" Strips
- 26—5 1/2" Strips
- 12—3 1/2" Strips
- 38—2 1/2" Strips
- 9—2" Strips

- 6—3 1/2" Angle Strips
- 3—5 1/2" Angle Girders
- 50—Angle Brackets
- 16—Obtuse Brackets
- 1—Large Bent Strip
- 6—3 1/2" Flat Plates
- 1—11 1/2" Rod
- 1—5" Rod
- 1—4 1/2" Rod
- 1—Shaft Connector
- 1—No. 150 Motor
- 229—Nuts and Bolts

Ticket Office

- 3—Small Plates
- 2—12 1/2" Strips
- 3—2 1/2" Strips
- 20—Nuts and Bolts

The Merry-Go-Round is a model that will prove to be both instructive and amusing to every boy and girl. It is shown in two sections, the power plant and the swinging portion.

The power plant should be built first and securely fastened by means of Angle Brackets and Wood Screws to a large wooden base, so that when the swinging portion is mounted in position it will keep it from toppling over.

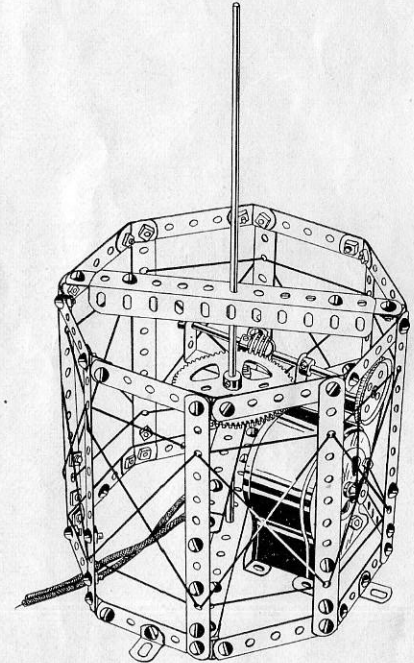
The Motor should be mounted inside of the power plant and belted to a 1 1/2" Pulley Wheel, which is fastened to the same Axle on which the Worm Wheel is mounted. This Worm Wheel drives the 2 1/2" Gear mounted on the 11 1/2" upright Axle which revolves the swing. See cut No. 1, page 74.

Across the power plant is bolted several Angle Girders to stiffen the framework and carry the weight of the swinging portion. The construction of the swinging portion is very simple, and the details can easily be followed from the cut.

At the top center of the swinging portion where the cross members meet which holds the circle of the swing together is mounted a Bush Wheel, which is to receive the 11 1/2" Axle Rod extending upward from the power plant. When the swinging portion is thus mounted the Set Screw in the Bush Wheel should be fastened tight to the Axle Rod, as otherwise the swing will not revolve.

The construction of the small ticket booth at the right of the swing needs no explanation. It can be made with a round top as shown in the cut, or with a gable roof, and it should be fastened to the wood base on which the power plant is mounted.

Detail of Merry-Go-Round

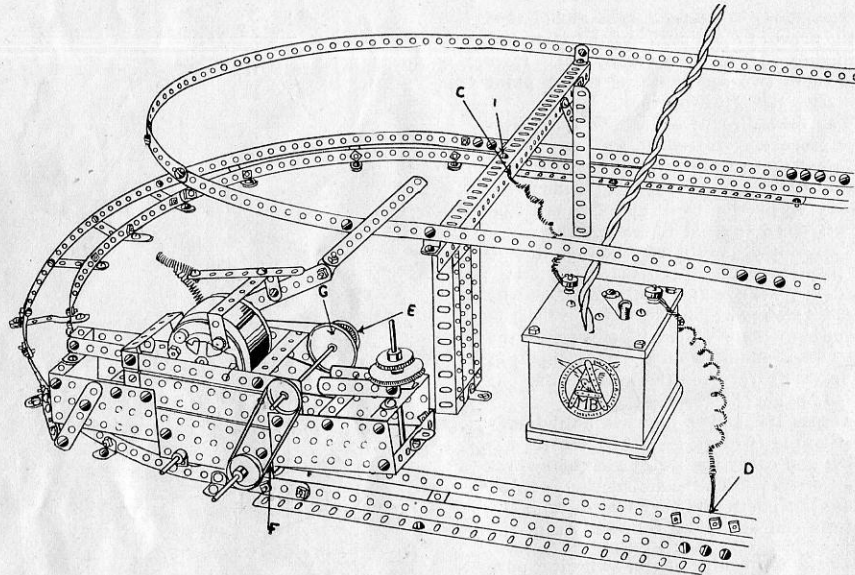


The Models shown on this page can be made with The American Model Builder Outfit No. 6, or with No. 5 and No. 5 1/2 Combined.

HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

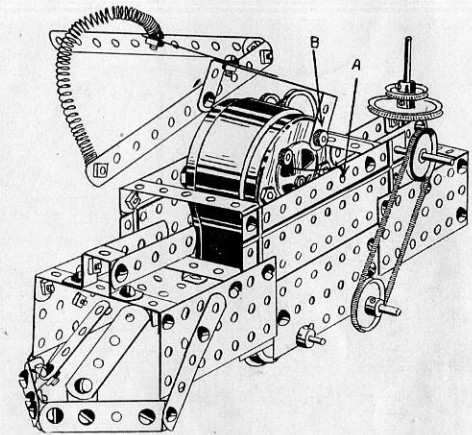
ELECTRIC RAILWAY

Fig. No. 346



This model shows how an overhead **Electric Railway** can be made. The cut shows only one-half of the model, the other half being exactly the same and forms a complete oval. In building the engine attach a Large Bent Strip to one of the terminals on the model at point marked "B," which carries the current into a trolley pole. Ground a copper wire from the other terminal at the frame of the car at point marked "A." The motor is belted to a $1\frac{1}{2}$ " Pulley Wheel "G" mounted on a $3\frac{1}{2}$ " Axle, on each end of which is mounted a 1" Pulley Wheel marked "E." — these Pulley Wheels being belted to the driving axle below, as shown in the cut of the engine. The power is obtained by attaching one wire from the transformer to the track at point marked "D," and another wire to the overhead rail at point marked "C." You will note that the spring in the sectional view of the engine takes up the play in the trolley pole. This is the regular $1\frac{1}{4}$ " spring pulled apart so as to loosen the tension. When this model is properly constructed the engine will travel continuously around the oval track, and if desired a small car can be made and hooked on to the tender.

Detail of Engine on Electric Railway



PARTS REQUIRED

Electric Engine

- 2—Flanged Wheels
- 2—Car Wheels
- 2— $1\frac{1}{2}$ " Pulleys
- 5—1" Pulleys
- 4—Collars
- 2— $5\frac{1}{4}$ " Strips
- 1— $3\frac{1}{2}$ " Strip
- 6— $2\frac{1}{4}$ " Strips
- 4—2" Strips

- 7— $2\frac{1}{2}$ " Strips
- 3—Angle Brackets
- 4—Obtuse Angles
- 2—Double Bent Strips
- 1—Large Bent Strip
- 1—Large Plate
- 6— $3\frac{1}{2}$ " Flat Plates
- 2— $5\frac{1}{4}$ " Flat Plates
- 3— $4\frac{1}{2}$ " Axle Rods
- 1— $3\frac{1}{2}$ " Axle Rod
- 2—Pulley Belts

- 1—Motor No. 150
- 50—Nuts and Bolts

Track

- 12— $12\frac{1}{2}$ " Strips
- 2— $5\frac{1}{4}$ " Strips
- 36— $2\frac{1}{2}$ " Strips
- 8— $12\frac{1}{2}$ " Angle Girders
- 36—Angle Brackets
- 151—Nuts and Bolts

Overhead Trolley System

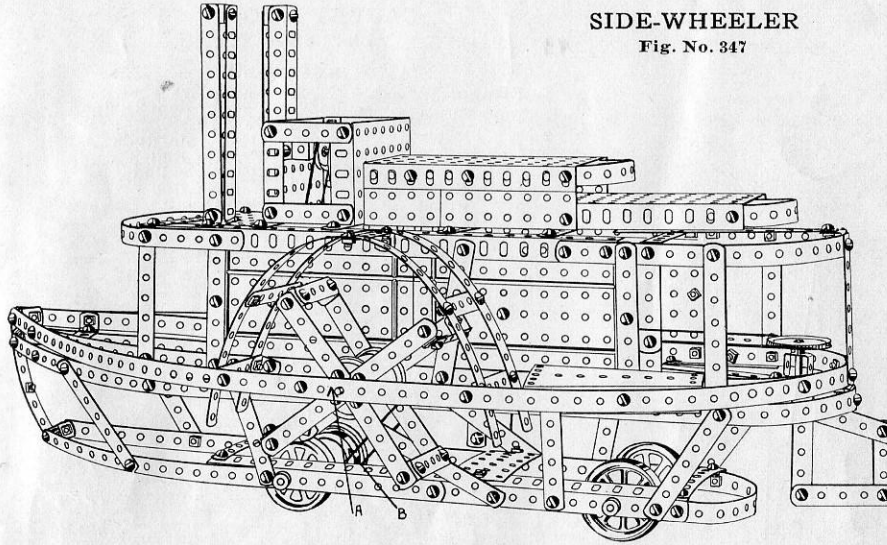
- 12— $12\frac{1}{2}$ " Strips
- 2— $5\frac{1}{4}$ " Strips
- 2— $12\frac{1}{2}$ " Girders
- 2— $5\frac{1}{4}$ " Girders
- 2—Large Plates
- 10—Angle Brackets
- 48—Nuts and Bolts

The Models shown on this page can be made with The American Model Builder Outfit No. 6, or with No. 5 and No. $5\frac{1}{2}$ Combined.

HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

SIDE-WHEELER

Fig. No. 347



Side Wheeler. The construction of this model is comparatively simple. A wheel is constructed on each side of the boat and mounted on the Axle Rod "A" which passes through the entire boat. These side wheels are driven by a belt passing over the Flanged and Grooved Wheels, and over the two $1\frac{1}{2}$ " Pulley Wheels mounted on the lower axle at point marked "B." When this model is pulled over the floor the friction on the auto wheels will cause the side wheels to revolve.

PARTS REQUIRED

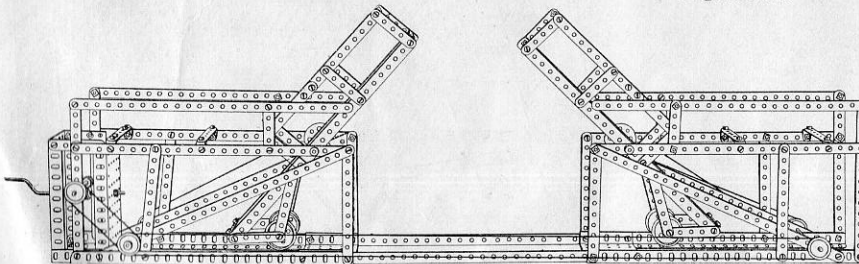
- 4—Flanged Wheels
- 3— $1\frac{1}{2}$ " Pulleys
- 5—1" Pulleys
- 2—Bush Wheels
- 4—Auto Wheels
- 13—Collars
- 22— $12\frac{1}{2}$ " Strips
- 20— $5\frac{1}{2}$ " Strips
- 18— $3\frac{1}{2}$ " Strips
- 4—3" Strips

- 31— $2\frac{1}{2}$ " Strips
- 9—2" Strips
- 4— $2\frac{1}{2}$ " Angle Strips
- 1— $5\frac{1}{2}$ " Angle Strip
- 6— $12\frac{1}{2}$ " Angle Girders
- 4— $5\frac{1}{2}$ " Angle Girders
- 50—Angle Brackets
- 6—Obtuse Angles
- 2—Double Bent Strips
- 3—Large Plates

- 2—Small Plates
- 2—Sector Plates
- 5— $3\frac{1}{2}$ " Flat Plates
- 4— $5\frac{1}{2}$ " Flat Plates
- 3—6" Axle Rods
- 2—5" Axle Rods
- 1— $3\frac{1}{2}$ " Axle Rod
- 1—2" Axle Rod
- 1—Motor, No. 150
- 250—Nuts and Bolts

BASCULE BRIDGE

Fig. No. 348

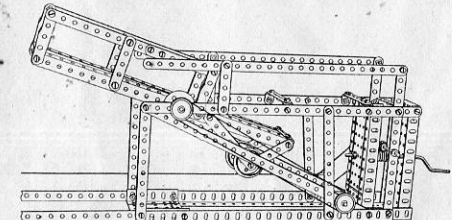


Bascule Bridge. The sectional view is taken from the rear of the left side of the bridge and clearly shows how the belts are carried from the lower axle to the moving section. On the other half of the bridge the belt should be crossed so that the sections will move in the opposite direction. This model when completed makes an interesting study as it is built on strictly scientific principles.

PARTS REQUIRED

- 1— $5\frac{1}{2}$ " Crank
- 4—Flanged Wheels
- 6—1" Pulleys
- 2— $1\frac{1}{2}$ " Pulleys
- 1— $1\frac{1}{2}$ " Pinion
- 8— $12\frac{1}{2}$ " Angle Girders
- 14— $12\frac{1}{2}$ " Strips
- 16— $5\frac{1}{2}$ " Strips
- 12— $3\frac{1}{2}$ " Strips
- 32— $2\frac{1}{2}$ " Strips
- 3—Small Plates
- 2—Large Plates
- 3—5" Axle Rods
- 2— $4\frac{1}{2}$ " Axle Rods

- 2— $3\frac{1}{2}$ " Axle Rods
- 1—Worm Wheel
- 2—Bush Wheels
- 4—Collars
- 14—Angle Brackets
- 122—Nuts and Screws

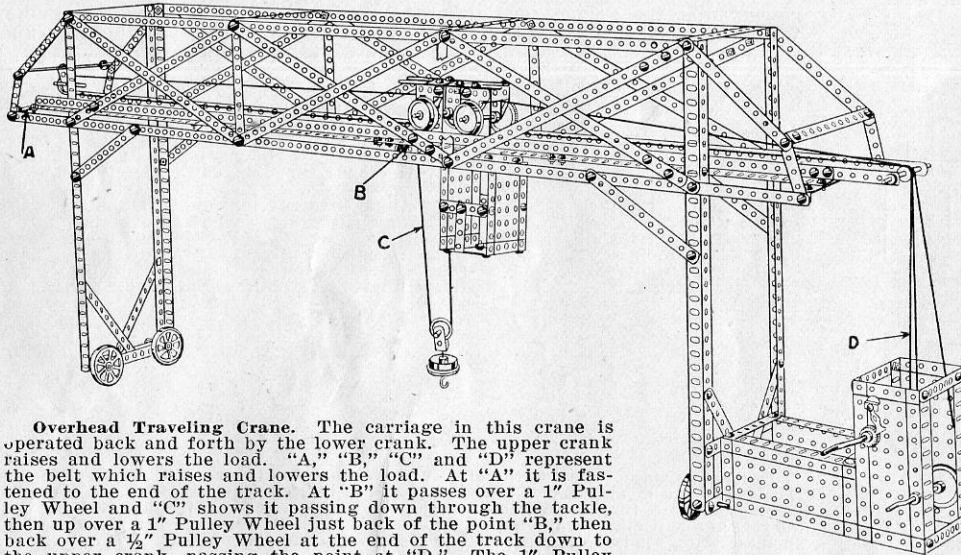


The Models shown on this page can be made with The American Model Builder Outfit No. 6, or with No. 5 and No. $5\frac{1}{2}$ Combined.

HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

OVERHEAD TRAVELING CRANE

Fig. No. 349



Overhead Traveling Crane. The carriage in this crane is operated back and forth by the lower crank. The upper crank raises and lowers the load. "A," "B," "C" and "D" represent the belt which raises and lowers the load. At "A" it is fastened to the end of the track. At "B" it passes over a 1" Pulley Wheel and "C" shows it passing down through the tackle, then up over a 1" Pulley Wheel just back of the point "B," then back over a $\frac{1}{2}$ " Pulley Wheel at the end of the track down to the upper crank, passing the point at "D." The 1" Pulley Wheels at "B" are hidden, but these are mounted on Axle Rods which pass through $3\frac{1}{2}$ " Strips attached to the operating cage.

PARTS REQUIRED

3—Flanged Wheels
1— $1\frac{1}{2}$ " Pulley
4—1" Pulleys
3— $\frac{1}{2}$ " Pulleys
2—Bush Wheels
4—Auto Wheels
4—Car Wheels
3— $\frac{1}{2}$ " Pinions
2— $\frac{3}{4}$ " Pinions
13—Collars
24— $12\frac{1}{2}$ " Strips

31— $5\frac{1}{2}$ " Strips
9— $3\frac{1}{2}$ " Strips
4—3" Strips
24— $2\frac{1}{2}$ " Strips
6—2" Strips
6— $5\frac{1}{2}$ " Angle Strips
10— $12\frac{1}{2}$ " Angle Girders
8— $5\frac{1}{2}$ " Angle Girders
28—Angle Brackets
2—Single Bent Strips
3— $3\frac{1}{2}$ " Axle Rods

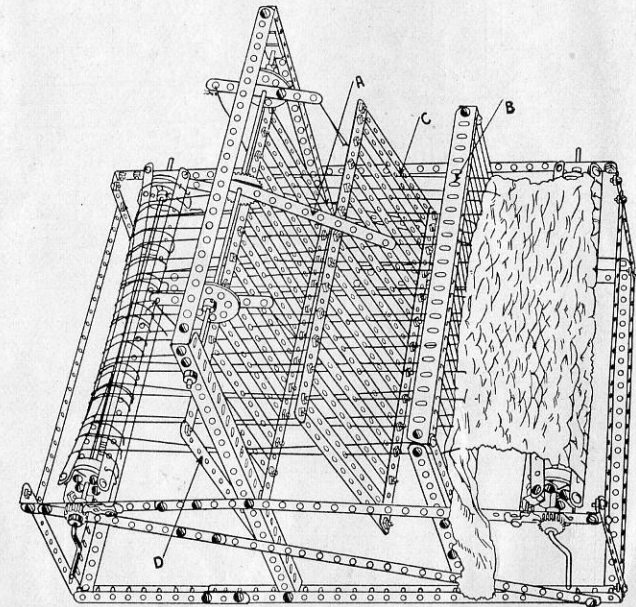
8—2" Axle Rods
4— $4\frac{1}{2}$ " Axle Rods
1— $6\frac{1}{2}$ " Crank
1— $5\frac{1}{2}$ " Crank
4—Truck Frames
1—Pawl
180—Nuts and Bolts
2—Small Plates
4—Large Plates

CARPET LOOM

Fig. No. 350

PARTS REQUIRED

4—Flanged Wheels	22—Angle Brackets
2—Bush Wheels	2—Double Bent Strips
2— $\frac{3}{4}$ " Pinions	2—Pawls
1— $1\frac{1}{2}$ " Gear Wheel	2— $11\frac{1}{2}$ " Axle Rods
6—Collars	1— $3\frac{1}{2}$ " Axle Rod
19— $12\frac{1}{2}$ " Strips	1—2" Axle Rod
36— $5\frac{1}{2}$ " Strips	1— $6\frac{1}{2}$ " Crank
2— $3\frac{1}{2}$ " Strips	1— $4\frac{1}{2}$ " Crank
8— $12\frac{1}{2}$ " Angle Girders	1—Shaft Connectors
6— $5\frac{1}{2}$ " Angle Girders	145—Nuts and Bolts



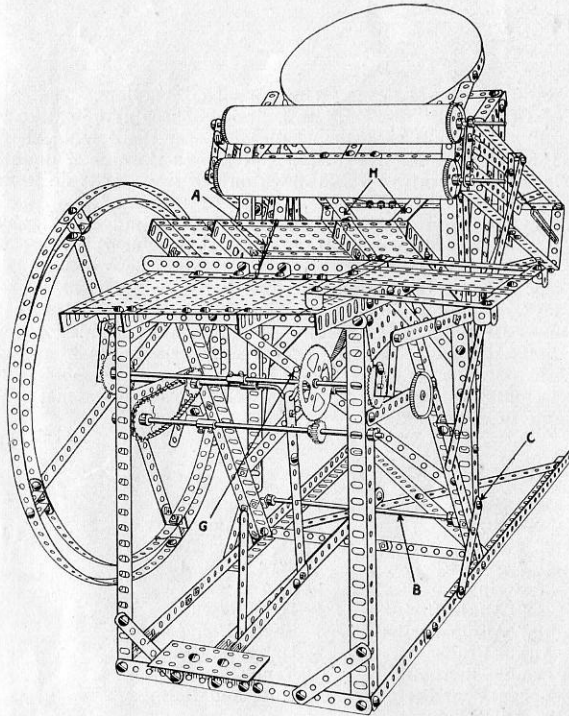
Carpet Loom. Lever "A" separates the cords by raising and lowering the frames "C" and "D." The yarn to be woven is then passed through these cords and drawn tight by pulling frame "B" forward. This model will actually weave a strip of carpet 12" wide.

