

# MECCANO



(TRADE MARKS 296321, 12633, 10274)

## INSTRUCTIONS

FOR OUTFITS Nos. 0 to 3

# 1/6

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No. 25A

OVERSEAS EDITION



# A TALK WITH NEW MECCANO BOYS



**M**ECCANO OUTFITS contain accurately-made and highly-finished engineering parts with which every movement known to mechanism may be reproduced in model form. With Meccano you can accomplish more than with any other constructional toy, for no other system has its possibilities. No study is needed to enable you to build models with Meccano—the genius is in the Meccano parts.

You never come to the end of Meccano fun. There is always more ahead—always some new, ingenious and interesting model to build. Each one, as it is completed, "tuned up," and set going, brings a joy and satisfaction beyond anything that you have ever previously experienced.

As you progress in Meccano you obtain a greater variety of parts, Gear-Wheels, Pulley-Wheels, Worm-Wheels, Couplings, Cranks, and all manner of perfectly-made real engineering parts. These enable you to construct complicated mechanical movements without any difficulty. The most

wonderful feature of Meccano is that it is *real engineering*; it is fascinating and delightful and yet so simple that even an inexperienced boy may join in the fun without first having to study or learn anything.

## THE LIFE OF A MECCANO BOY

**A** MECCANO boy is the happiest boy in the world. He builds models from the Meccano Instruction books; invents new models; joins the Meccano Guild and a Meccano Club and by wearing the Guild badge proclaims himself to be the friend of millions of other Meccano boys all over the world. He reads the *Meccano Magazine* regularly and corresponds with his friend the Editor when he feels like it. Time never hangs heavily on his hands and he is too busy and happy to grumble.

The *Meccano Magazine* is the Meccano boy's newspaper. It tells him of the latest Meccano models; what Meccano Clubs are doing; how to correspond with other Meccano boys; the Competitions that are running, etc. It contains interesting articles on engineering and electrical subjects, and deals with many other topics of interest to boys, including suggestions from Meccano boys for new Meccano parts and correspondence columns in which the Editor replies to his readers' enquiries. Write to the Editor, *Meccano Magazine*, Binns Road, Liverpool, England, and he will send you a copy FREE. It is sent regularly to subscribers at the rate of 2/- for six issues, or it may be purchased from any Meccano dealer, price 3d. per copy.





MECCANO GUILD  
CLUB CERTIFICATE.

## THE MECCANO GUILD

THE MECCANO GUILD is an organisation for boys, started at the request of boys and conducted as far as possible by boys. The Guild is a great fraternal organisation of which all Meccano boys should become members, for its primary object is to bring them together. The Guild makes these boys feel that they are all members of a great brotherhood, each trying to help the others to get the very best out of life and it cannot fail to have a profound effect for good on the lives of its members.

## MECCANO CLUBS

MECCANO CLUBS are founded and established under the guidance of the Guild Secretary at Headquarters and at the present time there are active Clubs in over one hundred towns and villages in the United Kingdom and in many countries Overseas. Each Club has its Leader, Secretary, Treasurer, and other officials all of whom, with the exception of the Leader, are boys. Write for information how to form a club, if there is no club near you.

Special awards are given to Club members for good work in connection with their Club and medallions are awarded in connection with the Recruiting Campaign, full particulars of which will be sent on request.

## HOW TO BUILD WITH MECCANO

FOLLOW the instructions closely at first, and build the models just as you see them. Then take each model and try to improve our design. Every model can be made in a dozen different ways. Screw up all the nuts and bolts firmly and you will find that you can play with the trucks, cranes, signals, etc., and obtain many hours of fun.

For convenience Meccano parts are sold in nine Outfits of varying size, numbered 00 to 7. The quality and finish of the parts are of the same high standard throughout the series, but as the Outfits increase in size they contain larger quantities and greater varieties of parts. Each Outfit may be converted into the one next higher by the purchase of an Accessory Outfit (see page 206). Thus, if a No. 2 is the first Outfit bought, it may be converted into a No. 3 by adding to it a No. 2A. A No. 3A would then convert it into a No. 4 and so on up to No. 7. In this way, no matter with what Outfit you commence, you may build it up by degrees to a No. 7.

The separate Meccano parts may be bought at any time in any quantity (see pages 3 and 4).

