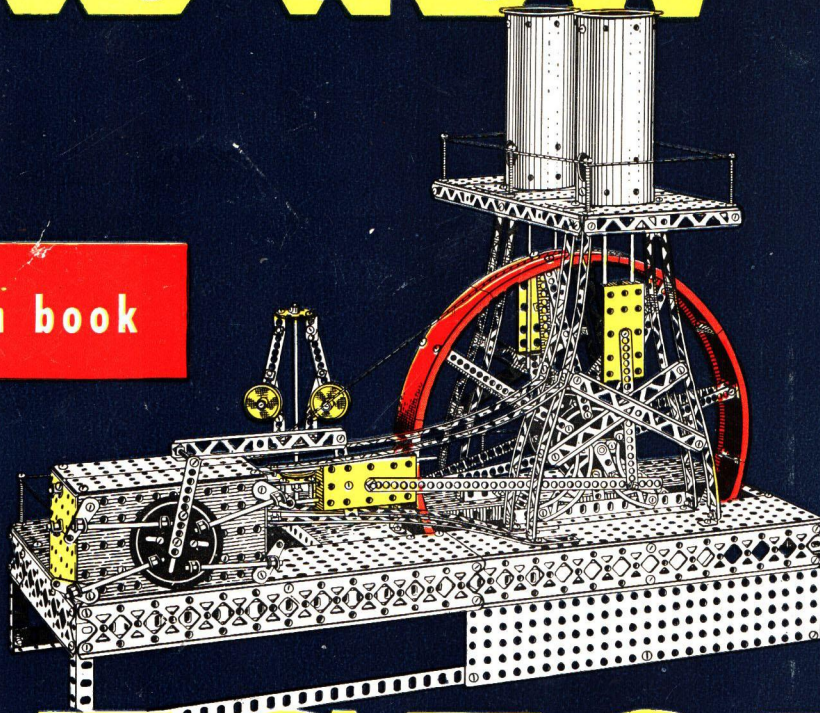


# THE NEW

How to make 'em book

Giant Power Plant  
Built with 10½ Erector Set



# ERECTOR®



THE WORLD'S GREATEST CONSTRUCTION TOY • DEVELOPED AT THE GILBERT HALL OF SCIENCE



# How to Get the Most FUN Out of Your ERECTOR®



A. C. Gilbert  
inventor of Erector  
and founder of the  
Gilbert Hall of  
Science



The Gilbert Hall of Science,  
the greatest scientific  
institution of its kind in  
the world and the home of  
Erector, American Flyer  
Trains, Gilbert Chemistry  
Sets and other Gilbert  
scientific outfits.

## A PERSONAL MESSAGE FROM THE INVENTOR OF ERECTOR

**Y**OU are a lucky boy to get an Erector Set. No other construction set contains so many different parts and builds so many different models. You may be interested to know, for instance, that the United States Patent Office has issued over 100 patents covering various Erector features.

You will find that Erector brings you double-header fun. First is the fun of building giant bridges, towering cranes, mighty engines and other exciting mechanical marvels. Second is the fun of making your model buzz with action — because most every Erector set has an electric engine or a mechanical motor.

I know you will get a great thrill out of building Erector models and seeing them grow bigger and bigger as you add one part after another. Note, too, that Erector base plates and girders have equi-

distant holes — so that you only have to count the holes to build square and true. Also, Erector parts are fastened together with firm-fitting nuts and bolts similar to those used in real engineering.

This book shows a few of the many models you can build with your Erector. *But be sure to start right.* Build a few of the simple models first — those shown in the sections on the 11½ and 21½ Erector. Then build several bridges. Every new model will bring you a new thrill. You should then be ready to progress to the larger, action models. In building these models, it is worth knowing that many of them were originated by boys — and you should feel free to change them or improve them in any way you see fit. Creating new models is a big part of the fun of being an Erector Engineer.

Your Friend,

*A.C. Gilbert*



# "how to make 'em" BOOK

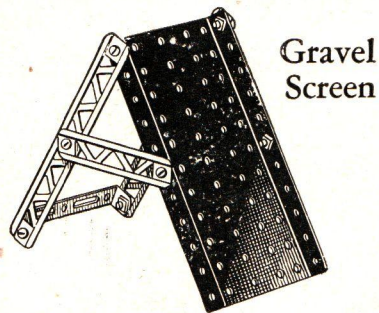
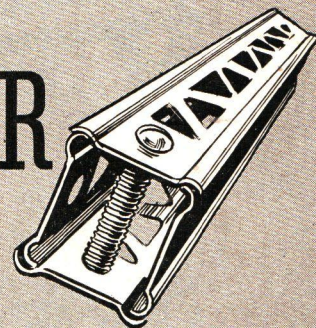
...featuring the

## ERECTOR<sup>®</sup>

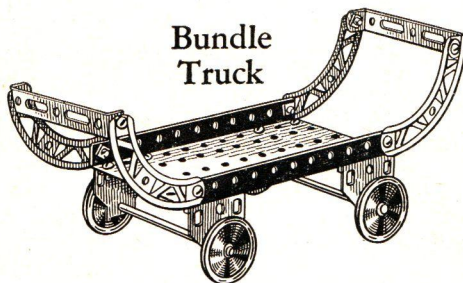
all-steel

# SQUARE GIRDER

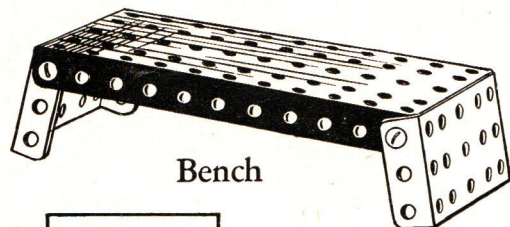
with interlocking edges



Gravel  
Screen

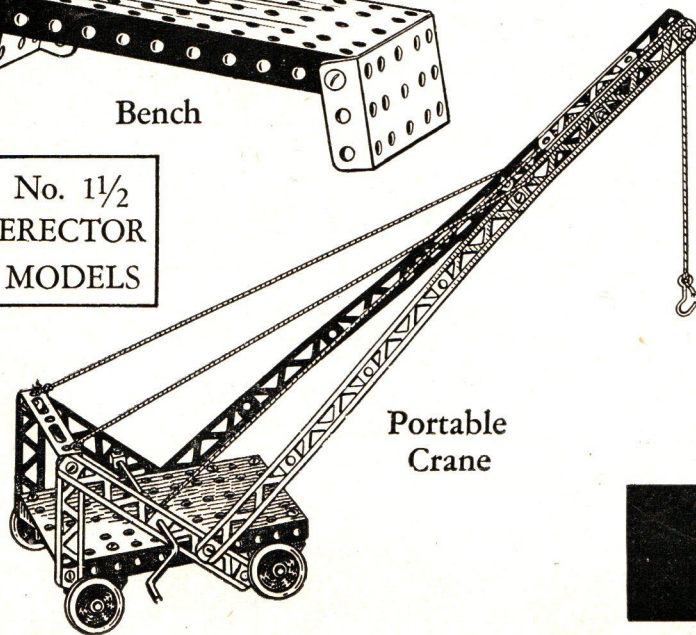


Bundle  
Truck

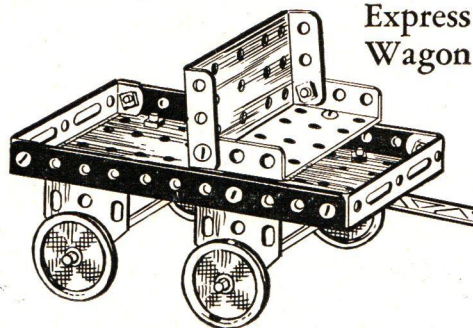


Bench

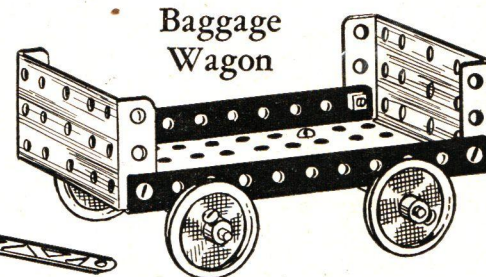
No. 11½  
ERECTOR  
MODELS



Portable  
Crane



Express  
Wagon



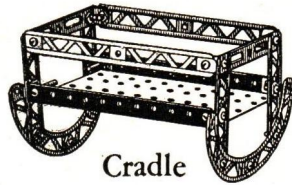
Baggage  
Wagon

**BUILD 'EM YOURSELF WITH ERECTOR**  
The World's Greatest Construction Toy

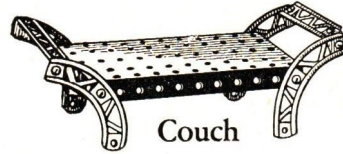


## Models Built with No. 1 and 1½ Erector

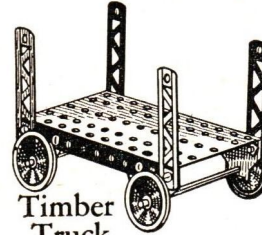
The number of models that can be built with Erector is unlimited. While we show a great many in this book, they are only indications of the large number of different varieties and the adaptability of Erector, The World's Greatest Toy.



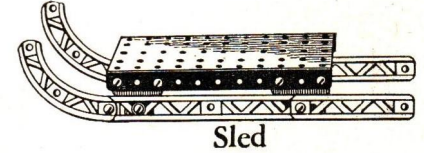
Cradle



Couch



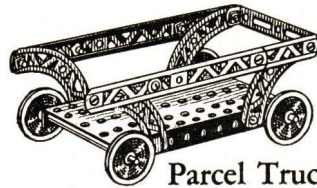
Timber  
Truck



Sled



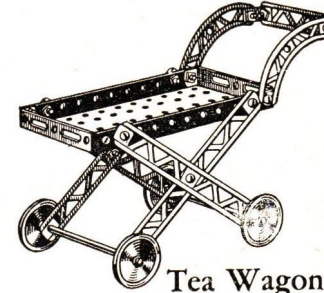
Hand  
Truck



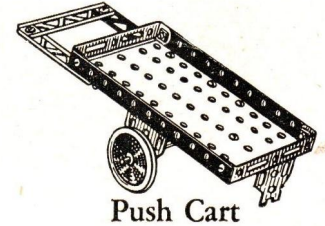
Parcel Truck



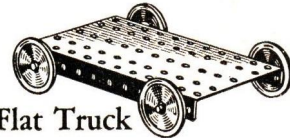
Small Bed



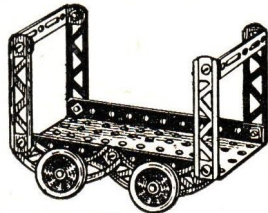
Tea Wagon



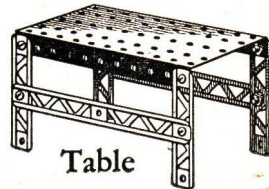
Push Cart



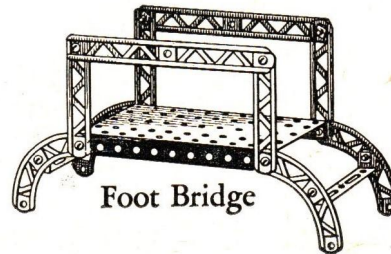
Flat Truck



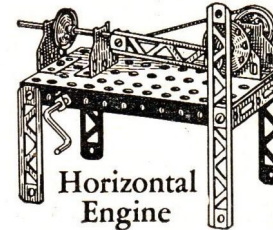
Baggage Truck



Table



Foot Bridge



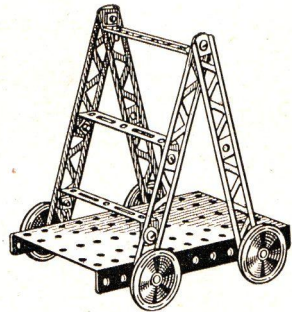
Horizontal  
Engine



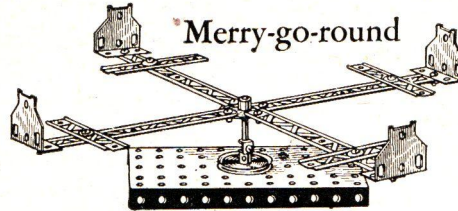
Settee



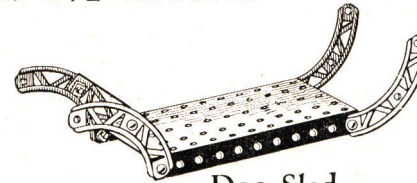
# Models Built with No. 1 and 1½ Erector