The Models shown on this page can be made with The American Model Builder Outfit No. 6, or with No. 5 and No. $5\frac{1}{2}$ Combined.

HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

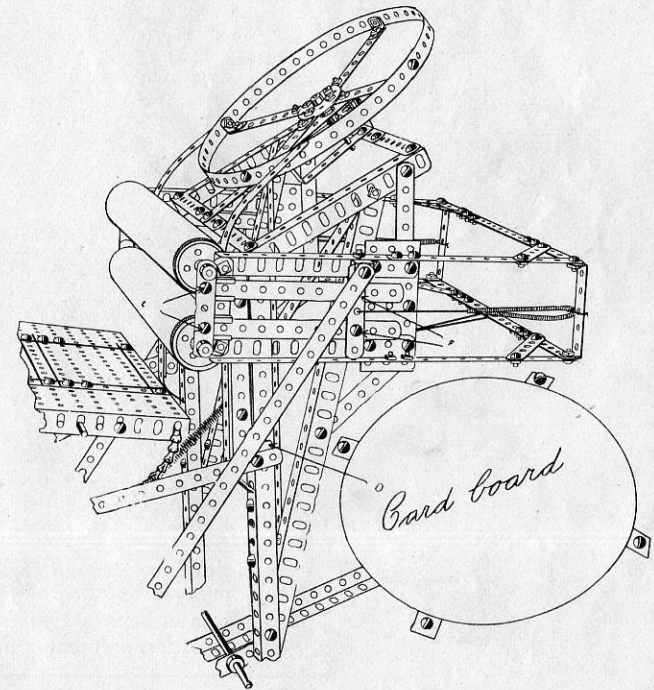
JOB PRINTING PRESS

Fig. No. 351



The Job Printing Press is one of the most complete models shown in the book, and when the outside framework is built up will not be nearly as complicated as it at first appears. It is operated by the foot treadle pivoted on Axle "B," and attached to an engine crank by means of a $5\frac{1}{2}$ " and $2\frac{1}{2}$ " Strip. On the outside end of the engine crank is attached a large fly wheel, the crank being belted to the main driving shaft by means of a sprocket chain. The front frame of the press is stationary, and is held rigid by two $12\frac{1}{2}$ " Cross Strips "G" bolted to Angle Girders. "H" represents two crossed $12\frac{1}{2}$ " Strips which support the sides of the back frame, which, as indicated by the detail cut, swings back and forth, and is pivoted at point marked "C." This back frame is operated back and forth by the Crank made of a Hanger Strip and attached to the back frame at point marked "D" by means of two Angle Brackets. The rollers are mounted on $2\frac{1}{2}$ " Strips and on the screws "E" and "F" should be placed lock nuts so as to allow the rollers to adjust themselves when passing over the ink plate. "A" represents an ordinary rubber band which is attached to the movable bed to help draw it back when the rollers return to their home position.

Detail of Job Press



PARTS REQUIRED

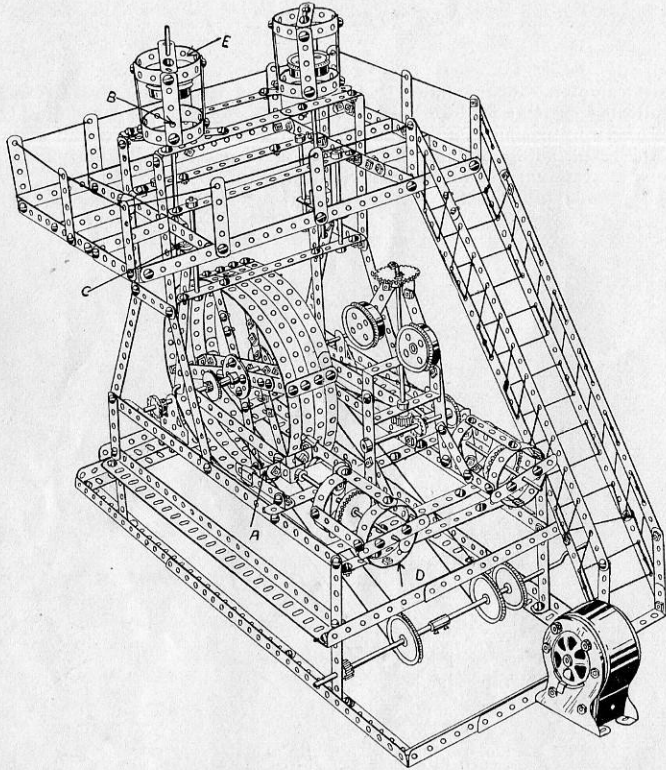
- | | | | |
|------------------------------|-------------------------------------|---------------------------------|----------------------------------|
| 4—Flanged Wheels | 11— $3\frac{1}{2}$ " Strips | 4—Large Plates | 4—Eye Pieces |
| 1— $1\frac{1}{2}$ " Pulley | 8— $3\frac{1}{2}$ " Strips | 6— $3\frac{1}{2}$ " Flat Plates | 1—Chain |
| 3— $1\frac{1}{2}$ " Pulleys | 15— $2\frac{1}{2}$ " Strips | 4— $5\frac{1}{2}$ " Flat Plates | 2—Washers |
| 2—Bush Wheels | 2— $2\frac{1}{2}$ " Angle Strips | 2— $11\frac{1}{2}$ " Axle Rods | 1— $1\frac{1}{2}$ " Sprocket |
| 1— $3\frac{1}{2}$ " Pinion | 10— $12\frac{1}{2}$ " Angle Girders | 1—8" Axle Rod | 1— $1\frac{1}{2}$ " Sprocket |
| 2— $1\frac{1}{2}$ " Gears | 8— $5\frac{1}{2}$ " Angle Girders | 1—6" Axle Rod | 2—Pulley Belts |
| 1— $2\frac{1}{2}$ " Gear | 28—Angle Brackets | 3—5" Axle Rods | 4—Shaft Connectors |
| 16—Collars | 4—Double Bent Strips | 4— $3\frac{1}{2}$ " Axle Rods | 250—Nuts and Bolts |
| 24— $12\frac{1}{2}$ " Strips | 1—Large Bent Strip | 1—2" Axle Rod | 4— $5\frac{1}{2}$ " Angle Strips |
| 36— $5\frac{1}{2}$ " Strips | 4—Hanger Strips | 1—Spring | |

The Model shown on this page can be made with The American Model Builder Outfit No. 6, or with No. 5 and No. $5\frac{1}{2}$ Combined.

HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

STATIONARY ENGINE

Fig. No. 352



The Stationary Engine makes a very interesting and beautiful model when complete. The cylinders at the top marked "E" are made of two $3\frac{1}{2}$ " Strips, bent in a circle. These cylinder heads are held together by $2\frac{1}{2}$ " Strips marked "B" and should be adjusted directly over the driving shaft of the fly wheel. At point marked "C" the axle forming the piston rod passes through a double bent strip which is attached to a $2\frac{1}{2}$ " Strip which operates up and down on the two $3\frac{1}{2}$ " Axle Rods to keep the piston centered. A $5\frac{1}{2}$ " Strip is then bolted to this $2\frac{1}{2}$ " Strip by means of two Angle Brackets. This $5\frac{1}{2}$ " Strip is then fastened to the engine crank below. The front cylinder heads are made of a $5\frac{1}{2}$ " and $2\frac{1}{2}$ " Strip overlapped and properly bent, marked "D." A second $5\frac{1}{2}$ " Strip is attached to the engine crank to operate the forward cylinders, and this strip is connected to the forward pistons between four angle brackets attached to a double bent strip at point marked "A," the outside angle bracket being attached to eye pieces which slide forward and back on the $2\frac{1}{2}$ " Strips. The engine is operated by the lower driving shaft with pulley belts on both sides of fly wheels. The governor is operated by being belted to the axle on the right-hand side of the fly wheel, where two 1" pulley wheels are placed side by side. While this model may seem complicated from the cut, yet if the framework is built first and the fly wheel and pistons mounted afterwards it will be found comparatively simple in construction.

PARTS REQUIRED

4—Flanged Wheels	36— $5\frac{1}{2}$ " Strips	3—5" Axle Rods
3— $1\frac{1}{2}$ " Pulleys	10— $3\frac{1}{2}$ " Strips	1— $4\frac{1}{4}$ " Axle Rod
4—1" Pulleys	6—3" Strips	5— $3\frac{1}{2}$ " Axle Rods
2—Bush Wheels	56— $2\frac{1}{2}$ " Strips	1—2" Axle Rod
1— $\frac{3}{4}$ " Pinion	10—2" Strips	1— $6\frac{1}{2}$ " Crank
2— $\frac{1}{2}$ " Pinions	8— $2\frac{1}{2}$ " Angle Strips	4—Eye Pieces
1— $1\frac{1}{2}$ " Gear Wheel	4— $5\frac{1}{2}$ " Angle Strips	3—Shaft Connectors
2— $1\frac{1}{2}$ " Crown Gears	60—Angle Brackets	2—Drive Shafts
2— $\frac{3}{4}$ " Crown Gears	4—Double Bent Strips	2—Truck Frames
16—Collars	2—Large Bent Strips	250—Nuts and Bolts
14— $12\frac{1}{2}$ " Strips	2—8" Axle Rods	



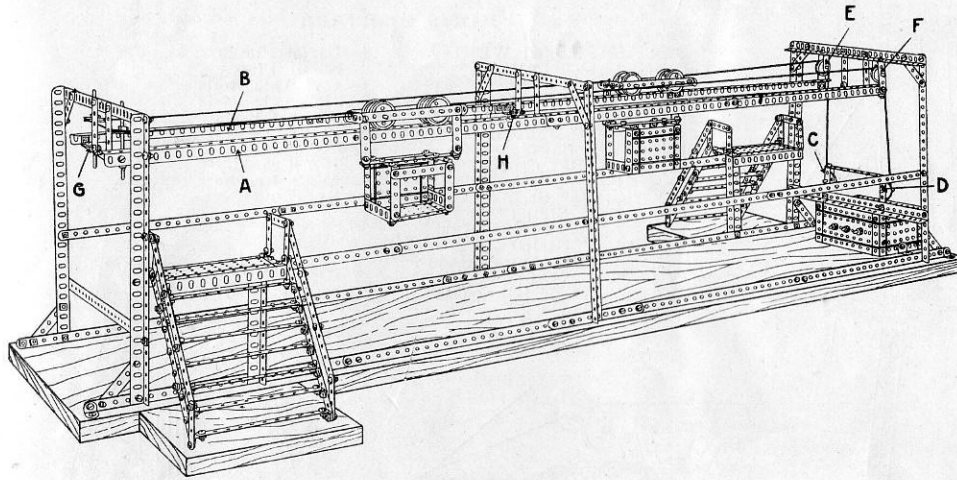
The Stationary Engine completes the models than can be built with Outfit No. 6. By purchasing Accessory Outfit No. $6\frac{1}{2}$, many additional Models can be made, 18 of which are shown on the following pages.

For prices of separate parts and Accessory Outfits, see pages 79 and 80.

For special Transformers and Countershaft for operating Models by Electricity, see page 76.

The Model shown on this page can be made with The American Model Builder Outfit No. 6, or with No. 5 and No. $5\frac{1}{2}$ Combined.

HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.



The Monorail is comparatively simple... The upright frames are made first, as shown in the cut, and these are held together by eight $12\frac{1}{2}$ " Strips, bolted at the bottom and in the center of these frames.

The track is made of eight $12\frac{1}{2}$ " Angle Girders "A" and "B," fastened together by three $5\frac{1}{2}$ " Strips. This track is held in position by six $2\frac{1}{2}$ " upright Strips, bolted to the $5\frac{1}{2}$ " cross Strips "G" and "H." These $2\frac{1}{2}$ " Strips should be set five holes apart so as not to interfere with the cars as they pass back and forth. The Pulleys "E" and "F" are held in position by two Hanger Strips bolted to the Angle Girder at the top and to the side of the track at the bottom. The Pulleys "C" and "D," fastened above the Gear housing, are held in position by two Hanger Strips bolted to the $12\frac{1}{2}$ " Angle Girder and held apart by $5\frac{1}{2}$ " Strips fastened across the top. When fastening the string, both cars should be placed directly under the center frame. One end of the string should be fastened to the rear end of one car and pass around the horizontal Pulleys on the left side of the structure and the other end fastened to the opposite car. Then attach a separate string to the front end of each car, passing same over Pulleys "E" and "F" and fasten the other ends to the two Axles in the Gear housing.

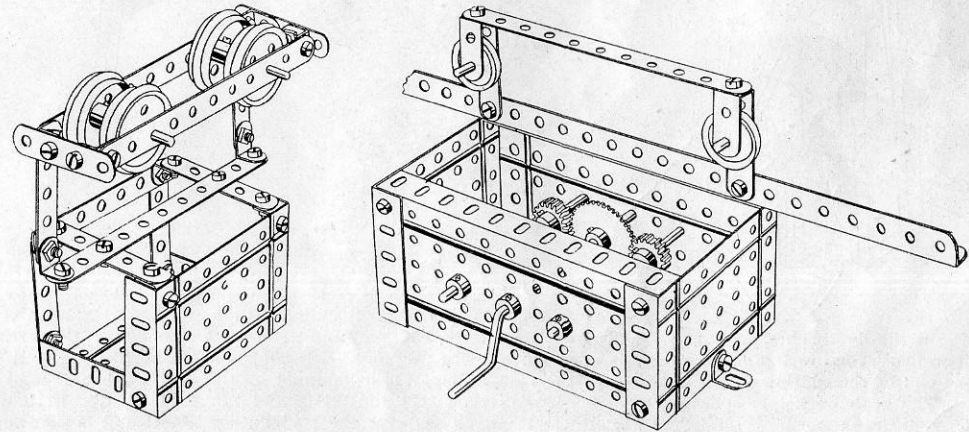
If this model is to be operated by a Motor, a Countershaft should be used to reduce the speed of the Motor and belt it to a $1\frac{1}{2}$ " Pulley attached to the $6\frac{1}{2}$ " Crank in the Gear housing.

MONORAIL

Fig. No. 353

PARTS REQUIRED

18— $12\frac{1}{2}$ " Angle Girders	2— $3\frac{1}{2}$ " Axle Rods
2— $5\frac{1}{2}$ " Angle Girders	4—2" Axle Rods
18— $12\frac{1}{2}$ " Strips	4—1" Axle Rods
42— $5\frac{1}{2}$ " Strips	1— $6\frac{1}{2}$ " Crank
2— $3\frac{1}{2}$ " Strips	2— $\frac{3}{4}$ " Pinions
2—3" Strips	1— $1\frac{1}{2}$ " Gear
30— $2\frac{1}{2}$ " Strips	6—1" Pulleys
16—2" Strips	8—Flanged Wheels
4—Hanger Strips	10—Collars
4—Large Plates	84—Angle Brackets
6—Small Plates	290—Nuts and Screws
2— $4\frac{1}{2}$ " Axle Rods	

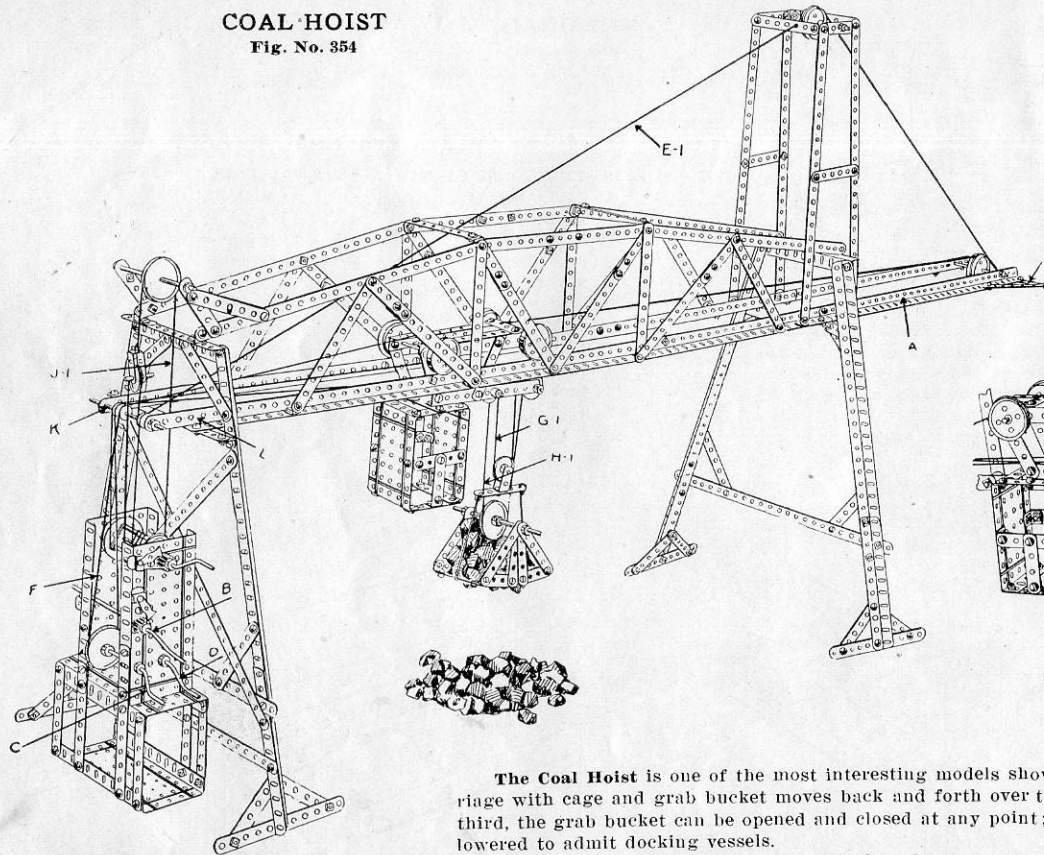


The Model shown on this page can be made with The American Model Builder Outfit No. 7, or with No. 6 and No. $6\frac{1}{2}$ Combined.

HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

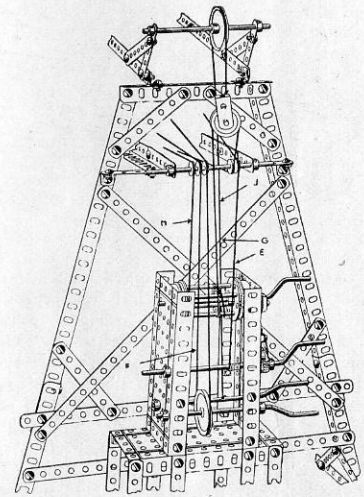
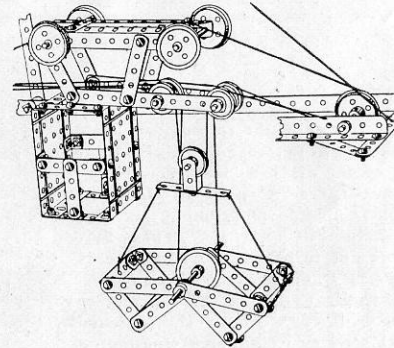
COAL HOIST

Fig. No. 354



PARTS REQUIRED

- | | |
|-----------------------|---------------------|
| 8—Flanged Wheels | 4—Large Plates |
| 3—1½" Pulleys | 2—Small Plates |
| 6—1" Pulleys | 4—4½" Axle Rods |
| 5—½" Pulleys | 3—3½" Axle Rods |
| 2—Bush Wheels | 6—2" Axle Rods |
| 2—½" Pinions | 2—1" Axle Rods |
| 19—Collars | 1—6½" Crank |
| 13—12½" Strips | 3—5½" Cranks |
| 34—5½" Strips | 46—Angle Brackets |
| 16—3½" Strips | 260—Nuts and Screws |
| 18—3" Strips | |
| 32—2½" Strips | |
| 10—2" Strips | |
| 12—12½" Angle Girders | |
| 8—5½" Angle Girders | |
| 2—Single Bent Strips | |
| 2—Pawls | |



The Coal Hoist is one of the most interesting models shown in the book. It has four distinct movements—first, the entire carriage with cage and grab bucket moves back and forth over the track; second, the grab bucket can be raised or lowered at any point; third, the grab bucket can be opened and closed at any point; fourth, the overhanging runway at the extreme right can be raised or lowered to admit docking vessels.

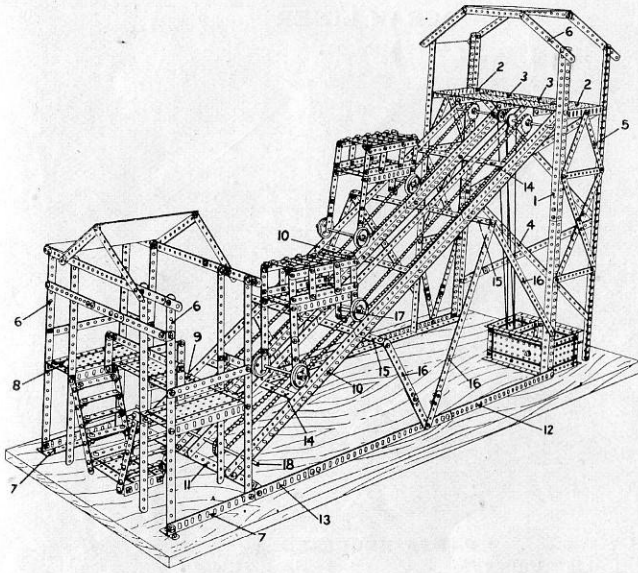
In the detail cuts, we show the construction of the carriage and grab bucket and also the arrangement of the various cables, cranks and windlass from which they are operated. The overhanging runway is operated by cord "E" and "E-1" and is attached to Crank "B." The carriage is operated back and forth by cord "F," which is fastened to one end of the carriage, then passes over the 1½" Pulley Wheel mounted on Crank "C," then around the 1½" Flanged Wheel, then fastened to the other end of the carriage.

The grab bucket is operated by two cords marked "G" and "G-1" and "H" and "H-1." Both wind on the windlass. The grab bucket is opened and closed by Crank "D." To this Crank, cord "J" and "J-1" is attached and passes over the 1½" Pulley Wheel and is fastened in the Single Bent Strip. By operating the Crank it shortens and lengthens the cord, thus opening and closing the grab bucket. "L" represents two 3½" Strips bolted on the Angle Girder to support Shaft "K."

The Model shown on this page can be made with The American Model Builder Outfit No. 7, or with No. 6 and No. 6½ Combined.
 HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

INCLINED CHAIN RAILWAY

Fig. No. 355



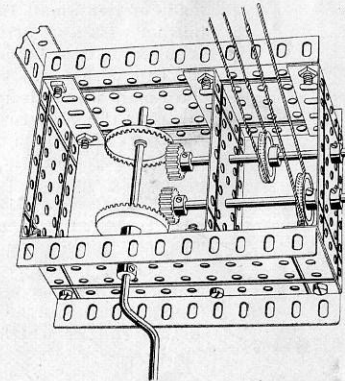
PARTS REQUIRED

- | | |
|-----------------------|---------------------|
| 24—12½" Angle Girders | 4—5" Axle Rods |
| 5—5½" Angle Girders | 1—6½" Crank |
| 21—12½" Strips | 2—1½" Crown Gears |
| 50—5½" Strips | 2—¾" Pinions |
| 9—3½" Strips | 4—1" Pulley Wheels |
| 24—2½" Strips | 8—Flanged Wheels |
| 8—2" Strips | 2—1½" Sprockets |
| 2—Hanger Strips | 2—1" Sprockets |
| 8—Large Plates | 2—Chains |
| 10—Small Plates | 12—Collars |
| 1—11½" Axle Rod | 70—Angle Brackets |
| 4—4½" Axle Rods | 350—Nuts and Screws |

The Inclined Chain Railway is a model similar to the inclines used in a great many cities where it is necessary to mount exceptionally steep hills. First, erect the rear Tower, placing in position the upper platform, made of two Large Plates (2) and four Small Plates (3), all bolted together. The rear of the platform should be braced with diagonal Strips as shown. The loading platform is made of two Large Plates (8) and two Small Plates (9) bolted together. The four inclined tracks should next be made of three 12½" Angle Girders (10) overlapping two holes and bolted at the top to the under side of Plates "2" and "3" and fastened at the bottom to two 5½" Strips (11).

The track should be stiffened by six 5½" cross Strips (14) and two 12½" cross Strips (15). A Hanger Strip should be attached on the under side of the Large Plate, forming the bottom of the car, and the lower end of this should be fastened to the Chain by means of an Angle Bracket. The Gearing is shown in the detail cut. The Sprocket Wheels at the top should be fastened to the Axle Rod, while those at the bottom should run loose on the 11½" Axle Rod (18) as they revolve in opposite directions. When completed, this model stands 2½ feet high by 3½ feet long and is most realistic in all its workings. When using a Motor, be sure to use a Countershaft, so as to reduce the speed and increase the power.

Details



The Model shown on this page can be made with The American Model Builder Outfit No. 7, or with No. 6 and No. 6½ Combined.

HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

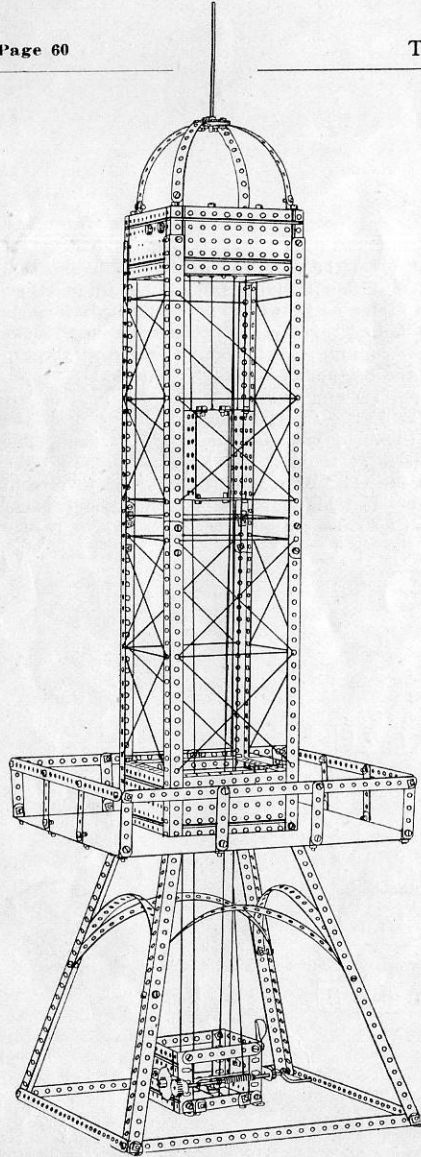
EIFFEL TOWER

Fig. No. 356

PARTS REQUIRED

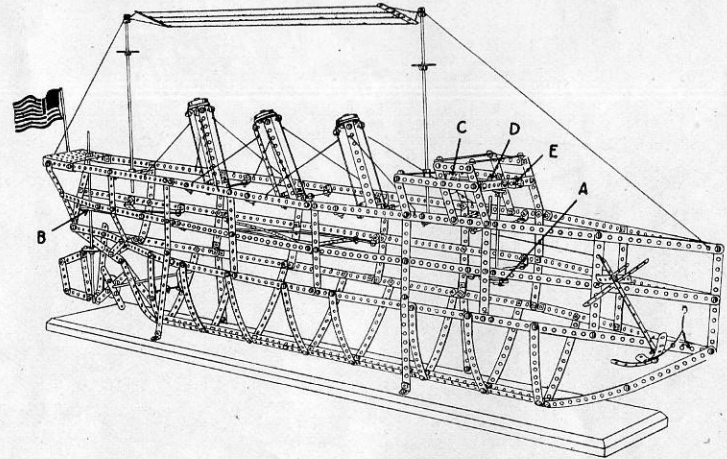
- 12—12½" Angle Girders
- 20—12½" Strips
- 10—5½" Strips
- 8—3½" Strips
- 17—2½" Strips
- 44—Angle Brackets
- 1—Bush Wheel
- 1—1½" Gear Wheel
- 1—¾" Pinion
- 1—½" Pinion
- 1—Pawl
- 1—6½" Crank
- 2—5" Axle Rods
- 2—6" Axle Rods
- 2—1" Pulleys
- 6—Collars
- 8—Large Plates
- 2—Small Plates
- 146—Nuts and Screws

This Model is a miniature of the famous **Eiffel Tower** located at Paris. The construction of this is very simple, and the model itself pleasing in effect. The construction of the main framework, the dome and the railing around the plates is very clearly shown and needs no particular instruction. The elevator which moves up and down is made of two Small Plates fastened at the top and bottom with 2½" Strips. The cage at the bottom is made of two Small Plates fastened together at the end with four 3½" Strips. On either side of the Small Plates is mounted a 3½" Strip extending over the edge two holes which forms the axis for the shaft which raises and lowers the elevator. The gearing is very simple and is accomplished by means of a 6½" Crank at the end of which is attached a 1½" Gear Wheel which meshes with the ¾" Pinion mounted on the 5" Axle Rod. The top mechanism consists of two 6" Axles, on each of which is mounted a 1" Pulley. This model can be operated by a motor, in which case the Crank should be replaced by a 5" Axle Rod, on the end of which should be mounted a 1½" Pulley.



OCEAN LINER

Fig. No. 357



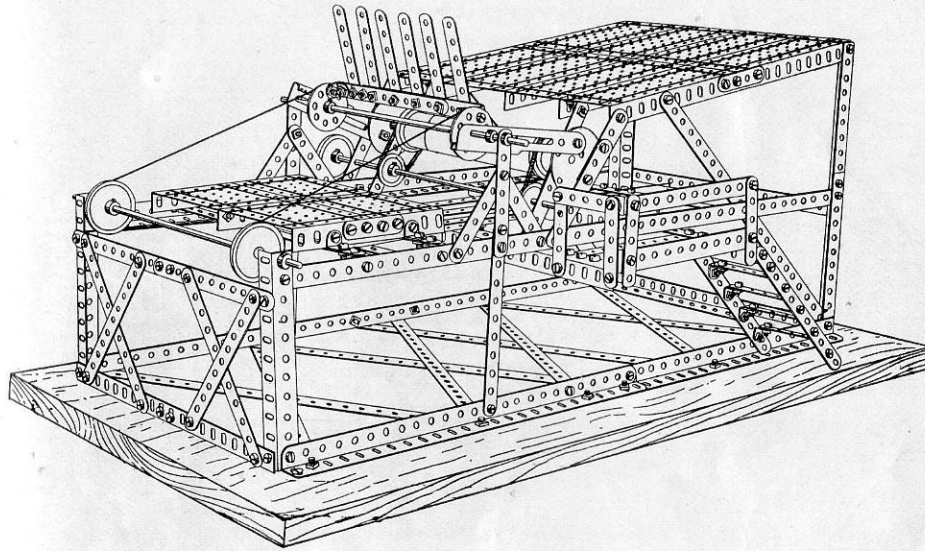
PARTS REQUIRED

- | | |
|---------------------|----------------------|
| 1—1½" Pulley | 1—Small Plate |
| 7—Flanged Wheels | 3—12½" Angle Girders |
| 5—Bush Wheels | 66—Angle Brackets |
| 1—¾" Pinion | 2—5" Axle Rods |
| 1—¾" Crown Gear | 3—6" Axle Rods |
| 20—Collars | 1—8" Axle Rod |
| 26—12½" Strips | 3—11½" Axle Rods |
| 66—5½" Strips | 2—Hanger Strips |
| 25—3½" Strips | 2—6½" Cranks |
| 18—2½" Strips | 264—Nuts and Screws |
| 1—Double Bent Strip | 4—Wood Screws |
| 1—Large Bent Strip | |

The **Ocean Liner** is a most realistic model when completed. The construction is comparatively simple and needs no particular explanation. We have marked several parts and these are as follows:

"C" is a Bush Wheel attached to a 4½" Axle Rod. The bearing for this Wheel is formed by fastening a Double Bent Strip to the 5½" Strip at point marked "E." "D" is a ¾" Pinion mounted on this 4½" Axle Rod and this meshes with the ¾" Crown Gear. At the lower end of the Axle carrying this ¾" Crown Gear is mounted a Flanged Wheel at point marked "A." This Flanged Wheel is belted to the 1½" Pulley Wheel at point marked "B," which operates the rudder from side to side. The tail-piece at the upper rear end of the Boat is formed by bending a 5½" Strip around the Small Plate, in which the flag is mounted.

The Models shown on this page can be made with The American Model Builder Outfit No. 7, or with No. 6 and No. 6½ Combined.
HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

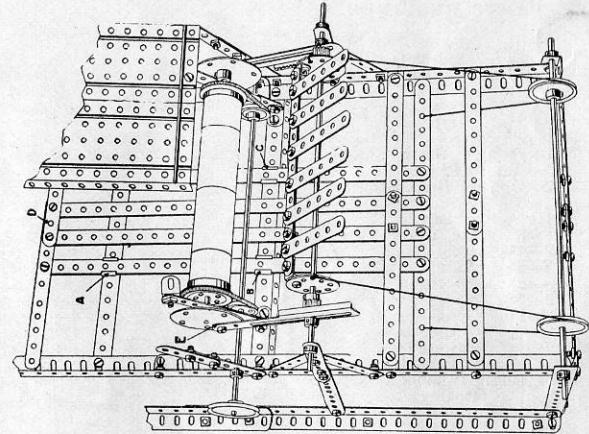


CYLINDER PRESS

Fig. No. 358

PARTS REQUIRED

- 8—Large Plates
- 4—Small Plates
- 10—12½" Angle Girders
- 11—5½" Angle Girders
- 10—12½" Strips
- 27—5½" Strips
- 6—3½" Strips
- 10—3" Strips
- 14—2½" Strips
- 8—2" Strips
- 27—Angle Brackets
- 4—Eye Pieces
- 3—11½" Axle Rods
- 1—8" Axle Rod
- 8—Collars
- 3—1½" Pulleys
- 2—1" Pulleys
- 2—Flanged Wheels
- 2—Bush Wheels
- 2—Pinions
- 2—Eccentric Wheels
- 2—Oscillating Racks
- 2—Washers
- 2—Pulley Belts
- 206—Nuts and Screws



The Base frame of the **Cylinder Press** should be made first of four 12½" Angle Girders bolted together and braced by the 12½" diagonal Strips as shown in the large cut. Then attach two upright 5½" Angle Girders in the front and two 5½" Angle Girders bolted together in the rear. To these should be fastened the eight Large Plates all bolted together with 2" Strips which forms the feed table. This table is fastened in front to the main frame by a diagonal brace on each side made of a 3½" and 2½" Strip bolted together. A 12½" diagonal Strip should then be bolted on each side.

Two 12½" Angle Girders should then be bolted on the under side of the frame and allowed to extend over the side to form the support for the feeder's platform.

Next attach the diagonal Strip which carries the Cylinder. This is made by bolting a 3½" and 2½" Strip together, then fasten the lower end to the 12½" Angle Girder and bolt the upper end in the fourth hole of the Large Plate as shown in the sectional cut. An 8" Axle should then be passed through the fourth hole from the top of this diagonal Strip to which should be attached two Flanged Wheels and on the outside two Eccentric Drive Wheels. The Cylinder is made of stiff paper rolled and placed in the flanges of the wheels with three small rubber bands to hold it together, as shown in the sectional cut. In the third hole below the 8" Axle should be inserted a 11½" Axle, which forms the Driving Shaft and carries two 1" Pulleys which should be belted to the Flanged Wheels forming the cylinder. At the extreme left end of this 11½" Axle should be mounted an 1½" Pulley, to which the Motor should be belted. This 11½" Axle Rod supplies the power for the operation of the entire Model, and care should be taken to see that all Set Screws are securely fastened.

Next construct the fly, which is made of two Bush Wheels attached to a 11½" Axle which is passed through the side supports as shown in the large cut. On the outside of the Bush Wheels should be mounted two ½" Pinions with the Collars turned in and these mesh with the two Oscillating Racks attached to the Eccentric Drive Wheels. (See sectional cut.) Note one of these Oscillating Racks has the teeth turned up while the other has the teeth turned down. These Racks should be bolted in the second hole nearest the center of the Eccentric Drive Wheel so as to give the proper throw to the fly.

The fly is made of five 3" Strips bolted to a 5½" Strip and fastened to the Bush Wheels by means of Angle Brackets.

The Plate bed should then be made of four 12½" Strips, the outside Strips passing through four Eye Pieces (A, B and C) bolted to the Angle Girders. These Strips should then be bolted to two 5½" Strips fastened together. This Plate bed slides back and forth as the press operates. The front end of this bed is fastened by cord which passes over the two 1½" Pulleys mounted at the front of the Press and fastened to the Bush Wheels. An ordinary rubber band is fastened at the rear end of this bed at (D) and then fastened to the Cross Strip at the rear of the press (see large cut). This Rubber Band pulls the bed back when the fly moves forward.