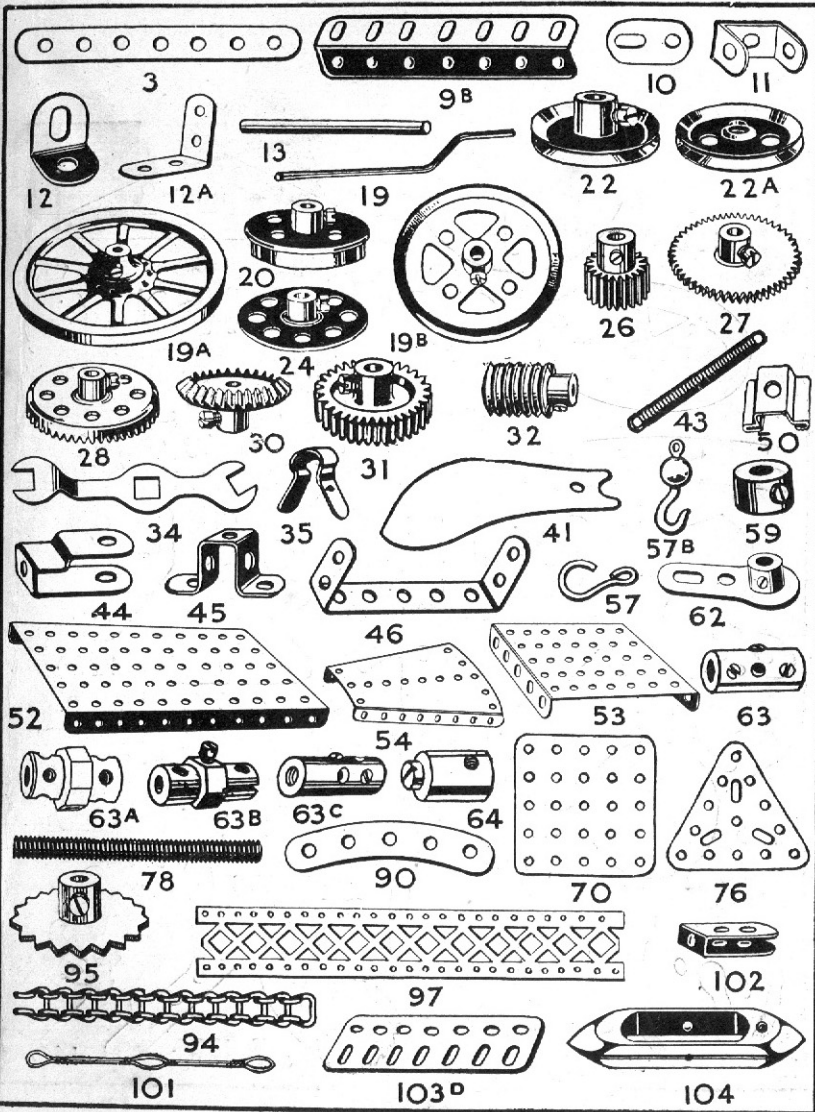


SPECIAL MERIT MEDALLIONS.



RECRUITING MEDALLION.