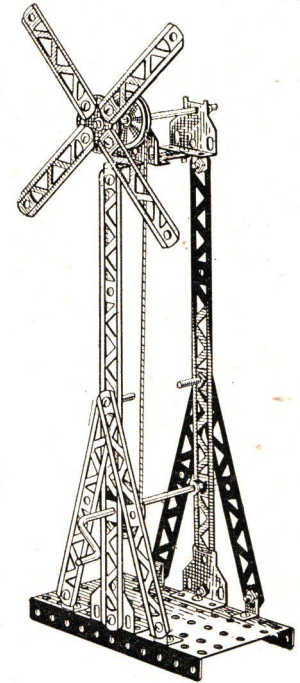
Truck Ladder



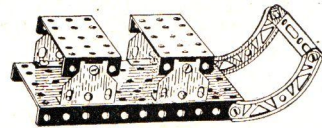
Merry-go-round



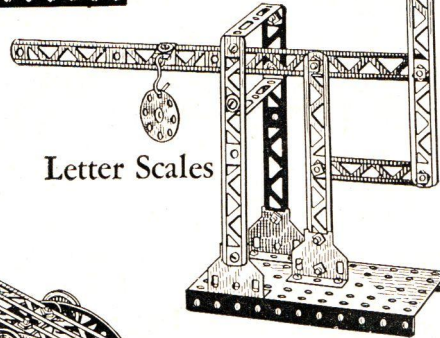
Dog Sled



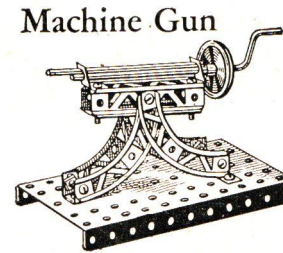
Windmill Pump



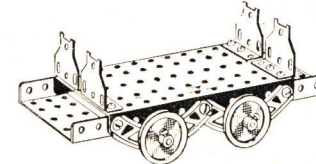
Sled



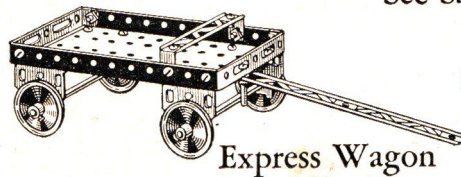
Letter Scales



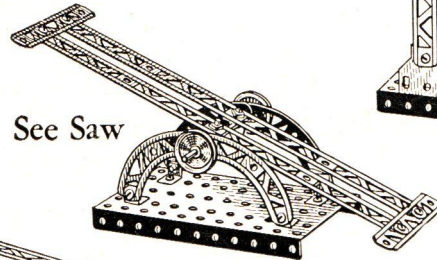
Machine Gun



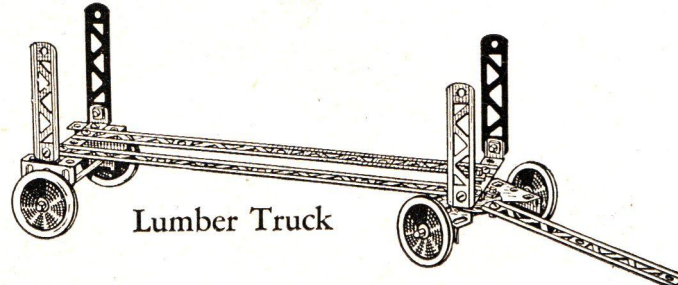
Factory Truck



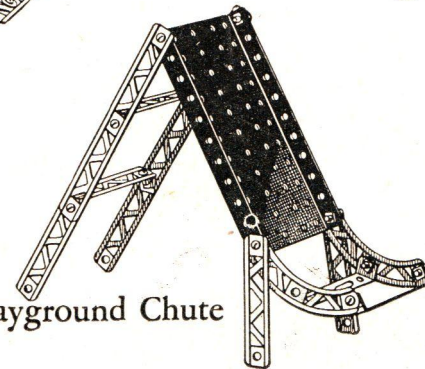
Express Wagon



See Saw



Lumber Truck



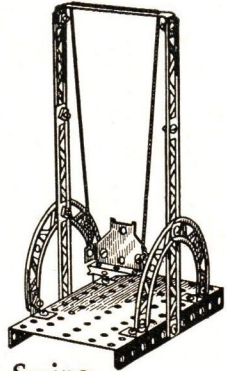
Playground Chute



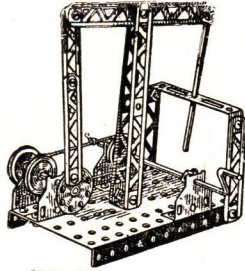
Wagon



# Models Built with No. 1 and 1½ Erector



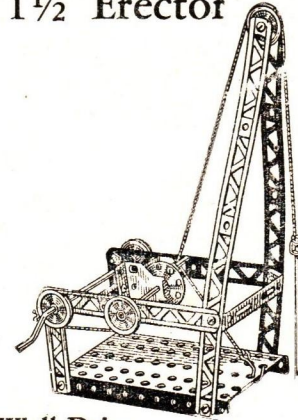
Swing



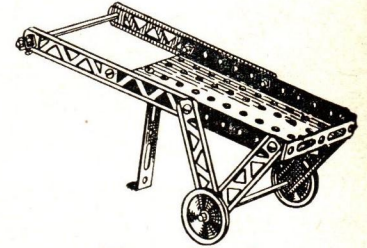
Walking  
Beam  
Engine



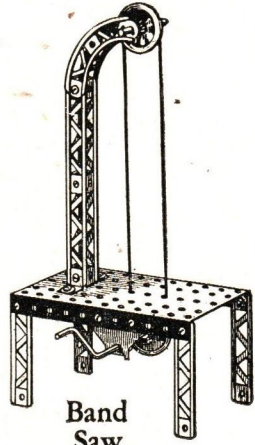
Small Wheelbarrow



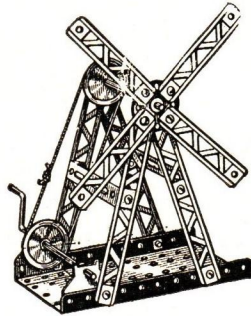
Well Drive.



Vegetable Cart



Band  
Saw



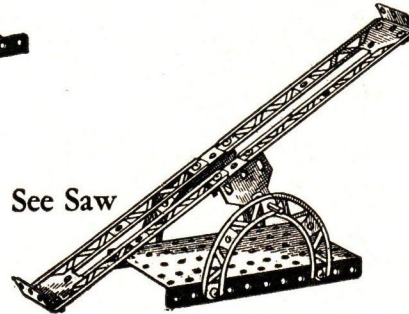
Small  
Windmill



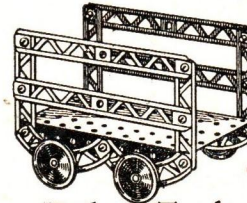
Siege Gun



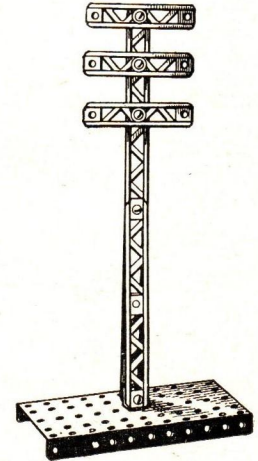
Large  
Wheelbarrow



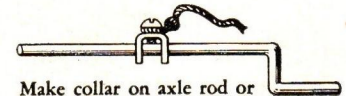
See Saw



Package Truck



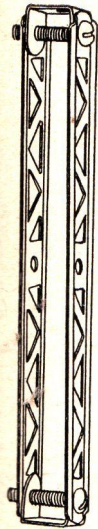
Telephone Pole



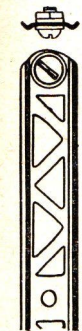
Make collar on axle rod or  
crank secure, and tie string  
around and under head of  
set screw



## STANDARD DETAILS OF ERECTOR CONSTRUCTION

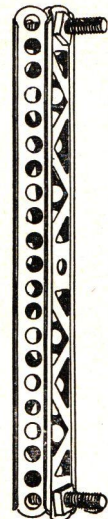
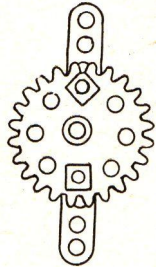


Parallel Beam



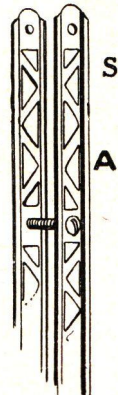
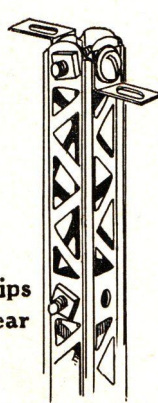
use washers to prevent screw from protruding too far beyond girder

Fastening Strips to Pierced Gear

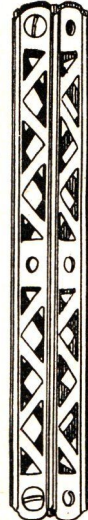


5 in. I-beam

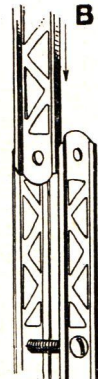
How Channel Keeps Angle in Position



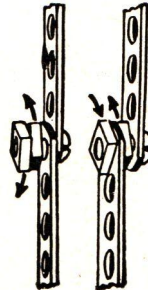
A



5 in. Square Girder



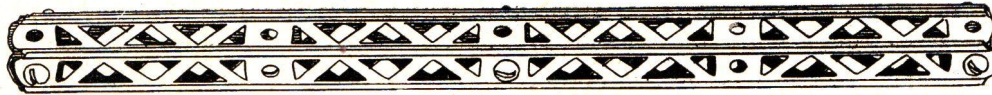
B



C

D

10 in. Square Girder



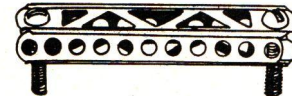
Method of locking nuts to permit strips to swivel. Turn nuts in opposite direction as shown by arrows.