This Model should be operated by a Motor belted to a Countershaft so as to reduce the speed. The Countershaft should then be belted to the 1½" Pulley attached to the outside of the 11½" Axle which is mounted under the Cylinder.

While this is a very complicated Model, the action of the press is most beautiful and perfect, and shows every movement of a real printing press.

The Models shown on this page can be made with The American Model Builder Outfit No. 7, or with No. 6 and No. 6½ Combined.

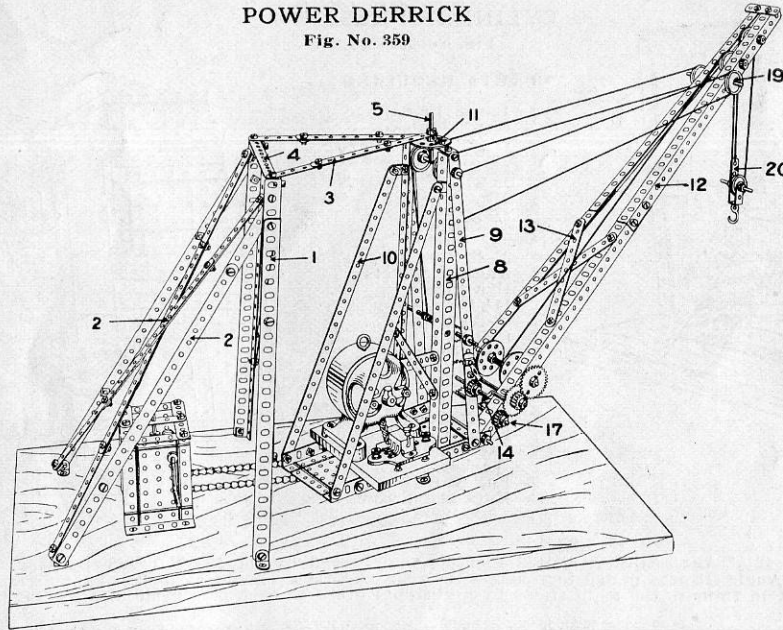
HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

POWER DERRICK

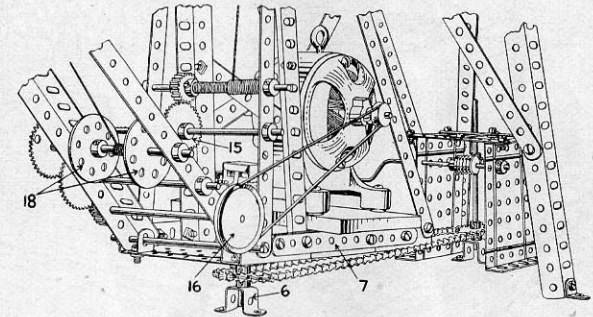
Fig. No. 359

PARTS REQUIRED

- 2—5½" Angle Girders
- 8—12½" Angle Girders
- 14—12½" Strips
- 9—5½" Strips
- 4—3½" Strips
- 2—2½" Strips
- 1—2" Strip
- 1—Hanger Strip
- 5—Small Plates
- 2—Double Bent Strips
- 1—5½" Crank
- 1—6½" Crank
- 4—5" Axle Rods
- 2—4½" Axle Rods
- 2—3½" Axle Rods
- 5—2" Axle Rods
- 2—1½" Sprockets
- 3—1½" Gears
- 3—¾" Pinions
- 2—1½" Pinions
- 1—Worm Wheel
- 4—Bush Wheels
- 2—1½" Pulleys
- 6—1" Pulleys
- 2—1½" Pulleys
- 15—Collars
- 16—Angle Brackets
- 1—Hook
- 1—Chain
- 74—Nuts and Screws
- 12—Wood Screws



Details of Power Derrick



The Power Derrick is one of the most interesting Models shown and embodies many good principles of gearing and Pulley Belting.

The rear upright frame as well as the braces should be built and fastened to a board with Wood Screws. At the top of this frame should be fastened four 5½" Strips (3) overlapped seven holes. Then measure the distance from the top of the rear frame to the Axle Rod (5) and locate the Double Bent Strip (6) shown in the sectional cut and fasten this to the board with two Wood Screws.

Next construct the revolving upright frame by using as a base three Small Plates with the flanges turned up and held together by 5½" Strips (7) bolted at the sides. To this base should then be bolted two upright 12½" Angle Girders (8) and braced by four 12½" Strips (9 and 10) and held together at the top by a 2½" Strip. To this Strip should be bolted the Bush Wheel (11), through which the 2" Axle Rod (5) passes. Then mount the frame on a 2" Axle Rod, which passes through a Bush Wheel mounted on the under side of the Small Plate and through the Double Bent Strip (6). On this 2" Axle should also be mounted a 1½" Sprocket and the Set Screws in both the Bush Wheel and Sprocket securely fastened, as it is on this Axle that the entire Derrick revolves.

The gearing which operates the tackle consists of three 5½" Axles. On the lower Axle should be mounted the 1½" Pulley (16), to which the Motor is belted, and on the opposite side the ¾" Pinion (17) which meshes with an 1½" Gear on the second Axle. To this Axle should also be attached a ¾" Pinion which meshes with the 1½" Gear on the third Axle. On the third Axle should also be mounted the two Bush Wheels (18) which form the Windlass.

In belting up the boom, the string should be fastened to the upright Angle Girder (8) and passed over the 1" Pulley, then back over the 1" Pulley in the upright frame, then over the other Pulley on the side of the boom, then over the second Pulley in the upright frame and fastened to the Axle Rod.

The string on the tackle should be tied to the Hanger Strip (20), passed over the front 1" Pulley, then down over the 1" Pulley in the tackle, then over the second 1" Pulley and fastened to the Windlass.

You will note by this method of gearing that the speed of the Motor is reduced one-fourth in addition to the reduction of speed obtained by belting the Motor to the 1½" Pulley.

This Model is true in all its dimensions, and when completed forms an interesting study. This makes the best Model of Derricks that we show, and every boy should try to build this one.

The Model shown on this page can be made with The American Model Builder Outfit No. 7, or with No. 6 and No. 6½ Combined.

HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

WRIGHT AEROPLANE

Fig. No. 360

PARTS REQUIRED

4—Flanged Wheels	14— $3\frac{1}{2}$ " Strips
2— $1\frac{1}{2}$ " Pulleys	4—3" Strips
4—1" Pulleys	26— $2\frac{1}{2}$ " Strips
2—Bush Wheels	65—Angle Brackets
2— $1\frac{1}{2}$ " Gear Wheels	1—8" Axle Rod
2— $\frac{3}{4}$ " Pinions	4—6" Axle Rods
10—Collars	2— $4\frac{1}{2}$ " Axle Rods
10— $12\frac{1}{2}$ " Angle Girders	1— $6\frac{1}{2}$ " Crank
28— $12\frac{1}{2}$ " Strips	4—Propeller Blades
29— $5\frac{1}{2}$ " Strips	213—Nuts and Screws

Through the courtesy of the **Wright Brothers**, we reproduce an exact Model of their original **Aeroplane**, which stands 36" wide and 43" long.

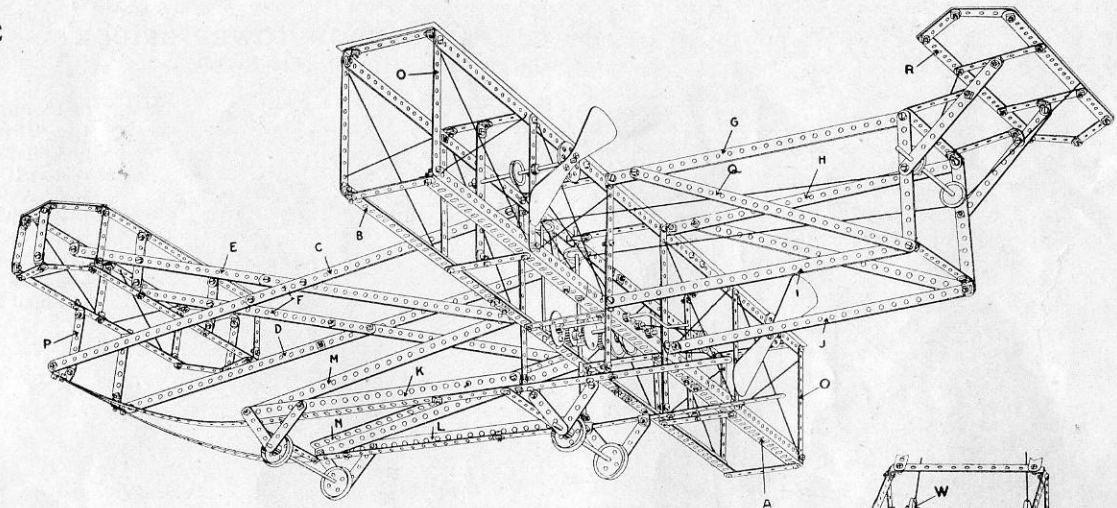
The center frame is made of six $12\frac{1}{2}$ " Angle Girders (A and B) overlapped three holes and fastened at the bottom by six $3\frac{1}{2}$ " Strips. Then attach six $5\frac{1}{2}$ " upright Strips (O) on either side and to these bolt six $12\frac{1}{2}$ " Strips overlapped three holes. These are fastened together at the top with six $3\frac{1}{2}$ " Strips, to which the top sail is fastened.

Next construct the framework which carries the front sail. This is made of eight $12\frac{1}{2}$ " Strips (C, D, E and F) crossed in the center. The front sail is made of four $12\frac{1}{2}$ " Strips supported by nine upright $2\frac{1}{2}$ " Strips. This front sail is then fastened to the framework made of the $12\frac{1}{2}$ " Strips and attached to the glider frame by means of two $2\frac{1}{2}$ " Strips (P). The glider frame is made of four $12\frac{1}{2}$ " Angle Girders (K, L, M and N), and at the rear of the two lower Girders are fastened two $12\frac{1}{2}$ " Strips bolted in the seventh hole. To this frame are then attached the wheels which support the frame while it is rising from the ground. The rear framework supporting the tail sail is made of six $12\frac{1}{2}$ " Strips (G, H, I, J and Q) and supported by four $5\frac{1}{2}$ " Strips in the rear. To this frame is then attached the tail sail, which is made of two $12\frac{1}{2}$ " Strips (R) and fastened by two $3\frac{1}{2}$ " Strips and four $2\frac{1}{2}$ " Strips.

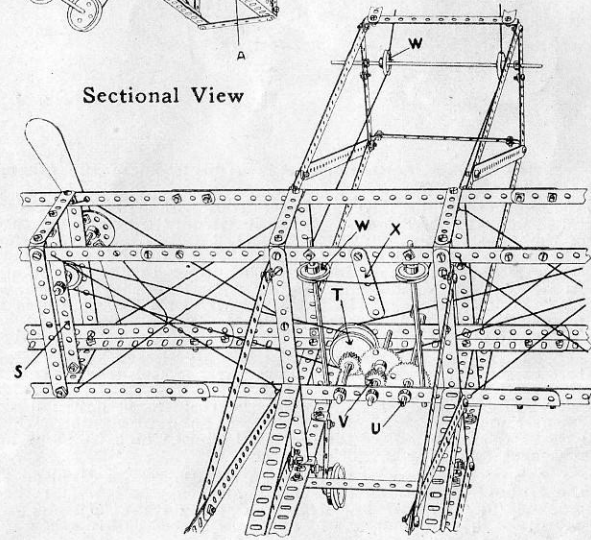
In mounting the Axles that carry the Propeller Blades, it will be necessary to fasten a $5\frac{1}{2}$ " Strip (S) in the center of the Plane so as to give the Axle Rod two bearings. The 1" Pulley Wheels mounted on the Axles carrying the Propeller Blades should be belted directly to the two $1\frac{1}{2}$ " Pulleys (T).

In the sectional view, we clearly show the gearing. The Propeller Blades are operated by revolving Crank (U), on which is fastened a $1\frac{1}{2}$ " Gear, which meshes with the $\frac{3}{4}$ " Pinion (V) mounted on a 5" Axle. On this same Axle is mounted a $1\frac{1}{2}$ " Gear which meshes with the $\frac{3}{4}$ " Pinion attached to the Axle Rod carrying the two $1\frac{1}{2}$ " Pulleys (T). By this method of gearing the Propeller Blades revolve six times while the Crank is turned once.

The tail sail is tilted by means of the cords running over the 1" Pulleys (W) and is operated by the $2\frac{1}{2}$ " Strip (X) attached to the top of the main frame. This Strip is attached directly above where the operator's seat would be located. Cardboard can be used to represent the sails on the main frame as well as on the front and tail sails, and these can be fastened by screws or paper fasteners.



Sectional View

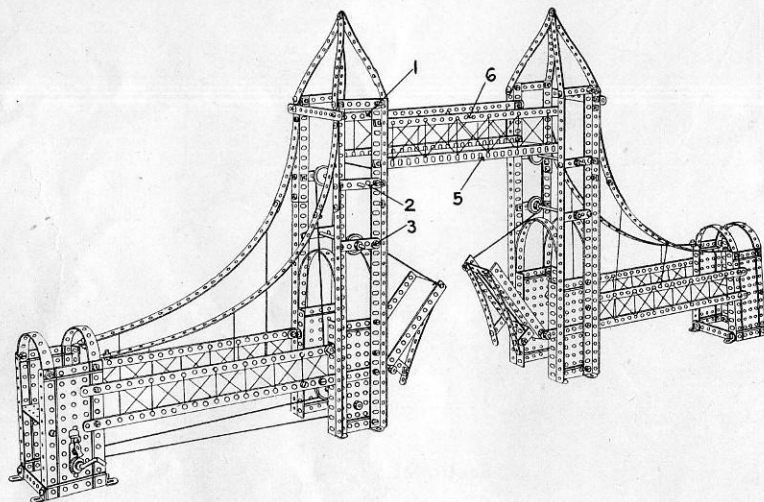


The Model shown on this page can be made with The American Model Builder Outfit No. 7, or with No. 6 and No. 6½ Combined.

HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

LONDON TOWER BRIDGE

Fig. No. 361



The London Tower Bridge is a duplicate of the famous Tower Bridge crossing the Thames River at London.

Begin by building the towers first, which are constructed of four $12\frac{1}{2}$ " Angle Girders, and to these are attached four $5\frac{1}{2}$ " Angle Girders overlapping three holes. These are fastened together at the sides with three $2\frac{1}{2}$ " Strips (1, 2 and 3), and are bolted fast at the bottom to two Large Plates. The two arches are formed of two $12\frac{1}{2}$ " Strips (4) slightly bent and fastened between the Angle Girders and the Large Plates. The upper bridge at the top of the towers is made of two $12\frac{1}{2}$ " Angle Girders (5) bolted together with three $3\frac{1}{2}$ " Strips, while the upper sides are made of two $12\frac{1}{2}$ " Strips (6). You will note that all of the Large Plates used at the base of the towers are supported on the inside by Small Plates. These can be used for the purpose of supporting the track in case it is desirable to run a small engine across the bridge.

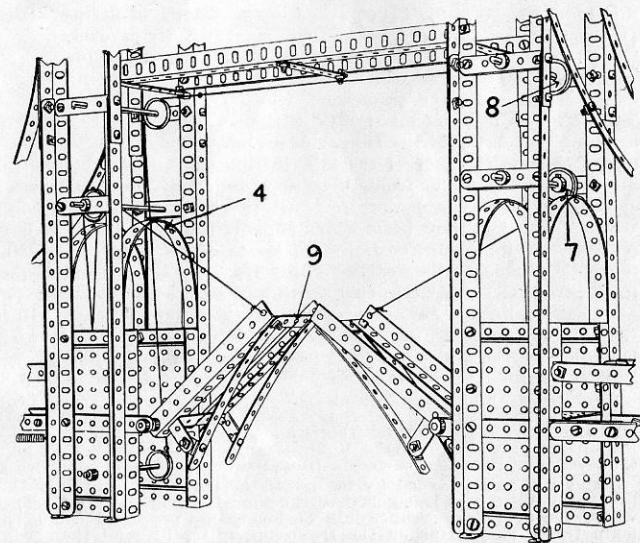
The raising and lowering of the center lower bridge is accomplished by a cord that is attached to the end of each half of the lower bridge and drawn over the Pulley Wheels and connected at the rear to the Crank. In order to have both halves of the bridge operate at the same time, it is necessary to have the cord attached to the right-hand half, run over two Pulley Wheels (7 and 8) in the tower and then cross over to the left-hand tower down through the Small Plate and back to the Crank. With the aid of the sectional views which we show in this model, no difficulty will be found whatever in the construction of same.

A Spring should be fastened to the $3\frac{1}{2}$ " cross Strip on the under side of each approach and to these should be attached a string and this fastened at the ends of the raising sections at point marked (9). Be sure and draw the string tight so as to put a tension on the Spring, as this will cause the moving sections to pull into place readily when the Crank is operated.

PARTS REQUIRED

6—1" Pulley Wheels	2—Springs
1— $\frac{1}{2}$ " Pinion	180—Nuts and Screws
18—Collars	16—Wood Screws
1—Pawl	1— $6\frac{1}{2}$ " Crank
4—5" Axle Rods	10— $12\frac{1}{2}$ " Angle Girders
1— $4\frac{1}{2}$ " Axle Rod	10— $5\frac{1}{2}$ " Angle Girders
2—Large Bent Strips	20— $12\frac{1}{2}$ " Strips
26—Angle Brackets	26— $5\frac{1}{2}$ " Strips
8—Large Plates	9— $3\frac{1}{2}$ " Strips
4—Small Plates	14— $2\frac{1}{2}$ " Strips

Sectional View

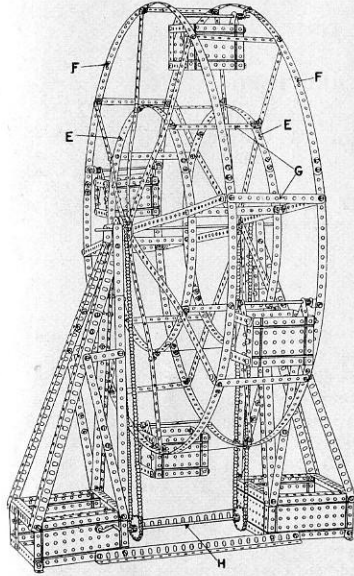


The Model shown on this page can be made with The American Model Builder Outfit No. 7, or with No. 6 and No. 6 $\frac{1}{2}$ Combined.

HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

FERRIS WHEEL

Fig. No. 362



PARTS REQUIRED

- 38—12 $\frac{1}{2}$ " Strips
- 25—5 $\frac{1}{2}$ " Strips
- 37—2 $\frac{1}{2}$ " Strips
- 10—12 $\frac{1}{2}$ " Angle Girders
- 12—5 $\frac{1}{2}$ " Angle Girders
- 46—Angle Brackets
- 2—11 $\frac{1}{2}$ " Axle Rods
- 1—6" Axle Rod
- 4—5" Axle Rods
- 1—6 $\frac{1}{2}$ " Crank
- 2—1 $\frac{1}{2}$ " Sprocket Wheels
- 2—1" Sprocket Wheels
- 2—Chains
- 4—Bush Wheels
- 2— $\frac{3}{4}$ " Pinions
- 1—1 $\frac{1}{2}$ " Gear Wheel
- 1—1 $\frac{1}{2}$ " Crown Gear
- 6—Large Plates
- 8—Small Plates
- 13—Collars
- 255—Nuts and Screws

In the Ferris Wheel model no difficulty will be found in building the framework, the cars, nor the wheel itself if the drawing given here is closely followed.