# Particulars and Prices of Meccano Parts

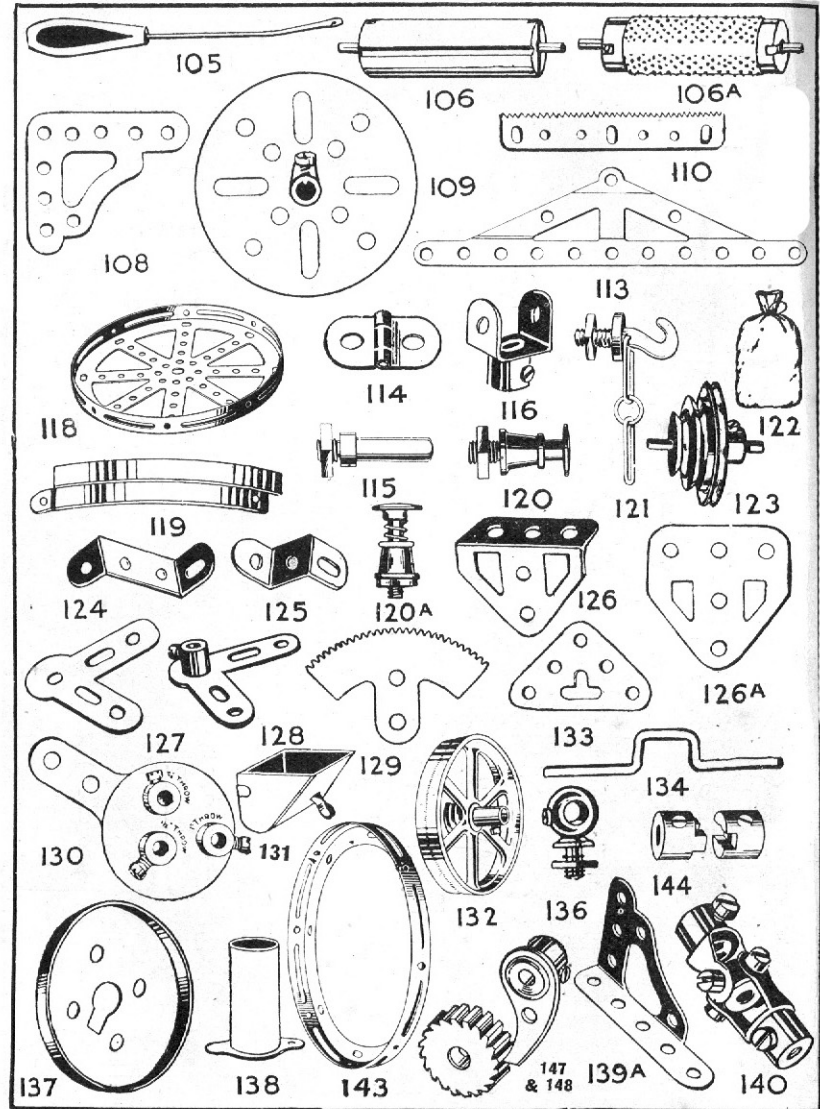


No.	Description	Quantity	s.	d.
1.	Perforated Strips, 12½" long	1 doz.	1	6
1a.	" " " 9½" "	"	1	3
1b.	" " " 7½" "	"	1	0
2.	" " " 5½" "	"	0	9
2a.	" " " 4½" "	"	0	8
3.	" " " 3½" "	"	0	6
4.	" " " 3" "	"	0	5
5.	" " " 2½" "	"	0	5
6.	" " " 2" "	"	0	5
6a.	" " " 1½" "	"	0	5
7.	Angle Girders, 24½" long	each	1	0
7a.	" " " 18½" "	"	0	9
8.	" " " 12½" "	½ doz.	2	9
8a.	" " " 9½" "	"	2	0
8b.	" " " 7½" "	"	1	9
9.	" " " 5½" "	"	1	6
9a.	" " " 4½" "	"	1	3
9b.	" " " 3½" "	"	1	0
9c.	" " " 3" "	"	1	0
9d.	" " " 2½" "	"	1	0
9e.	" " " 2" "	"	0	9
9f.	" " " 1½" "	"	0	9
10.	Flat Brackets	"	0	3
11.	Double Brackets	each	0	1½
12.	Angle Brackets, ½" x ½"	doz.	0	9
12a.	" " " 1" x 1"	each	0	1½
12b.	" " " 1" x ½"	"	0	1½
13.	Axle Rods, 11½" long	"	0	5
13a.	" " " 8" "	"	0	5
14.	" " " 6½" "	"	0	3
15.	" " " 5" "	"	0	3
15a.	" " " 4½" "	"	0	2
16.	" " " 3½" "	"	0	2
16a.	" " " 2½" "	"	0	2
16b.	" " " 3" "	"	0	2
17.	" " " 2" "	"	0	2
18a.	" " " 1½" "	"	0	2
18b.	" " " 1" "	"	0	1½
19.	Crank Handles	"	0	5
19a.	Wheels, 3" diam., with set screws	"	1	0
20.	Flanged Wheels	"	0	9
Pulley Wheels.				
19b.	3" dia. with centre boss and set screw	"	1	0
19c.	6" " " " " " " " " " " "	"	3	9
20a.	2" " " " " " " " " " " "	"	0	9
21.	1½" " " " " " " " " " " "	"	0	9
22.	1" " " " " " " " " " " "	"	0	6
22a.	½" " " " " " " " " " " "	"	0	6
23.	1" " without " " " " " " "	"	0	3
23.	½" " " " " " " " " " " "	"	0	3

