



a Boxar

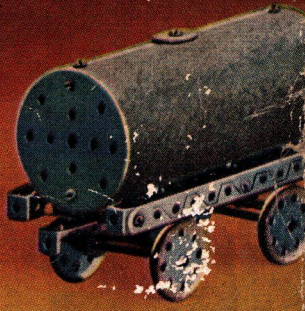
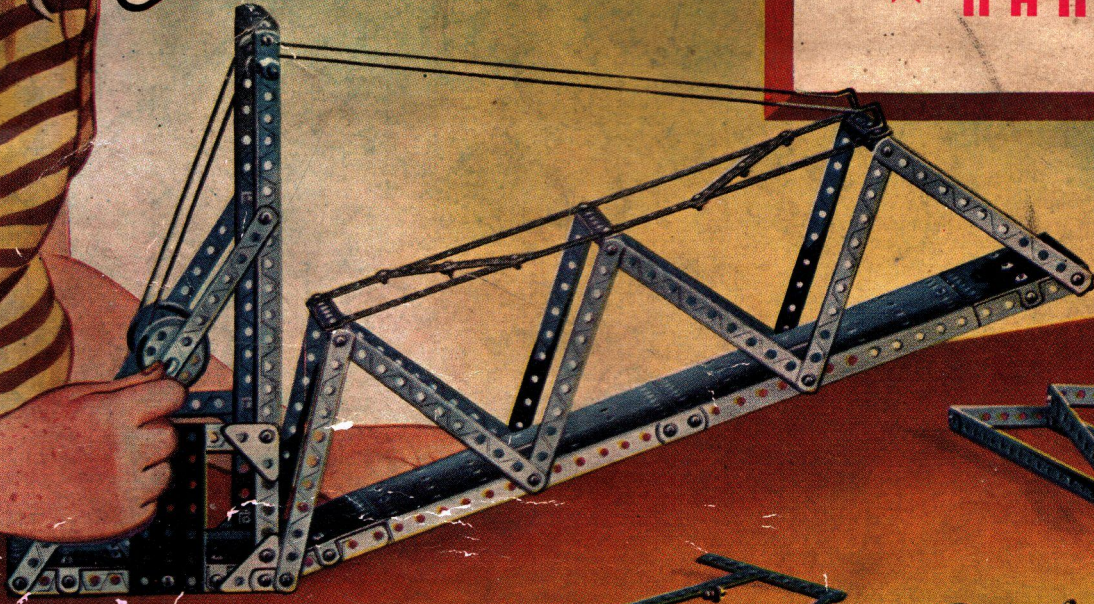
CONSTRUCT-O-CRAFT

PRECISION MADE TRADE MARK

EMBOSSSED STEEL

MODEL 500

ENGINEERING
★ HANDBOOK



HOW TO BUILD TRAINS • BRIDGES • MACHINERY AND MECHANICAL TOYS



THE "BOSS" HAS SOMETHING EXTRA SPECIAL TO SAY!

"I want you model builders to know I'm mighty proud of this Construct-O-Craft set. You'll feel the same way, too, after you have owned it a few weeks. And here's why! Every part in your Construct-O-Craft set is precision made. It's engineered!

You see, during the War my company built precision parts for the Armed Forces. Today we are using our know-how, along with our precision machines, to build special tools and motors for industry, just as we did before the War. At the same time, we use these same machines to build your Construct-O-Craft! Sounds almost unbelievable, doesn't it? But it's true! Every word of it!

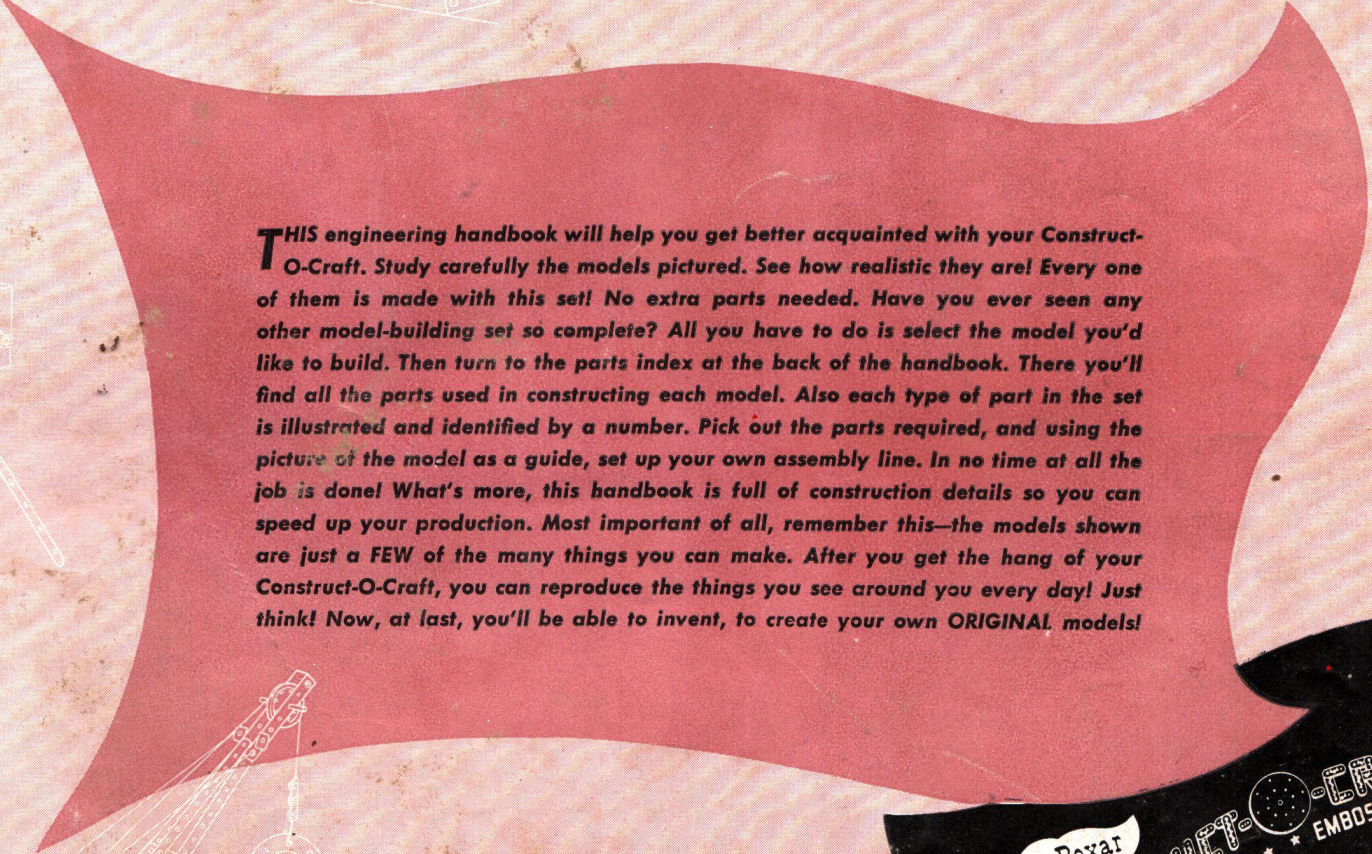
NOW! Here's that something extra special I want to tell you! Take a close look at my picture. You're right! I'm checking over the engineering drawings and the actual working model of a 2-cylinder marine engine—which I'll have in production this year all done up in kit form! But this is not all! Soon we will be building miniature motors especially for your Construct-O-Craft! Real motors! Won't that be something? Watch your hobby store for the big super

electrified Model 800. Yes, and for other motorized sets, too! Better still, write to me personally and have your name put on our files so I can notify you when these motors and super sets are due to appear on the market.


Believe me, model builders, there are many days of fun ahead for you with your Construct-O-Craft. The best of luck to you all."

Sincerely Yours
Joe Horn

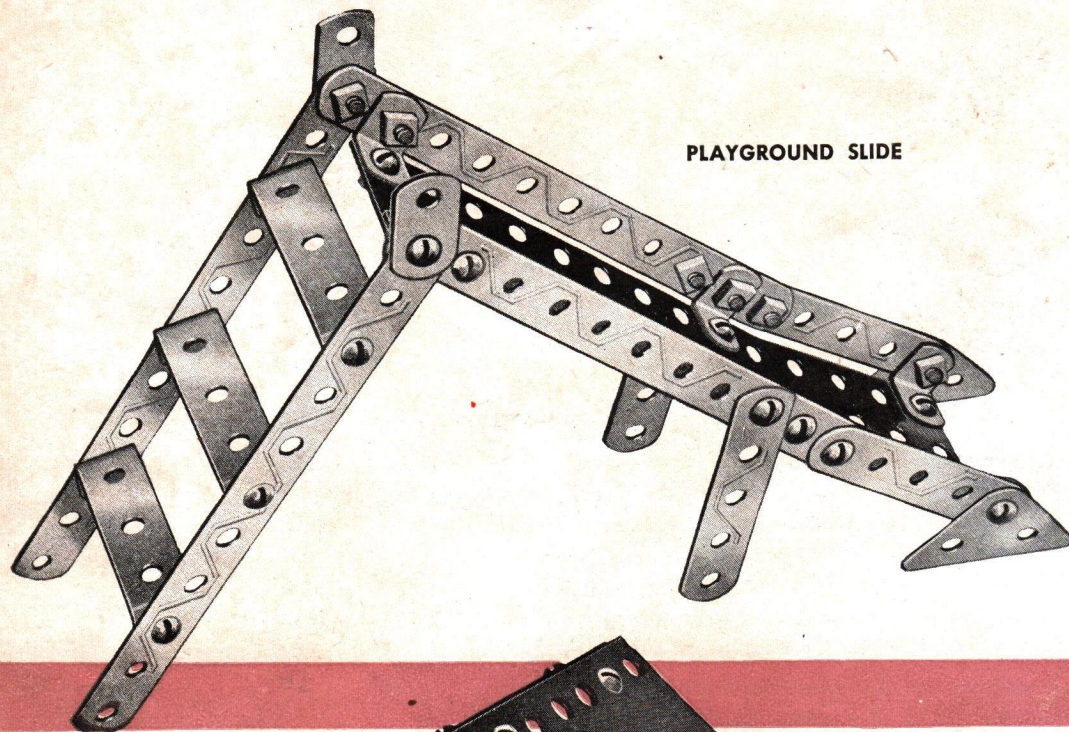
President, Boxar Tool & Mfg. Co., 2240 W. Ogden Ave., Chicago 12, Illinois



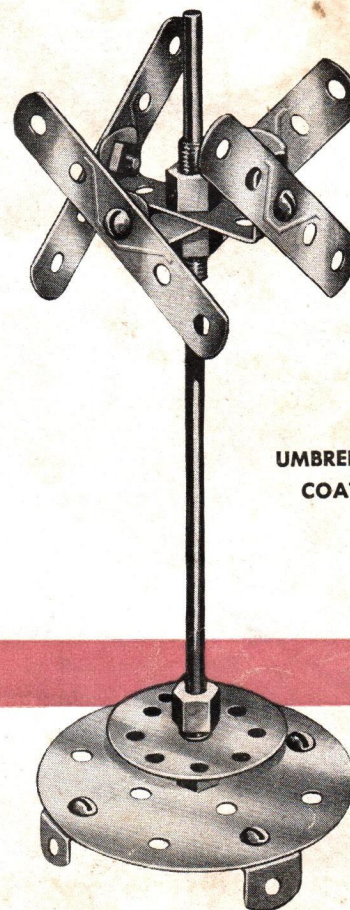
THIS engineering handbook will help you get better acquainted with your Construct-O-Craft. Study carefully the models pictured. See how realistic they are! Every one of them is made with this set! No extra parts needed. Have you ever seen any other model-building set so complete? All you have to do is select the model you'd like to build. Then turn to the parts index at the back of the handbook. There you'll find all the parts used in constructing each model. Also each type of part in the set is illustrated and identified by a number. Pick out the parts required, and using the picture of the model as a guide, set up your own assembly line. In no time at all the job is done! What's more, this handbook is full of construction details so you can speed up your production. Most important of all, remember this—the models shown are just a FEW of the many things you can make. After you get the hang of your Construct-O-Craft, you can reproduce the things you see around you every day! Just think! Now, at last, you'll be able to invent, to create your own ORIGINAL models!



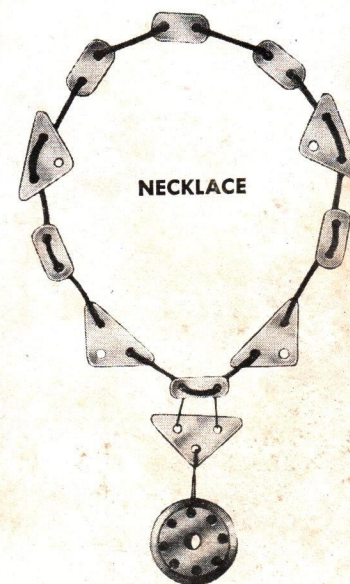
a Boxar
CONSTRUCT-O-CRAFT
PRECISION MADE IN U.S.A. ★ ★ ★ EMBOSSSED STEEL
FOR MODEL BUILDERS



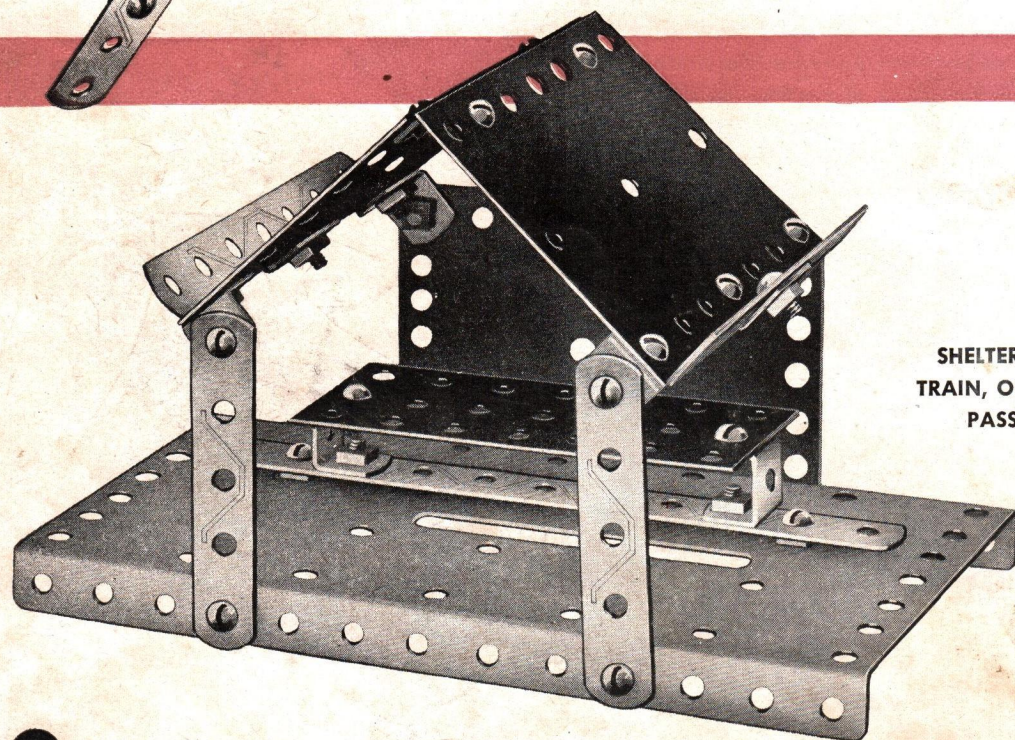
PLAYGROUND SLIDE



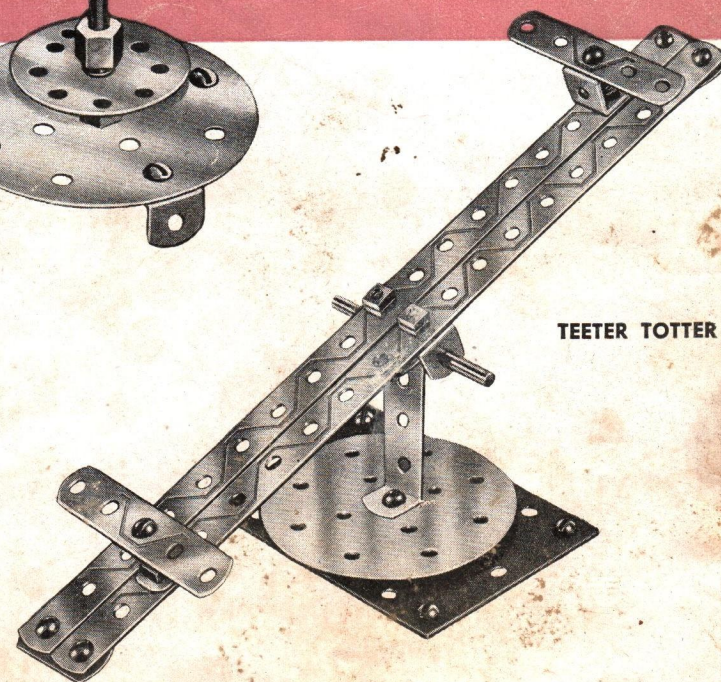
UMBRELLA AND
COAT TREE



NECKLACE

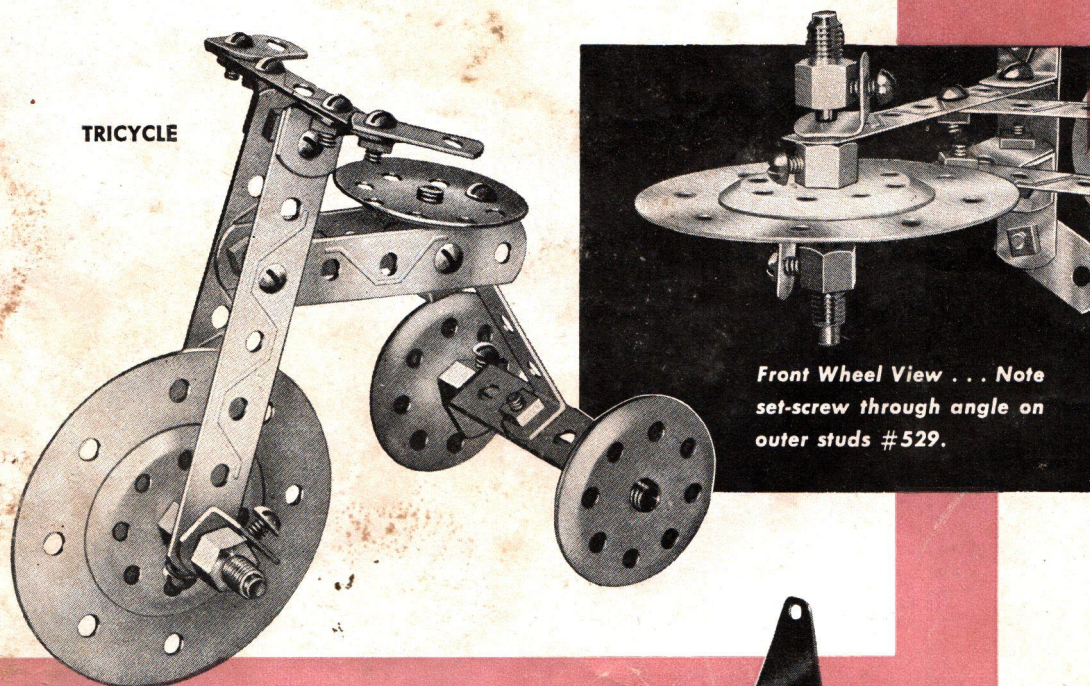


SHELTER FOR BUS
TRAIN, OR STREETCAR
PASSENGERS

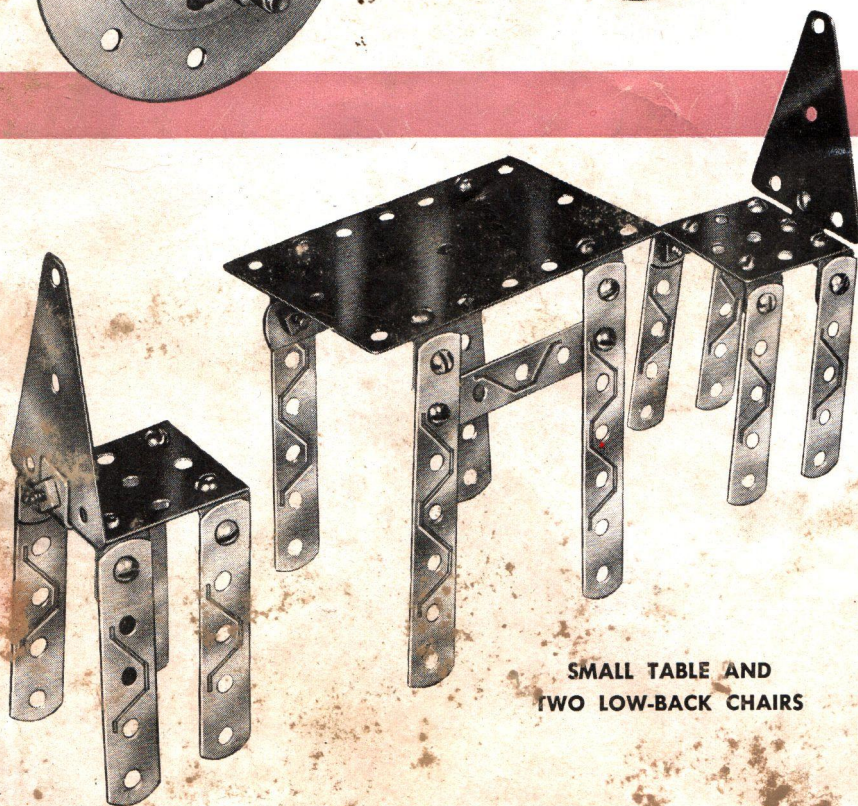


TEETER TOTTER

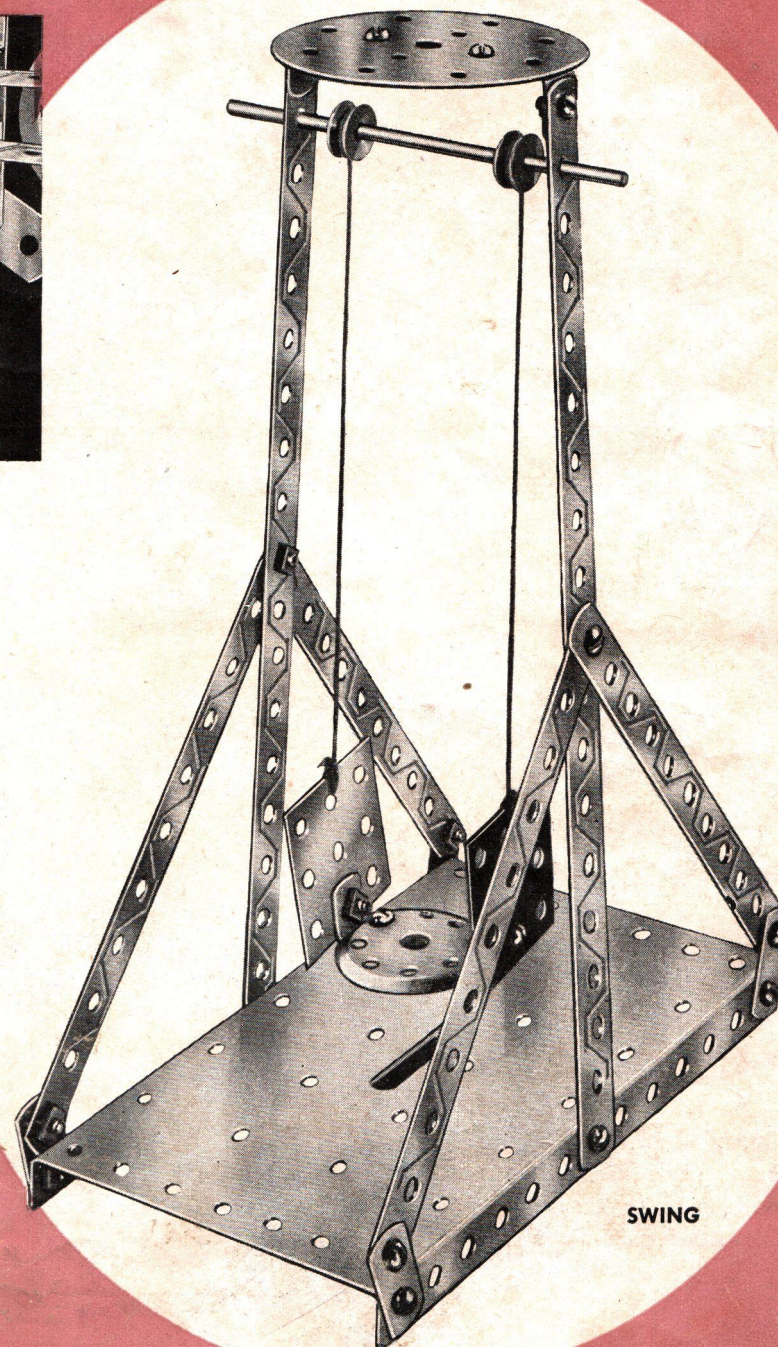
TRICYCLE



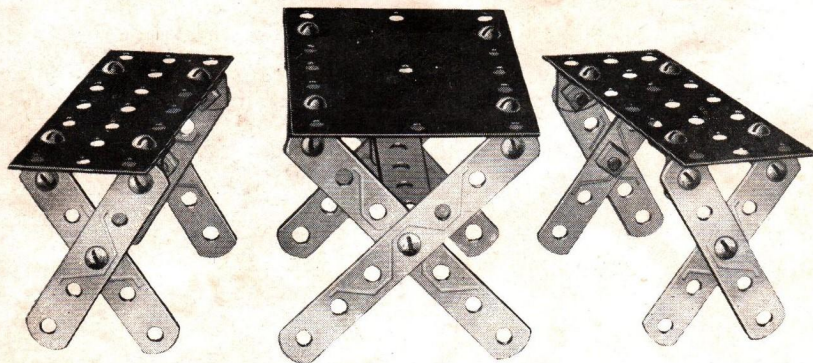
Front Wheel View . . . Note
set-screw through angle on
outer studs #529.