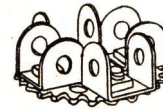
—Showing method of making bearings for axle



—2 1/2 in. Square Girder



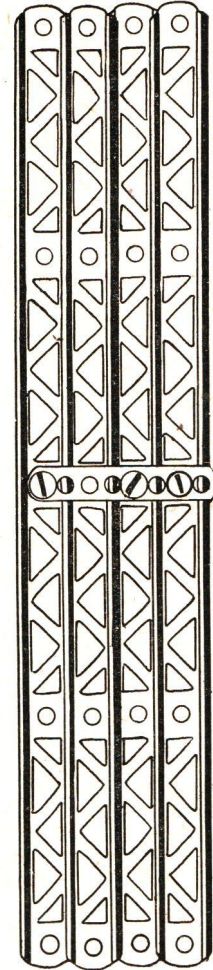
—2 1/2 in. I-beam



Method of fastening Double Angles to Pierced Disc



—Angle Iron

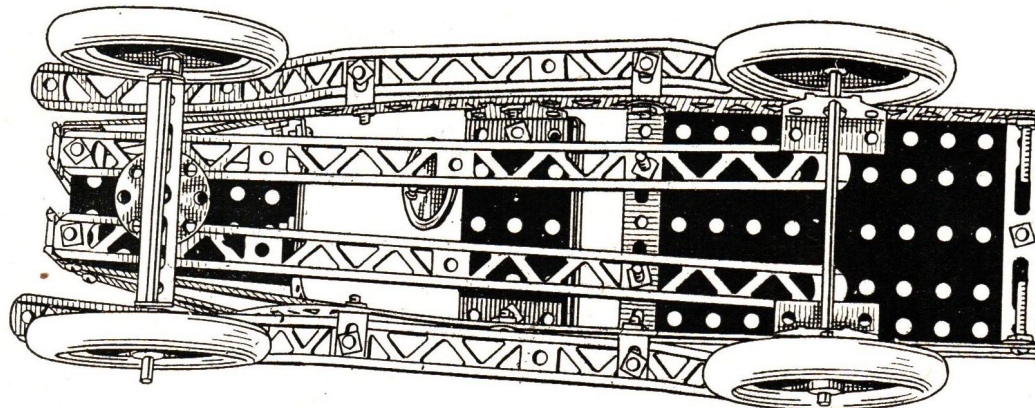


Flooring Construction

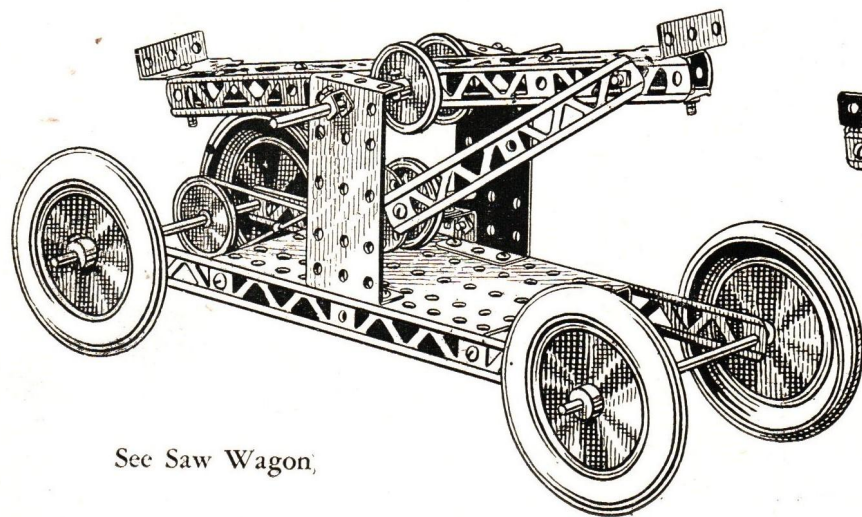
To construct a Square Girder commence by putting a long screw through center holes of two girders, as in A; then separate the two, take another girder pushing it down into the grooves or channels, as in B. Having assembled the three sides, take the fourth girder and likewise insert it into the grooves or channels, as in C; then slide it down until the two are flush, which makes a square column girder.



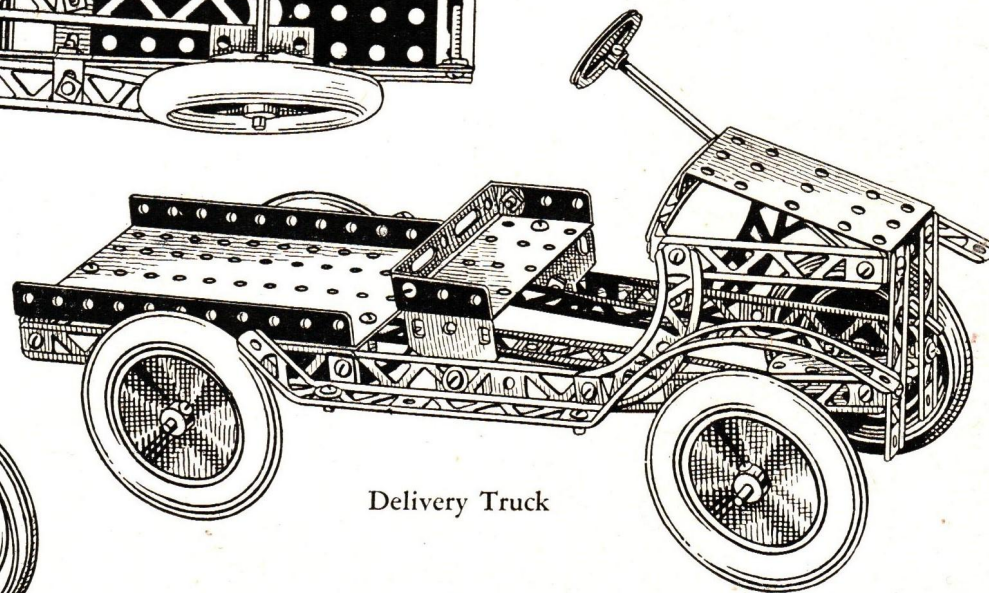
## Models Built with No. 2½ and 3 Erector



Bottom View  
Delivery Truck



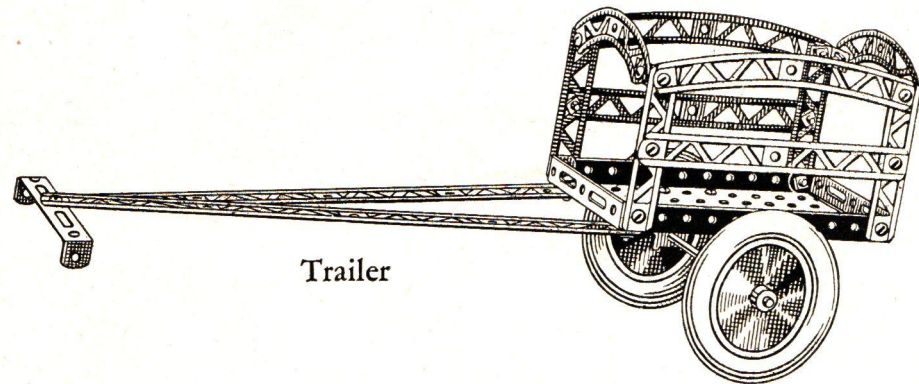
See Saw Wagon,



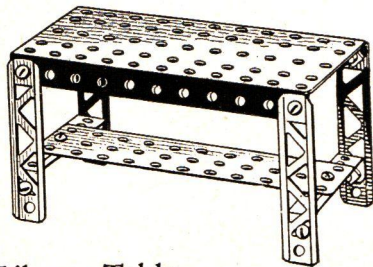
Delivery Truck



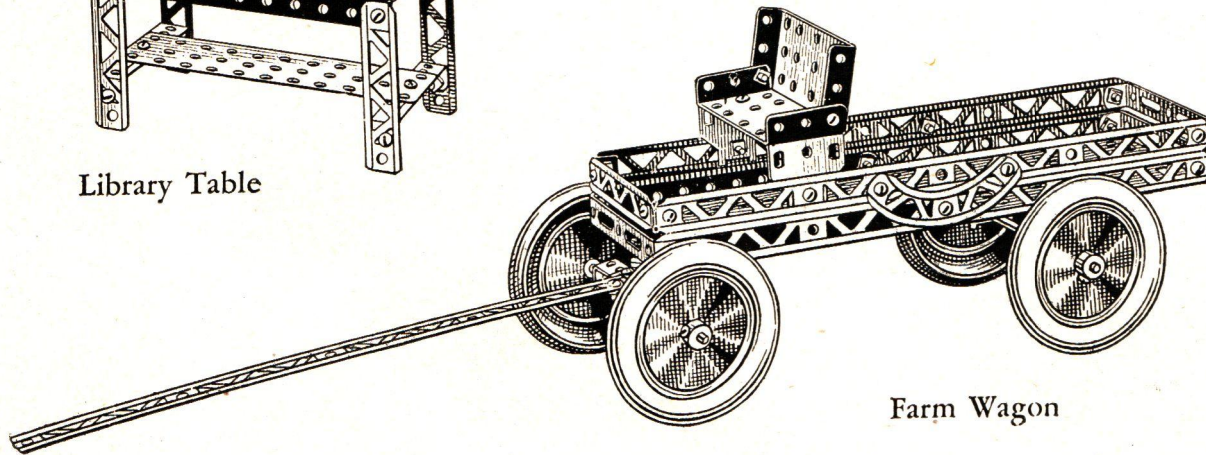
## Models Built with No. 2½ and 3 Erector