No.	Description	Quantity	s.	d.
24.	Bush Wheels	each	0	9
25.	Pinion Wheels, ¾" diam.	"	0	9
26.	" " ½" diam.	"	0	6
Gear Wheels.				
27.	50 teeth to gear with ¾" pinion	"	1	3
27a.	57 " " ½" "	"	1	3
27b.	133 " (3½" diam.) to gear with ½" pinion	"	2	3
28.	Contrate Wheels, 1½" diam.	"	1	3
29.	" " " " " " " " " " "	"	0	9
30.	Bevel Gears	"	1	3
31.	Gear Wheels, 1", 38 teeth	"	1	6
32.	Worm Wheels	"	0	9
34.	Spanners	"	0	3
34b.	Box Spanners	"	0	5
35.	Spring Clips	per box (doz.)	0	5
36.	Screw Drivers	each	0	5
36a.	" " Extra Long	"	0	9
37.	Nuts and Bolts	per box (doz.)	0	9
37a.	Nuts	"	0	5
37b.	Bolts, 7/32"	"	0	5
38.	Washers	"	0	2
40.	Hanks of Cord	each	0	3
41.	Propeller Blades	per pair	0	6
43.	Springs	each	0	3
44.	Cranked Bent Strips	"	0	2
45.	Double Bent Strips	"	0	2
46.	Double Angle Strips, 2½" x 1"	½ doz.	0	9
47.	" " " 2½" x 1½"	"	1	3
47a.	" " " 3" x 1½"	"	1	6
48.	" " " 1½" x ½"	"	0	6
48a.	" " " 2½" x ½"	"	0	8
48b.	" " " 3½" x ½"	"	0	9
48c.	" " " 4½" x ½"	"	1	3
48d.	" " " 5½" x ½"	"	1	3
50.	Eye Pieces	each	0	3
52.	Perforated Flanged Plates, 5½" x 2½"	"	0	8
52a.	Flat Plates, 5½" x 3½"	"	0	8
53.	Perforated Flanged Plates, 3½" x 2½"	"	0	5
53a.	Flat Plates, 4½" x 2½"	"	0	5
54.	Perforated Flanged Sector Plates	"	0	5
55.	Perforated Strips, slotted, 5½" long	"	0	3
55a.	" " " 2" "	"	0	2
56.	Instruction Manuals, Complete	"	3	6
56a.	" " No. 0-3	"	1	6
56b.	" " No. 0	"	0	6
57.	Hooks	"	0	2
57a.	" (scientific)	"	0	2
57b.	" Loaded	"	0	8
58.	Spring Cord	per length	1	3
59.	Collars with Set Screws	each	0	3
61.	Windmill Sails	"	0	3