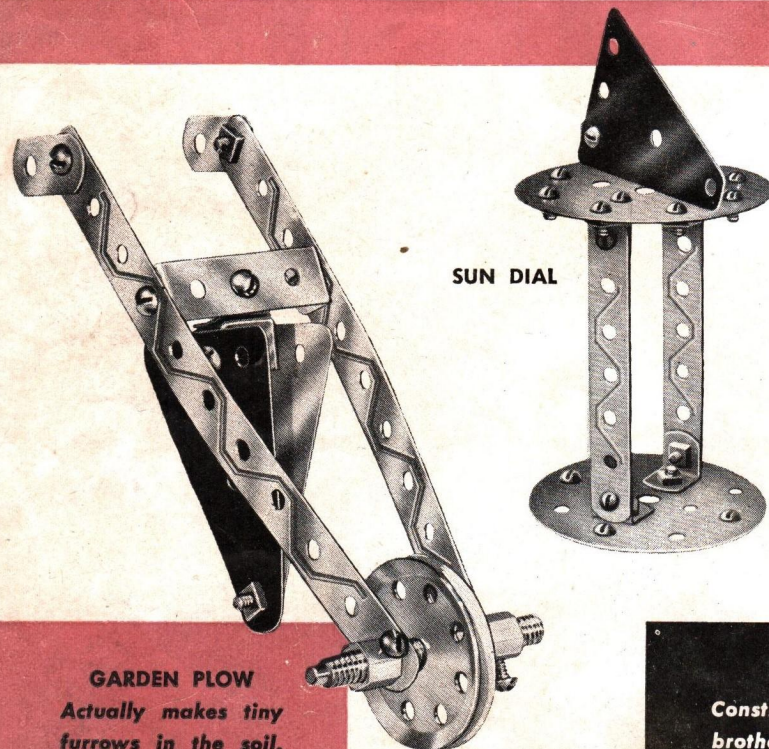
SMALL TABLE AND
TWO LOW-BACK CHAIRS



SWING



PICNIC TABLE AND TWO BENCHES



SUN DIAL

GARDEN PLOW

Actually makes tiny furrows in the soil. Just the thing for your window-box garden!

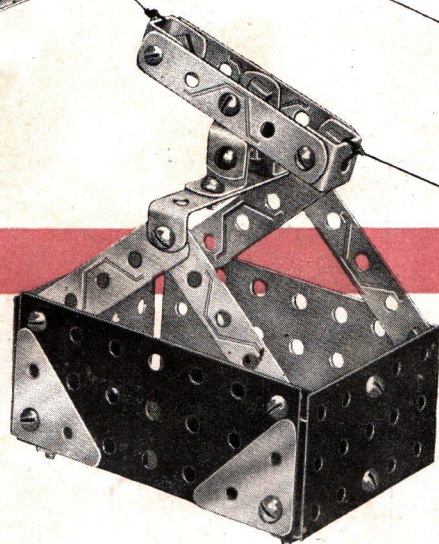
GARDEN SWING

Construct this model for baby brother or sister to use in the sand box. Swings freely. Won't take you long to make either.





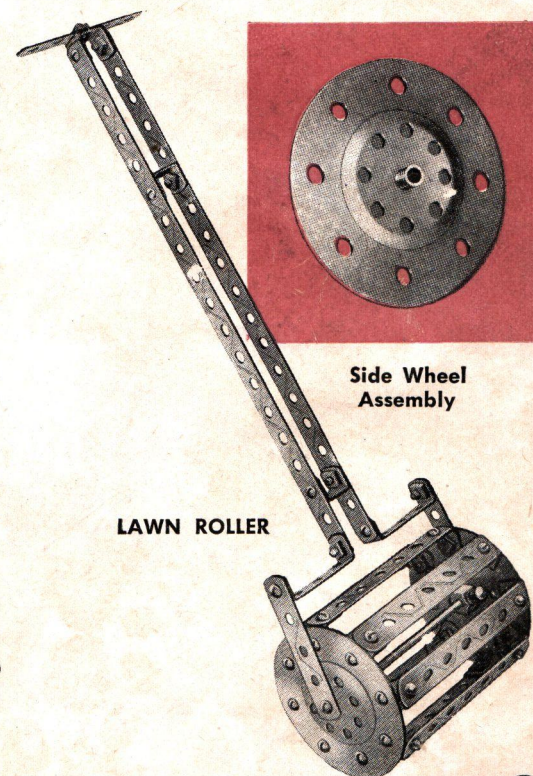
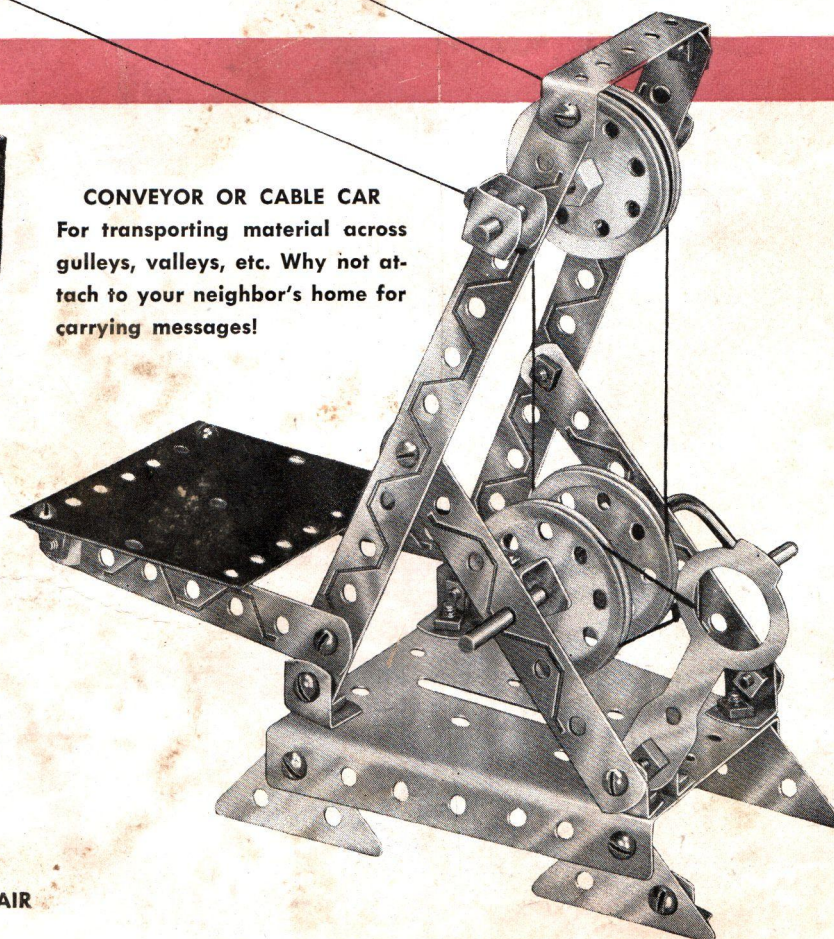
FARMER'S DISC HARROW



CONVEYOR OR CABLE CAR
For transporting material across
gulleys, valleys, etc. Why not at-
tach to your neighbor's home for
carrying messages!

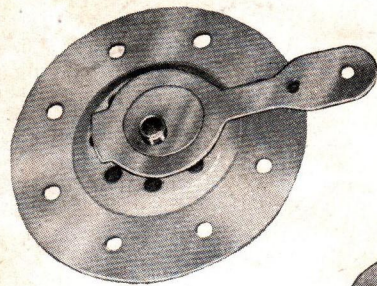


LAWN CHAIR

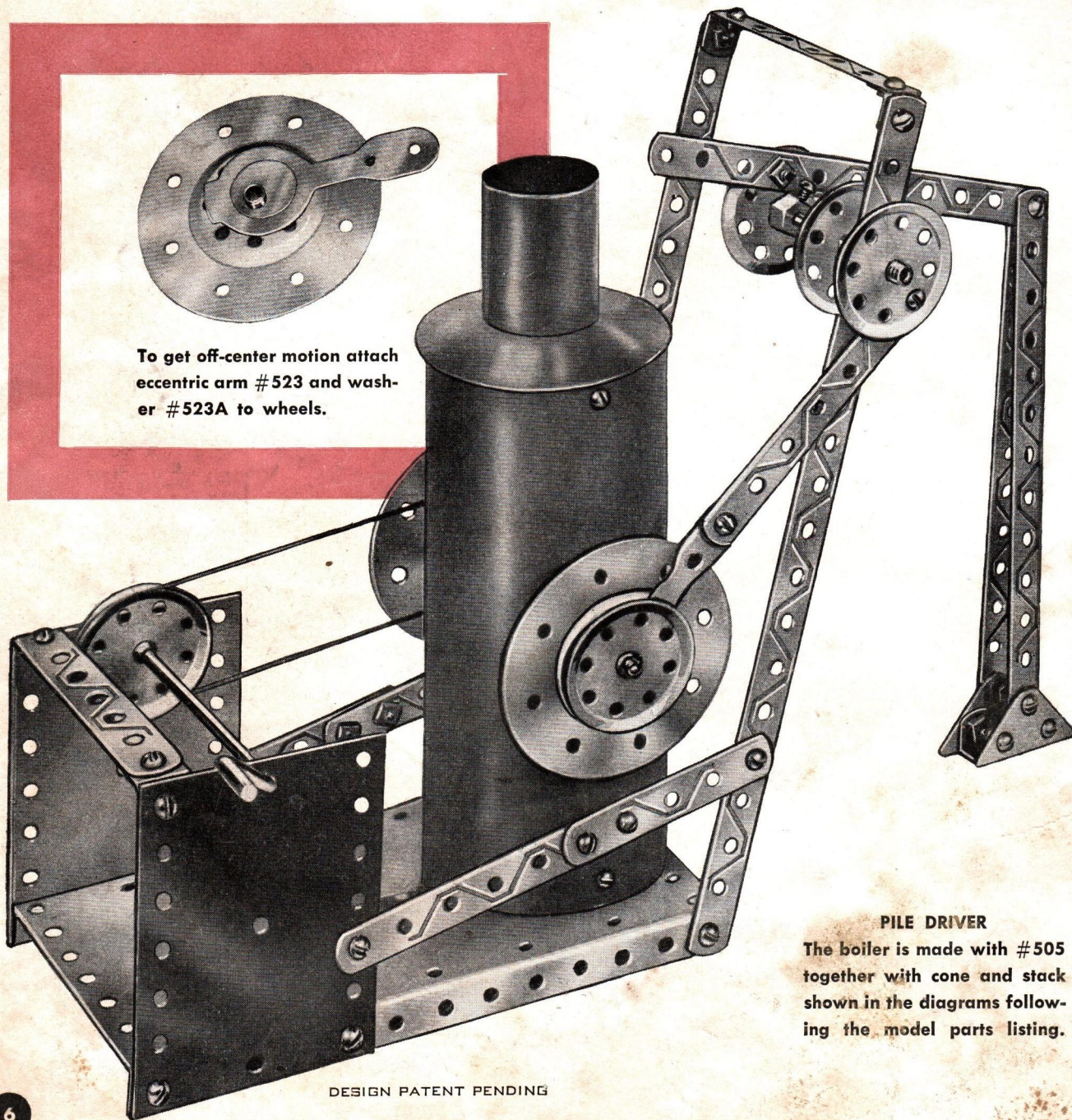


LAWN ROLLER

Side Wheel
Assembly



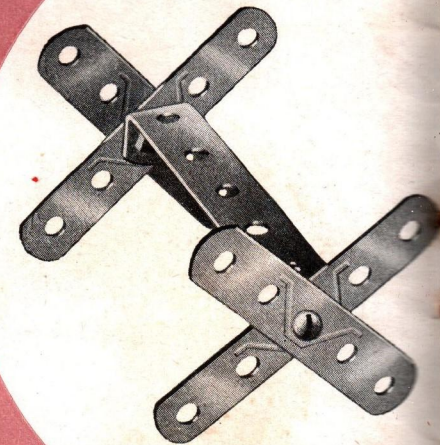
To get off-center motion attach eccentric arm #523 and washer #523A to wheels.



PILE DRIVER

The boiler is made with #505 together with cone and stack shown in the diagrams following the model parts listing.

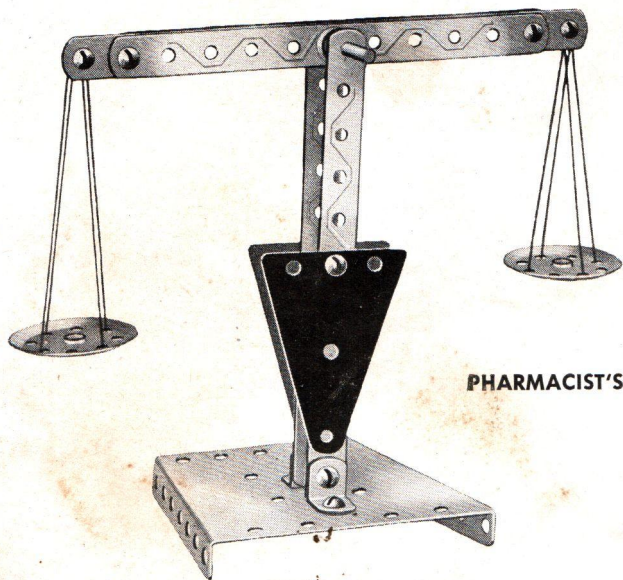
DESIGN PATENT PENDING



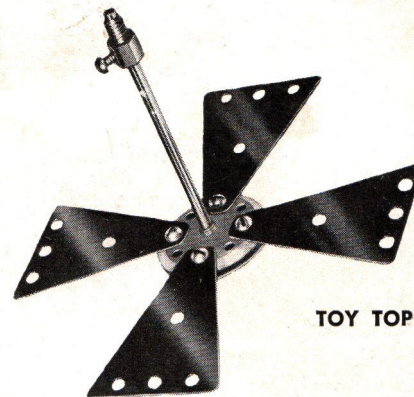
SAW HORSE



TOOL BOX



PHARMACIST'S SCALE



TOY TOP

"DOWN-ON-THE-FARM" SILO

See diagram at end of handbook for making your own roof.

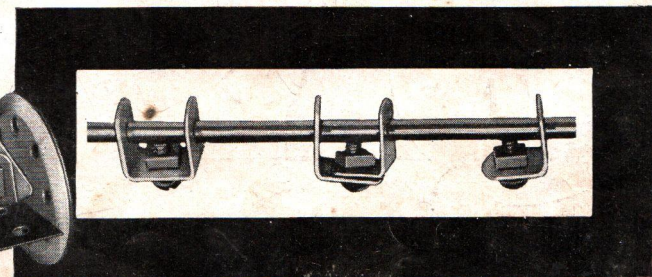


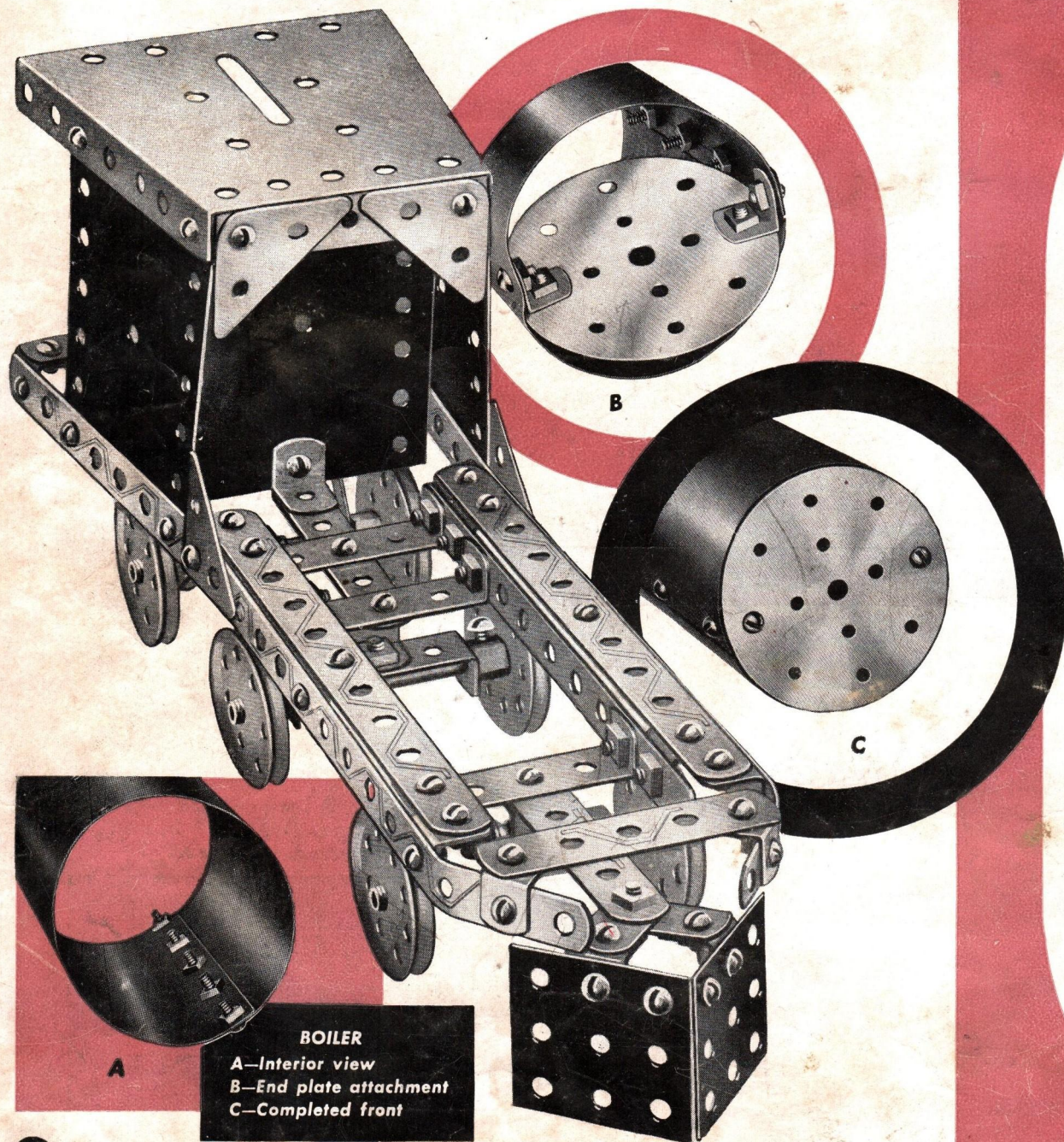
WOOD WORKER'S BENCH

FACTORY
HAND TRUCK



Three types of stop collars using either a single #516 or two #516's. Also one #524. Can be used on all types of models where axles are used.