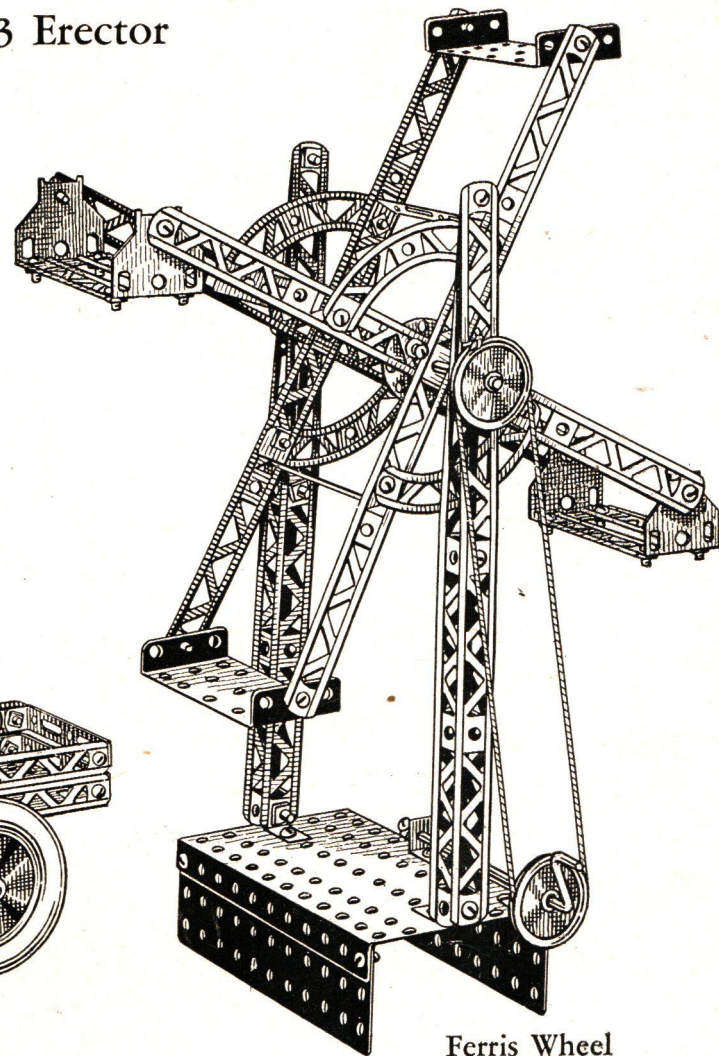
Trailer



Library Table



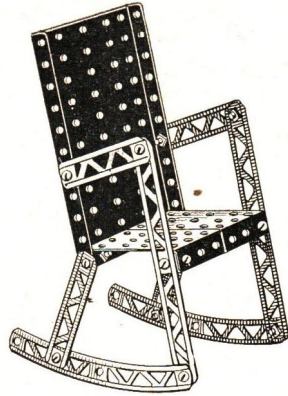
Farm Wagon



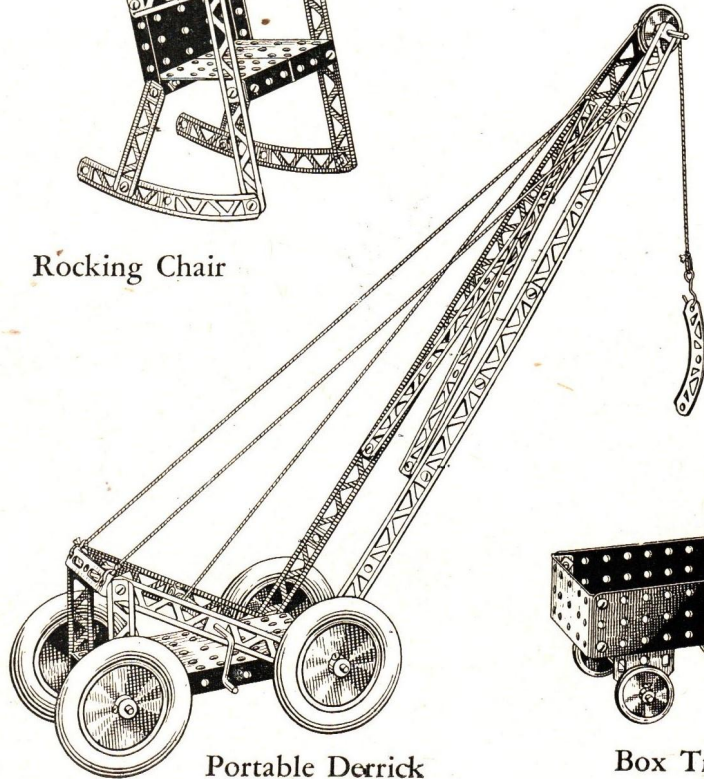
Ferris Wheel



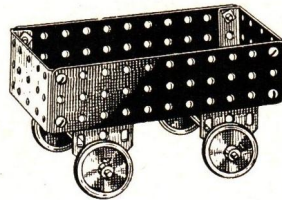
## Models Built with No. 2½ and 3 Erector



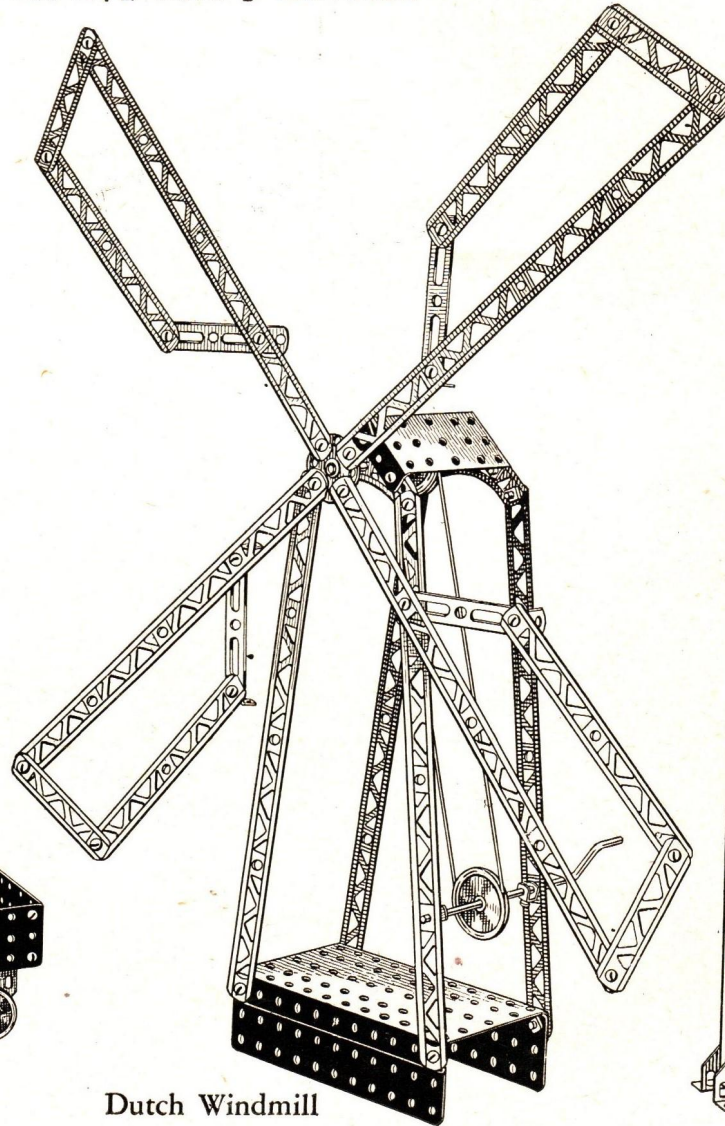
Rocking Chair



Portable Derrick

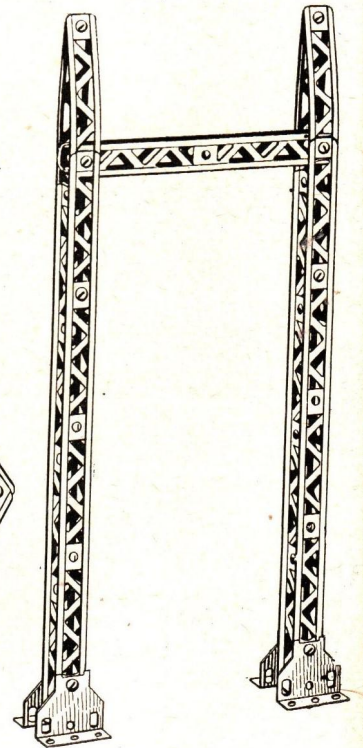


Box Truck



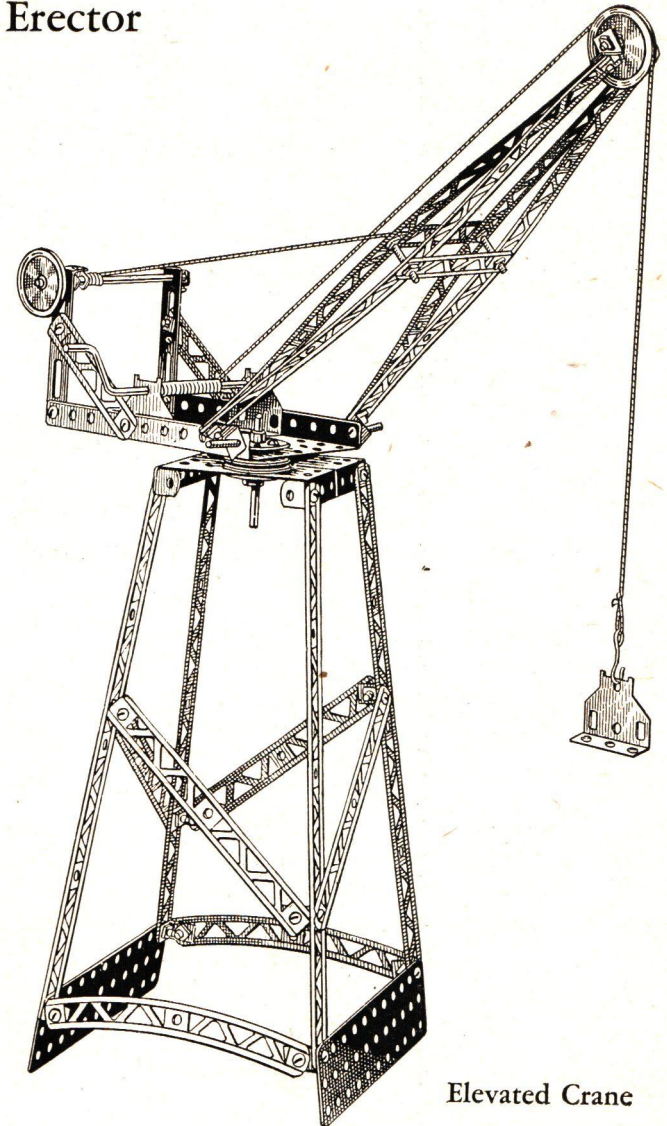
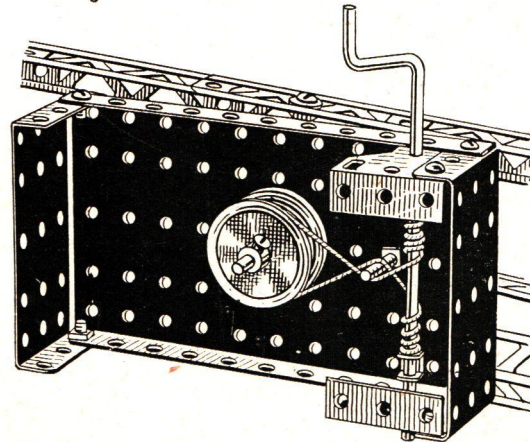
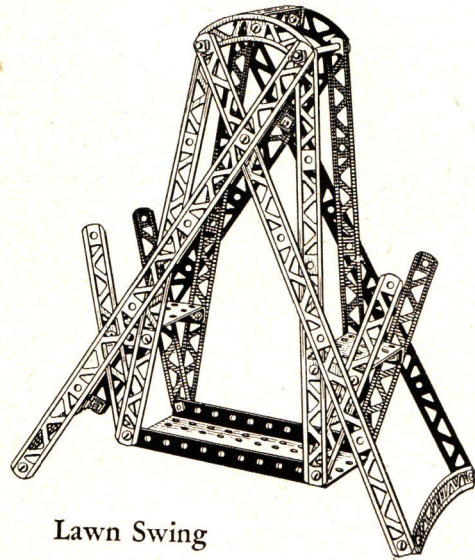
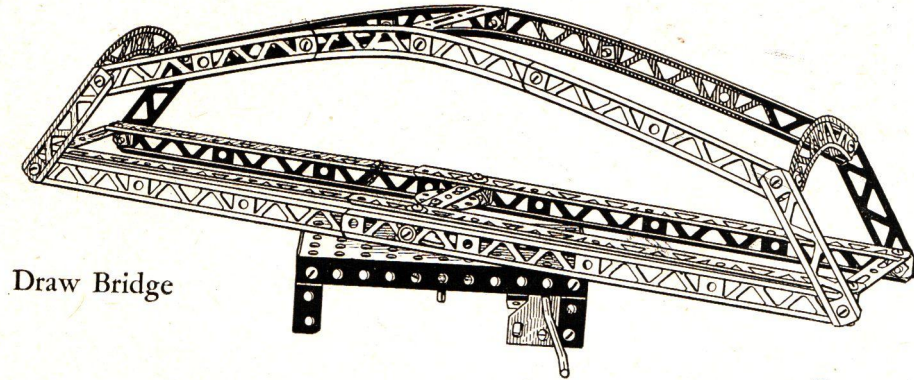
Dutch Windmill