## Particulars and Prices of Meccano Parts (continued)

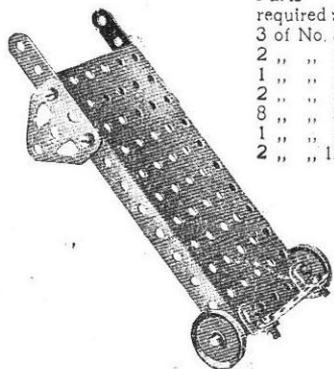
No.		s. d.	No.		s. d.
62.	Cranks ... ..	each 0 5	104.	Shuttles, for looms ... ..	each 6 0
62a.	Threaded Cranks ... ..	" 0 6	105.	Reed Hooks, for looms... ..	" 0 6
63.	Couplings ... ..	" 0 9	106.	Wood Rollers ... ..	" 2 0
63a.	Octagonal Couplings ... ..	" 1 0	106a.	Sand Rollers ... ..	" 2 3
63b.	Strip Couplings ... ..	" 1 0	107.	Tables for Designing Machines ... ..	" 1 6
63c.	Threaded Couplings ... ..	" 0 9	108.	Architraves ... ..	" 0 3
64.	Threaded Bosses ... ..	" 0 3	109.	Face Plates, 2½" diam. ... ..	" 0 6
65.	Centre Forks ... ..	" 0 3	110.	Rack Strips, 3½" ... ..	" 0 3
66.	Weights, 50 grammes ... ..	" 1 6	111.	Bolts, ¾" ... ..	" 0 1½
67.	" 25 ... ..	" 1 6	111a.	" ½" ... ..	2 for 0 1½
68.	Woodscrews, ½" ... ..	doz. 0 5	113.	Girder Frames ... ..	each 0 3
69.	Set Screws ... ..	" 0 6	114.	Hinges ... ..	per pair 0 6
69a.	Grub Screws, 5/32" ... ..	" 0 6	115.	Threaded Pins ... ..	each 0 3
69b.	" 7/32" ... ..	" 0 9	116.	Fork Pieces ... ..	0 5
70.	Flat Plates, 5½" x 2½" ... ..	each 0 5	117.	Steel Balls, ⅜" diam. ... ..	doz. 0 9
72.	" 2½" x 2½" ... ..	" 0 3	118.	Hub Discs, 5½" diam. ... ..	each 1 9
76.	Triangular Plates, 2½" ... ..	" 0 3	119.	Channel Segments (8 to circle, 11½" diam.) ... ..	" 0 6
77.	" 1" ... ..	" 0 2	120.	Buffers ... ..	" 0 3
78.	Screwed Rods, 11½" ... ..	" 0 9	120a.	Spring Buffers ... ..	per pair 1 0
79.	" 8" ... ..	" 0 8	121.	Train Couplings ... ..	each 0 6
79a.	" 6" ... ..	" 0 6	122.	Miniature Loaded Sacks ... ..	" 0 3
80.	" 5" ... ..	" 0 5	123.	Cone Pulleys ... ..	" 2 0
80a.	" 3½" ... ..	" 0 5	124.	Reversed Angle Brackets, 1" ... ..	½ doz. 1 3
80b.	" 4½" ... ..	" 0 5	125.	" ½" ... ..	" 0 9
81.	" 2" ... ..	" 0 3	126.	Trunnions ... ..	each 0 4
82.	" 1" ... ..	" 0 2	126a.	Flat Trunnions ... ..	" 0 3
89.	Curved Strips, 5½" ... ..	" 0 3	127.	Simple Bell Cranks ... ..	" 0 4
90.	" 2½" ... ..	" 0 2	128.	Boss Bell Cranks ... ..	" 0 6
94.	Sprocket Chain ... ..	per 40" length 0 9	129.	Rack Segments, 3" diam. ... ..	" 0 9
95.	Sprocket Wheels, 2" diam. ... ..	each 0 8	130.	Triple Throw Eccentrics ... ..	" 2 0
95a.	" 1½" ... ..	" 0 6	131.	Dredger Buckets ... ..	" 0 3
95b.	" 3" ... ..	" 0 9	132.	Plywheels, 2½" diam. ... ..	" 3 6
96.	" 1" ... ..	" 0 5	133.	Corner Brackets ... ..	" 0 5
96a.	" ¾" ... ..	" 0 5	134.	Crank Shafts, 1" stroke ... ..	" 0 5
97.	Braced Girders, 3½" long ... ..	½ doz. 1 3	135.	Theodolite Protractors ... ..	" 0 4
98.	" 2½" ... ..	" 0 9	136.	Handrail Supports ... ..	" 0 5
99.	" 12½" ... ..	" 2 9	137.	Wheel Flanges ... ..	" 0 6
99a.	" 9½" ... ..	" 2 6	138.	Ship's Funnels ... ..	" 0 6
100.	" 5½" ... ..	" 1 6	139.	Flanged Brackets (right) ... ..	" 0 3
101.	Healds, for looms ... ..	doz. 1 3	139a.	" (left) ... ..	" 0 3
102.	Single Bent Strips ... ..	each 0 2	140.	Universal Couplings ... ..	" 1 3
103.	Flat Girders, 5½" long ... ..	½ doz. 1 6	141.	Wire Lines (for suspending clock weights) ... ..	" 1 0
103a.	" 9½" ... ..	" 2 3	142.	Rubber Rings ... ..	" 0 6
103b.	" 12½" ... ..	" 3 0	143.	Circular Girders, 5½" diam. ... ..	" 1 6
103c.	" 4½" ... ..	" 1 3	144.	Dog Clutches ... ..	" 0 9
103d.	" 3½" ... ..	" 1 0	145.	Circular Strips, 7" diam. over all ... ..	" 1 6
103e.	" 3" ... ..	" 0 9	146.	Circular Plates, 6" diam. ... ..	" 1 9
103f.	" 2½" ... ..	" 0 8	147.	Pawls ... ..	" 0 5
103g.	" 2" ... ..	" 0 6	148.	Ratchet Wheels ... ..	" 1 3
103h.	" 1½" ... ..	" 0 5			
103k.	" 7½" ... ..	" 2 0			



As new parts are frequently added to the Meccano system the foregoing list is not necessarily complete. The latest illustrated list should be obtained from your dealer, or from Meccano, Ltd., Liverpool, England.