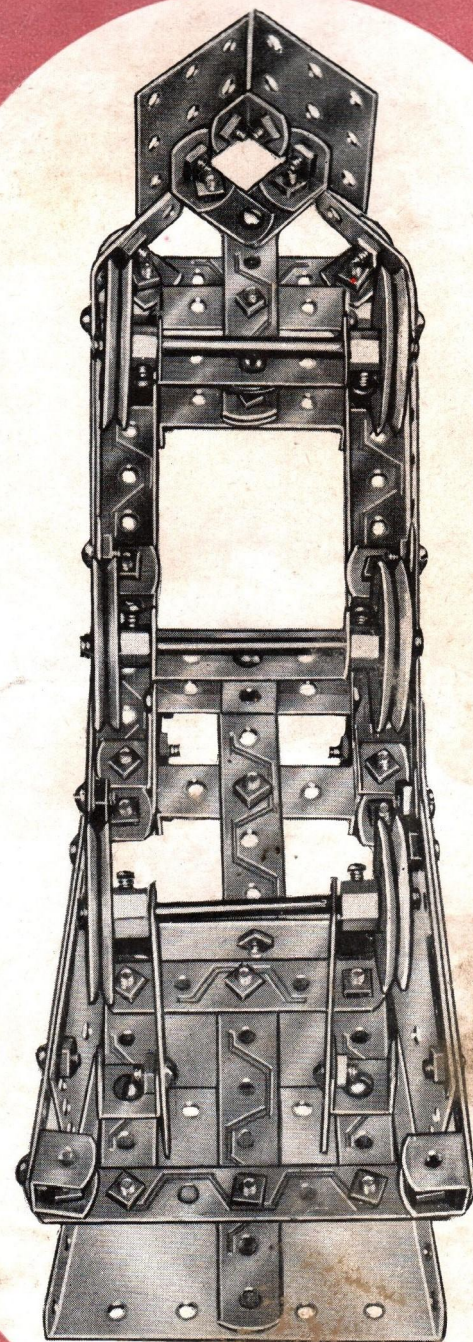
A

BOILER

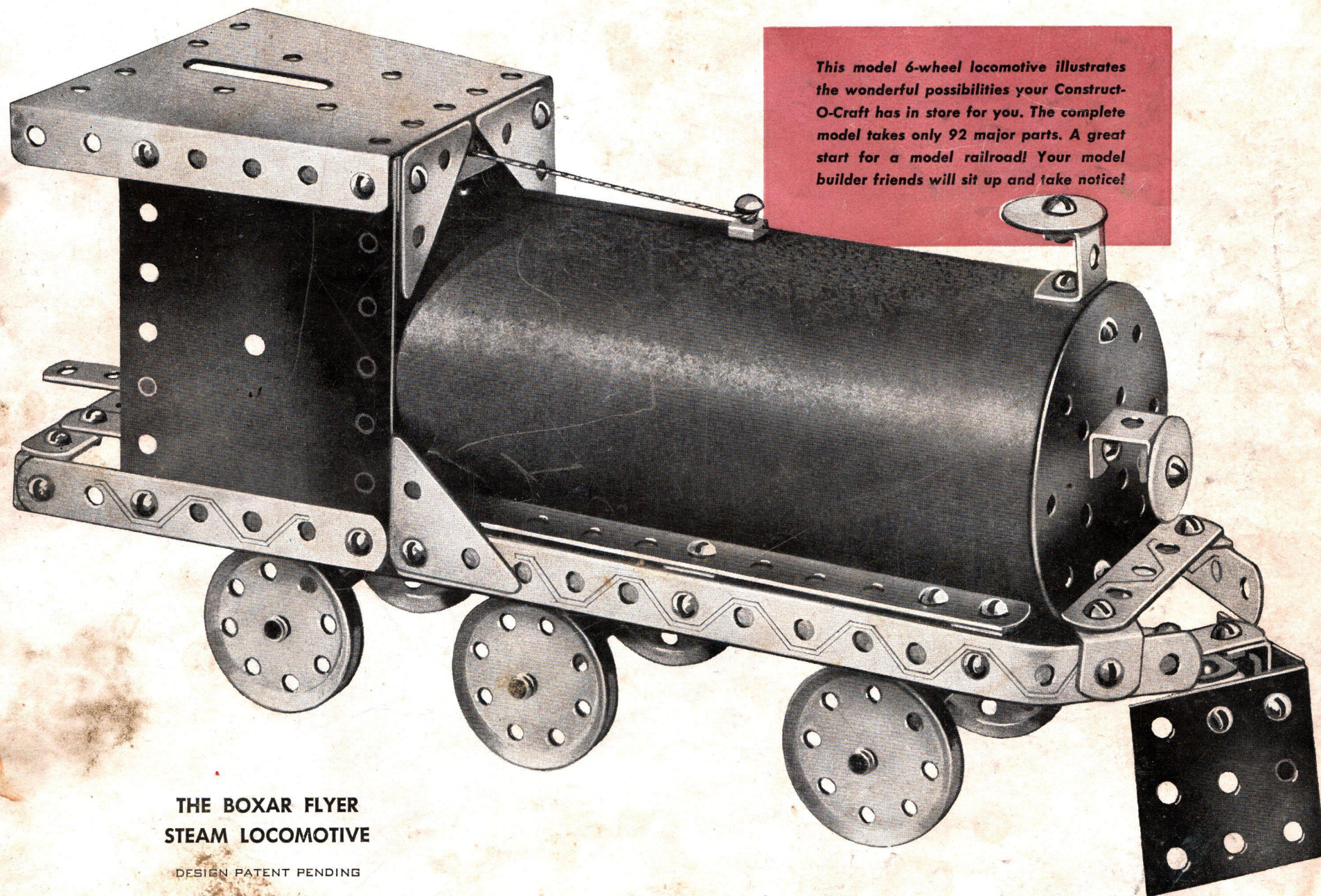
A—Interior view

B—End plate attachment

C—Completed front



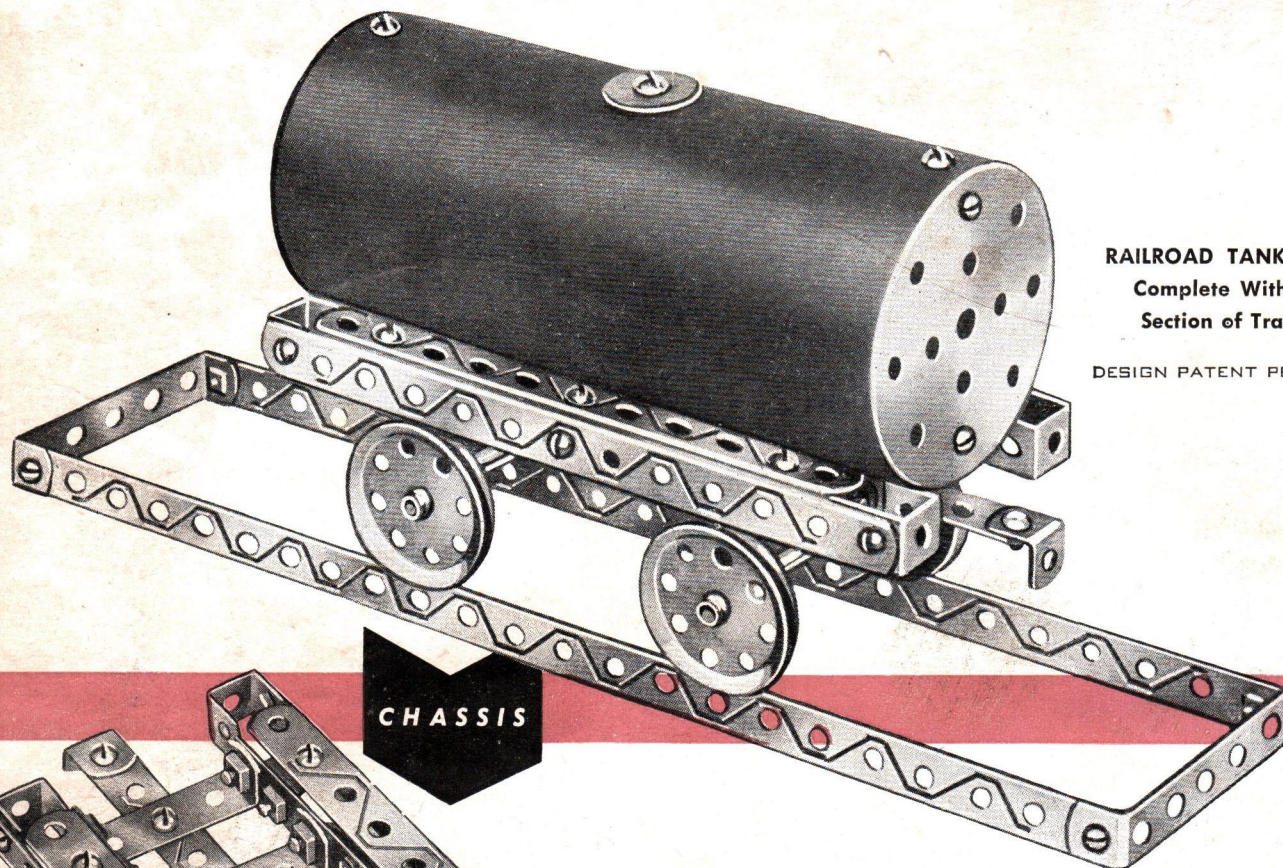
UNDERCARRIAGE



This model 6-wheel locomotive illustrates the wonderful possibilities your Construct-O-Craft has in store for you. The complete model takes only 92 major parts. A great start for a model railroad! Your model builder friends will sit up and take notice!

**THE BOXAR FLYER
STEAM LOCOMOTIVE**

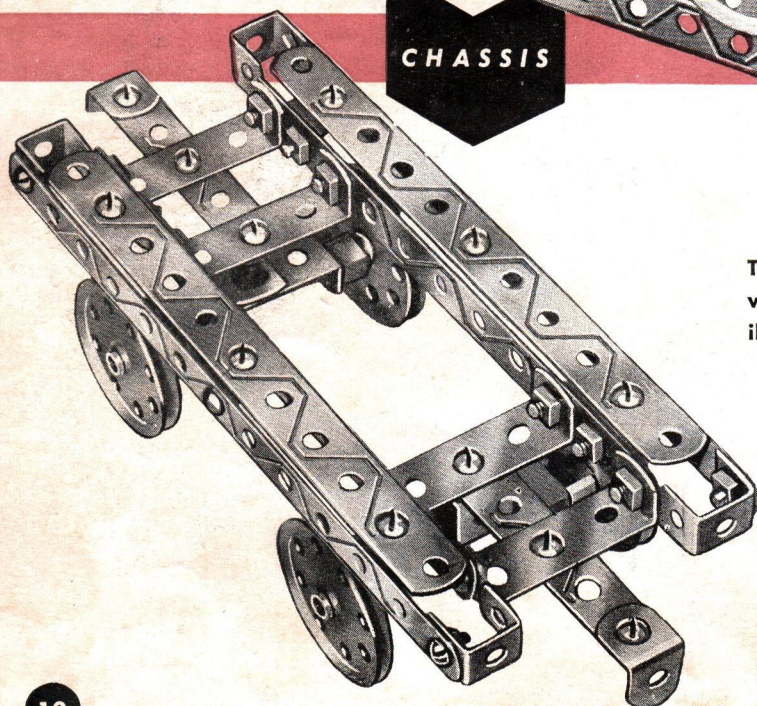
DESIGN PATENT PENDING



RAILROAD TANK CAR
Complete With A
Section of Track

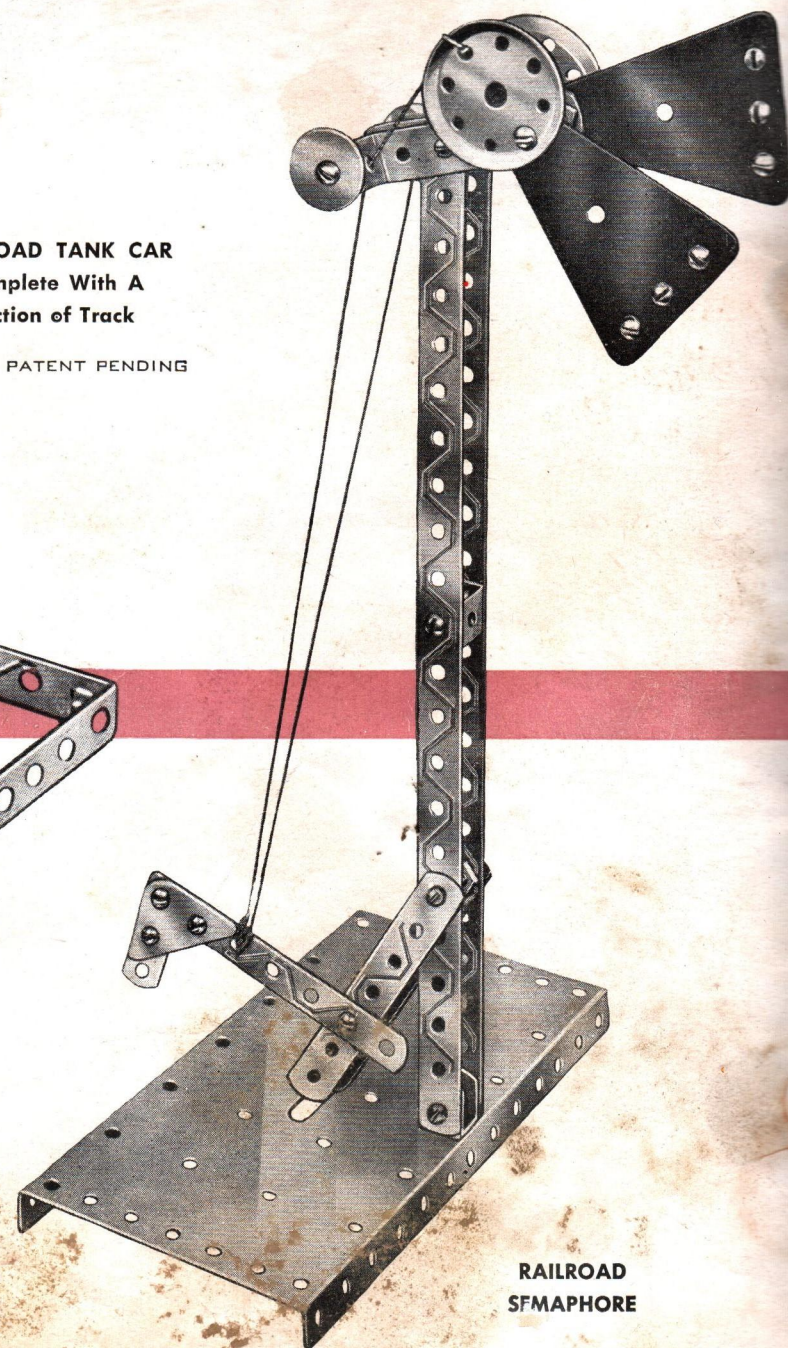
DESIGN PATENT PENDING

CHASSIS

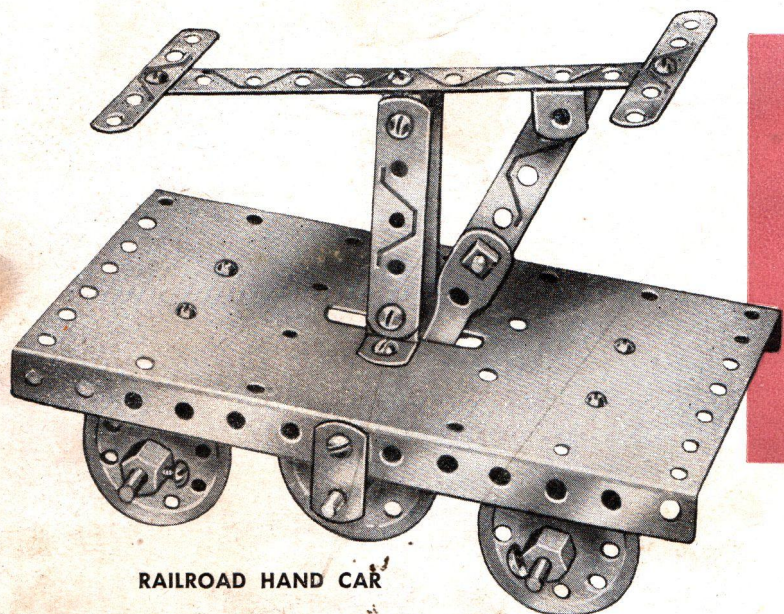


Tank is constructed in exactly the same way as the steam locomotive boiler illustrated on pages 8 and 9.

By laying a piece of heavy card board, 2½" X 6", on top of the tank car chassis you can also add a flat car to your model railroad. In fact, a caboose, freight car, or any type of railroad car can be made with this same chassis.



**RAILROAD
SEMAPHORE**

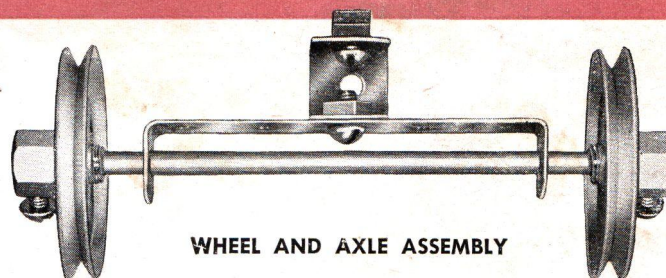


RAILROAD HAND CAR



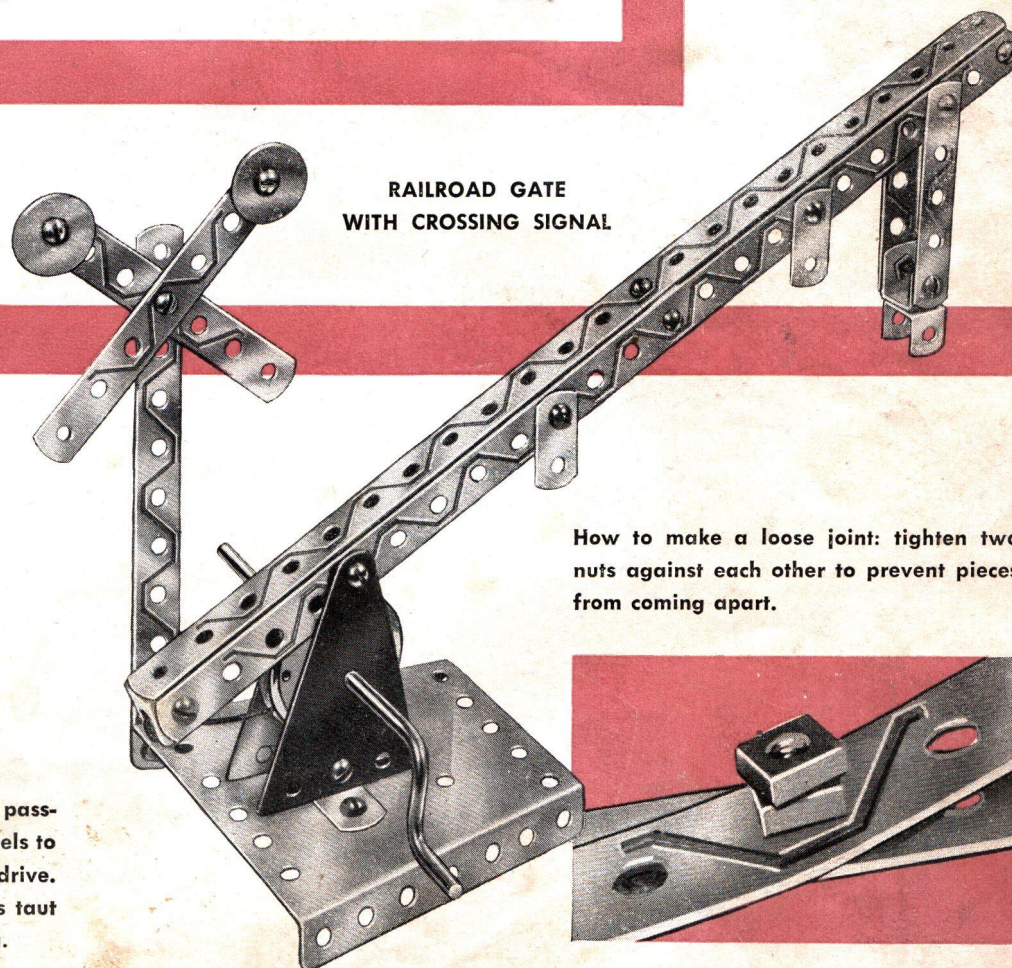
BOTTOM

See how the cord is passed around the wheels to operate Hand Car drive. Be sure the cord is taut to prevent slipping.



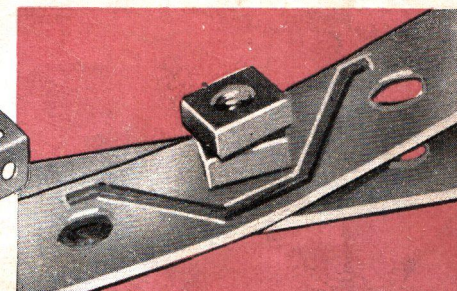
WHEEL AND AXLE ASSEMBLY

This same front-end construction can be used as a swivel assembly on trucks, wagons, cars, trailers, wagons, cars, etc.



RAILROAD GATE WITH CROSSING SIGNAL

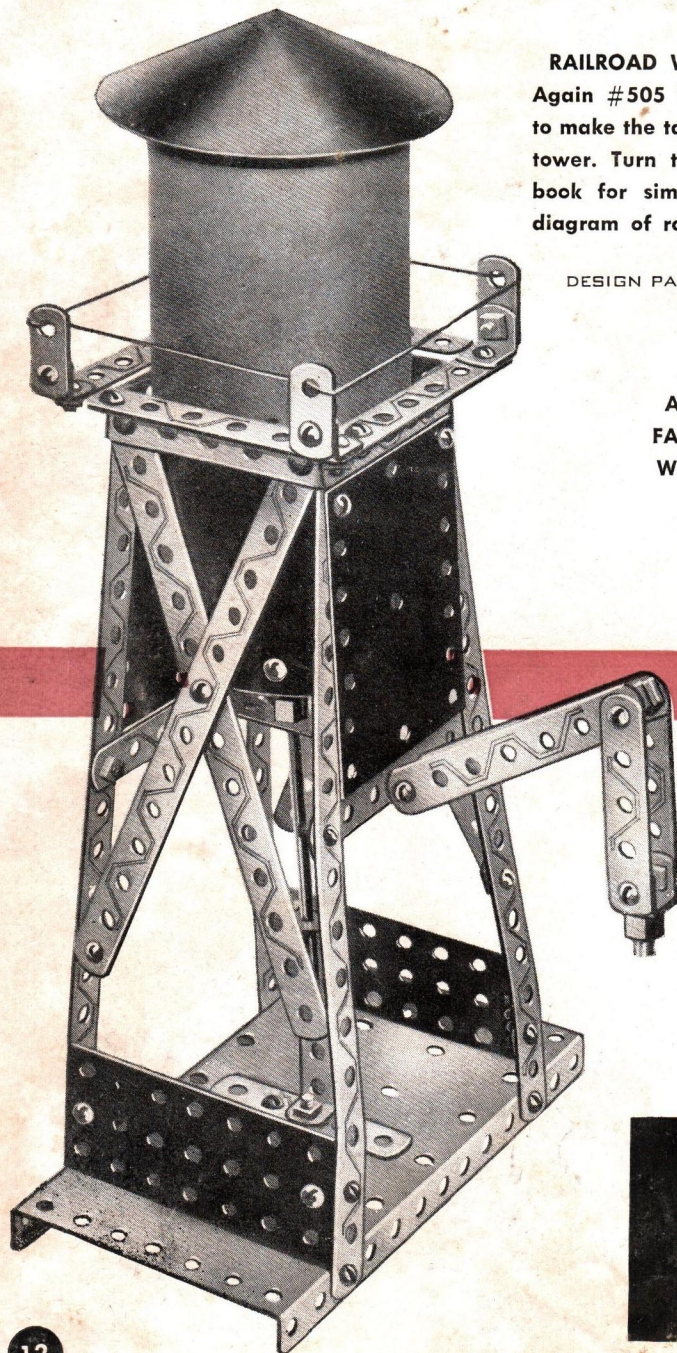
How to make a loose joint: tighten two nuts against each other to prevent pieces from coming apart.



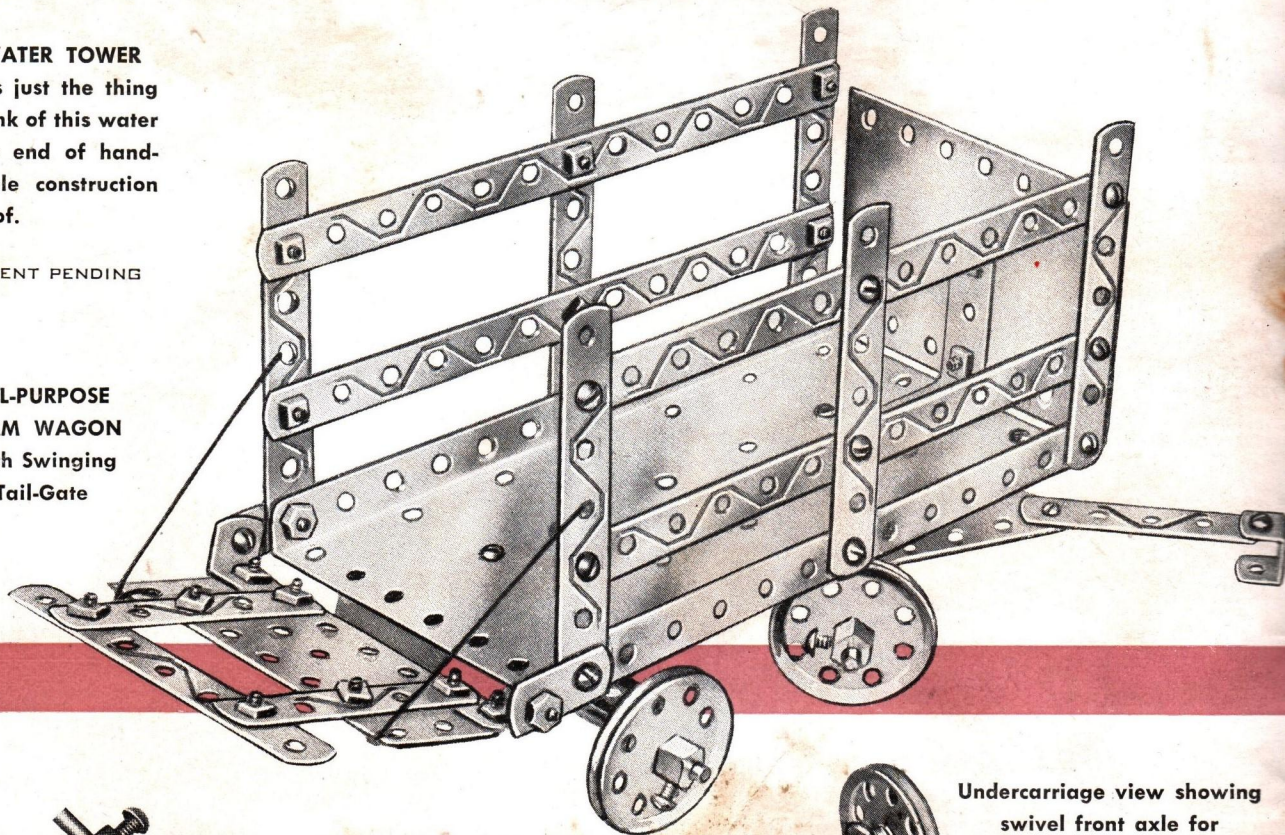
RAILROAD WATER TOWER

Again #505 is just the thing to make the tank of this water tower. Turn to end of hand-book for simple construction diagram of roof.