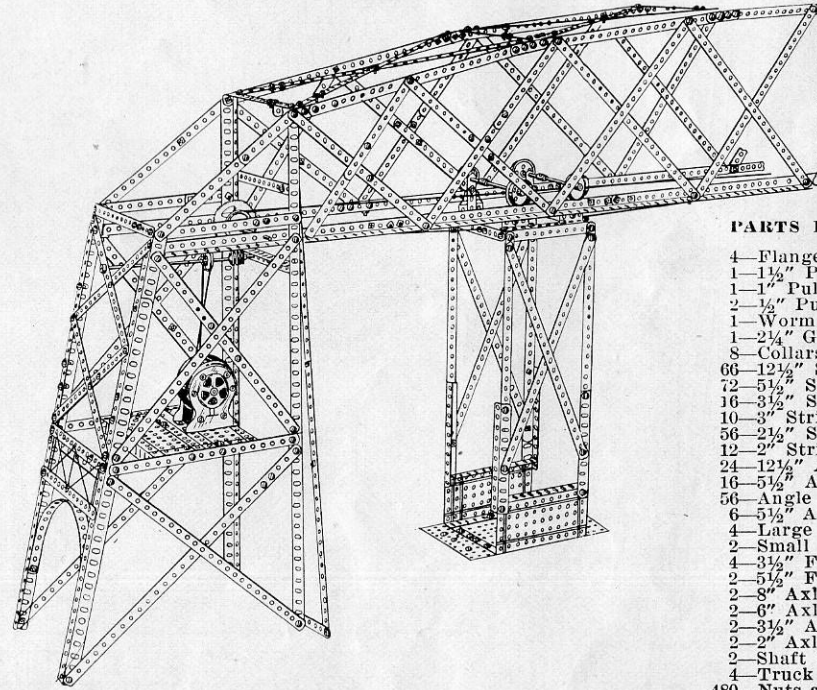
The gearing consists of an 11 $\frac{1}{2}$ " Axle (H) extending through the Large Plates at the bottom of the towers on which are mounted two 1" Sprockets. On the left end of this Axle should be attached an 1 $\frac{1}{2}$ " Crown Gear which meshes with a $\frac{3}{4}$ " Pinion mounted on a 6" Axle. On this same Axle should be mounted an 1 $\frac{1}{2}$ " Gear which meshes with a $\frac{3}{4}$ " Pinion mounted on the 5 $\frac{1}{2}$ " Axle.

The Ferris Wheel makes a most excellent working Model and the principles of structural bracing are clearly demonstrated all through the Model. When completed, this Model stands three feet high, and is symmetrical and well proportioned.

AERIAL BRIDGE

Fig. No. 363

This is a duplicate of the Aerial Bridge at Duluth, Minnesota. Only one-half the structure is shown, the other half being an exact duplicate. The ferry is operated by means of a Motor, which is belted to a 1" Pulley Wheel on the 8" Axle Rod. On this Rod is a Worm Wheel which meshes with the 2 $\frac{1}{4}$ " Gear above. On the same Axle Rod with this Gear is mounted a 1 $\frac{1}{2}$ " Pulley, over which the cord passes which operates the car back and forth.



PARTS REQUIRED

- 4—Flanged Wheels
- 1—1 $\frac{1}{2}$ " Pulley
- 1—1" Pulley
- 2— $\frac{1}{4}$ " Pulleys
- 1—Worm Wheel
- 1—2 $\frac{1}{4}$ " Gear Wheel
- 8—Collars
- 66—12 $\frac{1}{2}$ " Strips
- 72—5 $\frac{1}{2}$ " Strips
- 16—3 $\frac{1}{2}$ " Strips
- 10—3" Strips
- 56—2 $\frac{1}{2}$ " Strips
- 12—2" Strips
- 24—12 $\frac{1}{2}$ " Angle Girders
- 16—5 $\frac{1}{2}$ " Angle Girders
- 56—Angle Brackets
- 6—5 $\frac{1}{2}$ " Angle Strips
- 4—Large Plates
- 2—Small Plates
- 4—3 $\frac{1}{2}$ " Flat Plates
- 2—5 $\frac{1}{2}$ " Flat Plates
- 2—8" Axle Rods
- 2—6" Axle Rods
- 2—3 $\frac{1}{2}$ " Axle Rods
- 2—2" Axle Rods
- 2—Shaft Connectors
- 4—Truck Frames
- 480—Nuts and Bolts

The Models shown on this page can be made with The American Model Builder Outfit No. 7, or with No. 6 and No. 6 $\frac{1}{2}$ Combined.

HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

LIBRARY LAMP

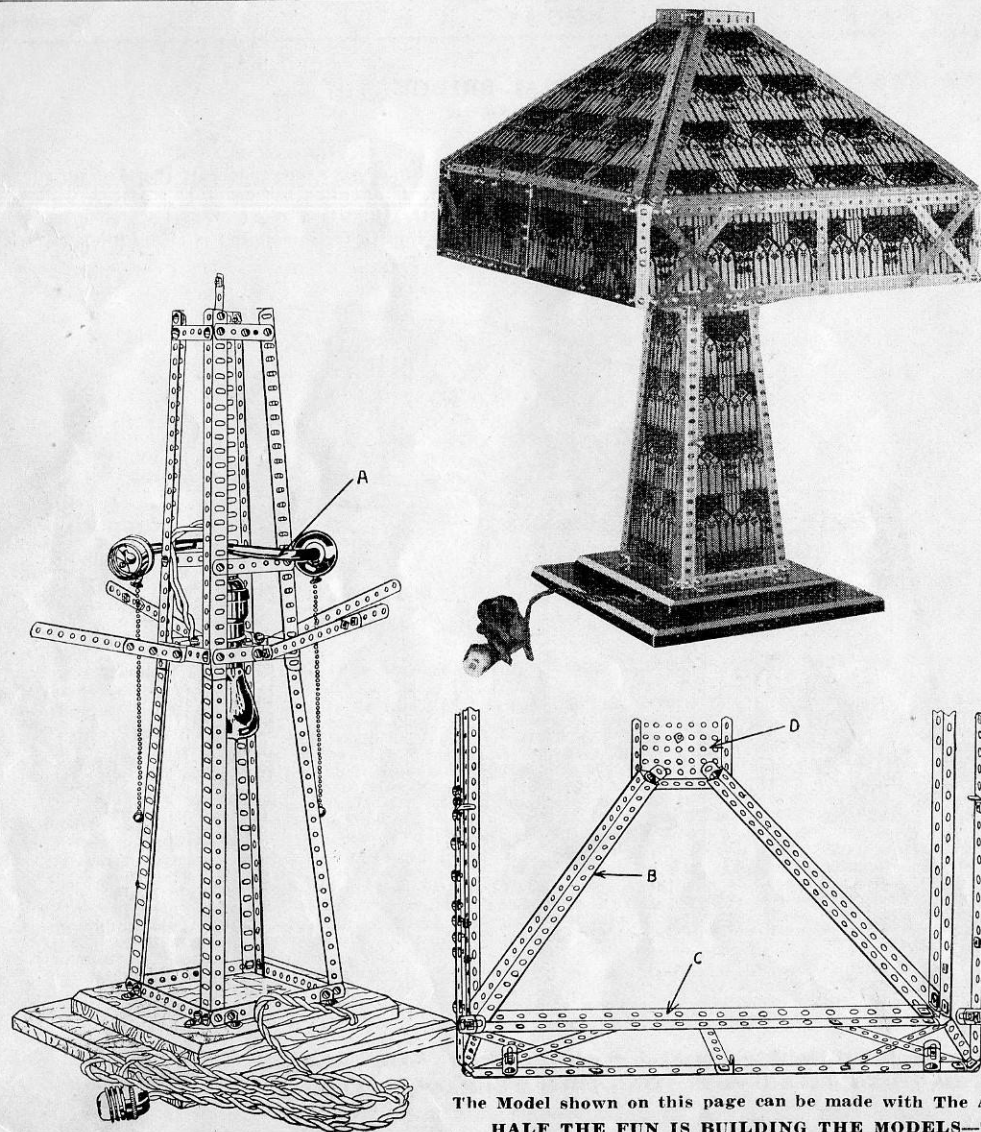
Fig. No. 364

PARTS REQUIRED

28—12½" Strips	68—Angle Brackets
36—5½" Strips	36—Obtuse Angles
7—3½" Strips	2—Small Plates
24—2½" Strips	220—Bolts
8—12½" Angle Girders	240—Nuts

The Library Lamp is useful as well as ornamental and will make an elegant present for any parent. The construction is extremely simple, as shown by the various cuts, and when the framework is completed it is only necessary to cut some old pieces of glass in triangular and square shapes and fit these between the Strips "B" and "C." "D" forms the top and is made of two Small Rectangular Plates fastened to the 12½" Strips by Angle Brackets. Enough transparent art glass paper for covering the glass can be purchased in any store for 10c. The electrical attachment "A" consists of a goose-neck and cord, with three sockets for electric light bulbs, and the cost of one of these varies from \$1.30 to \$1.50. The base should be made of two pieces of wood fastened together as shown in the cut. When completed this will give you as handsome a lamp as can be purchased in any store from \$10.00 to \$15.00 at a cost of about \$1.50 in addition to the cost of the few Strips and Plates which are used.

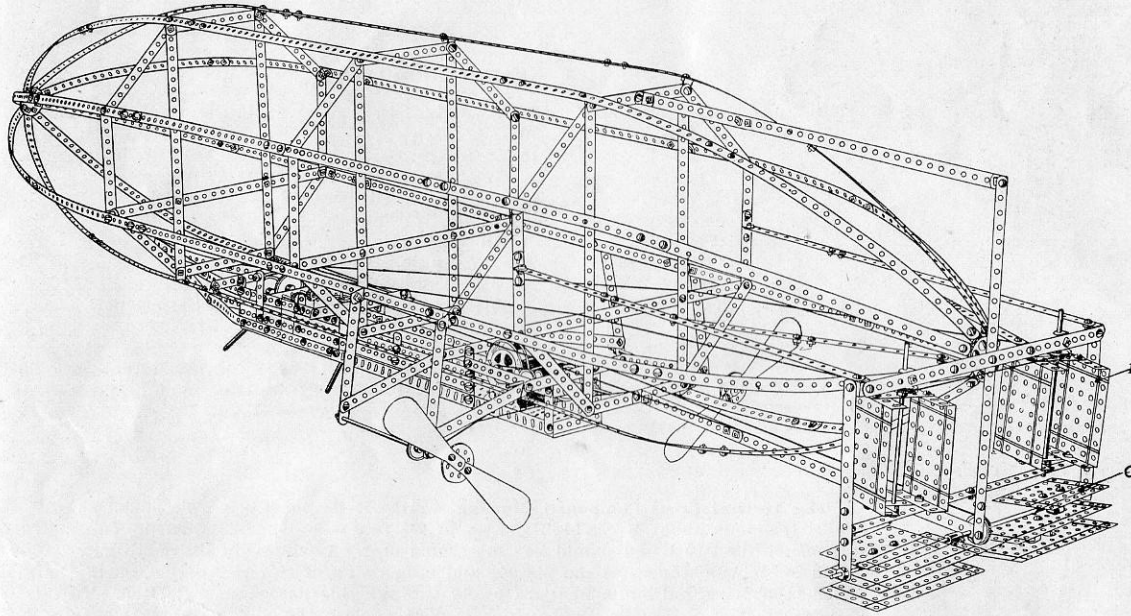
Boys! this will make an elegant surprise for your parents for Xmas. Try it!



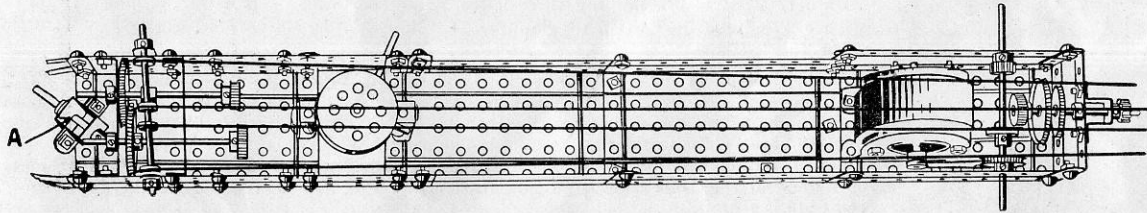
The Model shown on this page can be made with The American Model Builder Outfit No. 7, or with No. 6 and No. 6½ Combined.
HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

ZEPPELIN

Fig. No. 365



Details of Zeppelin

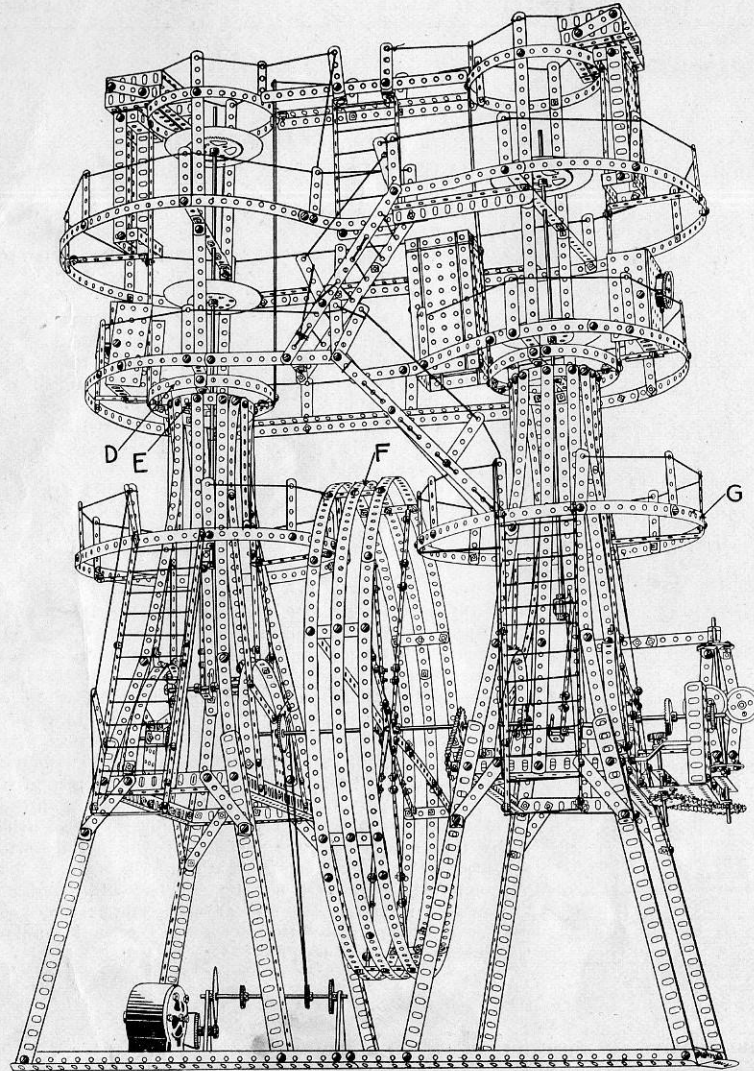


PARTS REQUIRED

- | | |
|----------------------|----------------------|
| 4—1½" Pulleys | 6—Double Bent Strips |
| 6—1" Pulleys | 1—Large Bent Strip |
| 4—½" Pulleys | 3—Large Rect. Plates |
| 5—Bush Wheels | 4—2½" Angle Strips |
| 3—¾" Pinions | 4—Small Rect. Plates |
| 4—½" Pinions | 5—5½" Flat Plates |
| 2—1½" Gear Wheels | 8—3½" Flat Plates |
| 1—¾" Crown Gear | 3—8" Axle Rods |
| 20—Collars | 3—6" Axle Rods |
| 66—12½" Strips | 1—4½" Axle Rod |
| 61—5½" Strips | 3—3½" Axle Rods |
| 18—2½" Strips | 3—2" Axle Rods |
| 13—2" Strips | 4—Propeller Blades |
| 2—5½" Angle Girders | 1—Shaft Connector |
| 68—Angle Brackets | 1—Motor, No. 150 |
| 16—Obtuse Angles | 365—Nuts and Bolts |
| 2—Single Bent Strips | |

The Zeppelin is a type of the Dirigible Balloon which is being used in the present European warfare. The construction of the framework is comparatively simple. The movements of the Dirigible are controlled entirely from the Cabin below, by operating the tail pieces "C" up and down to raise or lower it and operating the rudders "B" from left to right in order to turn it. These mechanisms are operated by the cord passing over the top of the cabin, as shown in the detail cut. At the present time a good many of these Dirigibles are also armed with rapid-firing guns such as shown in the bottom of the Cabin marked "A." When this model is completed, it is about 5 feet long, 2 feet wide, and presents a most realistic appearance. The Motor can be used for operating the Propeller Blades located on each side of the machine.

The Models shown on this page can be made with The American Model Builder Outfit No. 7, or with No. 6 and No. 6½ Combined.
 HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.



VERTICAL CROSS COMPOUND BLOWING ENGINE

Fig. No. 366

PARTS REQUIRED

6—Flanged Wheels	24—3" Strips	2—5½" Flat Plates
2—1½" Pulleys	70—2½" Strips	3—11½" Axle Rods
2—1" Pulleys	16—2" Strips	3—8" Axle Rods
2—½" Pulleys	22—12½" Angle Girders	1—4½" Axle Rod
4—Bush Wheels	12—5½" Angle Girders	4—3½" Axle Rods
2—Eccen. Drive Wheels	76—Angle Brackets	1—2" Axle Rod
1—¾" Pinion	1—Obtuse Angle	1—5½" Crank
4—1½" Gear Wheels	9—2¼" Angle Strips	1—4' Chain
2—2¼" Gear Wheels	5—3½" Angle Strips	4—Washers
1—1½" Crown Gears	2—5½" Angle Strips	3—1½" Sprockets
20—Collars	5—Large Plates	1—1" Sprocket
66—12½" Strips	6—Small Plates	3—Shaft Connectors
69—5½" Strips	1—Sector Plate	1—No. 150 Motor
34—3½" Strips	8—3½" Flat Plates	550—Nuts and Bolts

The Vertical Cross Compound Blowing Engine is the most scientific model shown in the book. It stands about 4 feet high and about 2½ feet wide when completed. In constructing this model, the two bases should be constructed first. As shown in the detail cut, "B" is the Crank Shaft which operates the pistons and is made up of two 3½" Strips, on the bottom of which is attached a Double Bent Strip and through this passes an Axle Rod. To this Axle Rod is attached a Hanger Strip, which is connected to the piston rod by means of a 5½" Strip, at point "A." This 5½" Strip is fastened to a Double Bent Strip held on the bottom of the piston rod by means of two Collars. "F" is the Fly Wheel, the circumference of which is made by overlapping five 12½" Strips. The top of the lower base marked "E" is made with a 12½" Strip overlapping three holes, while the lower part of the cylinder "D" is made with a 12½" and 5½" Strip overlapping four holes. The lower platform "G" is made with three 12½" Strips.