Railroad  
Electrification  
Tower



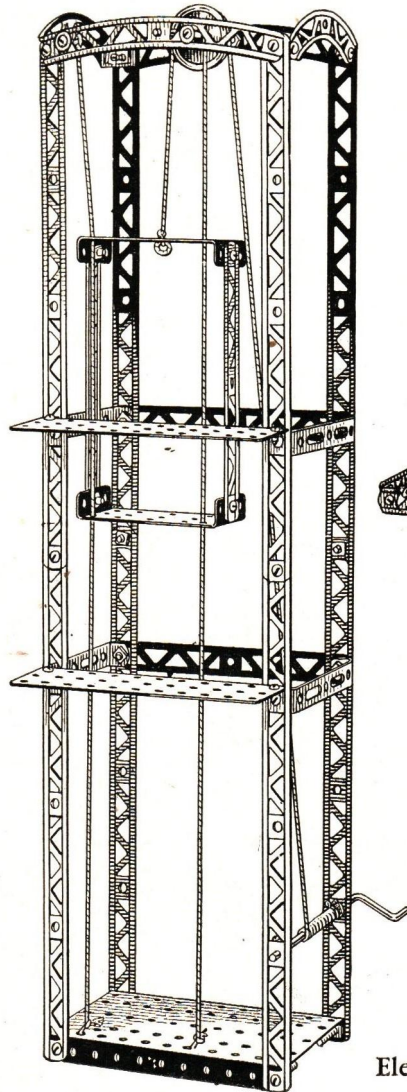


## Models Built with No. 2½ and 3 Erector

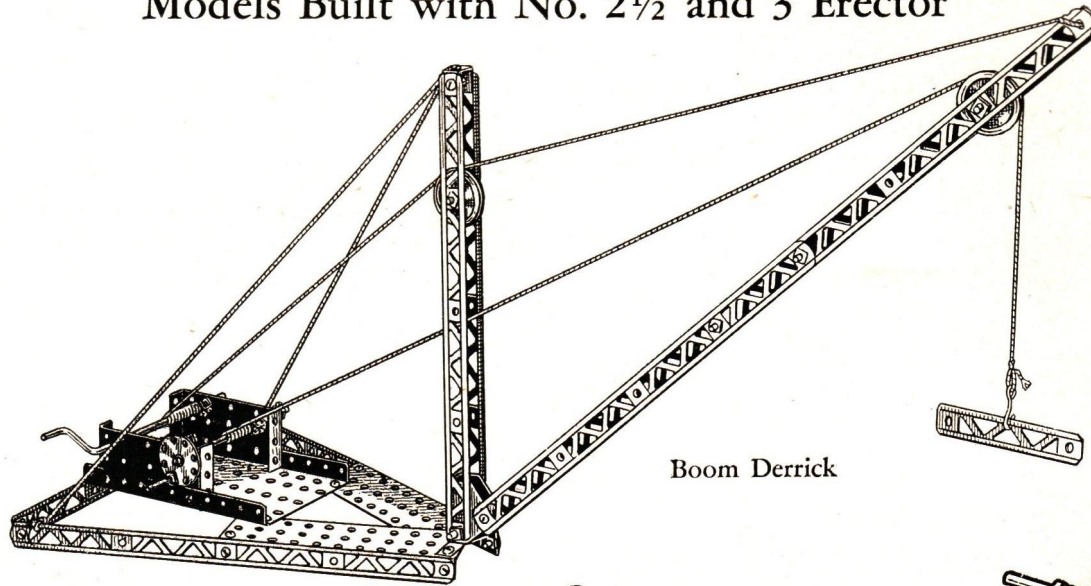




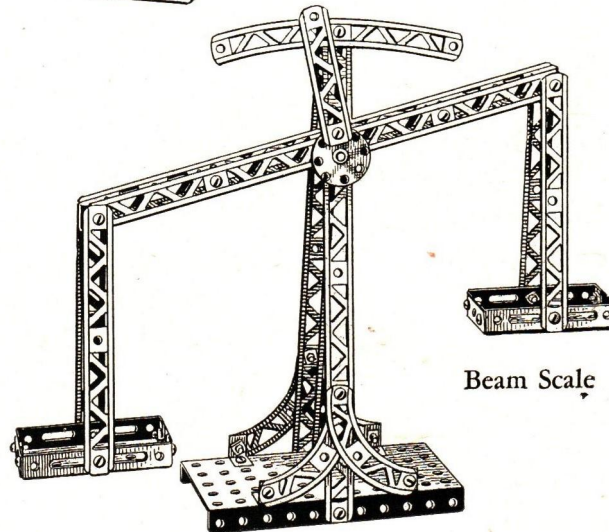
## Models Built with No. 2½ and 3 Erector



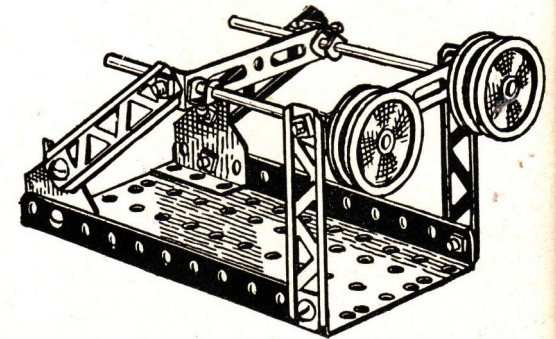
Elevator



Boom Derrick



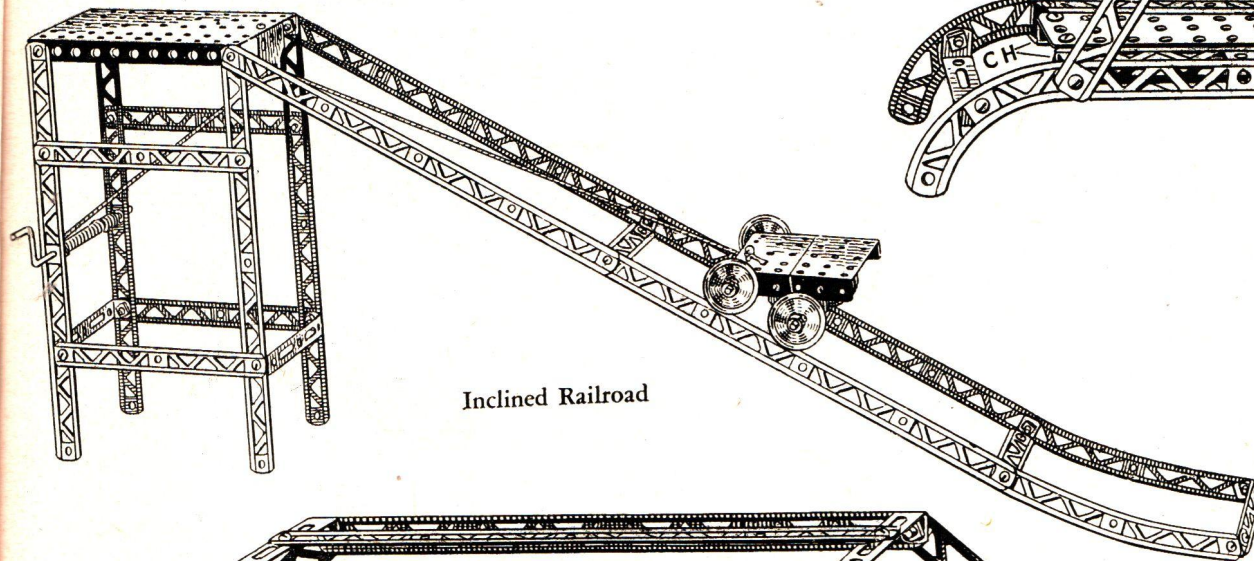
Beam Scale



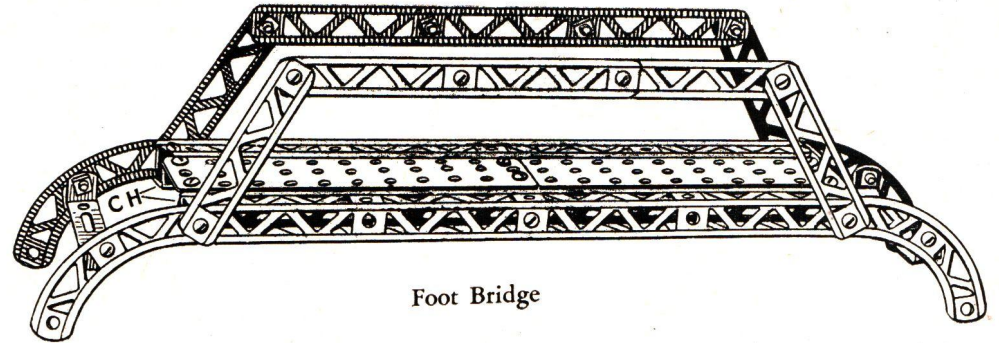
Railway Bumper



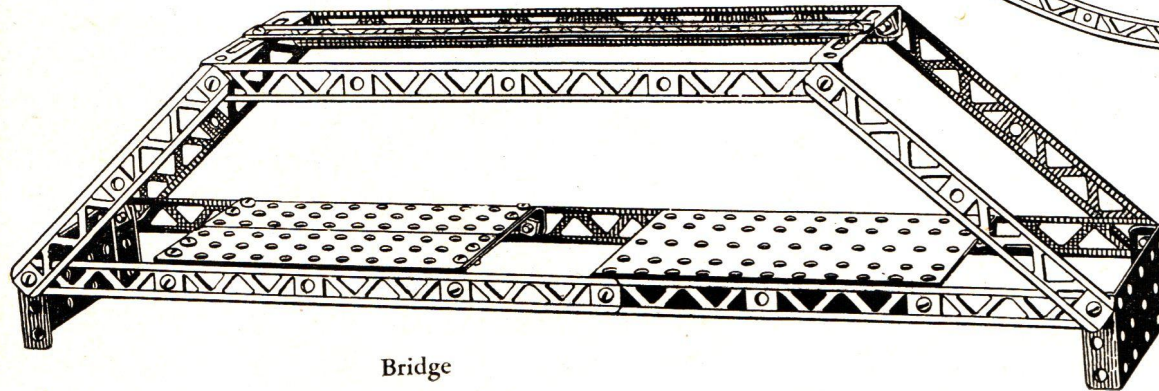
# Models Built with No. 2½ and 3 Erector