DESIGN PATENT PENDING

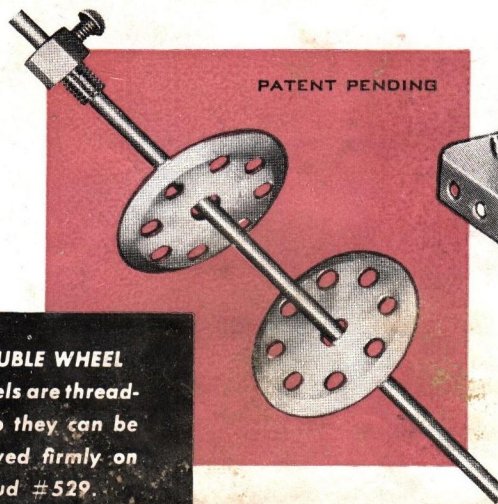


**ALL-PURPOSE
FARM WAGON**
With Swinging
Tail-Gate

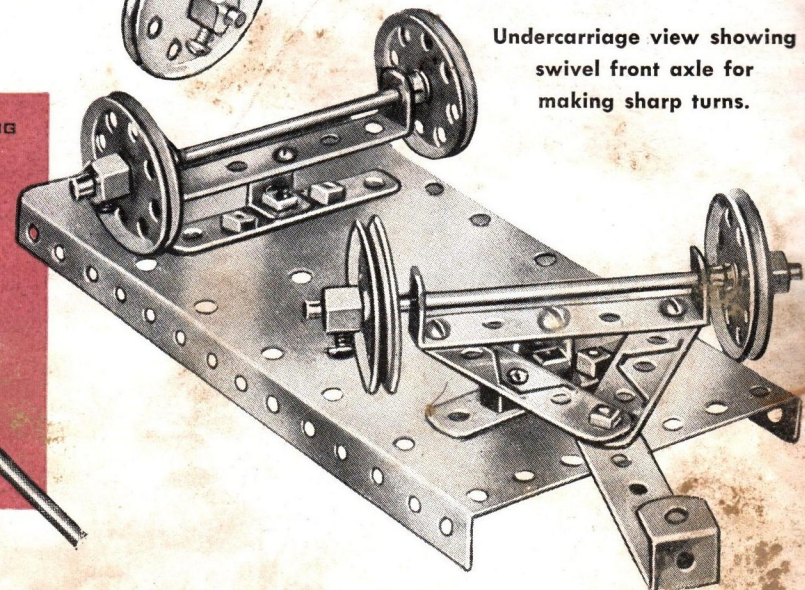


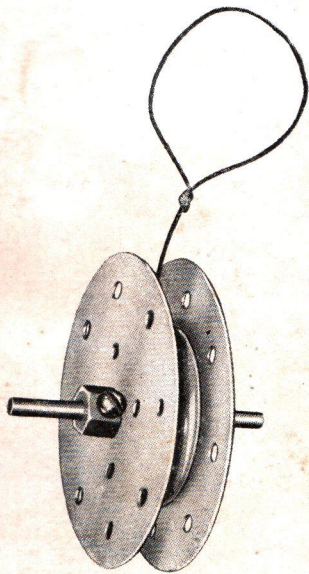
PATENT PENDING

DOUBLE WHEEL
Wheels are thread-
ed so they can be
screwed firmly on
to stud #529.

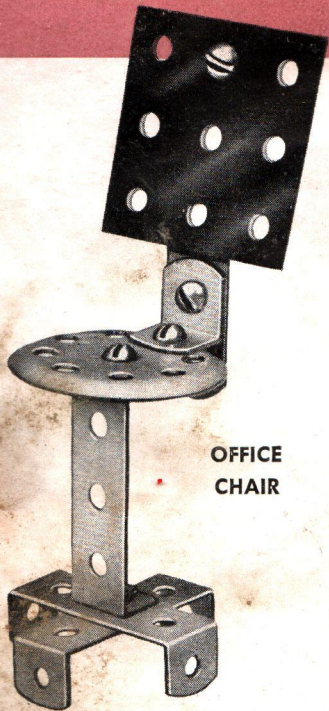


Undercarriage view showing
swivel front axle for
making sharp turns.

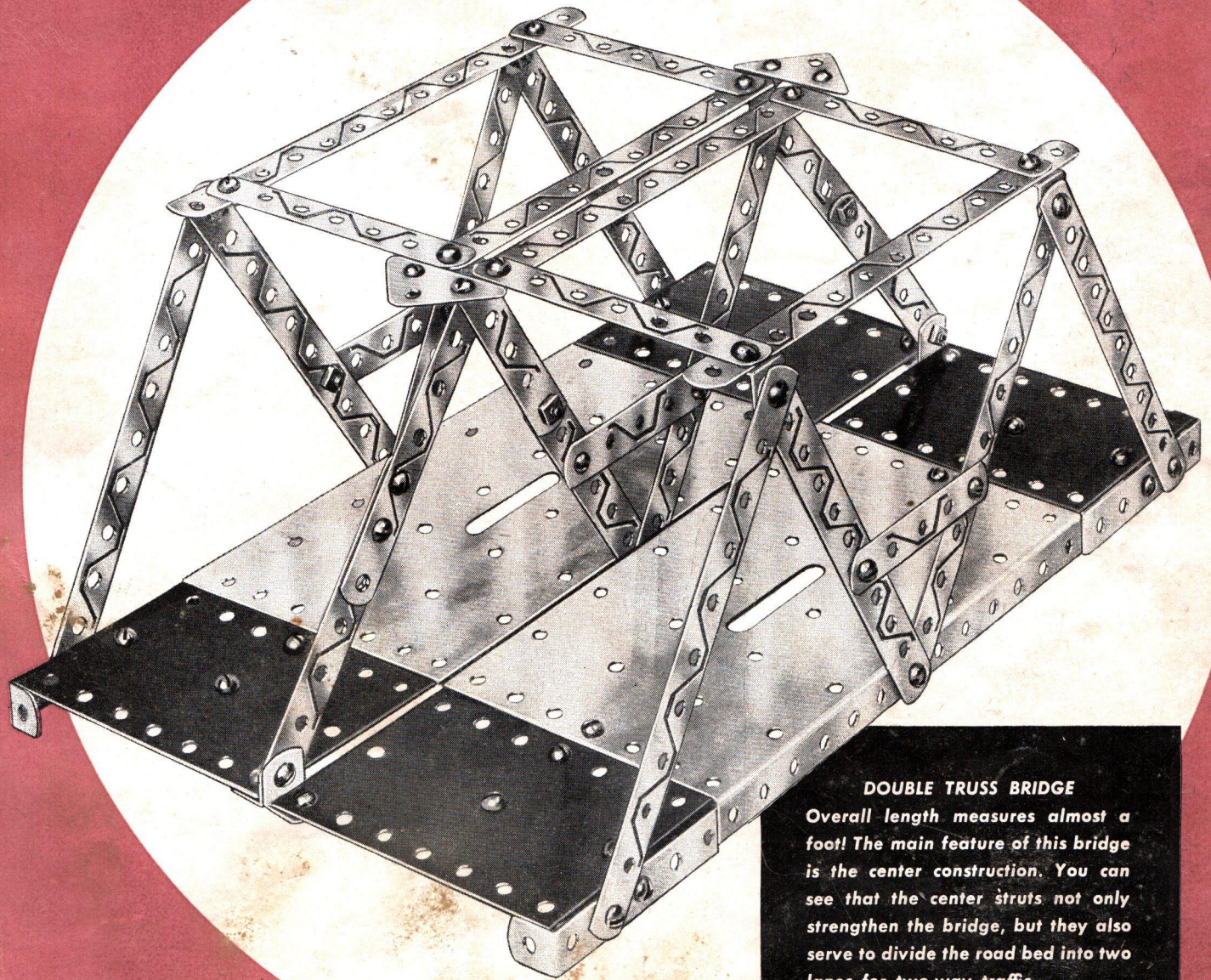




"CONSTRUCT-O-YO"



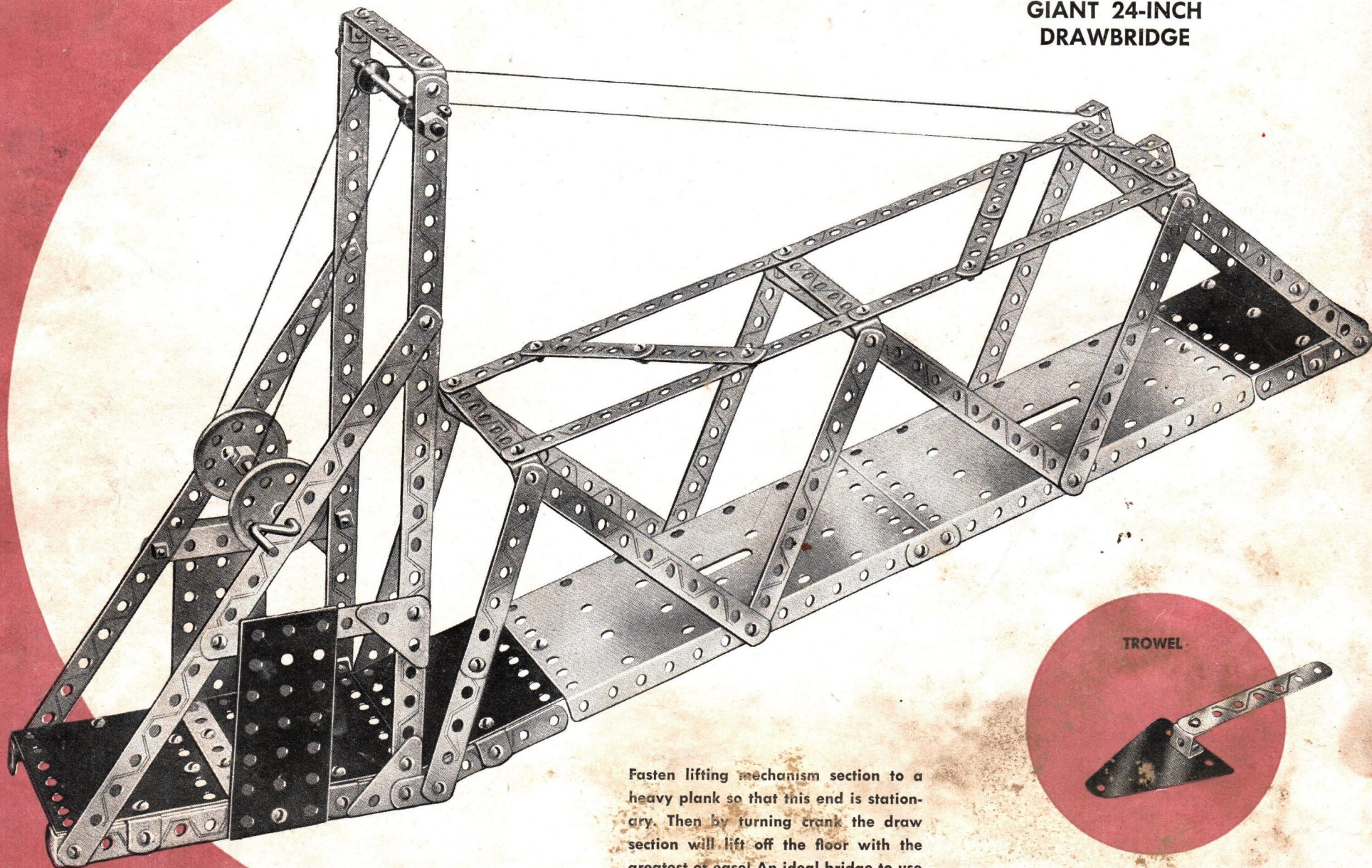
OFFICE
CHAIR



DOUBLE TRUSS BRIDGE

Overall length measures almost a foot! The main feature of this bridge is the center construction. You can see that the center struts not only strengthen the bridge, but they also serve to divide the road bed into two lanes for two-way traffic.

GIANT 24-INCH DRAWBRIDGE



Fasten lifting mechanism section to a heavy plank so that this end is stationary. Then by turning crank the draw section will lift off the floor with the greatest of ease! An ideal bridge to use over a canal or narrow river.

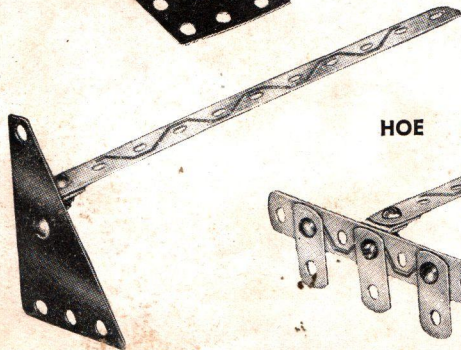
TROWEL



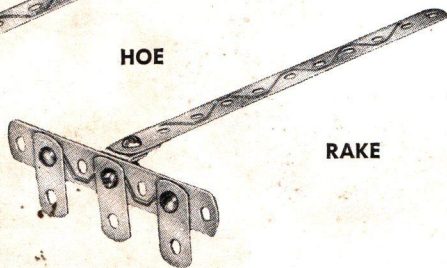
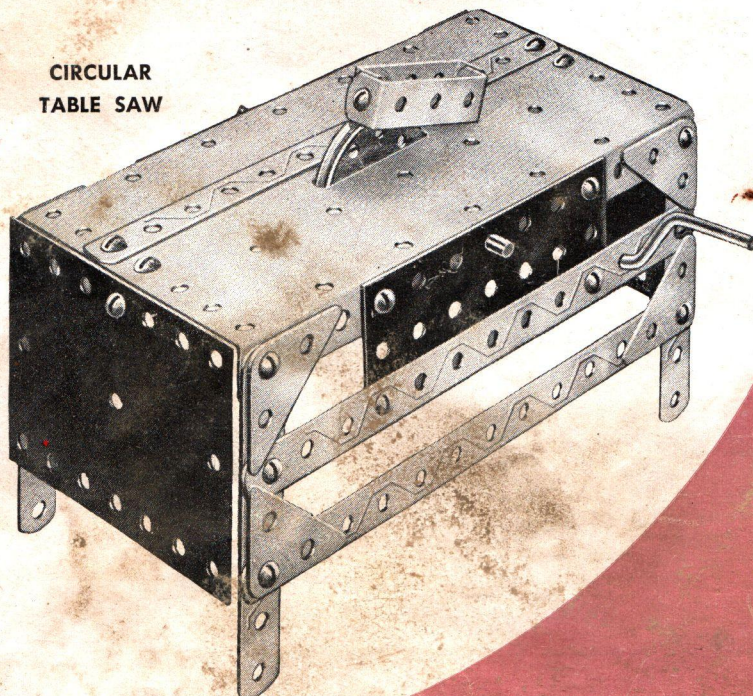
SNOWSHOVEL



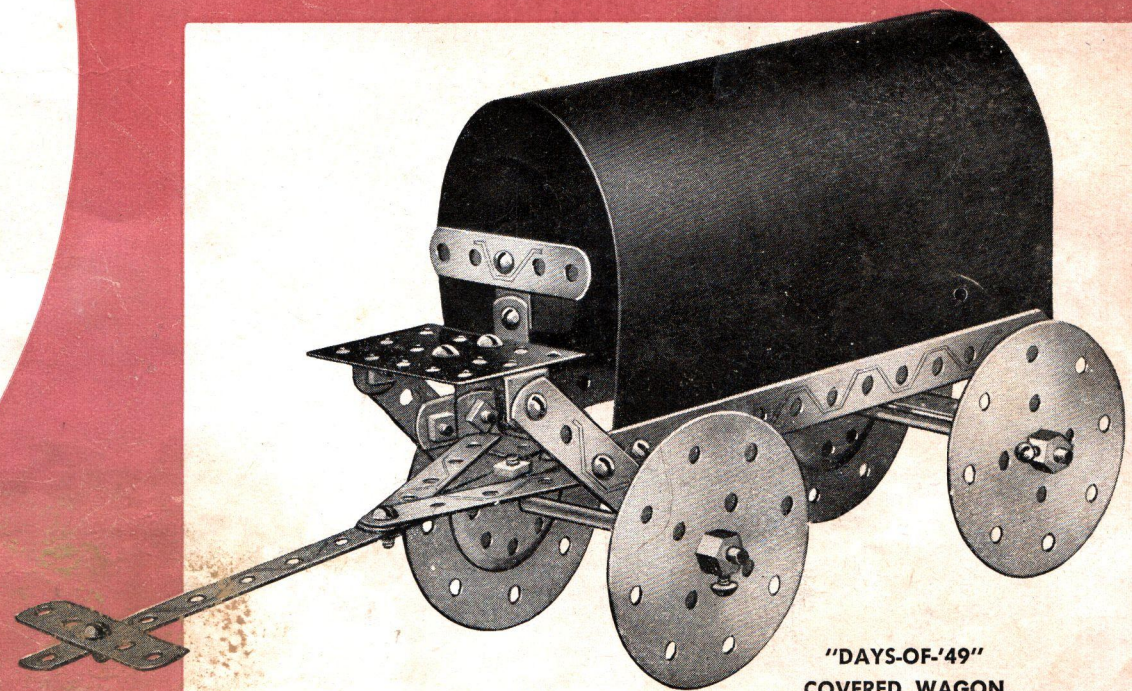
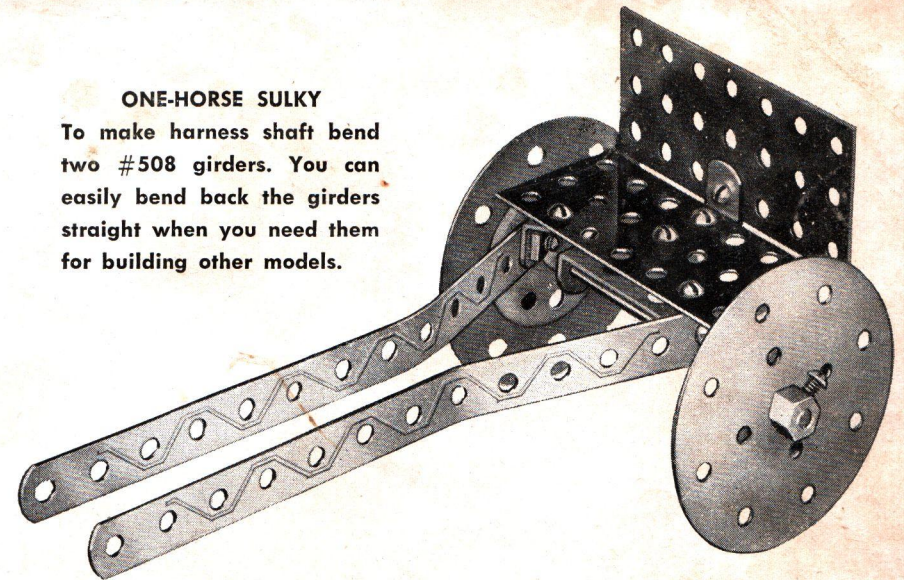
HOE