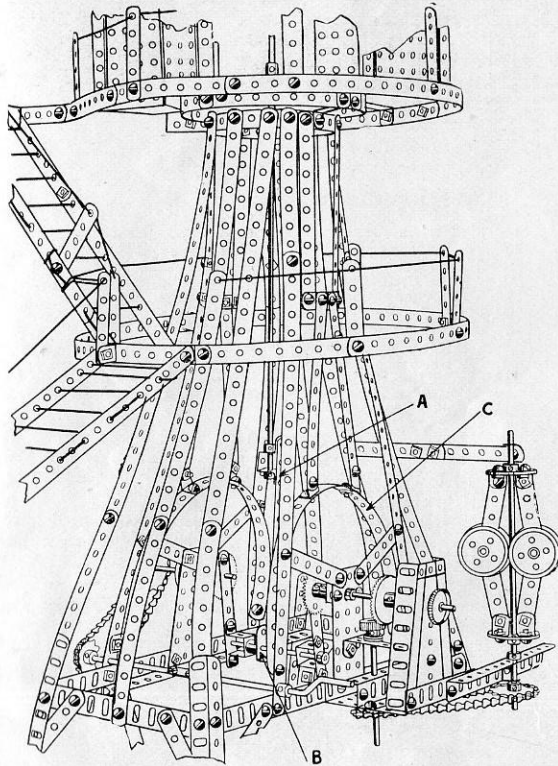
The gearing of the governor is clearly shown in the detail cut. If the model is operated with a Motor, a Countershaft should be used and attached, as shown in the cut of the complete model. This model is so perfectly balanced that when the Fly Wheel is started, it will operate several revolutions of its own momentum. While this cut may seem somewhat complicated, on account of the various runways and bridges which are constructed around the cylinders, at the same time it is comparatively simple and no trouble will be experienced in the building of it.

The Model shown on this page can be made with The American Model Builder Outfit No. 7, or with No. 6 and No. 6½ Combined.
 HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

OBSERVATION TOWER

Fig. No. 367

Details of Cross Compound Engine



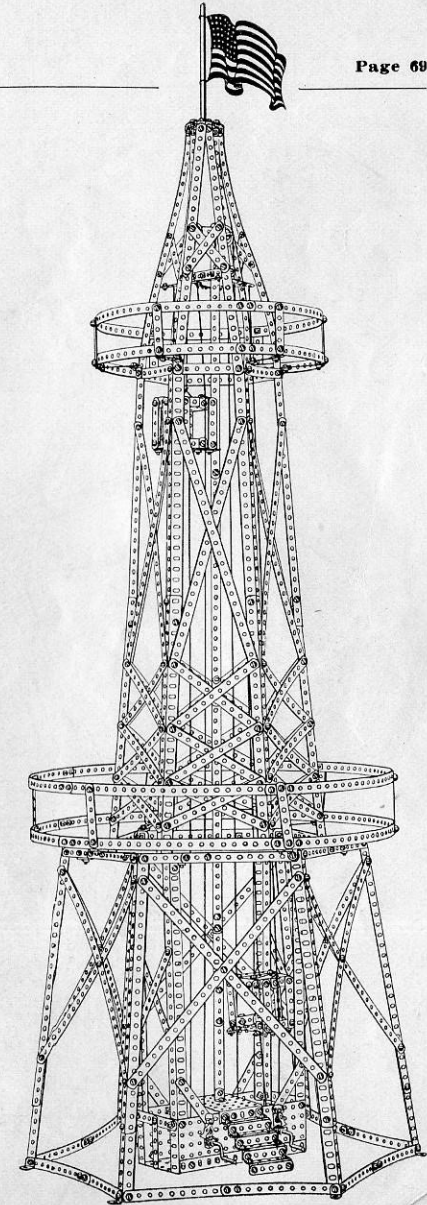
PARTS REQUIRED

4—1" Pulleys	2—Single Bent Strips
1—Bush Wheel	24—12½" Angle Girders
3—Collars	6—5½" Angle Girders
49—12½" Strips	98—Angle Brackets
65—5½" Strips	8—Small Plates
14—3½" Strips	2—1" Axle Rods
17—3" Strips	2—6½" Cranks
53—2½" Strips	2—½" Pinions
29—2" Strips	2—Pawls
	476—Nuts and Screws

The Observation Tower, when completed, stands 4 ft. 6 in. high. In constructing this model, the lower base should be made first. The first balcony is then made and fastened to the lower platform at the corners. The main upright tower is made of Angle Girders braced by Strips, as shown in the cut. The upper balcony is fastened to the main tower by six 2" Strips. The upper peak of the tower is made of Strips bolted to Angle Brackets mounted on a Bush Wheel in the peak.

The two Elevators are operated by two 6½" Cranks, located at the sides of the stairs. One continuous cable should be attached from car to car and passed over the two 1" Pulley Wheels, mounted in the two Single Bent Strips at the top. The two guide ropes should also be stretched on either side of these cars and passed through the Angle Brackets, so as to guide them in the up and down movement.

Through the center of this Tower are mounted 12½" Strips connected together, which run from the top of the Pulley Wheels to the Small Plate mounted on the top of the Power Plant. These Strips prevent the cars from coming in contact with each other when passing in their up and down movements.

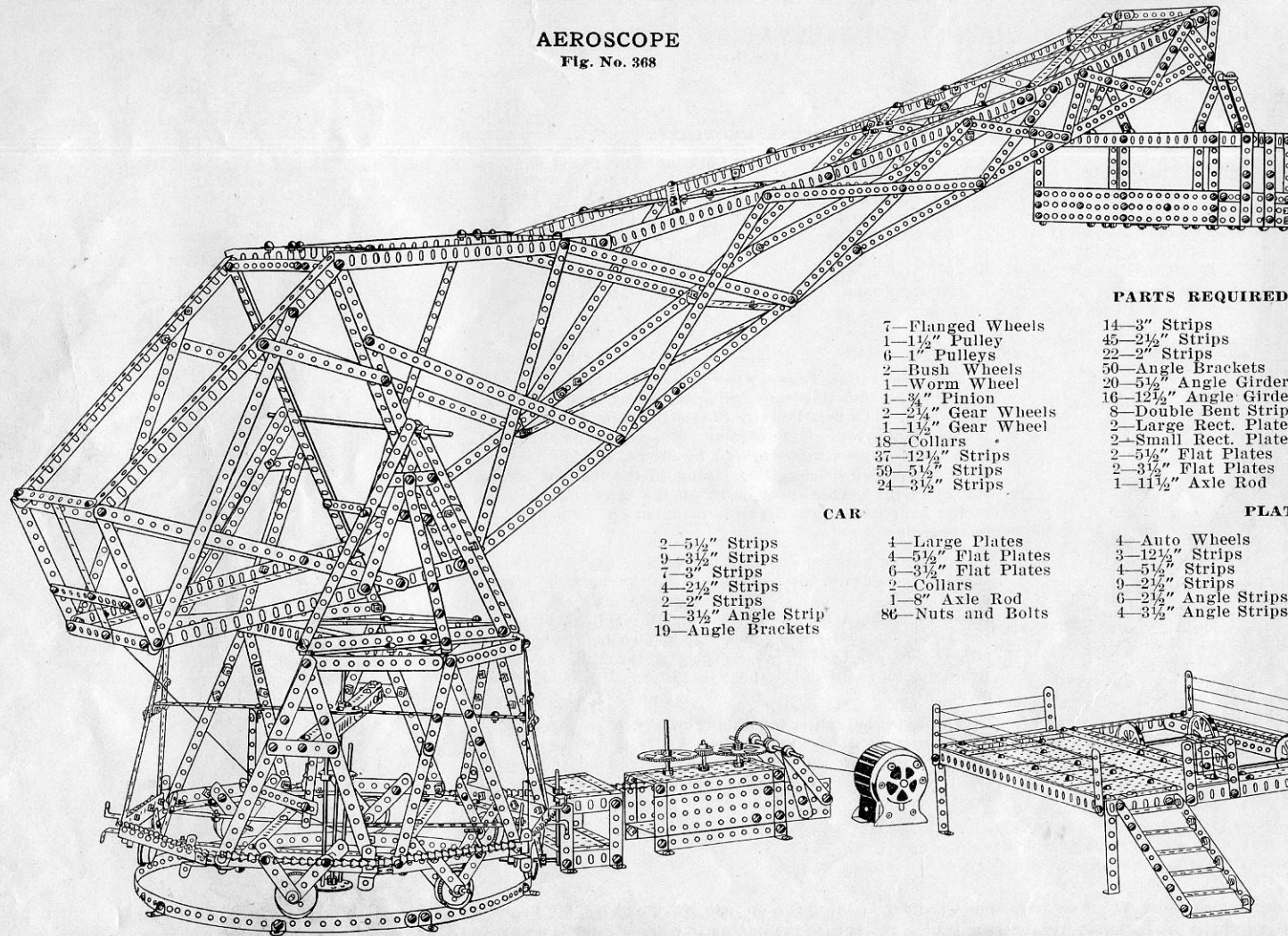


The Model shown on this page can be made with The American Model Builder Outfit No. 7, or with No. 6 and No. 6½ Combined.

HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

AEROSCOPE

Fig. No. 368



PARTS REQUIRED

7—Flanged Wheels
 1—1½" Pulley
 6—1" Pulleys
 2—Rush Wheels
 1—Worm Wheel
 1—¾" Pinion
 2—2¼" Gear Wheels
 1—1½" Gear Wheel
 18—Collars
 37—12½" Strips
 59—5½" Strips
 24—3½" Strips

14—3" Strips
 45—2½" Strips
 22—2" Strips
 50—Angle Brackets
 20—5½" Angle Girders
 16—12½" Angle Girders
 8—Double Bent Strips
 2—Large Rect. Plates
 2—Small Rect. Plates
 2—5½" Flat Plates
 2—3½" Flat Plates
 1—11½" Axle Rod

1—8" Axle Rod
 2—5" Axle Rods
 1—4½" Axle Rod
 4—3½" Axle Rods
 7—2" Axle Rods
 1—6½" Crank
 2—4" Chains
 2—1" Sprockets
 1—1½" Sprocket
 1—No. 150 Motor
 389—Nuts and Bolts

CAR

2—5½" Strips
 9—3½" Strips
 7—3" Strips
 4—2½" Strips
 2—2" Strips
 1—3½" Angle Strip
 19—Angle Brackets

4—Large Plates
 4—5½" Flat Plates
 6—3½" Flat Plates
 2—Collars
 1—8" Axle Rod
 86—Nuts and Bolts

PLATFORM

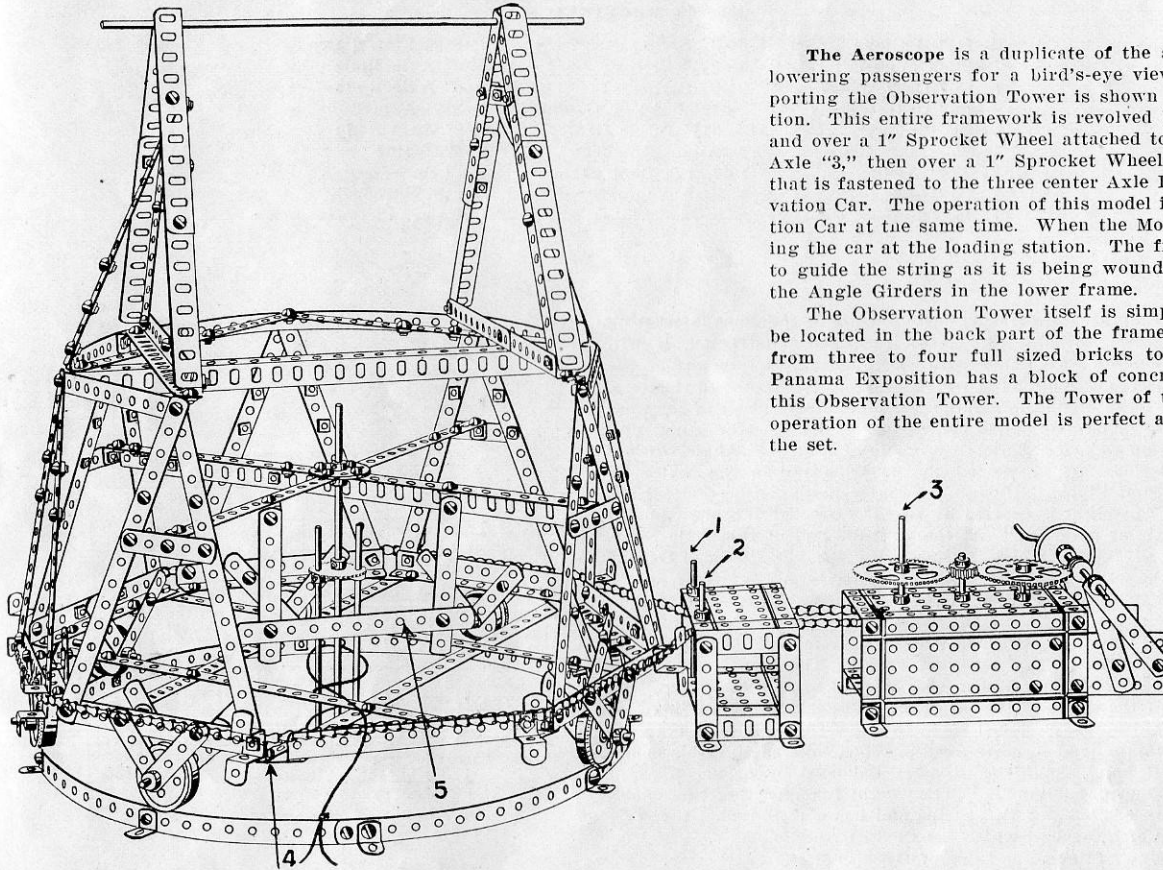
4—Auto Wheels
 3—12½" Strips
 4—5½" Strips
 9—2½" Strips
 6—2½" Angle Strips
 4—3½" Angle Strips

1—Single Bent Strip
 6—12½" Angle Girders
 4—Angle Brackets
 7—Small Plates
 2—6" Axle Rods
 59—Nuts and Bolts

The Model shown on this page can be made with The American Model Builder Outfit No. 7, or with No. 6 and No. 6½ Combined.

HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

Details of Aeroscope



The Aeroscope is a duplicate of the apparatus used at the Panama Exposition for raising and lowering passengers for a bird's-eye view of the Exposition Grounds. The lower framework supporting the Observation Tower is shown in the detail cut and is comparatively simple in construction. This entire framework is revolved by means of the Chain run through the Double Bent Strip and over a 1" Sprocket Wheel attached to Axle "2," then around a 1½" Sprocket Wheel attached to Axle "3," then over a 1" Sprocket Wheel attached to Axle "1." As this model revolves, the string that is fastened to the three center Axle Rods shortens, thus raising the Tower, carrying the Observation Car. The operation of this model is entirely automatic, as it revolves and raises the Observation Car at the same time. When the Motor is reversed, the entire model revolves and lowers, landing the car at the loading station. The framework "5" attached in front of these Axle Rods is used to guide the string as it is being wound up. "4" is a 2" Strip which forms a connection between the Angle Girders in the lower frame.

The Observation Tower itself is simple in construction, and when completed, a weight should be located in the back part of the framework to perfectly balance it on the Axle. It will require from three to four full sized bricks to offset this weight. The Aeroscope in operation at the Panama Exposition has a block of concrete weighing 300,000 pounds fastened in the back part of this Observation Tower. The Tower of this model when completed is about five feet long and the operation of the entire model is perfect and can be operated by the small Motor that is included in the set.

The Model shown on this page can be made with The American Model Builder Outfit No. 7, or with No. 6 and No. 6½ Combined.

HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

GRANDFATHER'S CLOCK

Fig. No. 369

PARTS REQUIRED

2—1½" Pulleys
 2—Bush Wheels
 1—1½" Gear Wheel
 2—2¼" Gear Wheels
 3—¾" Pinions
 17—Collars
 34—12½" Strips
 72—5½" Strips
 40—3½" Strips

6—3" Strips
 23—2½" Strips
 29—2" Strips
 22—12½" Angle Girders
 12—5½" Angle Girders
 32—Angle Brackets
 1—Large Bent Strip
 4—5½" Angle Strips
 2—Sector Plates

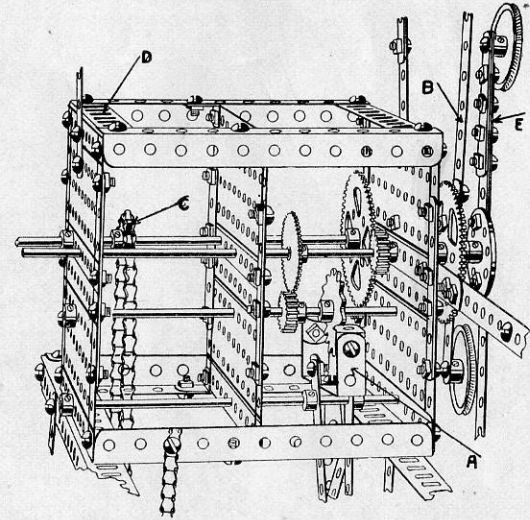
6—5½" Flat Plates
 2—8" Axle Rods
 2—6" Axle Rods
 1—3½" Axle Rod
 2—2" Axle Rods
 2—4" Chains
 2—1" Sprockets
 1—1½" Sprocket
 350—Nuts and Bolts

The Grandfather's Clock is beyond a doubt the most interesting model shown in the book. When properly constructed, it will actually run for two hours with one winding. By means of the gearing used, the hour hand will move from one figure to the next, while the minute hand is making a complete revolution of the face.