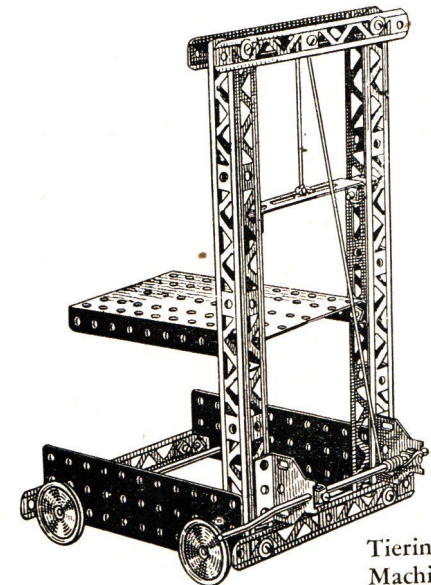
Inclined Railroad



Foot Bridge



Bridge

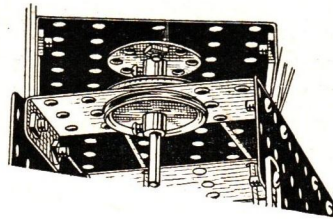


Tiering Machine

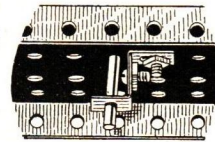


## Models Built with No. 2½ and 3 Erector

Detail View Revolving Crane

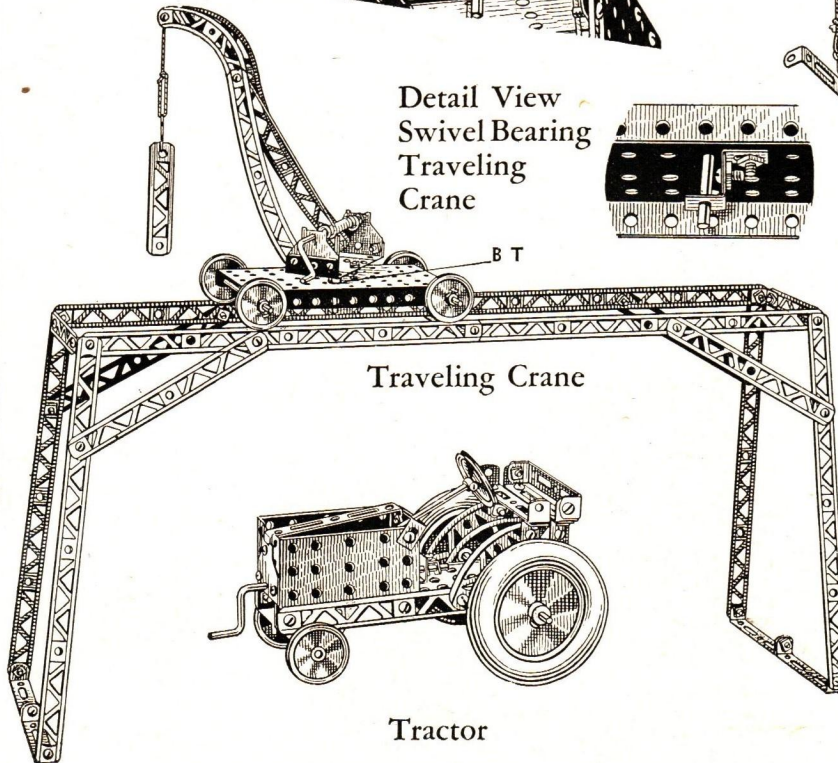


Detail View  
Swivel Bearing  
Traveling  
Crane

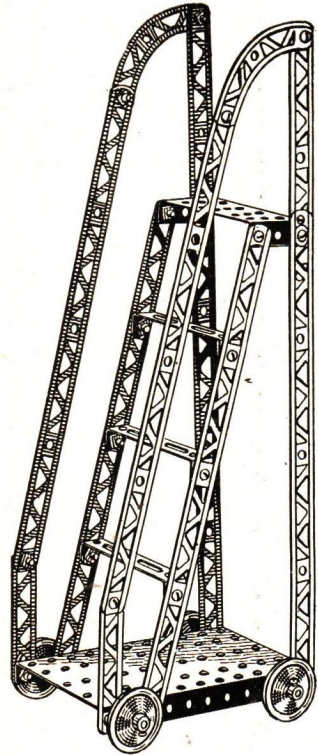


B T

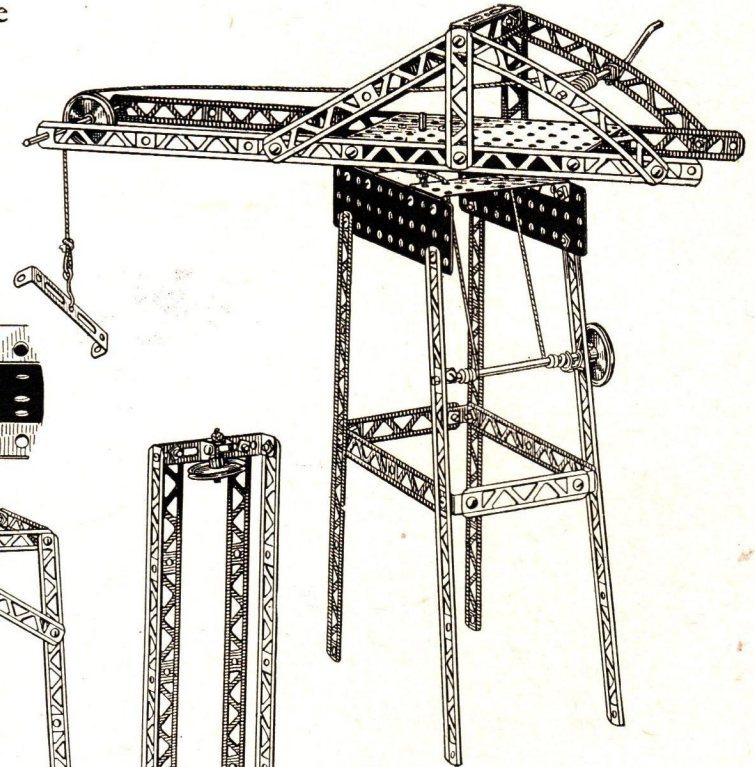
Traveling Crane



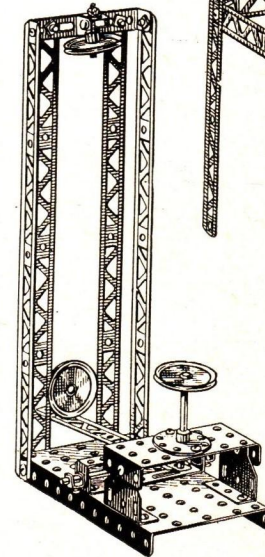
Tractor



Portable Ladder



Revolving Crane

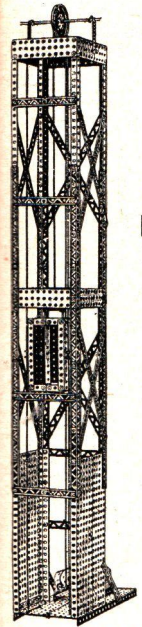


Strength Tester

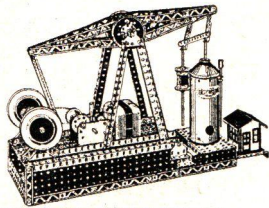


# Models Built with Famous ERECTOR Sets

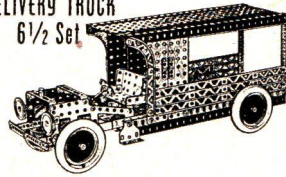
SEC. X



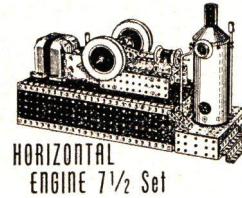
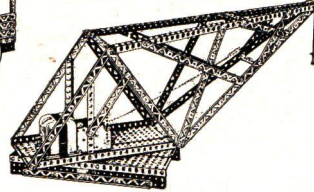
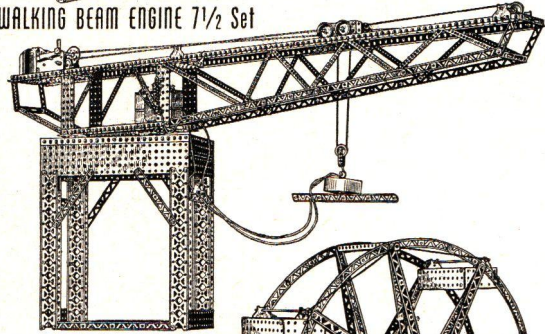
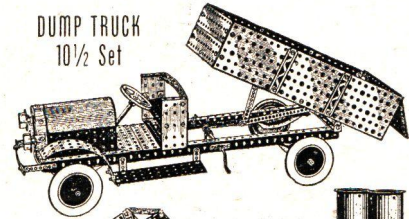
ELEVATOR 8½ Set



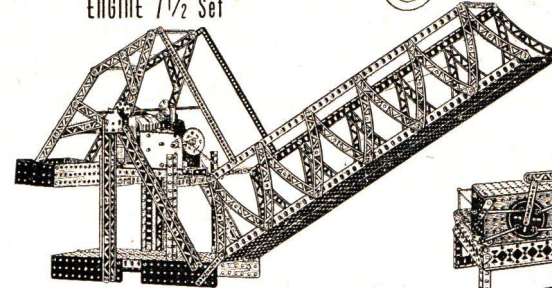
WALKING BEAM ENGINE 7½ Set

DELIVERY TRUCK  
6½ Set

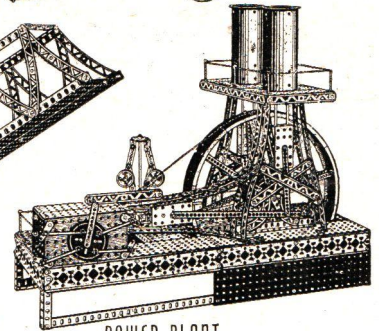
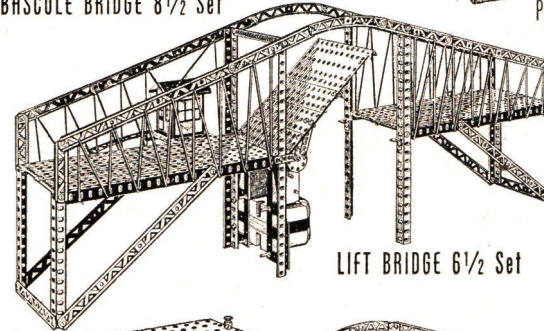
UNLOADING CRANE 6½ Set

HORIZONTAL  
ENGINE 7½ SetDUMP TRUCK  
10½ SetHAMMERHEAD CRANE with  
LIFTING MAGNET 10½ Set

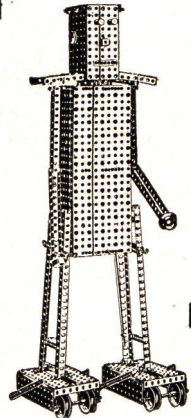
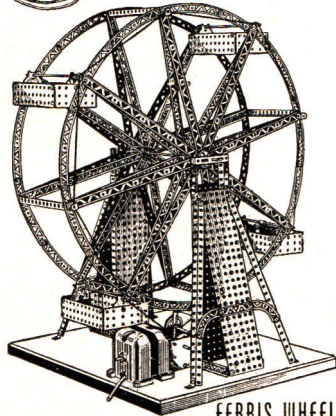
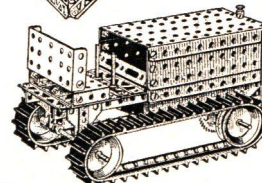
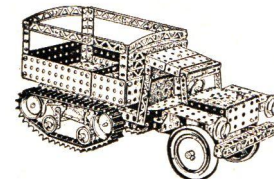
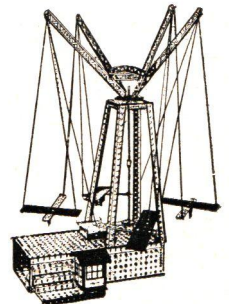
PARACHUTE JUMP 10½ Set



BASCULE BRIDGE 8½ Set

POWER PLANT  
10½ Set

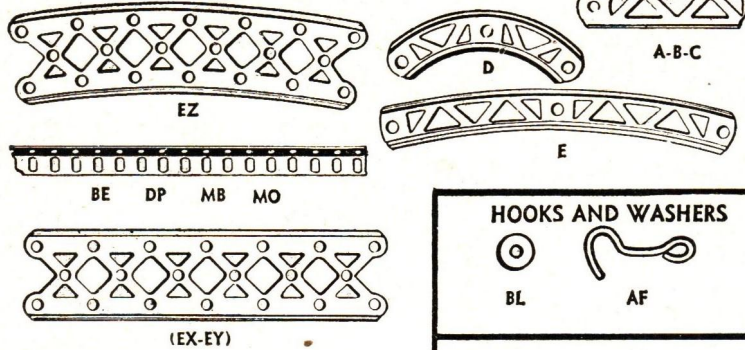
LIFT BRIDGE 6½ Set

MYSTERIOUS  
WALKING GIANT  
12½ SETFERRIS WHEEL  
8½ SetCATERPILLAR TRACTOR  
12½ SETHALF TRACK  
12½ SETAIRPLANE RIDE  
4½ Set