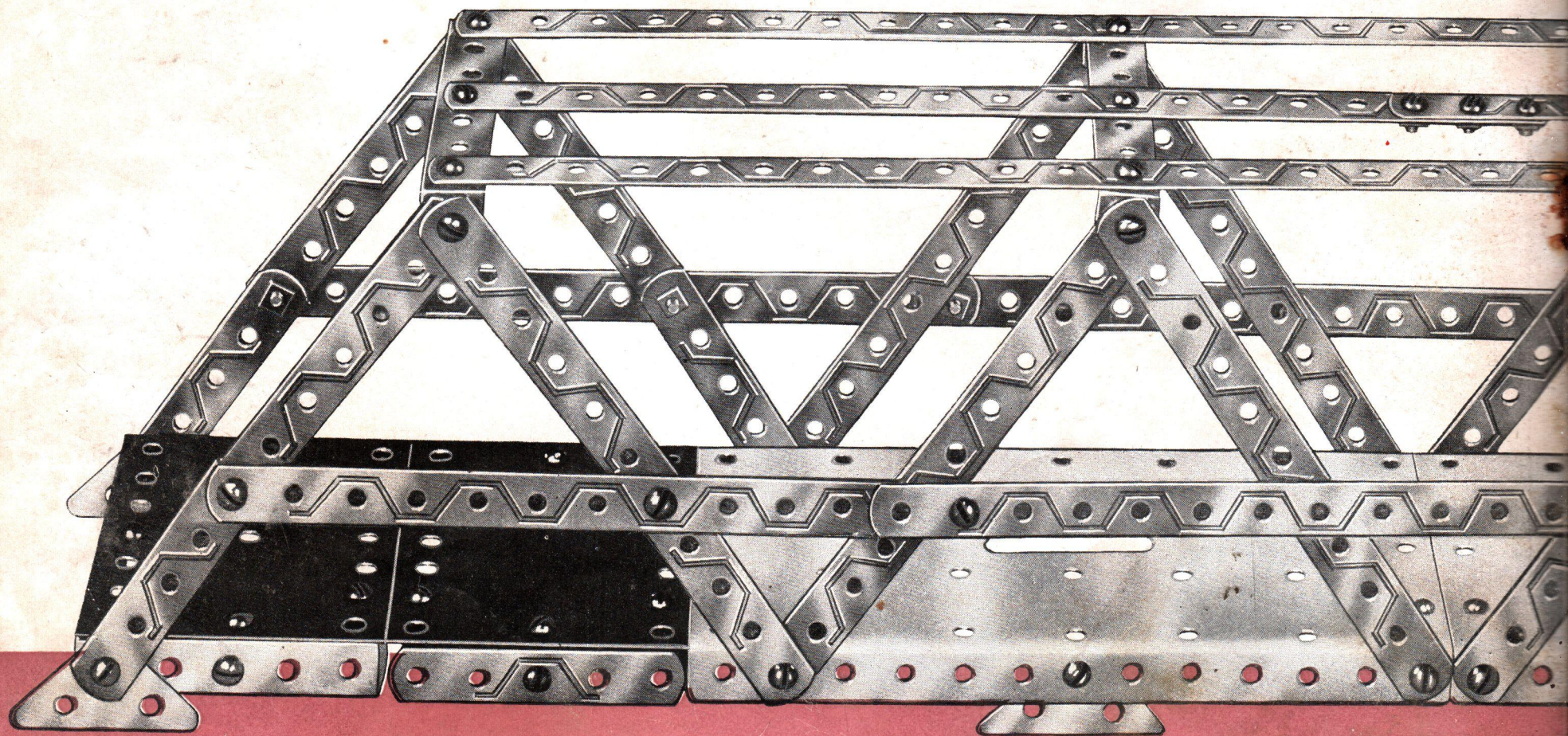


RAKE

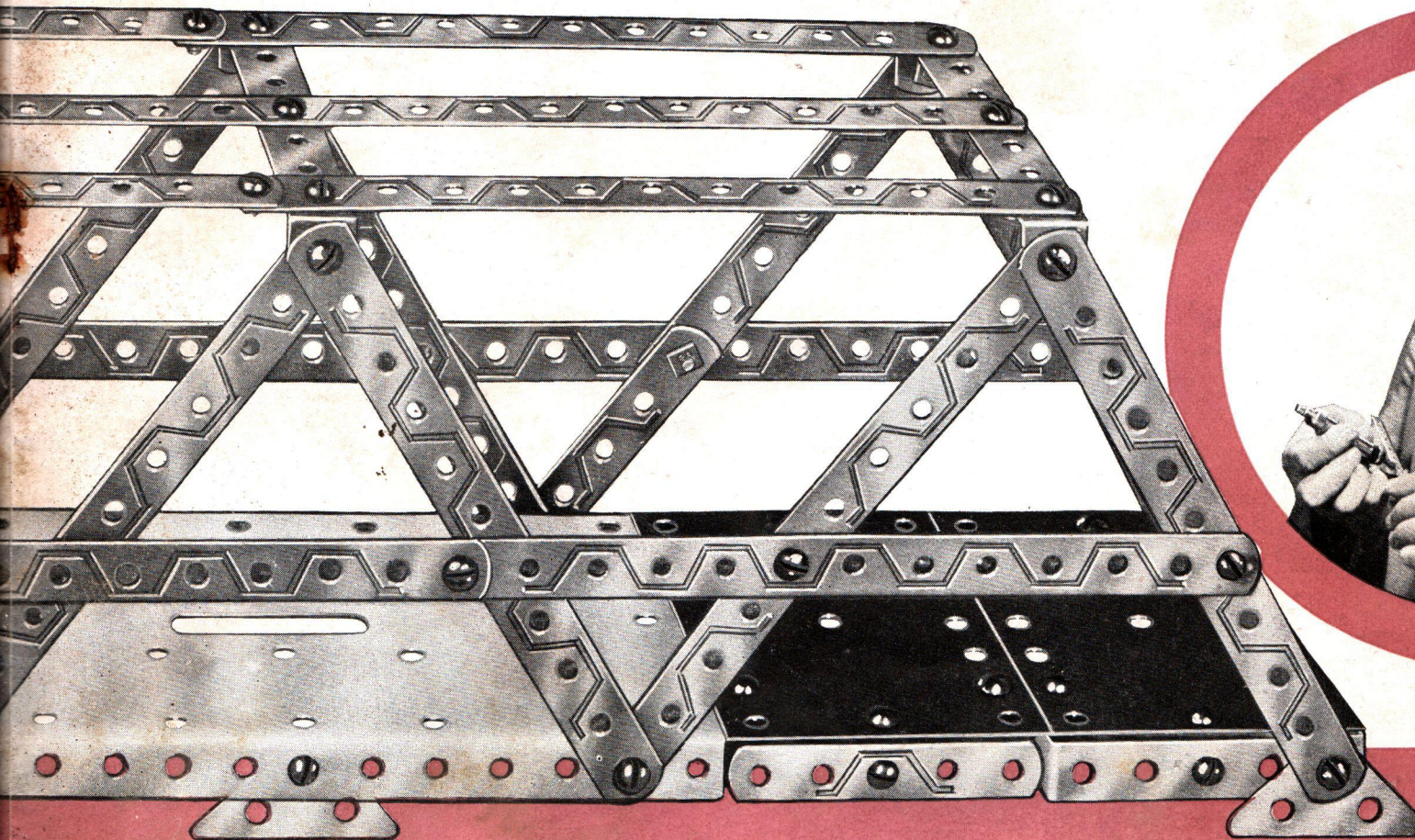
CIRCULAR
TABLE SAW**ONE-HORSE SULKY**

To make harness shaft bend two #508 girders. You can easily bend back the girders straight when you need them for building other models.

**"DAYS-OF-'49"**
COVERED WAGON



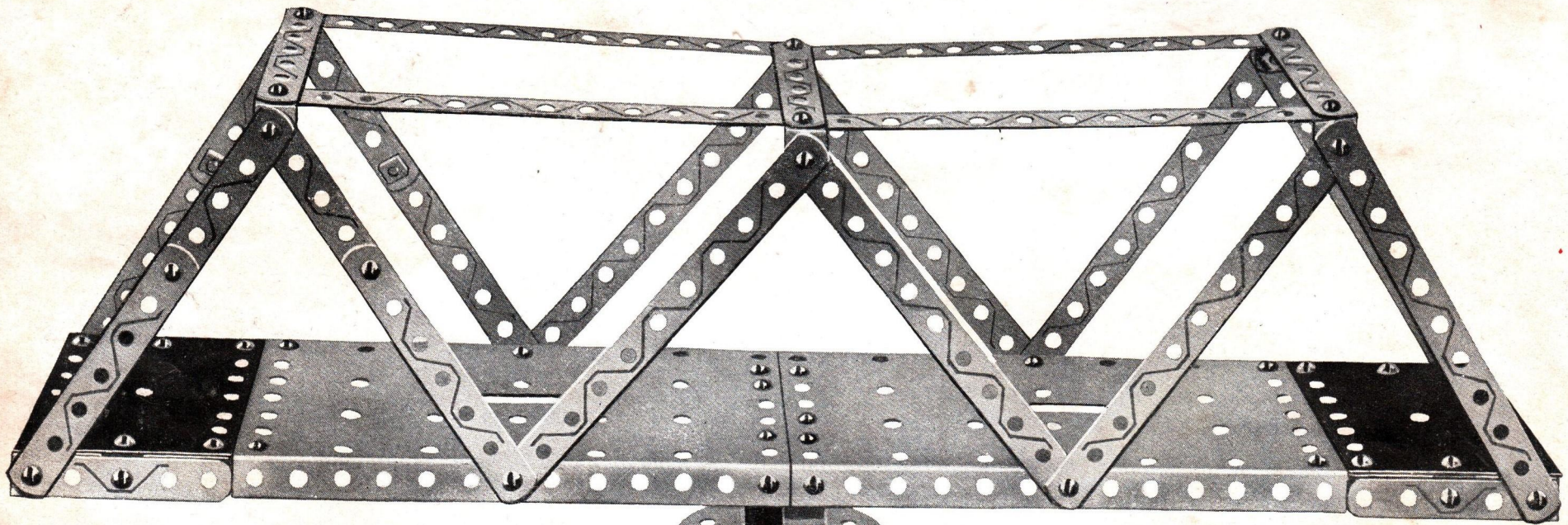
GIANT TRUSS BRIDGE



Some bridge, isn't it? When assembled it measures 24 inches long! One of the largest bridge models in the handbook! Sturdy, too! Yet with just 94 major parts you can duplicate it in short order. There are many other types of bridges you can build from your Construct-O-Craft. A good dictionary or an encyclopedia usually illustrates them in detail so that you can easily copy the type you want. Should you originate a model not shown in the handbook, send a picture of it to our factory. We are very interested in seeing your original designs.

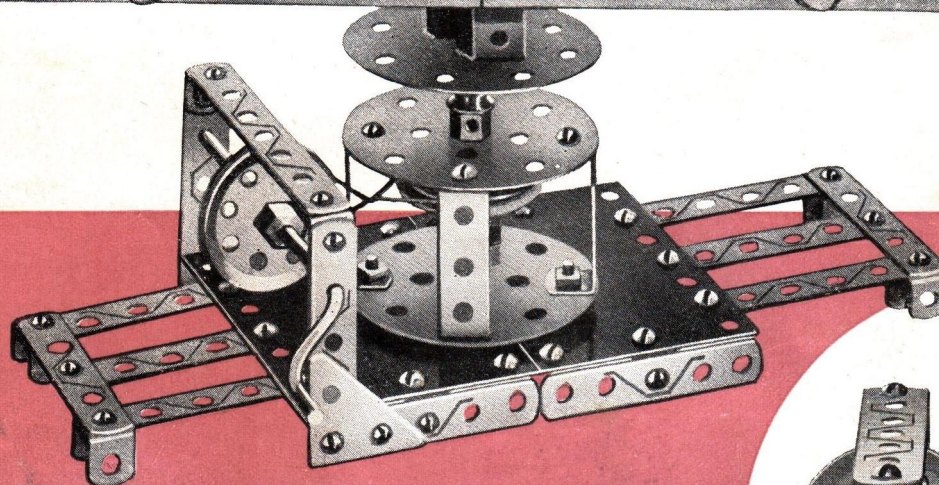


There's no guessing in making Construct-O-Craft girders. Expensive precision dies are used to stamp out each girder. Joe Hosso, the "Boss", sees to it every Construct-O-Craft set meets with his high standards. No matter what size Construct-O-Craft set you have, the materials, the quality are the same. That's why all parts are **INTERCHANGEABLE!** You can constantly add to your set at little cost and be sure every part matches perfectly. This means you can make your Construct-O-Craft as big as you want it!

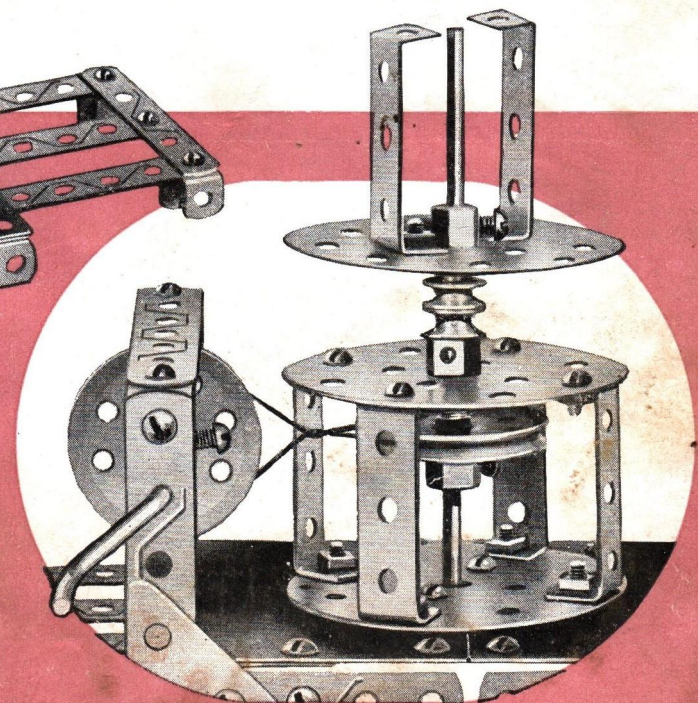


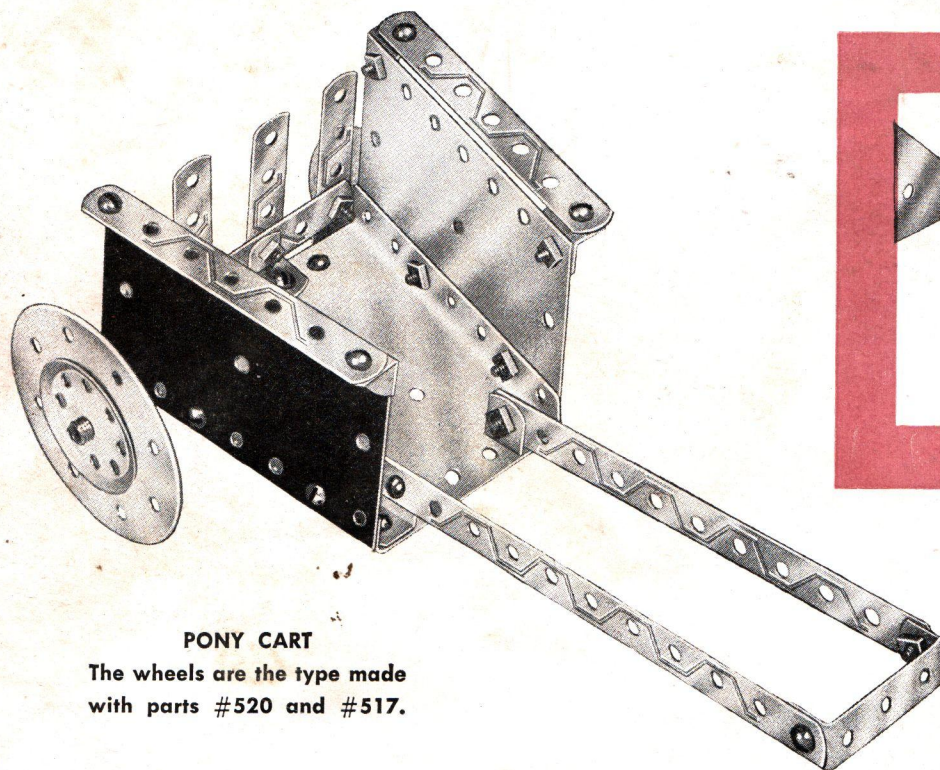
TURNTABLE TRUSS BRIDGE

The swivel base makes it possible to turn the bridge completely around. For smooth operation it's a good idea to steady the base by bolting it to a plank. Note especially how the bridge proper is attached to the two #514 brackets on the top swivel disc.



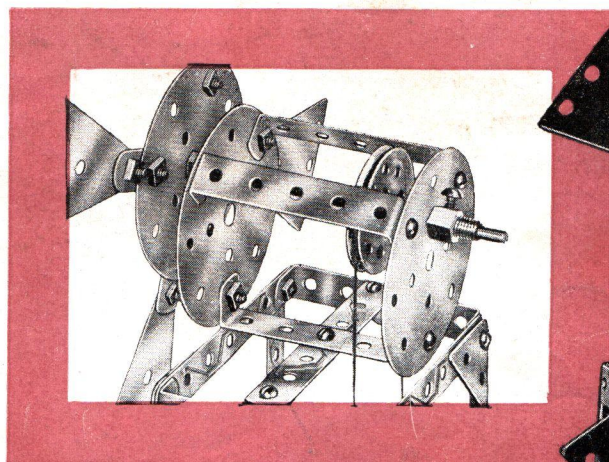
At first glance the swivel base might seem difficult to make. But if you study this construction view carefully, and pay particular attention to every detail, you won't have any trouble at all putting it together. For instance, see how the cord from the crank wheel to the horizontal pulley wheel is twisted. This simple trick keeps the cord taut so it does not slip in the grooves of the wheels. In this way the crank easily turns the bridge around. And here's another hint: assemble the swivel first, THEN the bridge.





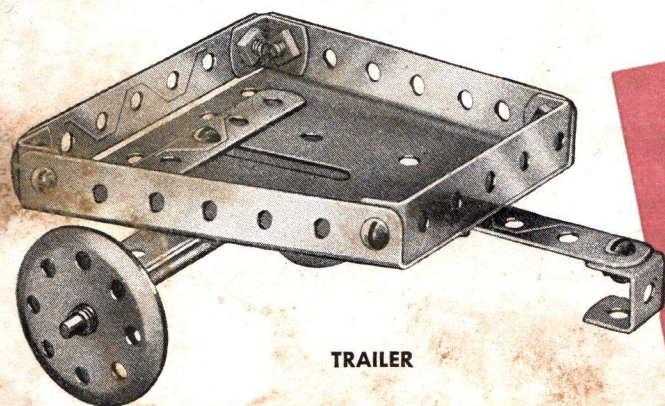
PONY CART

The wheels are the type made with parts #520 and #517.

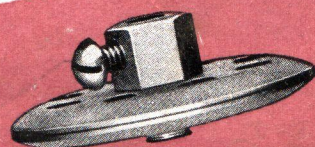


POWER WINDMILL

The axle in the drum of the windmill head is passed through the hole just above the large center hole. By the way, this model can be motorized.

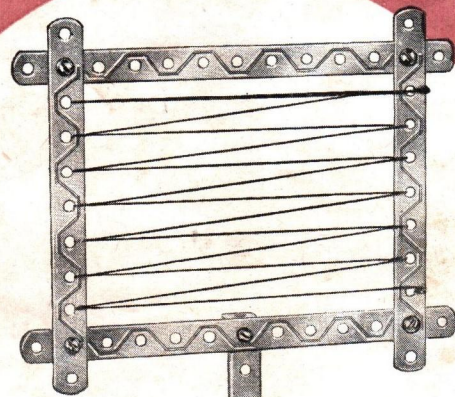


TRAILER

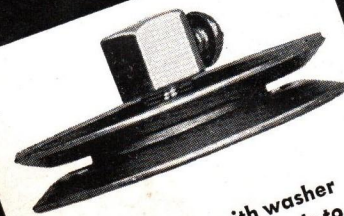
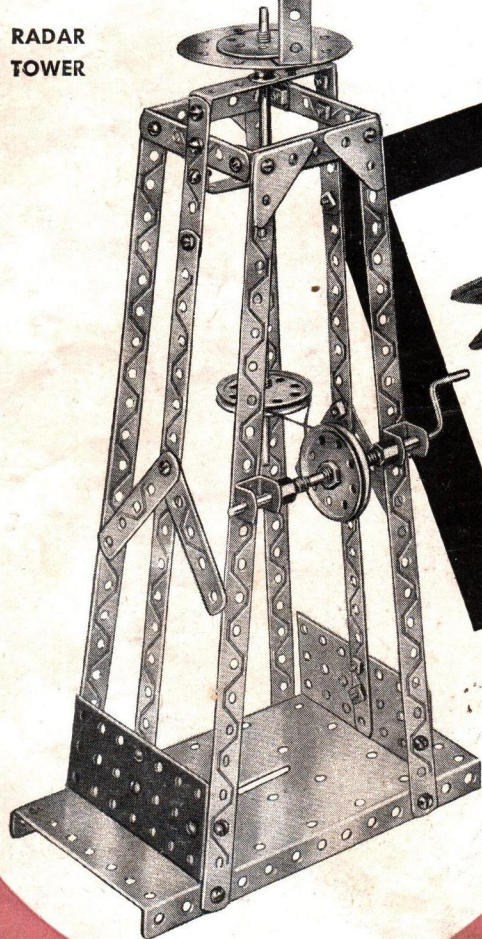


Sharp type wheel using #520 with brass stud #529.

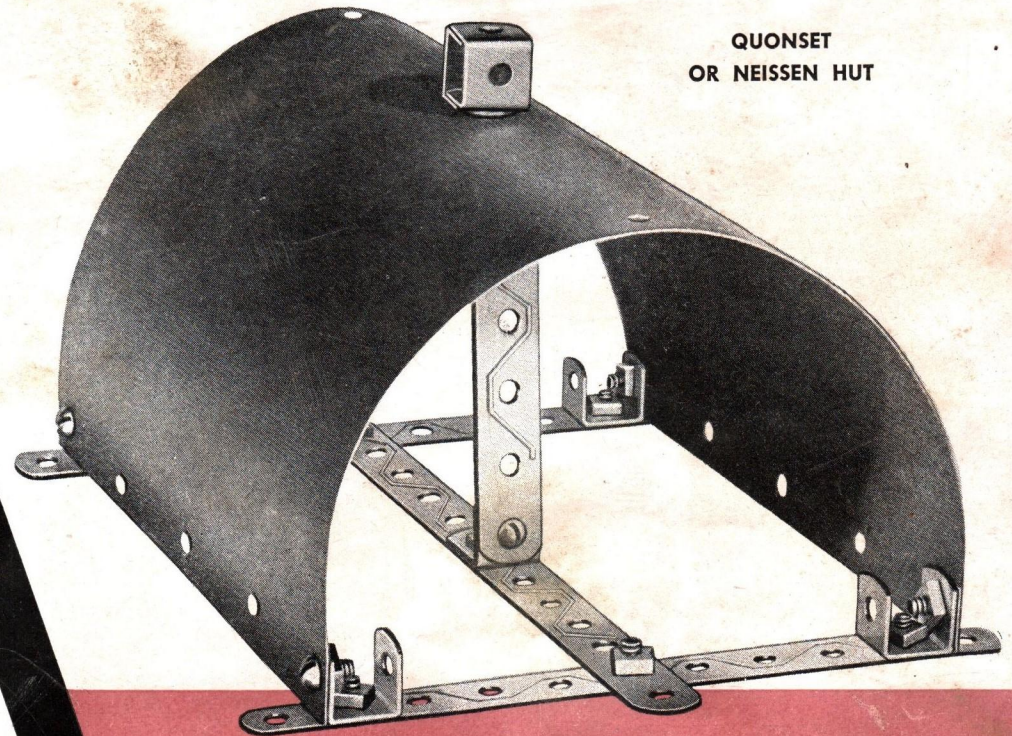




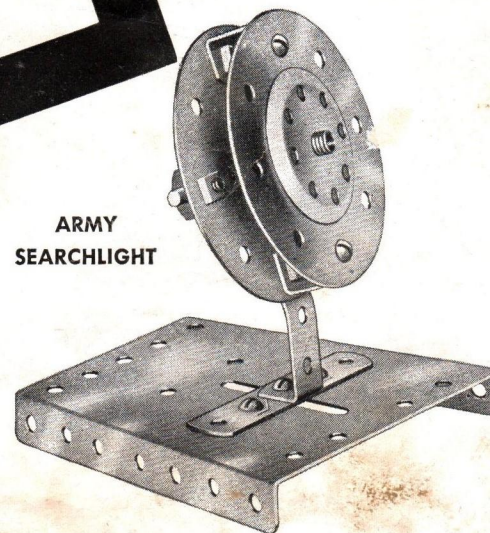
RADAR
TOWER



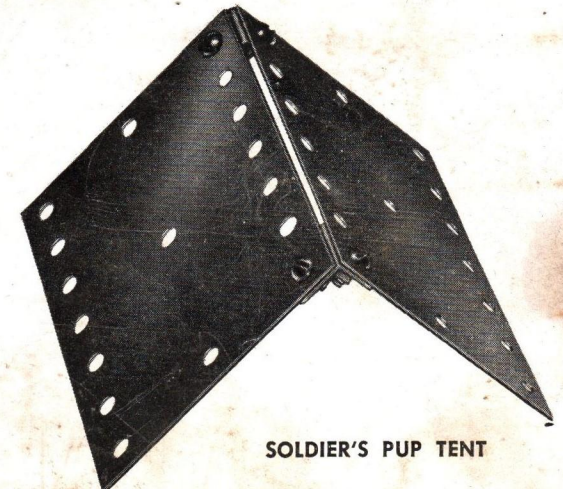
Pulley made with washer
in between the wheels to
allow for pulley cord.