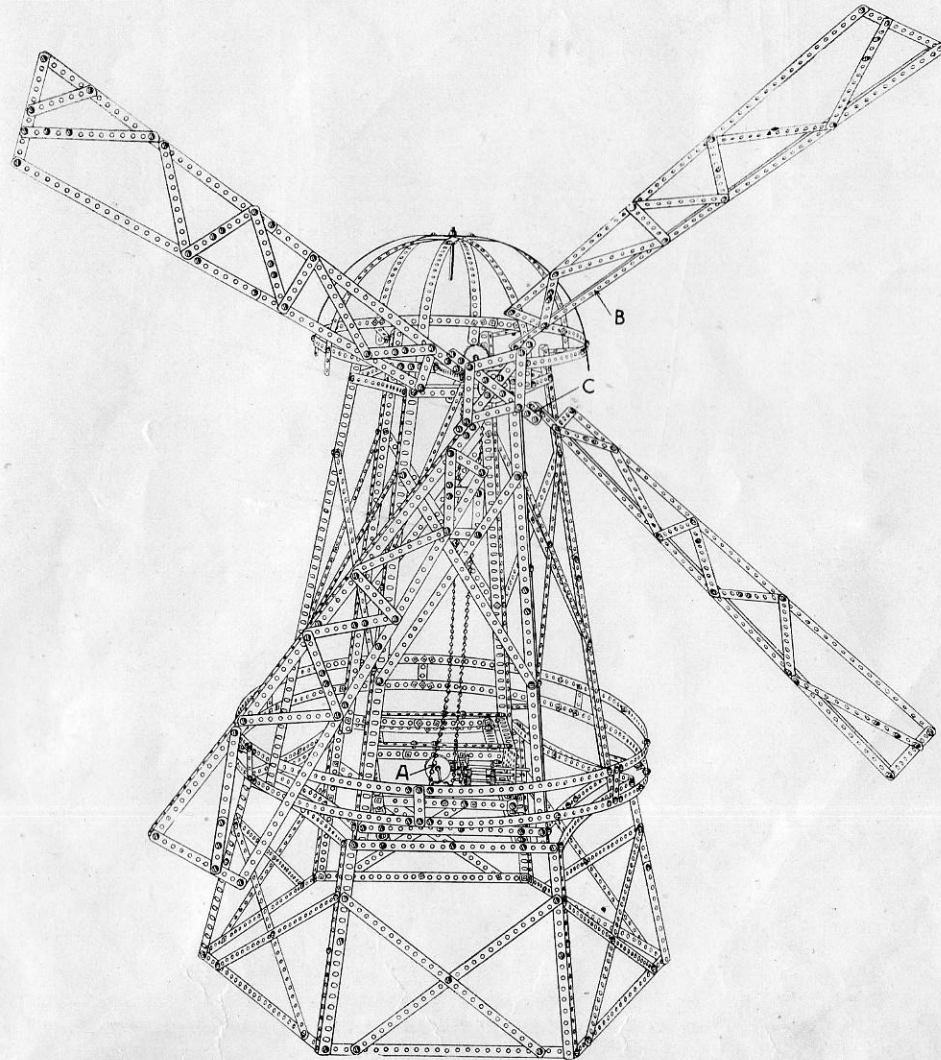
The entire mechanism is shown in the detail. The upper and lower framework of this detail is made of four 5½" Angle Girders "D," and these are supported on the sides and in the center by two 5½" Flat Plates, although the center plate can be omitted entirely. The weight is carried by two 1" Sprocket Wheels attached to the Axle at point "C." At the opposite end of this Axle is attached a 2¼" Gear which meshes with the ¾" Pinion. On the same Axle with the ¾" Pinion is mounted a 1½" Gear which meshes with the ¾" Pinion on the escapement Axle. The escapement "A" is made with a Double Bent Strip, at each end of which is attached an Angle Bracket which regulates the escapement in connection with the 1½" Sprocket Wheel. The hour hand "B" is fastened to a 2¼" Gear and meshes with the ¾" Pinion shown on the face of the Clock in the large cut. The Set Screw on this 2¼" Gear should not be fastened so as to allow the Axle Rod supporting the minute hand to move freely. When constructing this model the minute hand should be properly balanced by means of extra Nuts, as shown at point "E." The weight for operating this model is made up of 5½" and 3½" Strips and has a 1" Sprocket mounted in the top of it, around which the Chain passes.

Boys, don't fail to build one of these models.

Details of Clock



The Model shown on this page can be made with The American Model Builder Outfit No. 7, or with No. 6 and No. 6½ Combined.
HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.



OLD DUTCH WINDMILL

Fig. No. 370

The Old Dutch Windmill makes a large, unique model. It is very simple in construction and operates perfectly. The Hexagonal base should be constructed first, using six $12\frac{1}{2}$ " Angle Girders for the uprights, connected at the bottom by $12\frac{1}{2}$ " Strips, and at the top by two $5\frac{1}{2}$ " Strips overlapped one hole. Across the top of this framework construct two parallel girders consisting of one $12\frac{1}{2}$ " and one $5\frac{1}{2}$ " Angle Girders overlapped two holes, and attached to the Strip at the top of the framework by means of Angle Brackets bolted into the 4th hole from each end of the Strips, as shown in the cut just below "A."

These girders support the gear housing as well as the main tower. This tower is made of six upright girders, each composed of two $12\frac{1}{2}$ " Angle Girders overlapped three holes and held apart at the base by two $5\frac{1}{2}$ " Strips overlapped three holes, and at the top by one $5\frac{1}{2}$ " Strip. The bracing of the lower framework, as well as of the main tower is simple, and clearly shown in the cut. The dome is supported by $2\frac{1}{2}$ " Strips extending out from the top of the tower, and fastened by Angle Brackets to the second hole from the top of the six upright girders. The arms of the Windmill are made by using $12\frac{1}{2}$ " Angle Girders along one edge, and $12\frac{1}{2}$ " Strips along the other edge, braced as shown in the cut at "B."

A $11\frac{1}{2}$ " Axle Rod extends through the top of the tower, and is kept in position by means of Collars and Set Screws. The end of this Axle Rod extends far enough beyond the circumference of the dome to receive a Bush Wheel, to which is fastened the ends of the arms. At point marked "C" two Obtuse Angle Brackets are used in each arm so as to give them a slight incline. At point marked "A" a $1\frac{1}{2}$ " Crown Gear is mounted on an Axle Rod, which meshes with the $\frac{3}{4}$ " Pinion in the gear housing. You will note that several Gears and Pinions are used in the gear housing in order to reduce the speed of the arms.

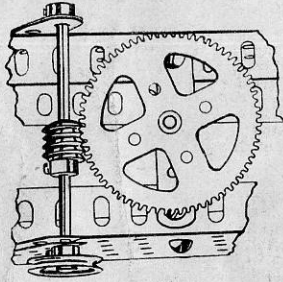
On the Axle "A" is also mounted a Sprocket Wheel from which a Chain runs to a similar Sprocket Wheel on the $11\frac{1}{2}$ " Axle Rod in the top of the tower, which in turn revolves the arms. The two bands at the base of the tower are formed of Strips separated by $2\frac{1}{2}$ " Strips and are merely for ornamentation.

PARTS REQUIRED

1—1" Pulley	10—3" Strips	1—5" Axle Rod
1—Bush Wheel	39— $2\frac{1}{2}$ " Strips	1— $3\frac{1}{2}$ " Axle Rod
3— $\frac{3}{4}$ " Pinions	8—2" Strips	1— $6\frac{1}{2}$ " Crank
2— $1\frac{1}{2}$ " Gear Wheels	22— $12\frac{1}{2}$ " Angle Girders	1—4' Chain
1— $1\frac{1}{2}$ " Crown Gear	12— $5\frac{1}{2}$ " Angle Girders	1— $1\frac{1}{2}$ " Sprocket
12—Collars	40—Angle Brackets	1—1" Sprocket
66— $12\frac{1}{2}$ " Strips	12—Obtuse Angles	2—Large Plates
66— $5\frac{1}{2}$ " Strips	1— $11\frac{1}{2}$ " Axle Rod	162—Nuts and Bolts
12— $3\frac{1}{2}$ " Strips	1—8" Axle Rod	

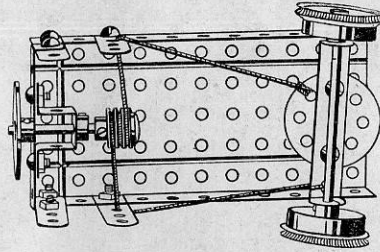
The Model shown on this page can be made with The American Model Builder Outfit No. 7, or with No. 6 and No. $6\frac{1}{2}$ Combined.
 HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

STANDARD DETAILS OF CONSTRUCTION AS USED IN AMERICAN MODEL BUILDER OUTFITS.



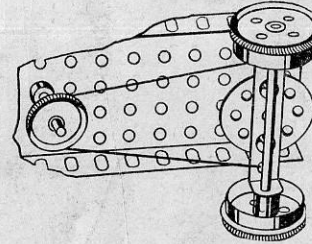
No. 1

Construction showing mounting of worm wheel when used to mesh with gear wheel to produce slow speed.



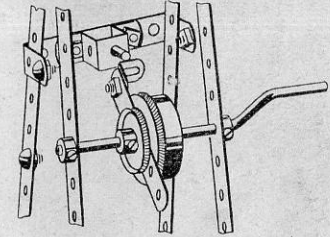
No. 2

Steering arrangement for automobile by means of worm attached to inclined steering rod. This arrangement gives a positive action.



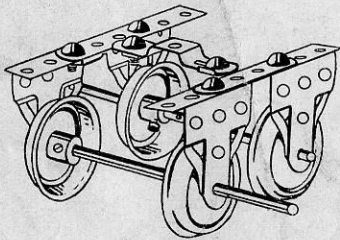
No. 3

Simple form of steering for truck with vertical steering rod.



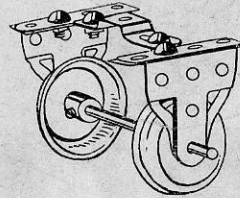
No. 4

Arrangement for raising and dropping trip hammer.



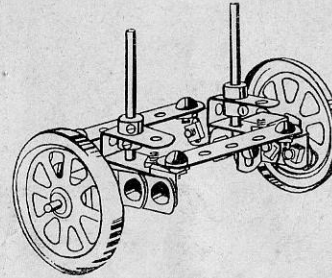
No. 5

Construction of double truck for various kinds of cars. This can be made to fit any width track by loosening the screws and nuts in the bolster plates.



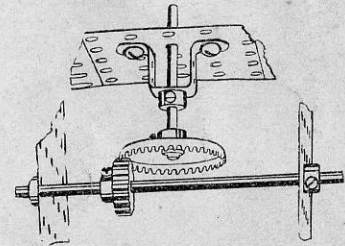
No. 6

Single truck for cars and engine. This can also be made to fit any width track by loosening screws and nuts in bolster plates.



No. 7

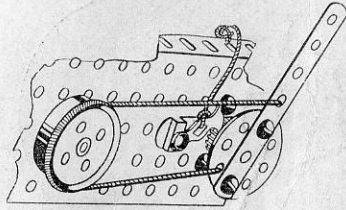
Automobile steering arrangement used on all heavy trucks. The screws and nuts in the tie bars should be loose so as to permit both wheels to turn at the same time on their upright bearings.



No. 8

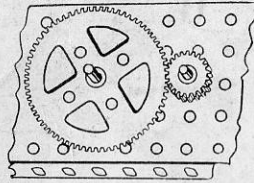
Transmission of power from a horizontal to a vertical axle. This is accomplished by meshing a crown gear with a pinion as shown in the cut.

STANDARD DETAILS OF CONSTRUCTION AS USED IN AMERICAN MODEL BUILDER OUTFITS.



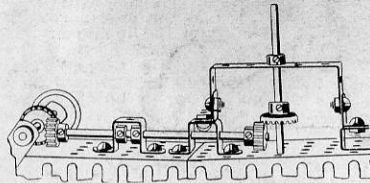
No. 9

Simple form of powerful brake. Ratchet pawl can be dropped to lock brake in position. By pulling a string attached to the ratchet the brake will be released.



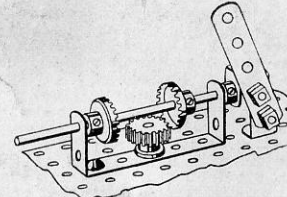
No. 10

Method of meshing gears with pinions. If motor is belted to the axle holding the pinion the speed would be **decreased**. If motor is belted to axle holding the gear wheel the speed would be **increased**.



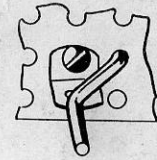
No. 11

Showing how power is transmitted from a horizontal axle through pinions to a vertical axle by means of crown gears.



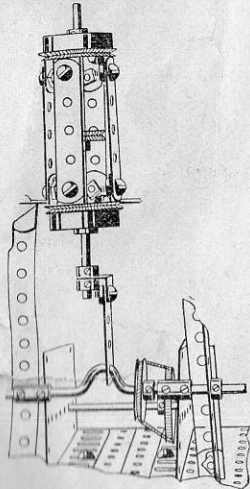
No. 12

Simple form of gear shift for raising and lowering the load with the same axle by moving the upright lever forward and back, and bringing the crown gears alternately into mesh with the pinion.



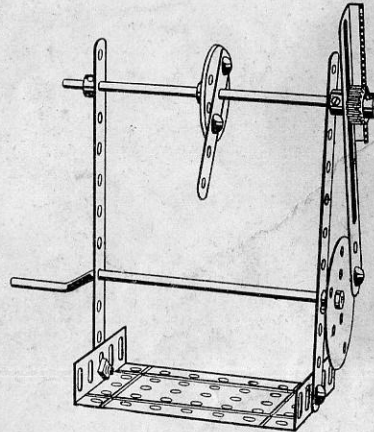
No. 13

Simple form of lock for crank by attaching an angle bracket to the side of a plate or strip.



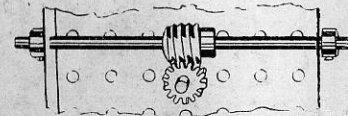
No. 14

Illustrates how a piston is operated from an engine crank. This construction can be used either in an upright or horizontal position.



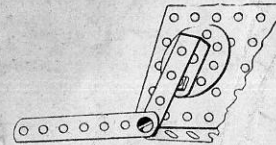
No. 15

Trip hammer arrangement operated by an eccentric drive wheel and oscillating rack.



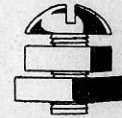
No. 16

This illustration shows method of meshing worm with small pinion, where slow speed is desired for the axle rod upon which the pinion is mounted. This form of gearing **cannot be driven** by applying power to the axle upon which the pinion is mounted.



No. 17

Illustrates how a crank motion can be obtained by attaching a hanger strip to a bush wheel.



No. 18

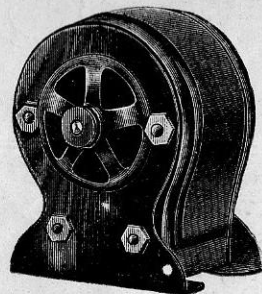
Simple form of lock nut by attaching two nuts on one screw. The lower nut should be drawn up tight against the upper nut to hold it in position.



No. 19

This illustrates the use of the ratchet pawl. The ratchet can be thrown from one side of the pinion to the other, depending upon the direction in which the axle revolves.

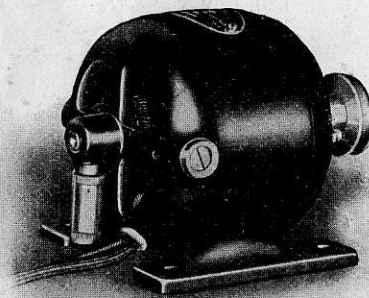
Study these constructions carefully as they will enable you to easily build the models where these constructions are used.



MOTOR Style No. 100

The No. 410 Transformer is designed especially for operating Electric Trains, Merry-Go-Rounds, Machine Shops, Etc. It is 50-Watts capacity and will not be injured by short circuits. By means of the Rheostat at the top of the Transformer, 4, 6, 10, 14 or 20 volts can be secured. IT IS DESIGNED FOR USE ONLY WITH ALTERNATING CURRENT—110 to 125 volts.

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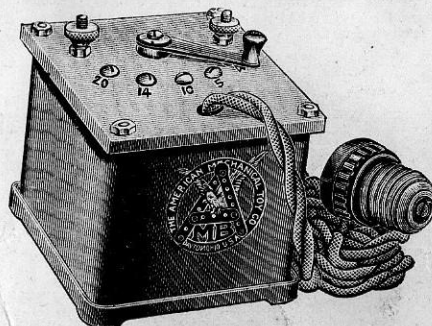


UNIVERSAL MOTOR, Style No. 325

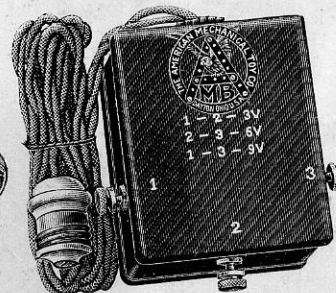
MOTOR Style No. 100

This Motor has been especially designed for operating the models built with the American Model Builder in connection with our Geared Countershaft No. 350. The Motor can be run from one or two dry cells or from city current through our No. 400 or No. 410 Transformer. It is made of steel, with bronze bearings throughout and is high grade in every respect. It stands $3\frac{1}{4}$ " high and has a three-pole armature $1\frac{1}{2}$ " in diameter. It will run smoothly and wear indefinitely with just an occasional oiling. The base is flanged and perforated so it can easily be mounted on a Rectangular Plate. This Motor is equal to any Motor on the market of double its price.

Price, complete\$1.00
For free delivery anywhere in U. S. A., add .10



No. 410 TRANSFORMER



No. 400 TRANSFORMER

Our No. 325 Universal Motor develops 1/100 H. P. and can be connected direct to either 110 Volts DIRECT or ALTERNATING current. Dry cells, Storage Batteries or Transformers are entirely unnecessary. It is strong, powerful, compact and efficient and embodies the very best materials and workmanship and is built with the same degree of accuracy as a 100 H. P. Motor. It stands $3\frac{3}{4}$ " high, $3\frac{3}{8}$ " in diameter, $4\frac{1}{2}$ " shaft measurement, and weighs 5 pounds. It is complete, ready for attachment to any lamp socket. Lubrication is automatic. It is a fine Motor for the boy who has a workshop and wishes to run small pieces of machinery.

Price\$10.00
For free delivery anywhere in United States, add .25

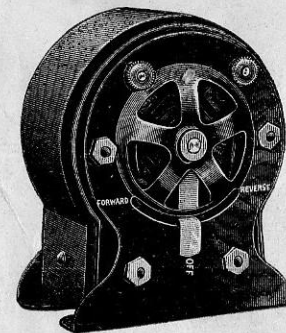
The No. 350 Countershaft will enable the owner of a small Motor to operate two or more models at the same time. It is especially designed for operating American Model Builder models. The power of the Motor is increased seventy times, which makes it possible to pull heavy loads without stalling the Motor. The Shaft has cast iron hangers, $\frac{1}{4}$ " Axle, which is supplied with three 1" Pulleys and one $1\frac{1}{4}$ " Pulley, all of which are adjustable on the Shaft. It is mounted on a black enameled steel base.

Price, complete\$.50
For free delivery anywhere in United States, add .10

MOTOR Style No. 150

Our No. 150 Motor is an exact duplicate of our No. 100 Motor, except that it is equipped with a switch, mounted on the inside of the Motor, which enables the operator to Start, Stop and Reverse the Motor without disconnecting the wires. The base is flanged and perforated so it can be mounted on a Rectangular Plate. This Motor is capable of operating any model made with The American Model Builder Outfits, when used in connection with our No. 350 Countershaft.