## ERECTOR SEPARATE PARTS

## GIRDERS



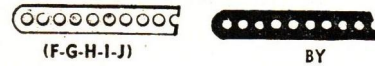
## HOOKS AND WASHERS



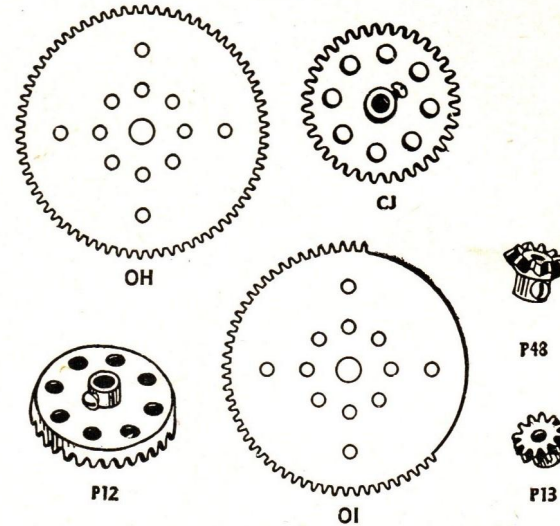
## COLLARS AND COUPLINGS



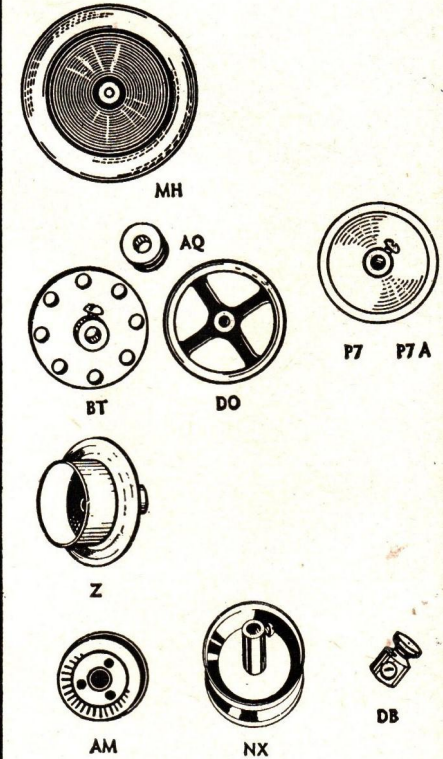
## PERFORATED STRIPS



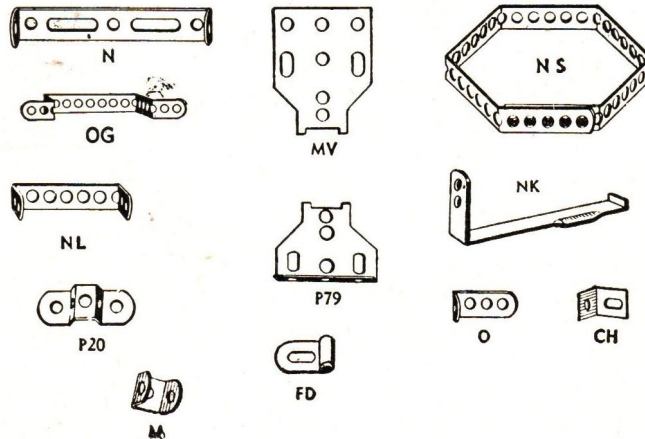
## GEARS



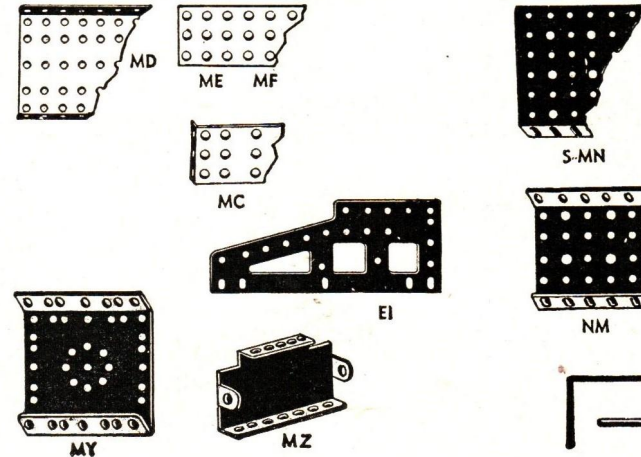
## WHEELS, DRUMS, DISCS AND PULLEYS



## ANGLES AND ANGLE PIECES



## BASE PLATES



## CRANK



## AXLE RODS AND SHAFING

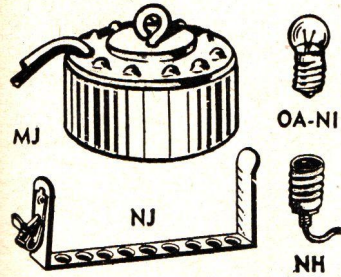
NY-CX-P57A-AS-AT-CY-P57D-CZ-P57E-DA-P57F-AX



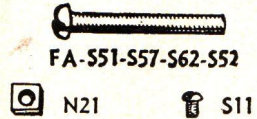
# ERECTOR SEPARATE PARTS

3

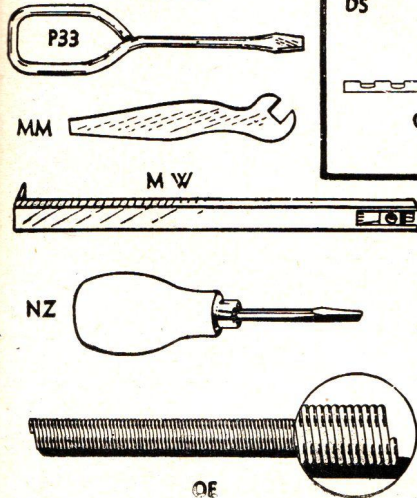
## ELECTRICAL ACCESSORIES



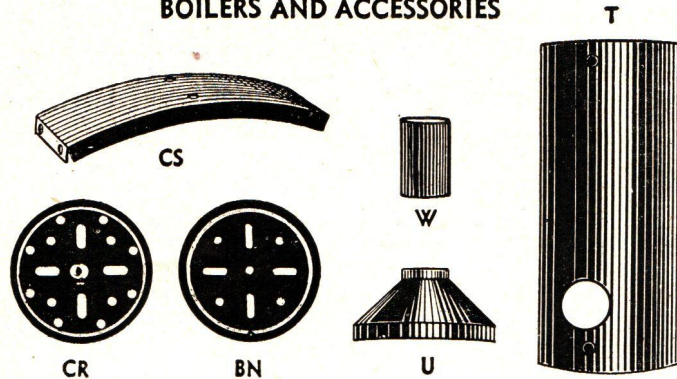
## SCREWS AND NUTS



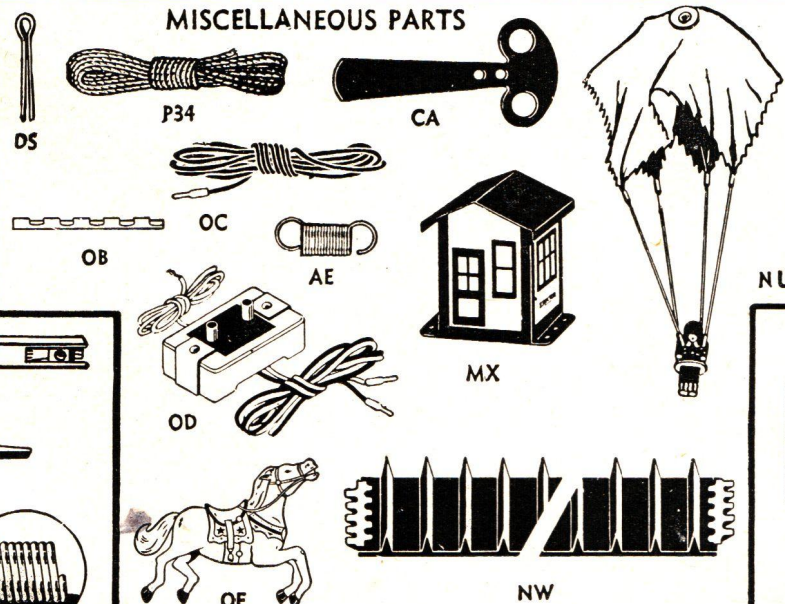
## TOOLS



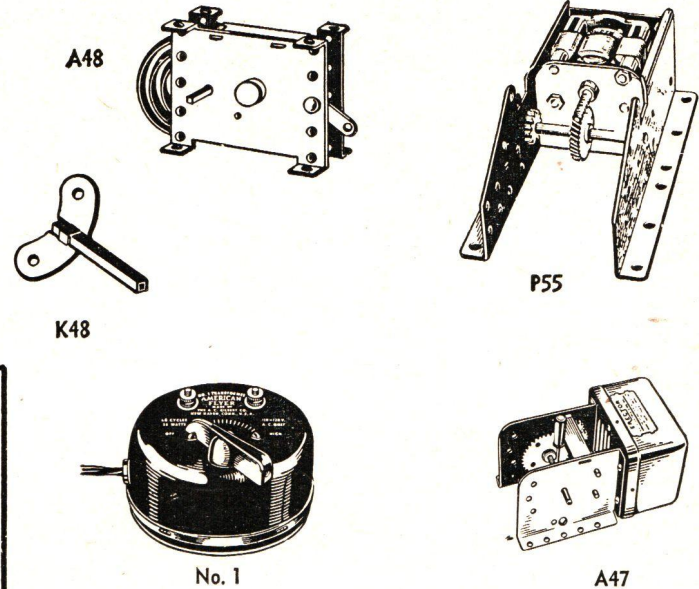
## BOILERS AND ACCESSORIES



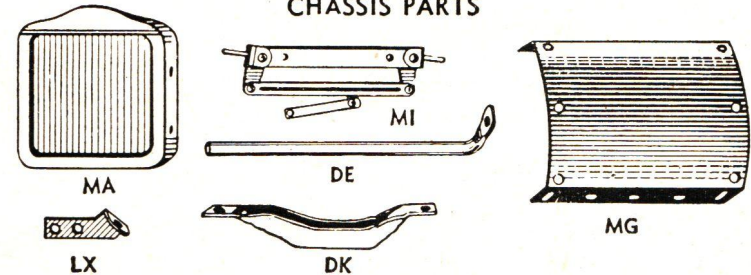
## MISCELLANEOUS PARTS



## MOTORS AND HOISTING UNITS



## CHASSIS PARTS





## ERECTOR SEPARATE PARTS PRICES

## KINDLY ENCLOSE CHECK, MONEY ORDER OR STAMPS WITH YOUR ORDER FOR PARTS

THE A. C. GILBERT CO., NEW HAVEN, CONN., U. S. A.