QUONSET
OR NEISSEN HUT



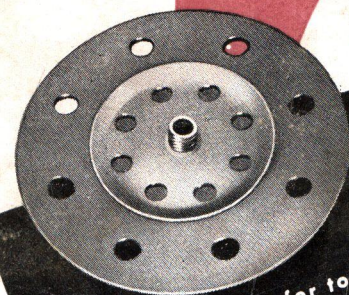
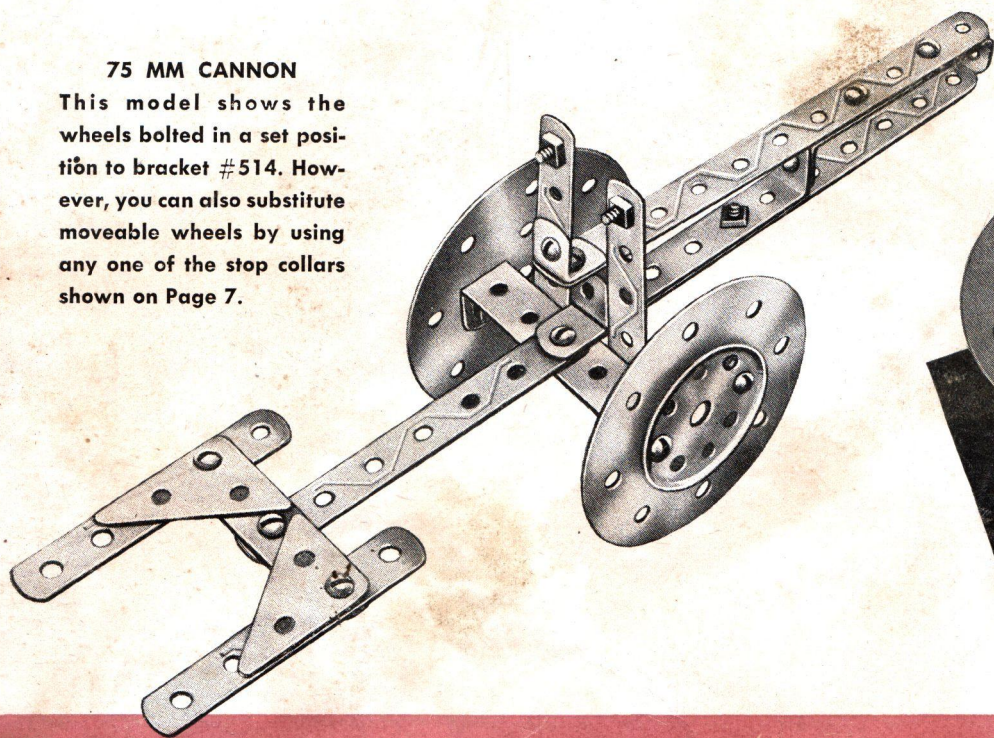
ARMY
SEARCHLIGHT



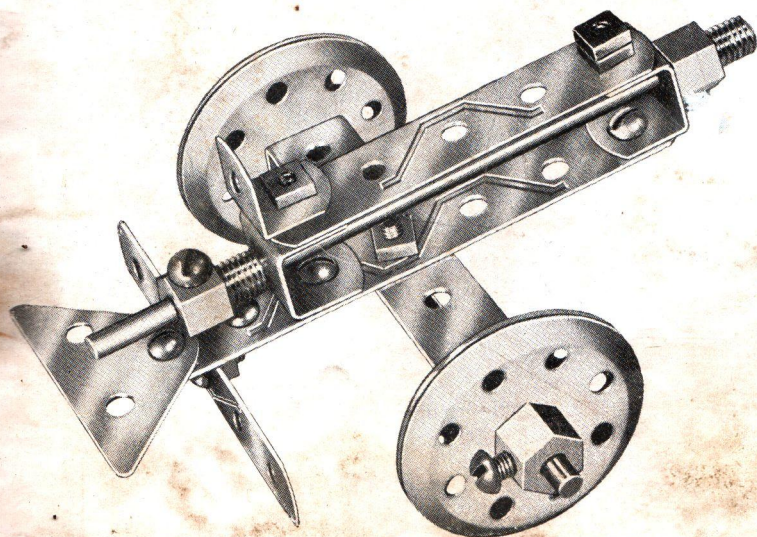
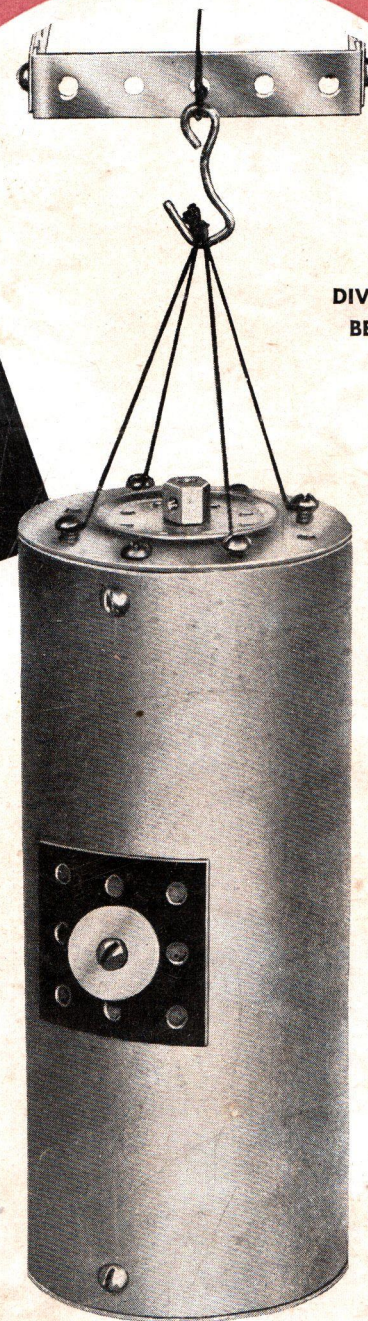
SOLDIER'S PUP TENT

75 MM CANNON

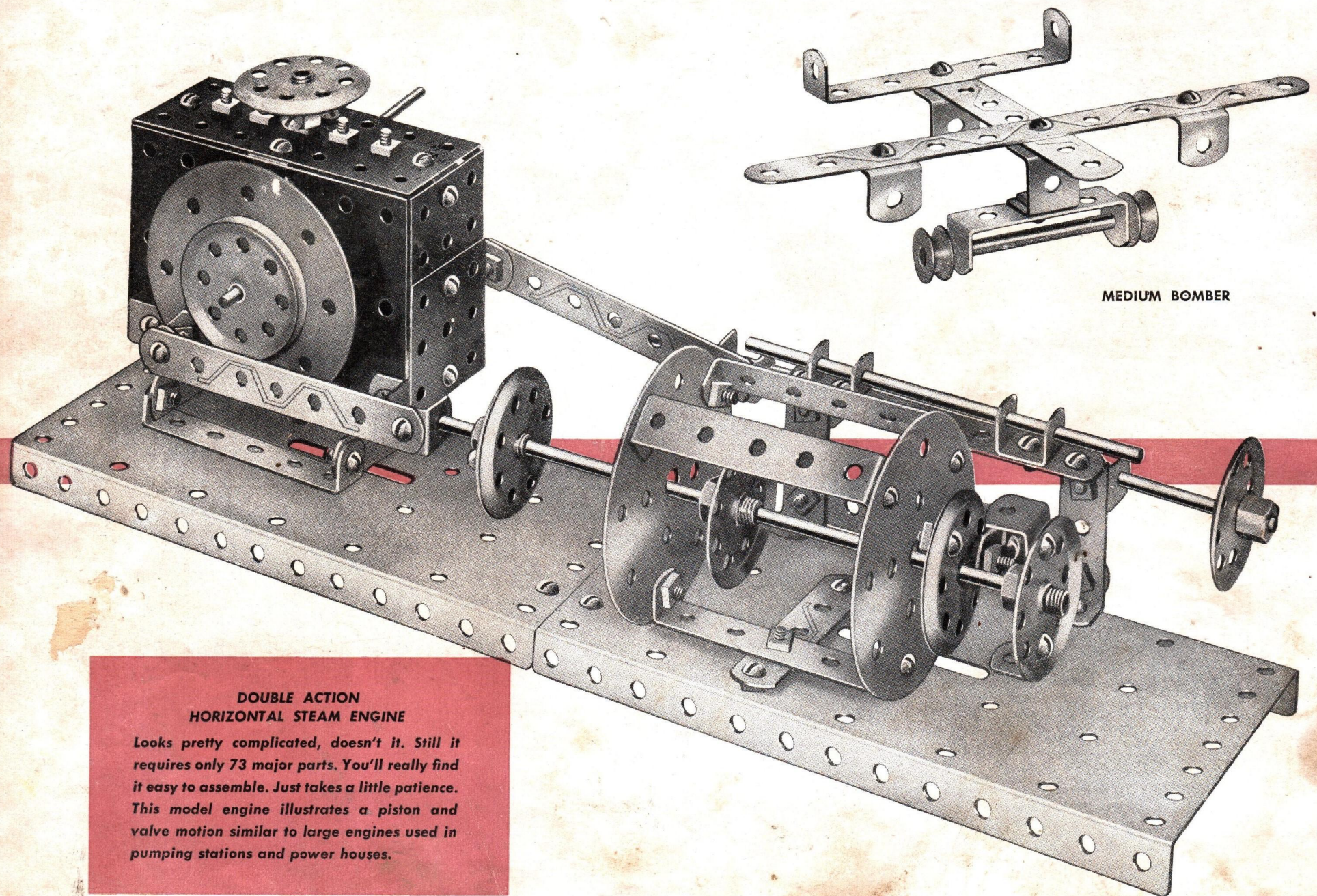
This model shows the wheels bolted in a set position to bracket #514. However, you can also substitute moveable wheels by using any one of the stop collars shown on Page 7.



Lid construction for top of diving bell . . . Can also be used as a wheel on other types of rolling vehicles.

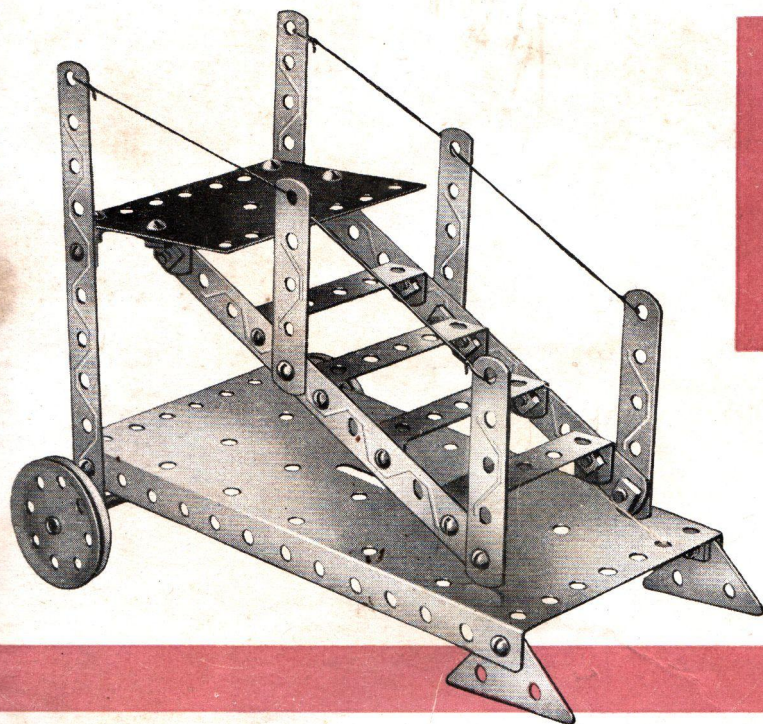
DIVING BELL**HOWITZER**

Here you see the sharp type wheels described on page 14. They are attached to axle passing through bracket #514. This bracket is bolted to gun barrel. Use your own inventive imagination and attach a firing shield to the bracket and gun barrel.

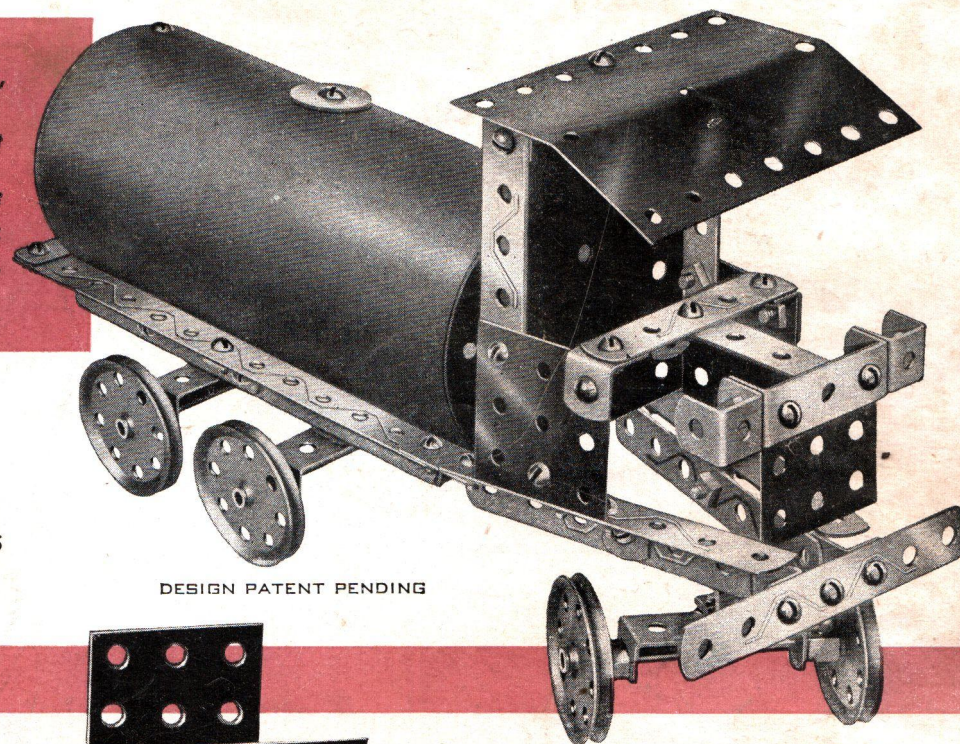


**DOUBLE ACTION
HORIZONTAL STEAM ENGINE**

Looks pretty complicated, doesn't it. Still it requires only 73 major parts. You'll really find it easy to assemble. Just takes a little patience. This model engine illustrates a piston and valve motion similar to large engines used in pumping stations and power houses.

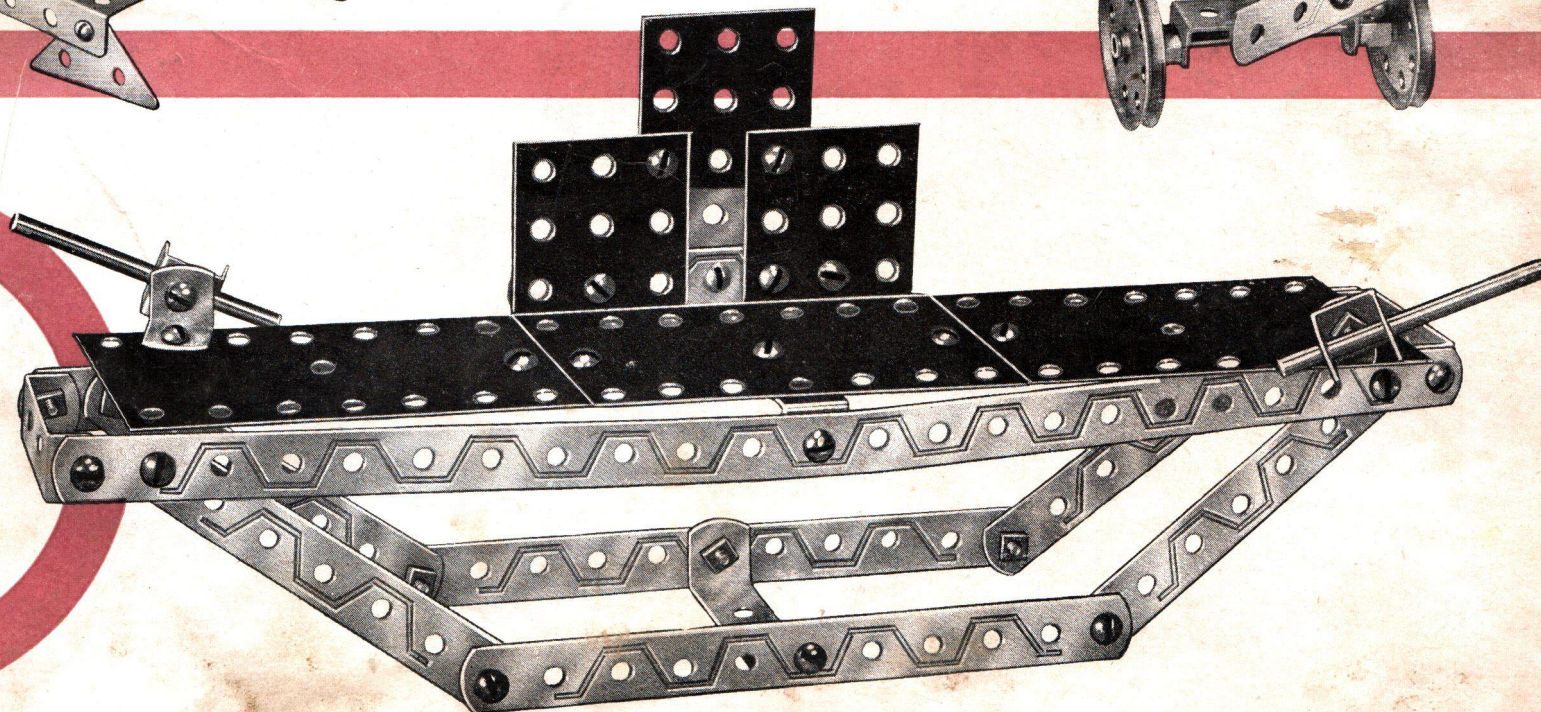


**MILK, GASOLINE,
OR OIL TRUCK**
With Swivel Front
Axle
Made with the
same type of tank
used on tank car.
(See Page 10.)



**AIRPLANE
LOADING STAIRS**

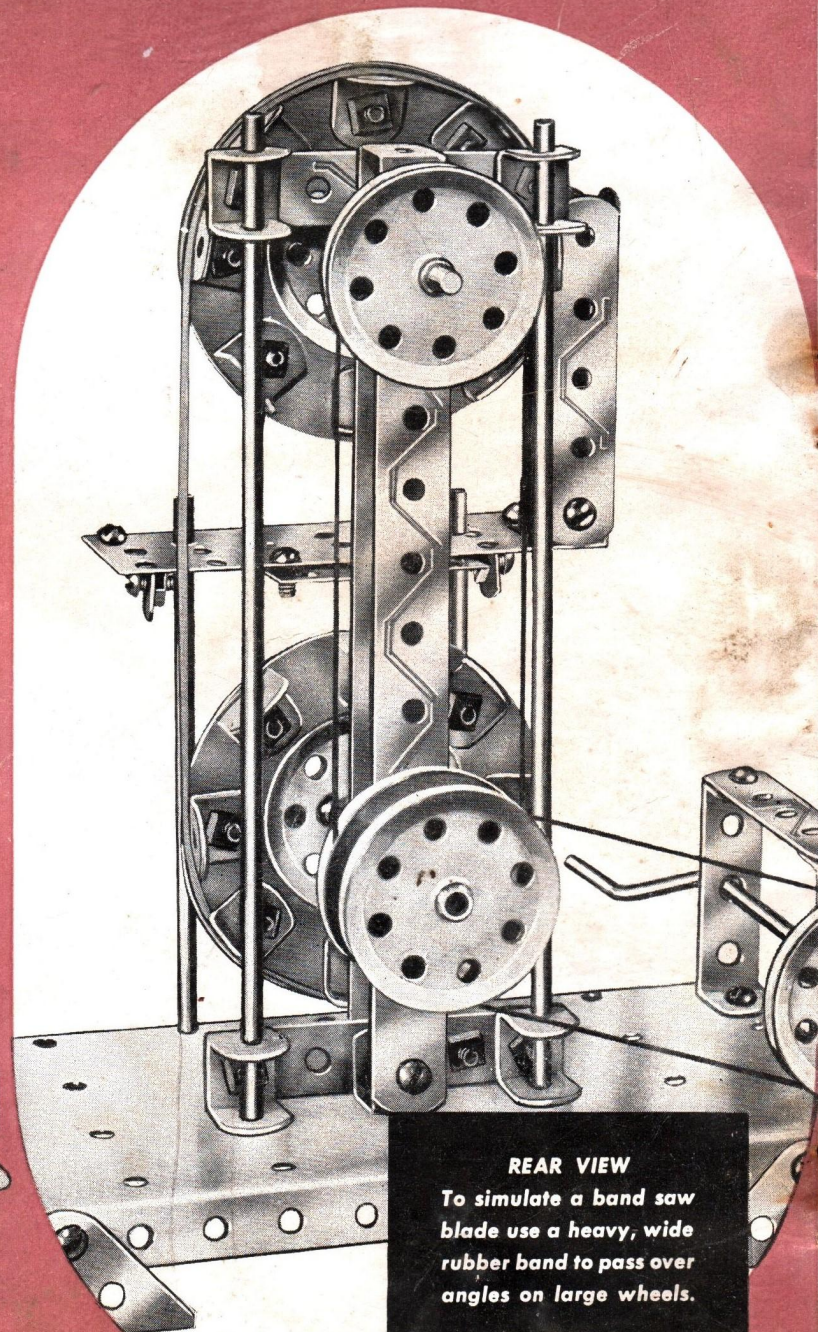
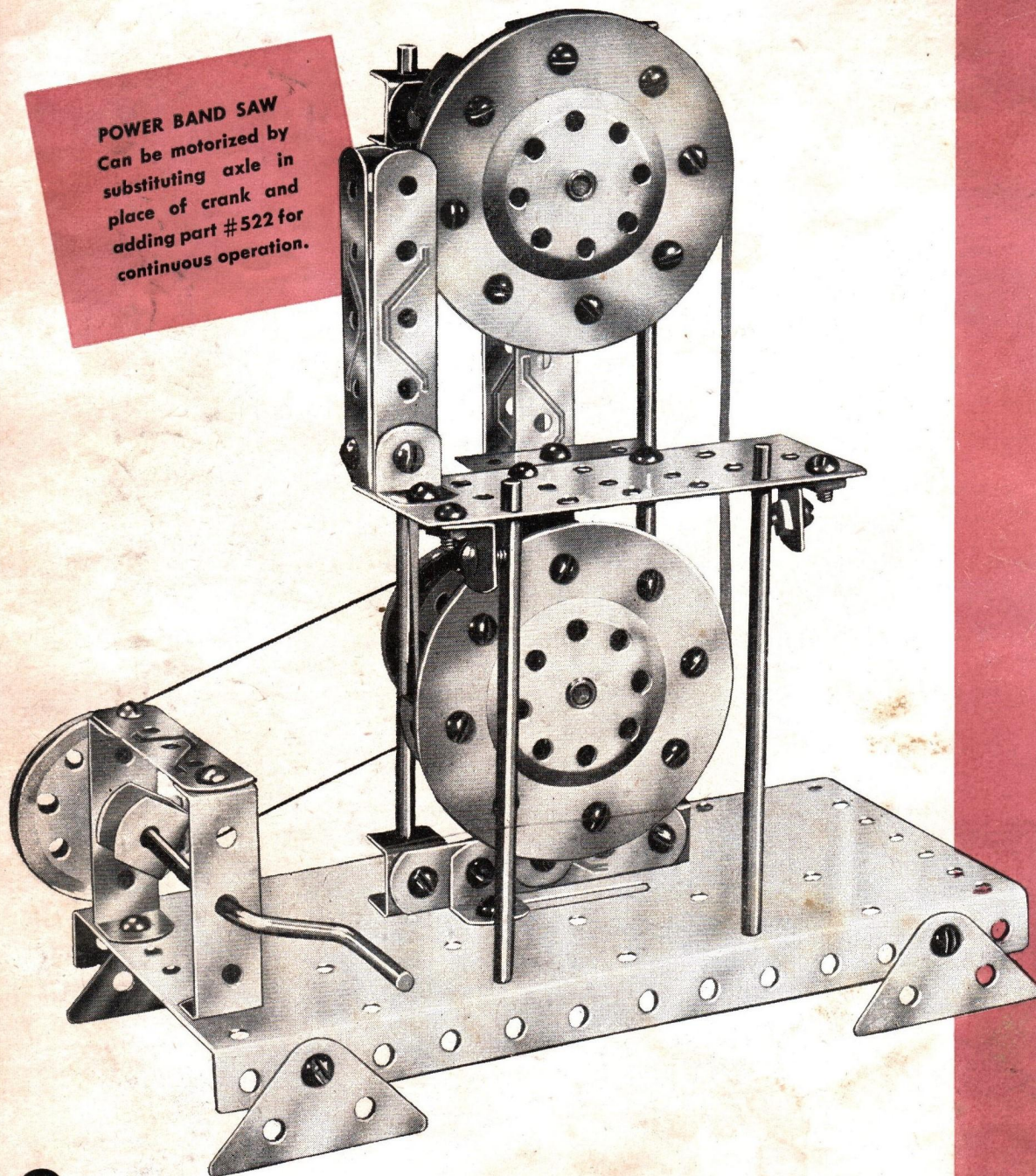
DESIGN PATENT PENDING



**AIRCRAFT
CARRIER**

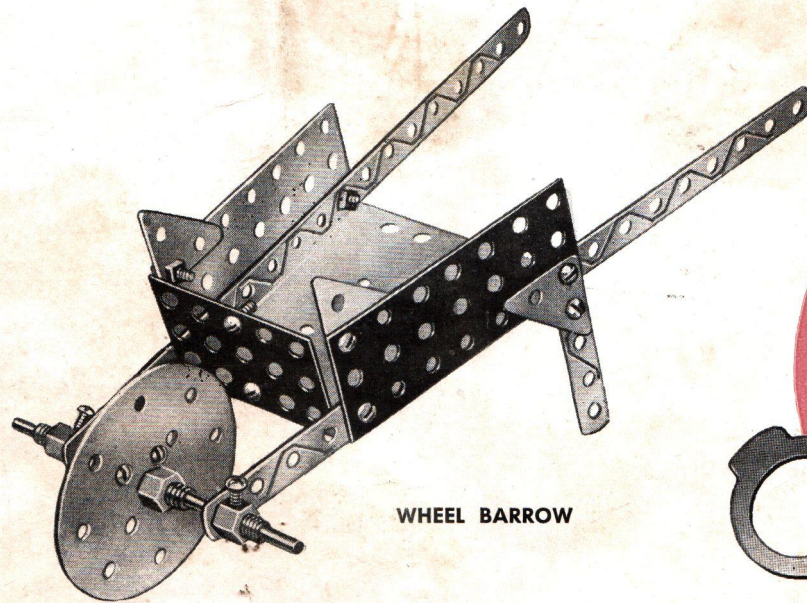
Make other kinds of
ships, too. For example,
by leaving off the super-
structure of this carrier
you can convert it into
a tanker or a freighter.