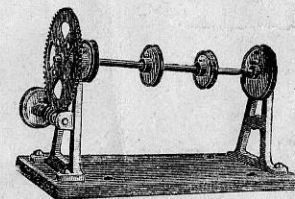
Price, complete\$1.50
For free delivery anywhere in U. S. A., add .10



MOTOR Style No. 150

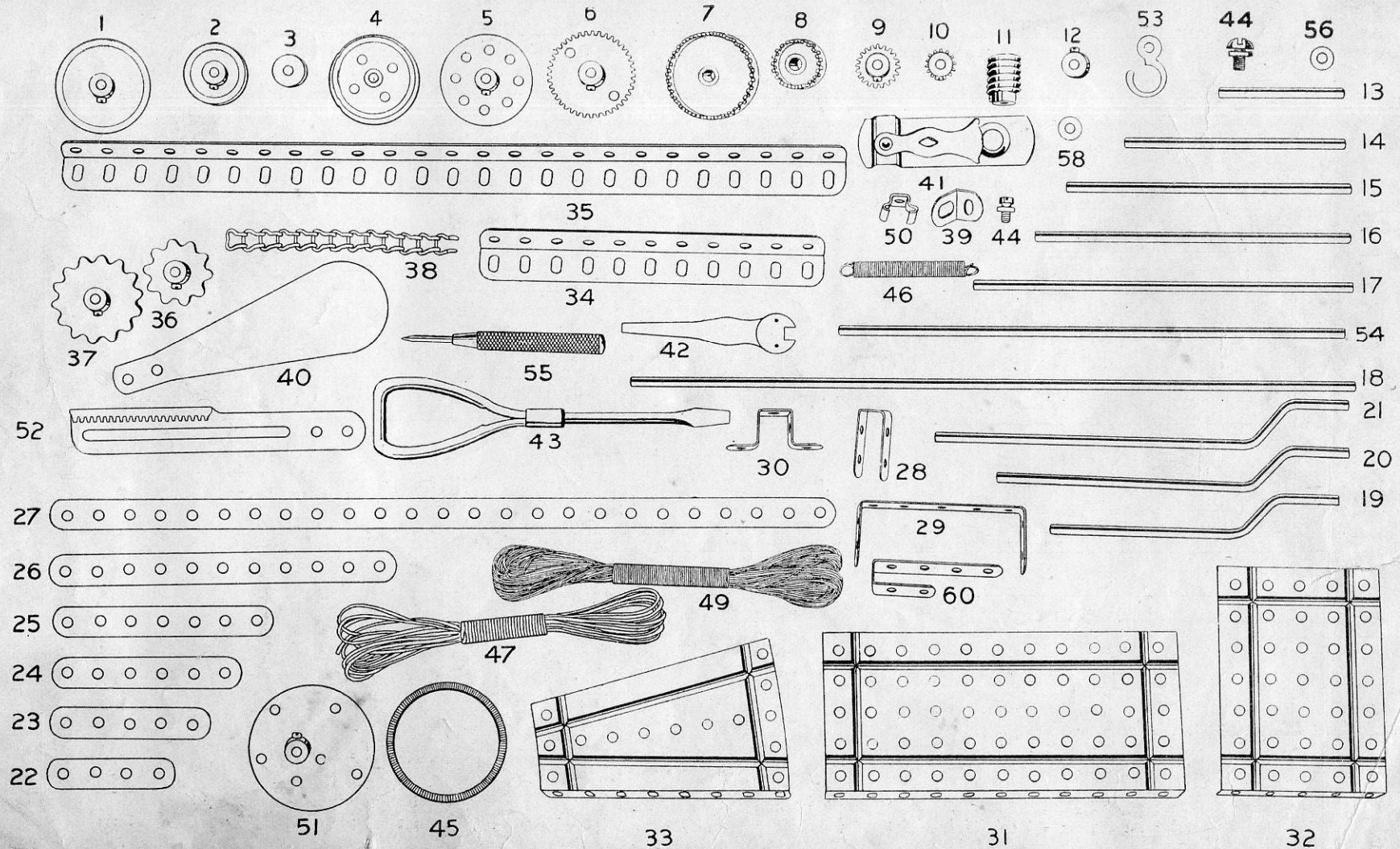
The No. 400 Transformer will entirely displace the use of storage batteries and dry cells and will operate any electrical toys not requiring over 9 volts. It is equipped with three binding posts and is $4\frac{1}{2}$ " long, $3\frac{3}{4}$ " wide and 3" high, and weighs 5 pounds. This Transformer is 50-Watts capacity and will carry a 50% overload. It is furnished with flexible cord and plug for attachment direct to a lamp socket. Will give either 3, 6, or 9 volts as desired. IT IS DESIGNED ONLY FOR USE WITH ALTERNATING CURRENT—110 to 125 volts.

Price\$3.00
For free delivery anywhere in U. S. A., add .25

No. 350
WORM-DRIVEN COUNTERSHAFT

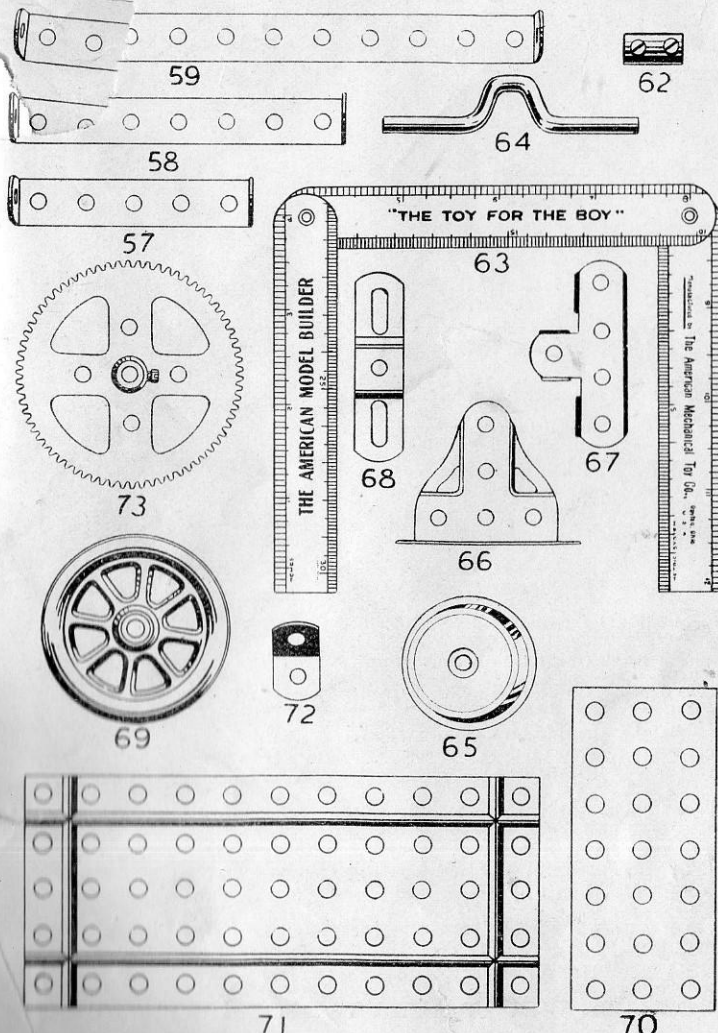
HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

	0	0 ¹ ₂	1	1 ¹ ₂	2	2 ¹ ₂	3	3 ¹ ₂	4	4 ¹ ₂	5	5 ¹ ₂	6	6 ¹ ₂	7
Flanged and Grooved Wheel															
Pulley Wheels, 1½"	4		4	2	6		4	1	4	1	4	8	8	3	4
Pulley Wheels, 1"		1	1		1			1	6			1	3	1	
Pulley Wheels, ½"									1		3	4	7	1	
Auto Wheels				4	4			4	2	1	4	8	8	4	
Car Wheels															
Bush Wheel		1	1		1				4	4	8	8	8	3	4
Pinion Wheel, ¾"									1	1	2	2	2	3	3
Pinion Wheel, ½"										2	2	1	3	1	2
Worm Wheel							1	1	2	2	2	1	3	1	2
Eccentric Drive Wheel								1	1	1	1	1	1	1	2
Gear Wheel, 1½"								1	1	1	1	1	2	2	4
Gear Wheel, 2¼"								1	1	1	1	1	1	1	2
Crown Gear, 1½"								1	1	1	2	2	2	1	2
Crown Gear, 1½"								2	2	2	2	2	2	1	2
Crown Gear, ¾"														3	3
Sprocket, 1"														2	5
Sprocket, 1½"														1	3
Collar and Set Screw	2	4	6	2	8	2	10	2	12	2	12	4	16	4	24
Axle Rod, 11½"														2	
Axle Rod, 8"														2	4
Axle Rod, 6"						3	3	1	4	2	2	2	4	4	4
Axle Rod, 5"														2	4
Axle Rod, 4½"	2		2	1	3	3	3	1	4	2	2	6	6	2	8
Axle Rod, 3½"				1	1	1	1	2	2	2	2	4	2	8	8
Axle Rod, 2"		2	2	2	2	2	2	1	2	2	2	2	8	2	10
Shaft Connector														4	4
Cranks, 6½"		1	1	1	1	1	2	1	1	1	2	1	3	1	4
Cranks, 5½"														3	5
Cranks, 4½"	1		1	1	2		2	2	3	2	3	3	2	2	5
Engine Crank															
Perforated Strip, 12½"		4	4	4	8	6	14		14	6	20	4	24	42	66
Perforated Strip, 5½"	6	2	6	2	2	12	18	2	2	4	24	12	36	36	72
Perforated Strip, 3½"							3	3	6	2	4	8	20	40	40
Perforated Strip, 3"								2	2	2	4	4	8	16	24
Perforated Strip, 2½"	6	4	10		10	10	20		20	10	30	30	60	10	70
Perforated Strip, 2"										4	4	6	10	20	30
Angle Strip, 2½"		4	4	4	4	4	4	4	4	2	6	2	8	8	8
Angle Strip, 2½"		4	4	4	4	4	4	4	4	2	6	2	6	6	6
Angle Strip, 3½"		2	2	2	2	2	2	2	2	2	4	2	6	6	6
Angle Strip, 5½"		2	2	2	2	2	2	1	2	2	2	2	3	4	4
Angle Strip, 5½"		1	1	1	1	1	2						1	4	4
Single Bent Strip														4	4
Double Bent Strip			1	1	1	1	1	1	1	1	2	2	2	4	8
Large Bent Strip														4	4
Hanger Strips															
Angle Girder, 12½"						4	4	4	8	4	8	2	10	14	24
Angle Girder, 5½"										4	4	4	8	12	20
Angle Bracket	6	6	12	6	6	12	24		24	24	48	12	60	120	180
Obtuse Angle							6	6	12	12	12	12	24	24	24
Truck Frames				4	4	4	4	4	4	4	8	8	8	8	8
"T" Strips														4	4
Bolster Plates														2	2
Rectangular Plate, Large	1	1	1	1	1	1	1	1	1	2	2	2	4	4	8
Rectangular Plate, Small														4	10
Flat Plate, 3½"														2	6
Flat Plate, 5½"														2	6
Sector Plate		1	1	1	1	2	2	2	2	2	2	2	2	2	4
Nuts	12	12	24	12	36	24	60	20	80	40	120	130	250	300	550
Machine Screws	12	12	24	12	36	24	60	20	80	40	120	130	250	300	550
Wood Screws														12	24
Screw Driver, Large														1	1
Knurled Screw Driver														1	1
Spanner and Screw Driver														1	1
Ratchet Pawl	1		1	1	1	1	1	1	1	2	2	1	3	1	4
Hook														1	1
Spring														1	1
Eye Pieces														1	1
Oscillating Rack														2	2
Chain, 4 ft. Length														2	4
Washers														2	4
Rule, 12"														1	1
Rule, Heavy Blue, Hank														1	6
Cord, Green, 40 ft. Lengths														1	3
Cord, Green, 80 ft. Lengths		1	1				1	1	1	1	1	1	1	2	1
Propeller Blades														2	4
Pulley Belt														1	2
No. 100 Motor														1	1
No. 150 Motor														1	1
Instruction Book	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
Complete Manual of Instruct'n														1	2



No. 1.	1½" Pulley Wheels.....	at 10c Each	No. 37.	1½" Sprocket.....	at 15c Each
No. 2.	1" " ".....	" 10c "	No. 38.	Chain, 4 ft. Length.....	" 10c "
No. 3.	½" " ".....	" 05c "	No. 39.	Angle Brackets.....	" 10c Doz.
No. 4.	1½" Flanged Wheels.....	" 15c "	No. 40.	Propeller Blades.....	" 15c Pair
No. 5.	1½" Bush Wheels.....	" 15c "	No. 41.	Ratchet Pawls.....	" 10c Each
No. 6.	1½" Gear Wheels.....	" 15c "	No. 42.	Spanner and Screw Driver.....	" 05c "
No. 7.	1½" Crown Gears.....	" 20c "	No. 43.	Large Screw Driver.....	" 10c "
No. 8.	¾" " ".....	" 15c "	No. 44.	Nuts and Bolts.....	" 10c Doz.
No. 9.	¾" Pinions.....	" 15c "	No. 45.	Pulley Belts.....	" 05c Each
No. 10.	½" " ".....	" 10c "	No. 46.	1¾" Springs.....	" 05c "
No. 11.	Worm Wheels.....	" 15c "	No. 47.	Blue Cord, 15 ft.....	" 2½c "
No. 12.	Collars and Set Screws.....	" 05c "	No. 49.	Green Cord, 80 ft.....	" 05c "
No. 13.	2" Axles, rounded ends.....	" 2½c "	No. 50.	Eye Pieces.....	" 2½c "
No. 14.	3½" " " ".....	" 2½c "	No. 51.	Eccentric Wheels.....	" 15c "
No. 15.	4½" " " ".....	" 2½c "	No. 52.	Oscillating Rack.....	" 15c "
	Drilled.....	" 05c "	No. 53.	Hooks.....	" 2½c "
No. 16.	5" Axles, rounded ends—		No. 54.	8" Axle Rod, rounded ends.....	" 05c "
	Drilled.....	" 05c "	No. 55.	Knurled Screw Driver.....	" 10c "
No. 17.	6" Axles, rounded ends.....	" 05c "	No. 56.	Washer.....	" 10c Doz.
No. 18.	11½" " " ".....	" 05c "	No. 57.	2½" Angle Strips.....	" 15c ½ Doz.
No. 19.	4½" Cranks, rounded ends—		No. 58.	3½" " ".....	" 15c ½ "
	Drilled.....	" 05c "	No. 59.	5½" " ".....	" 20c ½ "
No. 20.	5½" Cranks, rounded ends—		No. 60.	Hanger Strip.....	" 05c Each
	Drilled.....	" 05c "	No. 61.	½" Wood Screws.....	" 05c Doz.
No. 21.	6½" Cranks, rounded ends—		No. 62.	Shaft Connector.....	" 10c Each
	Drilled.....	" 05c "	No. 63.	12" Rule.....	" 10c "
No. 22.	2" Perforated Strips.....	" 10c ½ Doz.	No. 64.	Engine Crank.....	" 05c "
No. 23.	2½" " ".....	" 10c ½ "	No. 65.	Car Wheel.....	" 05c "
No. 24.	3" " ".....	" 10c ½ "	No. 66.	Truck Frames.....	" 2½c "
No. 25.	3½" " ".....	" 10c ½ "	No. 67.	"T" Strips.....	" 2½c "
No. 26.	5½" " ".....	" 15c ½ "	No. 68.	Bolster Plates.....	" 2½c "
No. 27.	12½" " ".....	" 25c ½ "	No. 69.	Auto Wheels.....	" 10c "
No. 28.	Single Bent Strips.....	" 05c Each	No. 70.	3½" Flat Plate.....	" 05c "
No. 29.	Large Bent Strips.....	" 05c "	No. 71.	5½" " ".....	" 05c "
No. 30.	Double Bent Strips.....	" 05c "	No. 72.	Obtuse Angle.....	" 10c Doz.
No. 31.	Large Rectangular Plates.....	" 10c "	No. 73.	2¼" Gear Wheel.....	" 20c Each
No. 32.	Small Rectangular Plates.....	" 10c "	No. 77.	Instruction Book No. 1.....	" 10c "
No. 33.	Sector Plates.....	" 10c "	No. 78.	Complete Manual of Instruc-	
No. 34.	5½" Angle Girders.....	" 20c ½ Doz.		tion.....	" 25c "
No. 35.	12½" " ".....	" 25c ½ "	No. 79.	Set Screws.....	" 10c Doz.
No. 36.	1" Sprocket.....	" 15c Each			

When orders for separate parts amount to \$3.00 or more, we will prepay transportation charges anywhere in the United States.



The parts illustrated on this page are entirely new and are only included in the 1915 American Model Builder outfits.

Price List Of Outfits

REGULAR OUTFITS

No. 0	American Model Builder Outfit	-----	will build 105 Models	-----	\$.50
No. 1	American Model Builder Outfit	-----	" " 173	" -----	1.00
No. 2	American Model Builder Outfit	-----	" " 231	" -----	2.00
No. 3	American Model Builder Outfit	-----	" " 269	" -----	3.00
No. 4	American Model Builder Outfit including No. 100 Motor	" " 309	" -----	5.00	
No. 5	American Model Builder Outfit	" " 150 " " " 334	" -----	7.50	
No. 6	American Model Builder Outfit	" " 150 " " " 349	" (Packed in Heavy Cardboard Box)	-----	12.50
No. 6	American Model Builder Presentation Outfit	(Including No. 150 Motor) " " 349	" (Packed in a Quartered Oak Box, Mission Finish)	-----	15.00
No. 7	American Model Builder Presentation Outfit	(Including No. 150 Motor) " " 365	" (Packed in a Mahogany Box)	-----	25.00

ACCESSORY OUTFITS

No. 0½	American Model Builder Accessory Outfit	(Containing Sufficient Parts to Convert a No. 0 Outfit into a No. 1 Outfit) -----	.50
No. 1½	American Model Builder Accessory Outfit	(Containing Sufficient Parts to Convert a No. 1 Outfit into a No. 2 Outfit) -----	1.00
No. 2½	American Model Builder Accessory Outfit	(Containing Sufficient Parts to Convert a No. 2 Outfit into a No. 3 Outfit) -----	1.00
No. 3½	American Model Builder Accessory Outfit	(Containing Sufficient Parts to Convert a No. 3 Outfit into a No. 4 Outfit) -----	2.00
		(No. 100 Motor included in this Outfit)	
No. 4½	American Model Builder Accessory Outfit	(Containing Sufficient Parts to Convert a No. 4 Outfit into a No. 5 Outfit) -----	2.50
No. 5½	American Model Builder Accessory Outfit	(Containing Sufficient Parts to Convert a No. 5 Outfit into a No. 6 Outfit) -----	5.00
No. 6½	American Model Builder Accessory Outfit	(Containing Sufficient Parts to Convert a No. 6 Outfit into a No. 7 Outfit) -----	10.00

NOTE.— Any Regular Outfit can be converted into the next larger Outfit by the addition of the Accessory Outfit bearing the half size. For example, a No. 1½ Accessory Outfit added to a No. 1 will convert a No. 1 into a No. 2; a No. 2½ will convert a No. 2 into a No. 3, and so on.

Any of the above Outfits can be secured from your dealer at prices shown. Where Outfits are ordered direct from the factory, the following amounts must be added to cover packing, insurance and free delivery: REGULAR OUTFITS—No. 0, 10c; No. 1, 15c; No. 2, 25c; No. 3, 35c; No. 4, 35c; No. 5, 50c; No. 6, 75c; No. 7, \$1.00. ACCESSORY OUTFITS—No. 0½, 10c; No. 1½, 15c; No. 2½, 25c; No. 3½, 25c; No. 4½, 25c; No. 5½, 35c; No. 6½, 75c.

Remittance should be made by N. Y. DRAFT, POST OFFICE or EXPRESS MONEY ORDER. BE SURE TO ADD THE NECESSARY AMOUNT for free delivery, as otherwise shipment will be made by Express Collect.