Trade No.	Name of Part	Page	Price	Trade No.	Name of Part	Page	Price	Trade No.	Name of Part	Page	Price	Trade No.	Name of Part	Page	Price
*N21	8-32 Square Nut	3..	.10 doz.	AA	Eccentric Crank	2..	.10 ea.	MA	Radiator	3..	.25 ea.	A47	Electric Engine, gear shift		
P7	Small Wheel, 7/8" Dia.	2..	.10 ea.	AE	Spiral Spring	3..	.05 ea.	MB	18 1/2" Angle Girder	2..	.25 ea.		110v. A.C. only	3..	5.50 ea.
P7A	Small Wheel, 1 1/8" Dia.	2..	.10 ea.	AF	Small Hook	2..	.15 doz.	MC	Base Plate 1" x 2 1/2"	2..	.05 ea.				
P12	Crown Gear	2..	.15 ea.	AM	Special Pulley—Metal	2..	.05 ea.	MD	Base Plate 2 1/2" x 5"	2..	.10 ea.	P55	7-15 Volt Erector Motor		
P13	12-Tooth Pinion Gear,			AQ	Sheave Pulley	2..	.05 ea.	ME	Base Plate 1" x 4"	2..	.05 ea.		A.C. or D.C.	3..	6.50 ea.
	1/8"	2..	.10 ea.	AS	2 7/8" Axle Rod	2..	.03 ea.	MF	Base Plate 1" x 5"	2..	.05 ea.				
P13B	12-Tooth Pinion Gear,			AT	4" Axle Rod	2..	.04 ea.	MG	Radiator Hood	3..	.20 ea.				
	7/32"	2..	.10 ea.					MH	Nickle Rim, 3" Disc						
P15	Coupling	2..	.10 ea.	BE	6" Angle Girder	2..	.50 doz.	MI	Wheel	2..	.25 ea.				
P20	Five Hole Strip—formed	2..	.10 ea.	BH	Solid Collar	2..	2 for .10	MJ	Front Axle Unit	3..	.45 ea.	1	Transformer	3..	4.95 ea.
P24	Crank	2..	.10 ea.	BL	Small Washer	2..	.05 doz.		Electro Magnet with						
P33	Small Screw Driver	3..	.10 ea.	BN	Regular Turret Plate	3..	.15 ea.	MM	Cord	3..	1.10 ea.				
P34	Hank of String	3..	.10 ea.	BT	Pierced Disc	2..	.10 ea.	MN	Wrench	3..	.05 ea.				
P37	Collar	2..	.25 doz.	BY	11-Hole Fibre Strip	2..	.05 ea.	MO	12" Base Plate	2..	.40 ea.				
P48	Mitre Gear	2..	.20 ea.					MV	3" Angle Girder	2..	.30 doz.				
P57A	2 1/8" Axle	2..	.02 ea.					MW	Flat Car Truck	2..	.05 ea.				
P57D	6" Axle	2..	.06 ea.					MX	Nut Holder	3..	.10 ea.				
P57E	8" Axle	2..	.08 ea.					MY	House	3..	.35 ea.				
P57F	12" Axle	2..	.12 ea.					MZ	2 1/2" x 2 1/2" Base Plate	2..	.05 ea.				
P79	Car Truck	2..	.05 ea.						Bearing Block	2..	.10 ea.				
				CA	Signal Arm	3..	.10 ea.								
				CH	Right Angle	2..	.10 doz.								
				CJ	36-Tooth Gear	2..	.20 ea.								
				CR	Special Turret Plate										
					with hub	3..	.20 ea.	NH	Lamp Socket Unit	3..	.20 ea.				
*S11	Set Screw	3..	.05 doz.	CS	Wheel Segment	3..	.15 ea.	NI	Bulb—1 1/2 Volt	3..	.10 ea.				
*S51	1/4" x 8-32 Screw	3..	.10 doz.	CZ	7" Axle Rod	2..	.07 ea.	NJ	Battery Holder	3..	.15 ea.				
*S52	1/2" x 8-32 Screw	3..	.10 doz.					NK	Ratchet	2..	.05 ea.				
*S57	1 3/8" x 8-32 Screw	3..	.15 doz.					NL	Bolster Bracket	2..	2 for .05				
*S62	7/8" x 8-32 Screw	3..	.10 doz.					NM	10" x 2" Flange Plate	2..	.40 ea.				
*FA	1 3/4" x 8-32 Screw	3..	.15 doz.					NS	41 Hole strip—formed	2..	.10 ea.				
				DA	10" Axle Rod	2..	.10 ea.	NU	Parachute	3..	.35 ea.	No. 2 1/2	Erector How To Make 'Em Book		.25 ea.
A	2 1/2" Girder	2..	.20 doz.	DB	Motor Pulley	2..	.10 ea.	NW	Belt and Clip Unit	3..	.25 ea.	No. 4 1/2	Erector How To Make 'Em Book		.25 ea.
B	5" Girder	2..	.35 doz.	DE	Steering Column	3..	.15 ea.	NX	Tread Pulley	2..	.20 ea.	No. 6 1/2	Erector How To Make 'Em Book		.35 ea.
C	10" Girder	2..	.50 doz.	DK	Flat Spring	3..	.10 ea.	NY	3 1/8" Axle Rod	2..	.03 ea.	No. 7 1/2	Erector How To Make 'Em Book		.35 ea.
D	2 1/2" Curved Girder	2..	.25 doz.	DO	Steering Wheel with Hub	2..	.15 ea.	NZ	Wood Handle Screw-			No. 8 1/2	Erector How To Make 'Em Book		.40 ea.
E	5" Curved Girder	2..	.40 doz.	DP	12" Angle Girder	2..	6 for .50		driver	3..	.20 ea.	No. 10 1/2	Erector How To Make 'Em Book		.60 ea.
F	5 Hole Strip	2..	.10 doz.	DS	Cotter Pin	3..	.05 doz.					No. 12 1/2	Erector How To Make 'Em Book		.75 ea.
G	7 Hole Strip	2..	.10 doz.					OA	Bulb—18 Volt	3..	.30 ea.				
H	11 Hole Strip	2..	.15 doz.	EI	Standard Gear Box Side			OB	Tread Pin	3..	.10 ea.				
I	21 Hole Strip	2..	.20 doz.		Plate	2..	.15 ea.	OC	Single Wire and Plug						
J	41 Hole Strip	2..	.50 doz.	EX	Big Channel Girder 12"	2..	6 for .50	OD	Unit	3..	.10 ea.	No. IE	Erector Square Girder Kit		\$1.00 ea.
M	Small Double Angle	2..	.25 doz.	EY	Big Channel Girder 6"	2..	.05 ea.	OE	Control Box with wires	3..	1.50 ea.	No. 5	Erector Illumination Kit		1.95 ea.
N	Long Double Angle	2..	.05 ea.	EZ	Big Channel Curved			OH	6" Flexible Coupling	3..	.15 ea.				
O	Pawl	2..	.05 ea.		Girder 6"	2..	.10 ea.	OI	72 Tooth Gear	3..	.18 ea.				
S	Large Base Plate—							OF	Segment of 72 Tooth Gear	3..	.21 ea.				
	21 holes	2..	.40 ea.					OG	Horse	3..	.23 ea.				
T	Boiler	3..	.30 ea.	FD	Hinged Loop	2..	2 for .10		21 Hole Strip-Formed	3..	.06 ea.				
U	Boiler Top	3..	.20 ea.												
W	Stack	3..	.05 ea.												
Z	Flanged Wheel			LX	Steering Column Bracket	3..	.10 ea.								
	1 5/16" Dia.	2..	.15 ea.					A48	Mechanical Motor	3..	1.75 ea.				
								K48	Key for Mechanical						
									Motor	3..	.20 ea.				

## NOTE

\*N21 Nut used with screws S51, S52, S57, S62, FA  
 \*S11 Set Screw used with pulleys, couplings, etc.

ERECTOR  
HOW TO MAKE 'EM BOOKS

Same as copy included in Sets

			Price
No. 2 1/2	Erector How To Make 'Em Book		.25 ea.
No. 4 1/2	Erector How To Make 'Em Book		.25 ea.
No. 6 1/2	Erector How To Make 'Em Book		.35 ea.
No. 7 1/2	Erector How To Make 'Em Book		.35 ea.
No. 8 1/2	Erector How To Make 'Em Book		.40 ea.
No. 10 1/2	Erector How To Make 'Em Book		.60 ea.
No. 12 1/2	Erector How To Make 'Em Book		.75 ea.

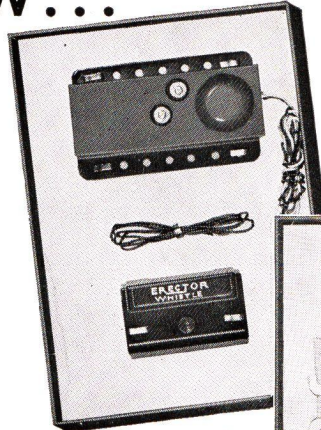
## ERECTOR KITS

No. IE	Erector Square Girder Kit		\$1.00 ea.
No. 5	Erector Illumination Kit		1.95 ea.



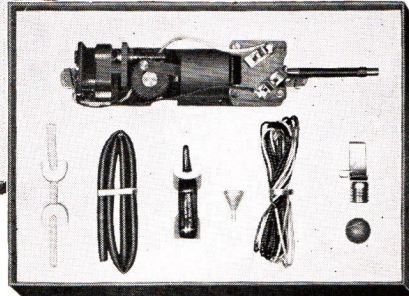
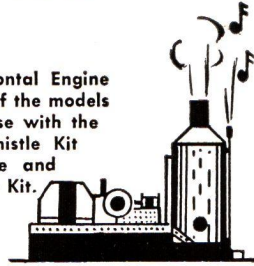
# FASCINATING FUN WITH THESE ERECTOR ACCESSORIES!

NEW...



**No. 6 ERECTOR WHISTLE KIT**  
Sound whistle signals for trains, or communicate by Morse Code with the gang in your neighborhood! Can be used with any Erector Set, but a 7-15 volt Transformer is necessary. Kit includes Whistle unit, control box, power leads and instructions.

This Horizontal Engine is typical of the models you can use with the Erector Whistle Kit and Smoke and Choo-Choo Kit.

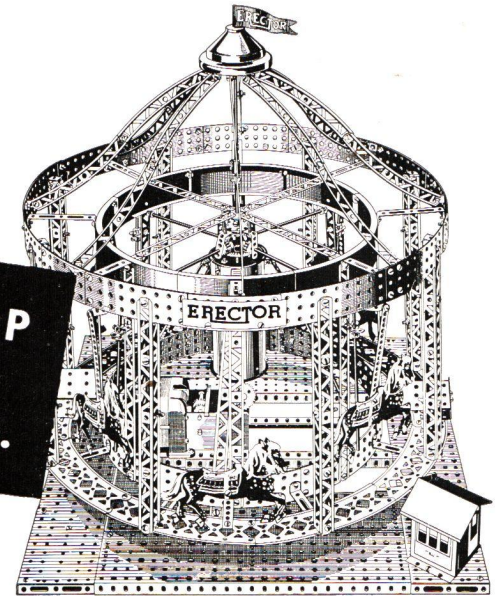


**No. 7 ERECTOR SMOKE AND CHOO-CHOO KIT**

You can not only have puffing Smoke and realistic Choo-Choo, but actually build a life-like firebox glow right into the boiler of your model! Kit can be used on Erector Set 7½ and up, but 7-15 volt Transformer is necessary to operate Smoke unit.

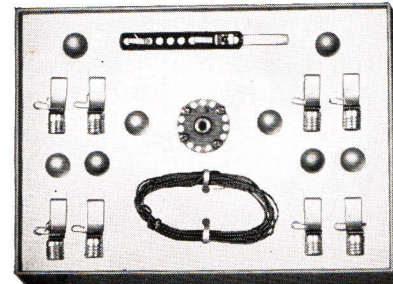
Your Erector models take on new realism and fun when you connect them with specially-designed Accessories like the four illustrated on this page. With the Illumination Kit you can make many of your models a blaze of light; your Whistle Kit will sound warning blasts on bridges and cranes. The Smoke and Choo-Choo Kit will produce spectacular results that will amaze your friends. And you'll find the Square Girder Kit invaluable in making bigger bridges, higher towers and other models.

**LIGHT UP  
MODELS  
LIKE THIS...**



**No. 5 ERECTOR ILLUMINATION KIT**

A real "must" for any Erector Set! Can be used to light up colored lamps on your Erector models in a variety of spectacular ways. Lights can be stationary, revolving or blinking. Kit contains 4 red and 4 green bulbs, 8 light sockets, 8 feet of plastic-covered wire, commutator and brush unit. 7-15 volt Transformer necessary. For all Erector Sets.



**BUILD BIGGER BRIDGES**



**AND TOWERS . . .**

**No. 1E ERECTOR SQUARE GIRDER KIT**

Make your Towers higher, your Bridges and other models larger and more massive with this supply of extra girders. Kit contains twenty 10" girders, eight 5" girders plus ample nuts and bolts.



**FUN &  
THRILLS**

**AMERICAN FLYER®**

Developed at the GILBERT HALL OF SCIENCE

**ERECTOR®**