POWER BAND SAW
Can be motorized by
substituting axle in
place of crank and
adding part #522 for
continuous operation.



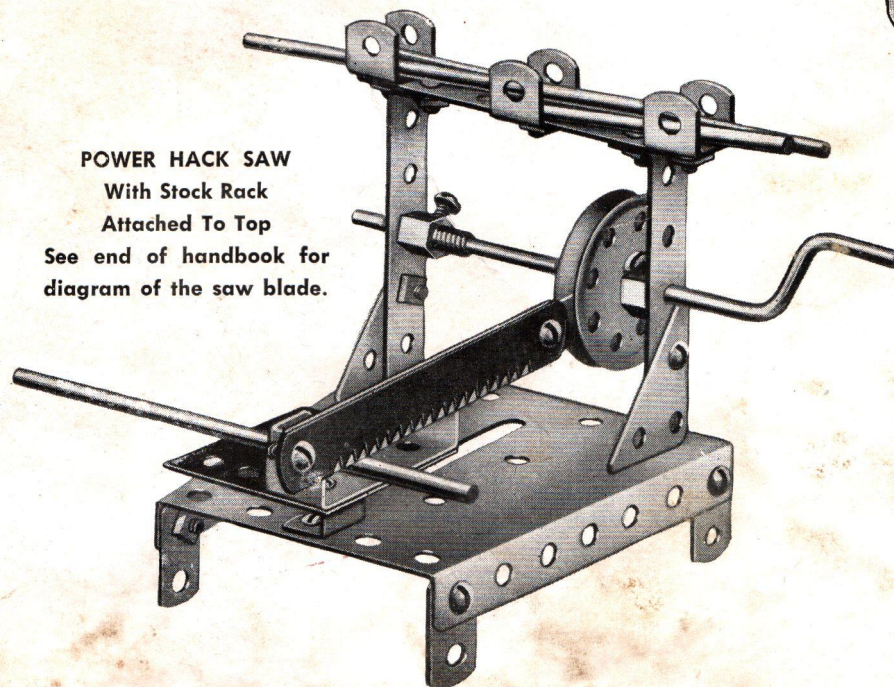
REAR VIEW

To simulate a band saw
blade use a heavy, wide
rubber band to pass over
angles on large wheels.



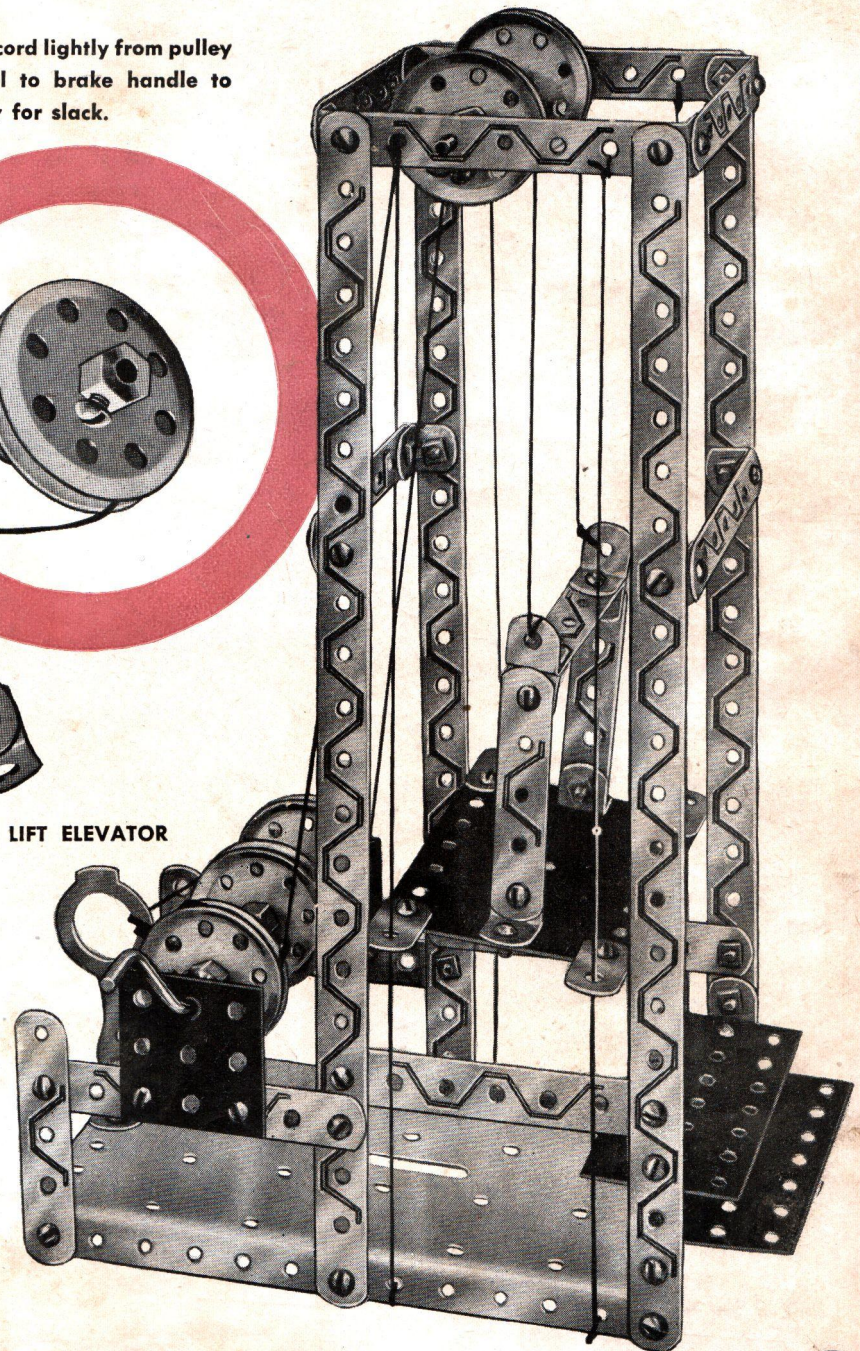
WHEEL BARROW

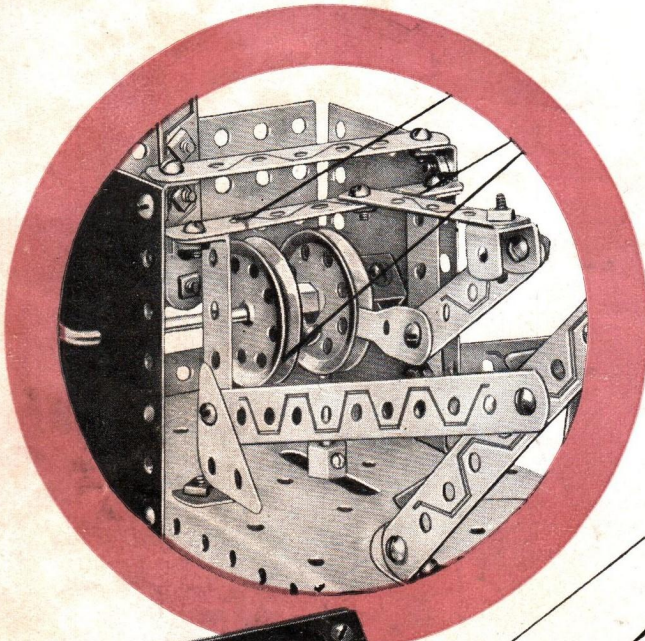
Pass cord lightly from pulley wheel to brake handle to allow for slack.



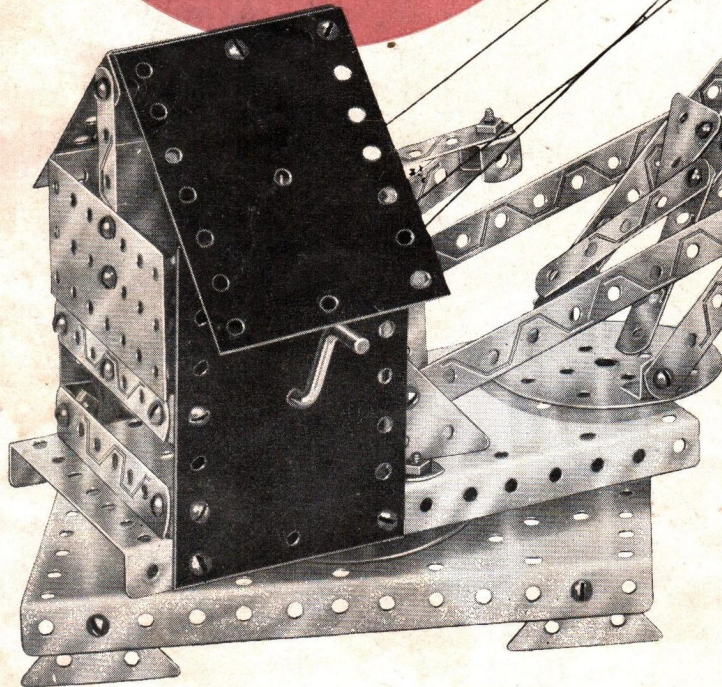
POWER HACK SAW
With Stock Rack
Attached To Top
See end of handbook for
diagram of the saw blade.

LIFT ELEVATOR



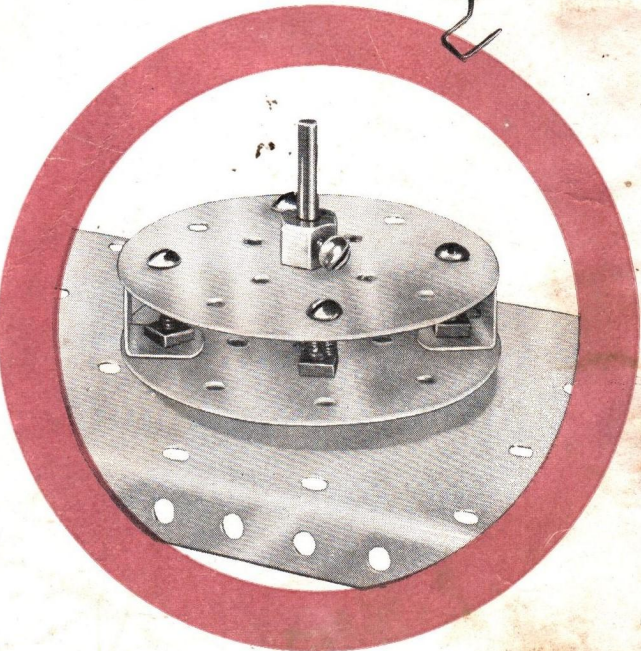


How cab and crane is mounted on to swivel base through long center slot of base #518.

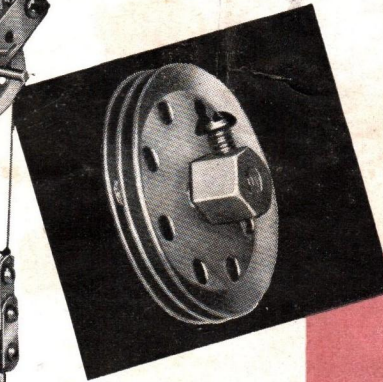


SWIVEL-BASED DERRICK
Turns Completely Around
Adjust width of drum according to length of cord desired. See cable drum on Page 28.

Shallow type swivel base using brackets #524. Mounted on lower stationary base #518.

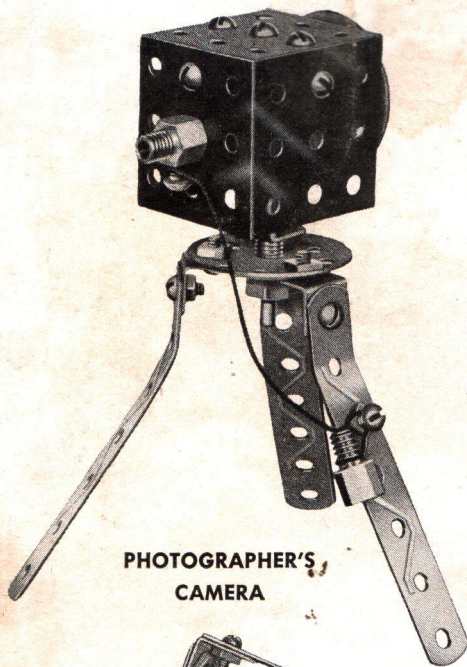


Pendulum Weight For Demolition Purposes

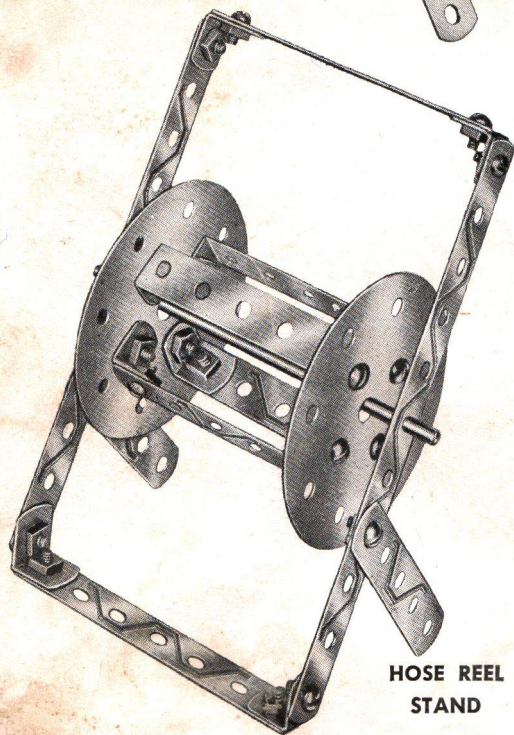


Another Type of Derrick Hook



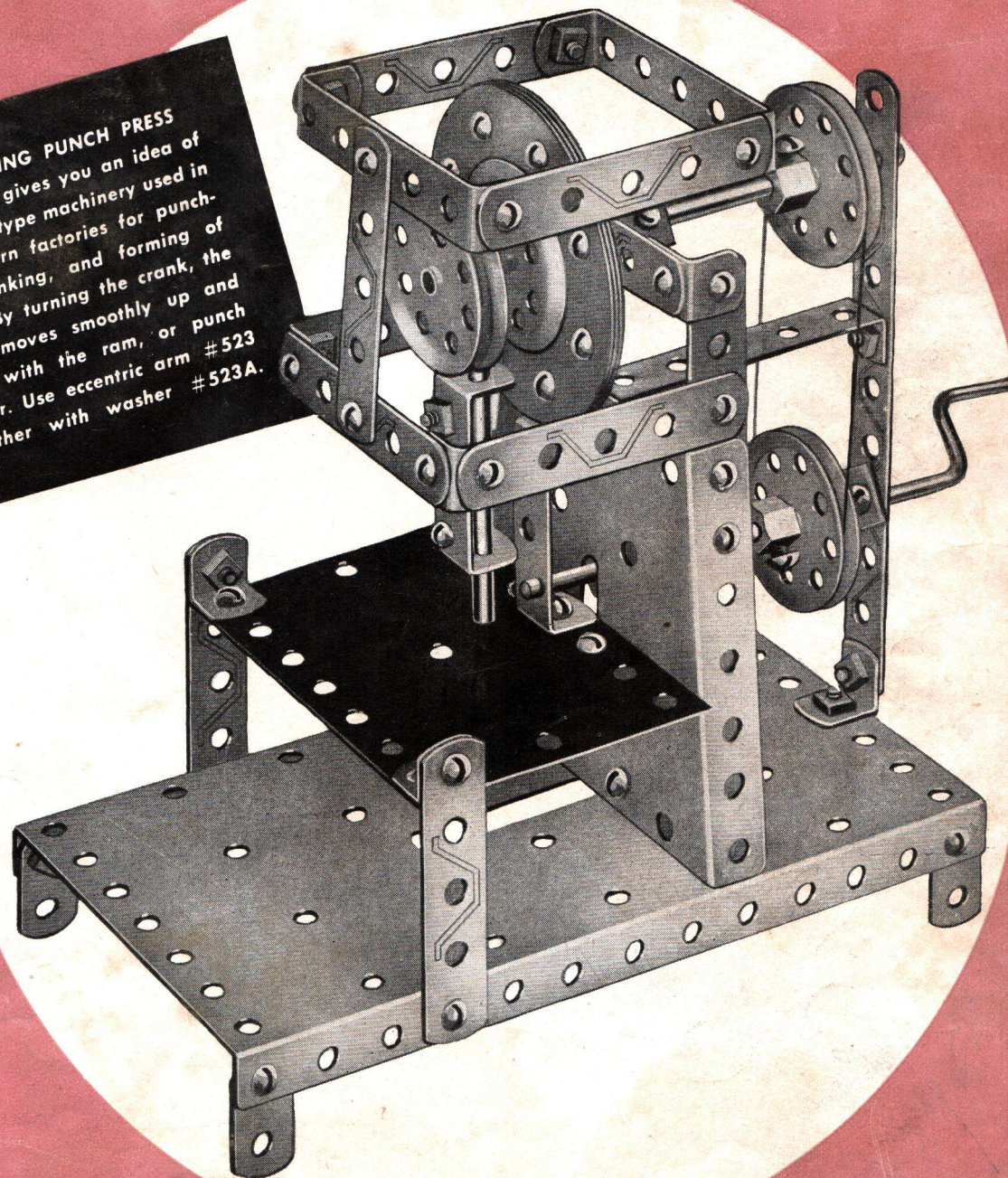


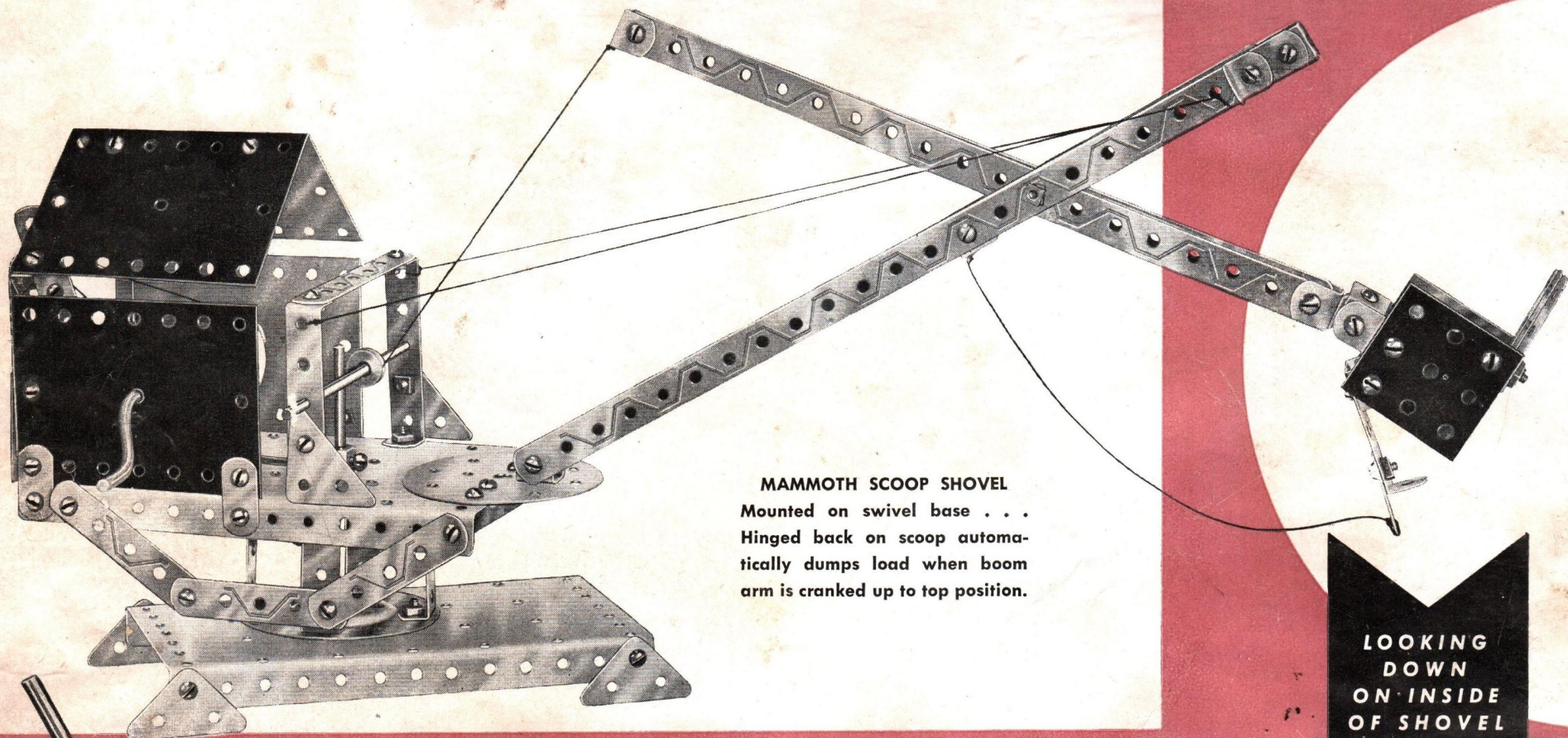
PHOTOGRAPHER'S
CAMERA



HOSE REEL
STAND

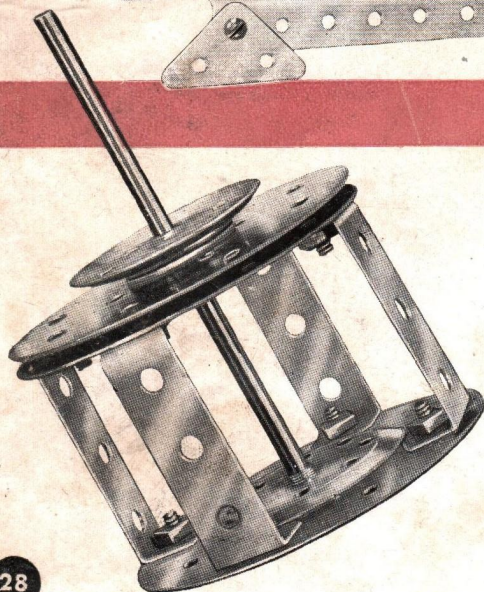
PERFORATING PUNCH PRESS
This model gives you an idea of the heavy type machinery used in our modern factories for punching, blanking, and forming of metal. By turning the crank, the punch moves smoothly up and down with the ram, or punch holder. Use eccentric arm #523 together with washer #523A.





MAMMOTH SCOOP SHOVEL
 Mounted on swivel base . . .
 Hinged back on scoop automa-
 tically dumps load when boom
 arm is cranked up to top position.

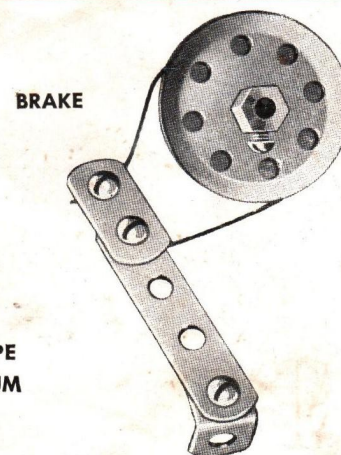
LOOKING
 DOWN
 ON INSIDE
 OF SHOVEL



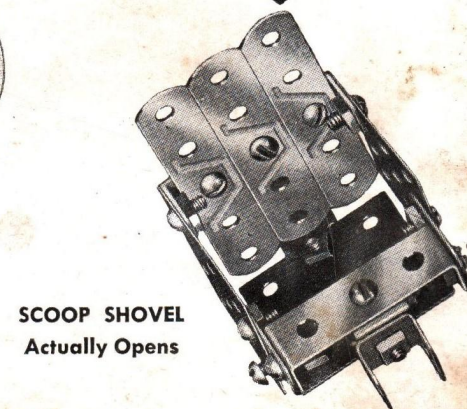
TURNTABLE



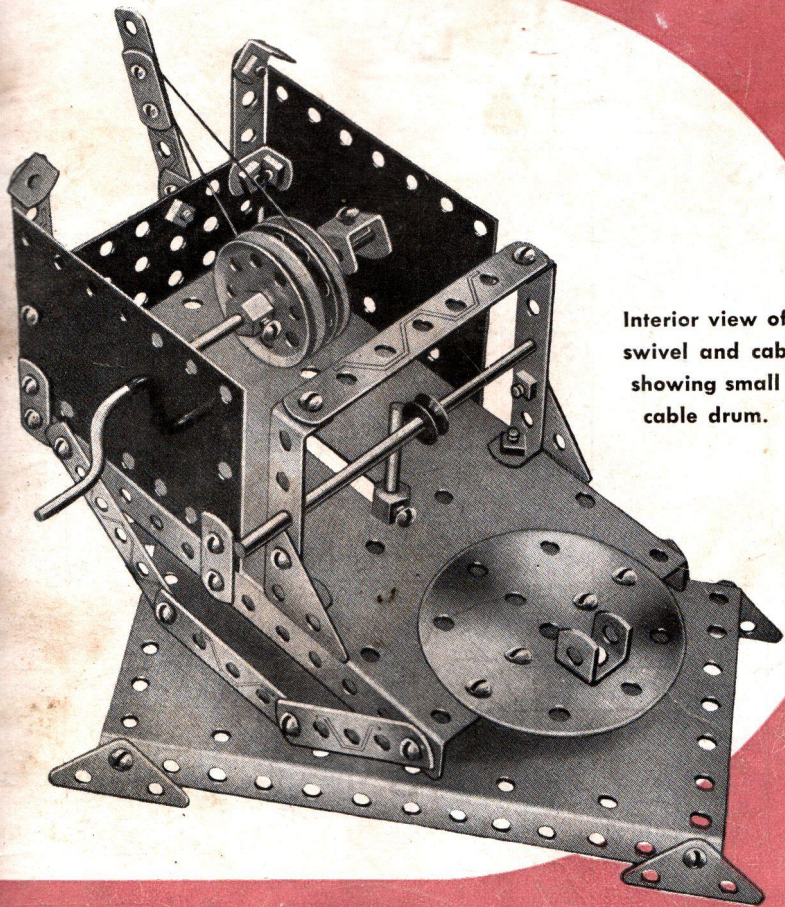
**LARGE TYPE
 CABLE DRUM**



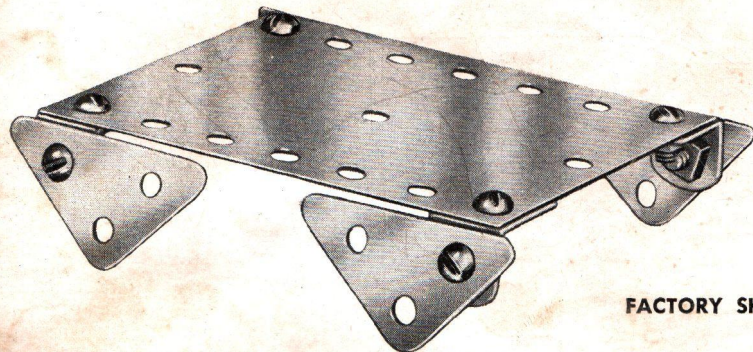
BRAKE



SCOOP SHOVEL
 Actually Opens

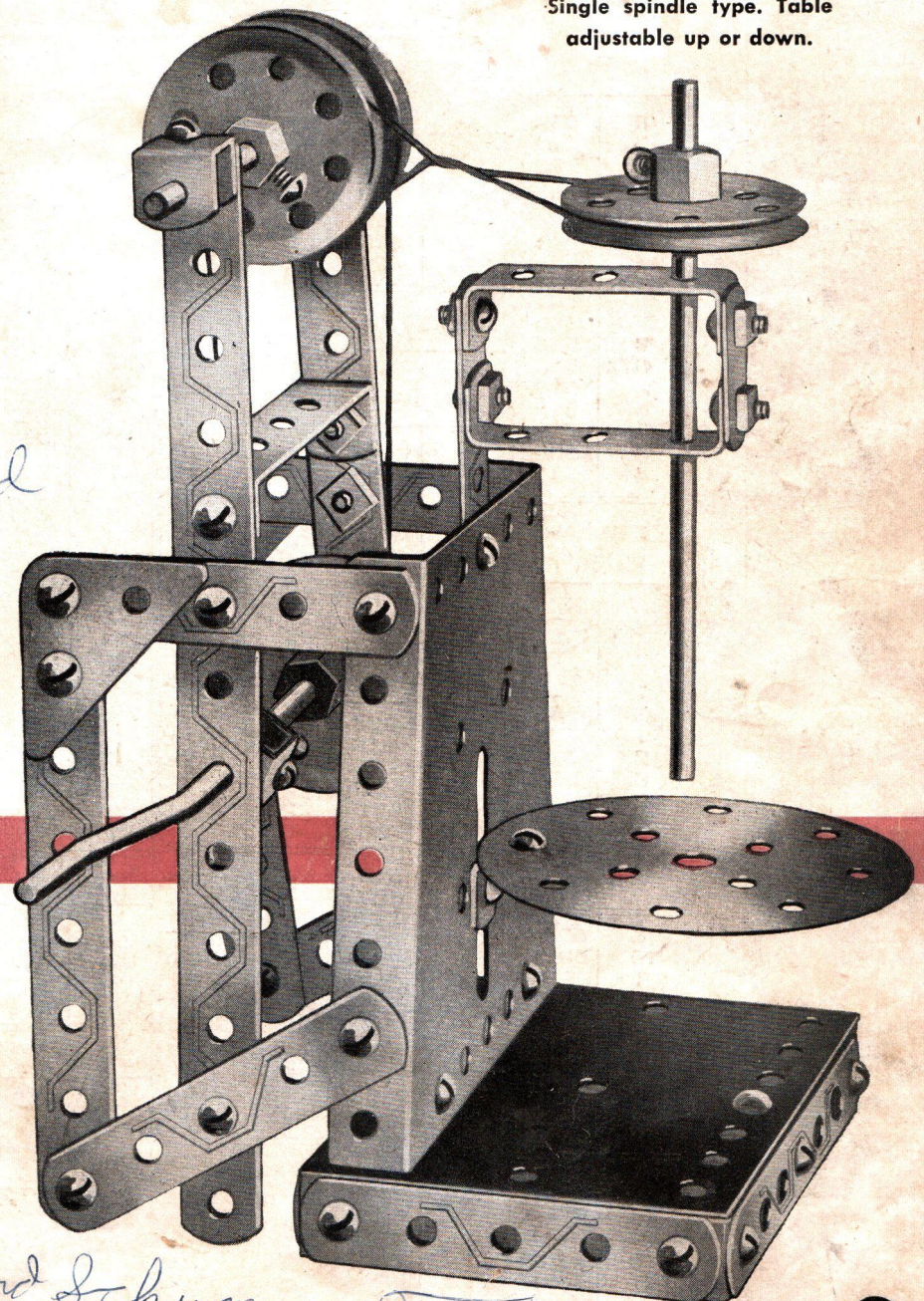


Interior view of
swivel and cab
showing small
cable drum.



FACTORY SKID

HEAVY DUTY
RADIAL DRILL PRESS



Single spindle type. Table
adjustable up or down.

*Richard
Schum*

*Richard Schum
Richard Schum*

FF FF

[illegible]

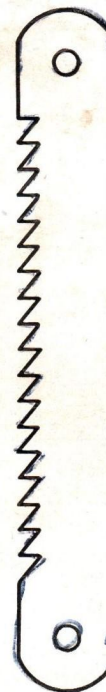
MODEL PARTS LISTING

PIECES NO. OF	PART NO.	NO. OF PIECES	PART NO.	NO. OF PIECES	PART NO.	NO. OF PIECES	PART NO.	NO. OF PIECES	PART NO.	NO. OF PIECES	PART NO.	NO. OF PIECES	PART NO.	NO. OF PIECES	PART NO.	NO. OF PIECES	PART NO.	NO. OF PIECES	PART NO.
PAGE 15		PAGE 16		PAGE 19		PAGE 20 CONTINUED		PAGE 21 CONTINUED		PAGE 22 CONTINUED		PAGE 23		PAGE 25 CONTINUED		PAGE 26		PAGE 28	
"DAYS-OF-49" COVERED WAGON CONTINUED		TRUSS BRIDGE		PONY CART CONTINUED		QUONSET HUT		DIVING BELL		BOMBER		TRUCK CONTINUED		HACK SAW		DERRICK CONTINUED		SCOOP SHOVEL	
4	517	90	6324	1	514	13	6324	16	5324	5	6324	6	503	21	6324	2	509	90	6324
4	527	90	632N	8	516	13	632N	20	532N	5	632N	2	525	19	632N	7	510	84	632N
6	514	2	518			7	524	1	505	1	510	15	516	1	519	4	511	4	525
2	524	4	515	WINDMILL		1	505	1	514	1	514	4	512	4	512	3	514	3	527
4	529	18	516	63	6324	1	514	2	517	1	513	6	510	2	515	1	513	1	526
2	501	12	512	57	632N	2	509	2	520	1	524	4	511	5	524	7	524	4	517
6	511	14	511	4	530	1	508	1	529	3	516	3	509	1	513	13	516	7	520
3	508	12	510	3	517			4	516	2	522	2	508	2	514	4	512	4	529
1	509	8	509	5	520	PUP TENT		1	521			PAGE 24		2	520	PAGE 27		1	522
2	516	6	508	1	503	4	6324	1	527	PAGE 23		BAND SAW		2	529	HOSE REEL STAND		1	503
4	520	2	506	1	501	4	632N	1	531	AIRCRAFT CARRIER		53	6324	1	523	24	6324	6	515
1	512	4	507	6	529	4	525	HOWITZER		LOADING STAIRS		47	632N	1	501	22	632N	2	518
HOE		TURNTABLE RRIDGE		2	516	12	6324	12	632N	32	6324	1	518	1	523A	2	529	2	518
2	6324	90	6324	10	516	10	632N	4	520	32	632N	12	520	1	501	2	517	2	521
2	632N	86	632N	4	506	4	520	4	529	3	525	2	517	2	529	2	514	2	506
1	530	4	525	7	510	42	6324	4	515	3	527	1	526	2	517	2	511	2	507
1	516	2	518	4	508	36	632N	2	516	2	502	1	527	8	524	1	510	1	510
1	509	3	517	4	515	5	520	2	524	2	516	8	524	20	516	2	514	6	514
RAKE		6	520			6	529	1	501	2	506	4	515	4	515	2	511	2	513
4	6324	1	501	TRAILER		1	522	1	500	2	514	6	529	6	529	4	511	2	510
4	632N	1	503	12	6324	1	517	1	503	2	510	2	514	2	511	2	510	7	514
1	510	5	529	10	632N	2	524	2	524	4	515	2	510	2	522	2	509	13	516
3	512	6	513	1	519	1	518	PAGE 22		STEAM ENGINE		2	502	WHEEL BARROW		61	6324	PAGE 29	
1	509	12	511	4	520	2	526	LOADING STAIRS		72	6324	2	503	19	6324	57	632N	SKID	
1	516	2	514	2	529	4	506	24	6324	69	632N	1	518	15	632N	3	514	8	6324
SNOW SHOVEL		4	524	1	501	4	515	22	632N	1	518	2	520	4	529	2	513	8	515
3	6324	3	507	2	511	2	507	1	501	4	520	2	515	2	517	11	511	1	632N
3	632N	8	510	2	514	8	511	4	510	1	501	2	509	4	515	7	520	8	525
2	508	16	516	2	524	5	514	2	516	2	529	2	500	2	526	4	529	4	525
1	512	4	508	1	510	2	509	2	509	4	511	2	501	2	507	1	522	4	516
1	526	8	509	2	516	2	508	PAGE 21		TRUCK		2	502	PAGE 25		1	523	DRILL PRESS	
SULKY		PAGE 19		PAGE 20		75 MM CANNON		STEAM ENGINE		ELEVATOR		1	512	PAGE 26		1	523A	CAMERA	
10	6324	PONY CART		SEARCH LIGHT		23	6324	STEAM ENGINE		DERRICK		63	6324	DERRICK		74	6324	DRILL PRESS	
8	632N	28	6324	9	6324	21	632N	STEAM ENGINE		DERRICK		57	632N	74	632N	74	632N	47	6324
2	526	26	632N	10	632N	2	520	STEAM ENGINE		DERRICK		1	518	4	525	4	525	43	632N
2	517	1	519	2	517	2	517	STEAM ENGINE		DERRICK		10	520	2	518	2	518	8	520
2	517	2	520	1	519	2	517	STEAM ENGINE		DERRICK		5	529	4	517	1	517	4	529
2	520	2	529	2	524	2	509	STEAM ENGINE		DERRICK		2	522	8	520	1	525	1	503
2	529	4	511	2	516	5	511	STEAM ENGINE		DERRICK		1	503	5	529	1	519	2	501
1	501	3	510	1	511	1	510	STEAM ENGINE		DERRICK		1	501	8	515	1	518	4	524
3	516	2	509	1	502	6	514	STEAM ENGINE		DERRICK		1	525	1	526	4	524	9	516
1	514	2	513	1	529	5	513	STEAM ENGINE		DERRICK		2	526	1	523	11	516	2	513
2	508	CONTINUED		1	520	4	514	STEAM ENGINE		DERRICK		17	516	1	523A	4	512	1	514
						1	516	STEAM ENGINE		DERRICK		14	6324	1	521	1	501	2	515
								STEAM ENGINE		DERRICK		4	632N	2	520	1	502	1	517
								STEAM ENGINE		DERRICK		2	527	3	503	2	509	1	512
								STEAM ENGINE		DERRICK		17	516	2	502	4	510	8	511
								STEAM ENGINE		DERRICK		2	524	1	531	2	508	4	510
								STEAM ENGINE		DERRICK		1	523	2	506	1	519	2	508
								STEAM ENGINE		DERRICK		4	512	1	507	3	510	1	519
								STEAM ENGINE		DERRICK		10	510	6	516	2	513	1	525
								STEAM ENGINE		DERRICK		4	506	6	516	1	521	1	521

On the opposite page are shown the parts found in your Model 500 Construct-O-Craft. Below is a listing of these parts along with the description and number of pieces in the Model 500.

PART NO.	NO. OF PCS.	DESCRIPTION
500	2	7¼" Long Shaft
501	2	4¼" Long Shaft
502	4	2¼" Long Shaft
503	1	Crank
504	1	Screw Driver
505	1	Fibre Plate
506	4	11½" Long Girder—23 Holes
507	6	9½" Long Girder—19 Holes
508	6	6½" Long Girder—13 Holes
509	8	5½" Long Girder—11 Holes
510	12	3½" Long Girder— 7 Holes
511	16	2½" Long Girder— 5 Holes
512	12	1" Long Strap—2 Holes
513	6	1½" Long Channel Bracket
514	6	2½" Long Channel Bracket
515	8	Triangular Plates
516	20	Angle Brackets
517	4	Large Discs
518	2	Base Channel—Rectangular
519	1	Base Channel—Triangular
520	12	Dished, Threaded Wheels
521	2	¾ Diameter Washers
522	2	½ Diameter Brass Sheaves
523	1	Eccentric Arm
523A	1	Eccentric Arm Washer
524	8	U-Type Brackets
525	4	Plates
526	2	Plates
527	4	Plates
528	1	Wrench—For Studs & Nuts
529	6	Brass Threaded Studs
530	4	Fan Blades
531	1	Wire Hook
TOTAL 170. Major Pieces		
6324	90	Screws
632N	90	Nuts

CHIMNEY
STACK
FOR PILE DRIVER
Page 6

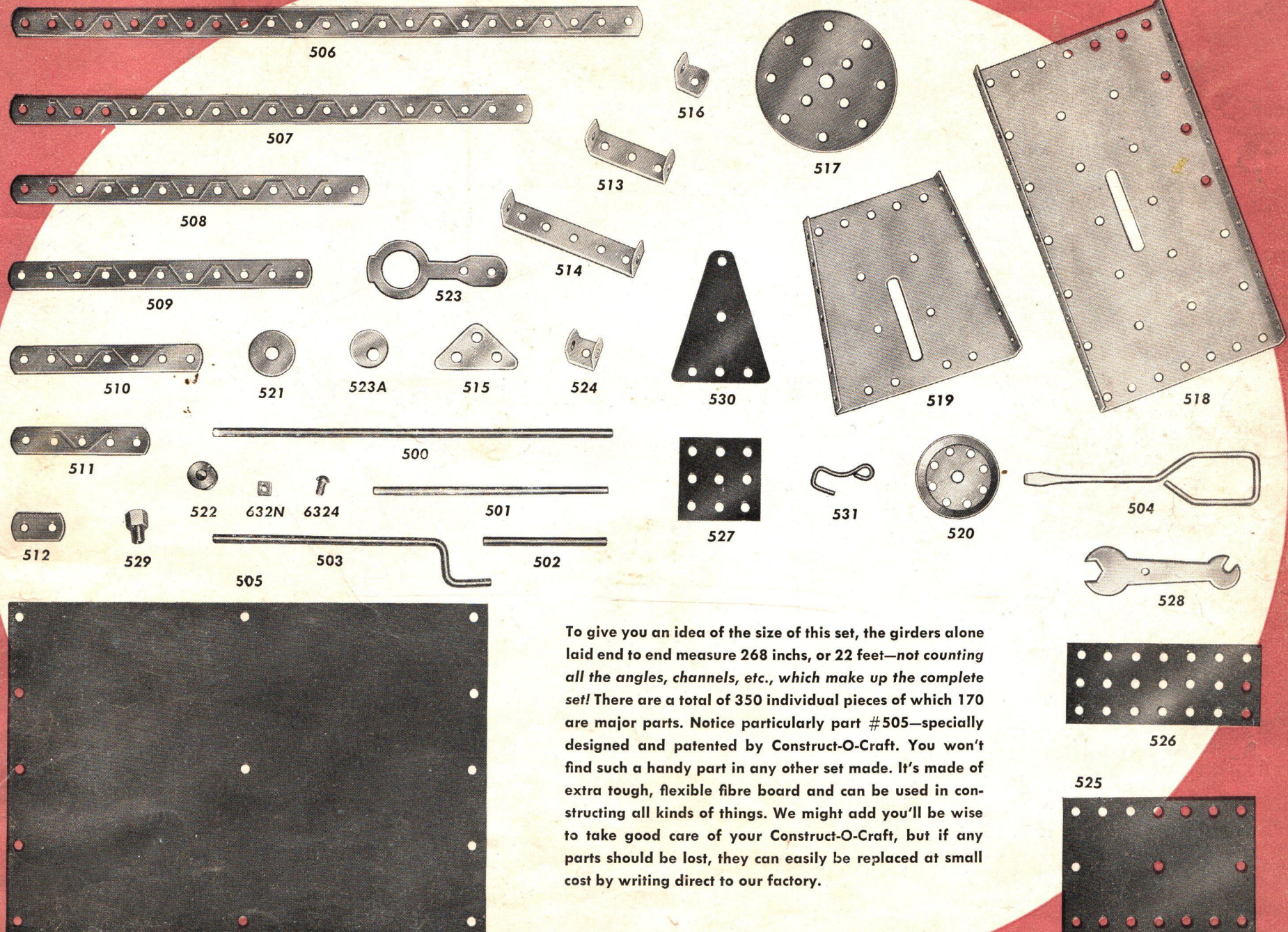


POWER
SAW BLADE
Page 25

CONE FOR PILE DRIVER
Page 6

CONE FOR SILO OR WATER TOWER
Pages 7 and 12

Here are the full size diagrams for making additional parts needed in a few of the special models shown in this handbook. Simply trace or copy the diagram of the part you require, on cardboard or even tin if you have tin shears. The dotted line in each circle shows where to cut to make a conical shape. Each cone or the stack may be held together with scotch tape, gummed tape, or glue, depending on the material used. This same method can be used to make many parts of your own invention.



To give you an idea of the size of this set, the girders alone laid end to end measure 268 inches, or 22 feet—not counting all the angles, channels, etc., which make up the complete set! There are a total of 350 individual pieces of which 170 are major parts. Notice particularly part #505—specially designed and patented by Construct-O-Craft. You won't find such a handy part in any other set made. It's made of extra tough, flexible fibre board and can be used in constructing all kinds of things. We might add you'll be wise to take good care of your Construct-O-Craft, but if any parts should be lost, they can easily be replaced at small cost by writing direct to our factory.



**BOXAR ENGINEERS
REALLY KNOW
THEIR STUFF!**

Producing a high quality steel model-building set like Construct-O-Craft takes long months of planning, designing, and experimenting before manufacture can even start. It's a job not only for experienced engineers and precision tool workers, but for such men who know exactly what model builders want. Men who do things in a BIG way! For example, look over the Boxar Tool Special entered in the 1946 500-mile race at Indianapolis. You bet

it's a beauty! Over a ten-mile run it qualified at 119.193 miles per hour! The special parts that made this sleek, speedy racing car possible were made right in the Boxar plant by the same men who made your Construct-O-Craft! The same care, the same serious attention to detail, went into the manufacture of every part. Truly designed and constructed for model builders by engineers who really know their stuff!



"Believe me," says Louis Tomei, "I've seen Boxar make your Construct-O-Craft. It's a sure winner!" A veteran of the "Flying Tigers", Louis now sets a fast pace as a Hollywood stunt man. This daredevil from Van Nuys, California, has driven in the Memorial Day races at Indianapolis from 1935 to 1941, and in 1946 for Boxar. Louis is a member of the famous, exclusive "100-Mile-An-Hour Club", which means he has finished the 500-mile classic at an average speed of better than 100 miles an hour!