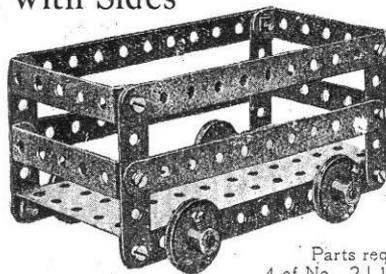
# Trucks and Luggage Carts

Model No. 1  
Flat Truck



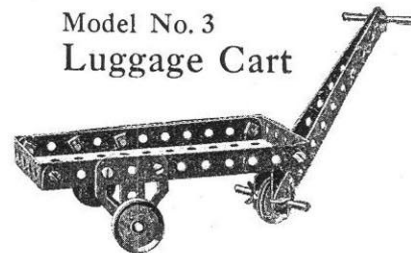
Parts  
required:  
3 of No. 5  
2 " " 12  
1 " " 16  
2 " " 22  
8 " " 37  
1 " " 52  
2 " " 126A

Model No. 2  
Truck with Sides



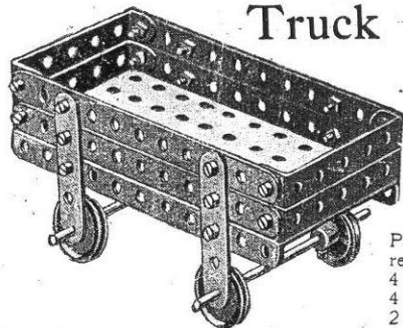
Parts required:  
4 of No. 2 | 12 of No. 37  
4 " " 5 | 4 " " 48A  
2 " " 16 | 1 " " 52  
4 " " 22

Model No. 3  
Luggage Cart



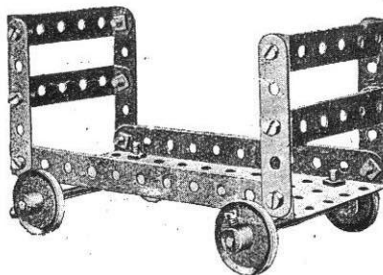
Parts required:  
2 of No. 2 | 9 of No. 37  
1 " " 16 | 1 " " 44  
2 " " 17 | 2 " " 48A  
3 " " 22 | 1 " " 52  
4 " " 35 | 2 " " 126A

Model No. 4  
Truck



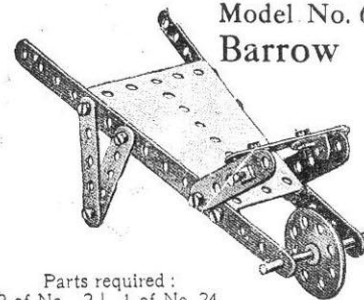
Parts  
required:  
4 of No. 2  
4 " " 5  
2 " " 16  
4 " " 22  
16 " " 37  
4 " " 48A  
1 " " 52

Model No. 5  
Luggage Truck



Parts required:  
4 of No. 5 | 16 of No. 37  
2 " " 16 | 4 " " 48A  
4 " " 22 | 1 " " 52

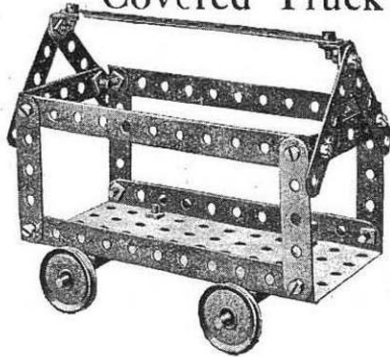
Model No. 6  
Barrow



Parts required:  
2 of No. 2 | 1 of No. 24  
9 " " 5 | 2 " " 35  
2 " " 12 | 14 " " 37  
1 " " 17 | 1 " " 54

Model No. 7

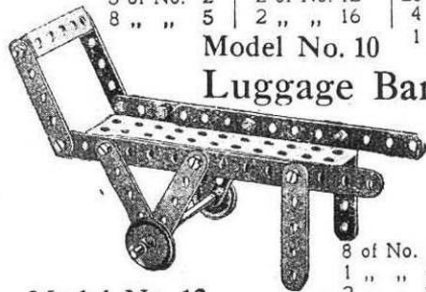
Covered Truck



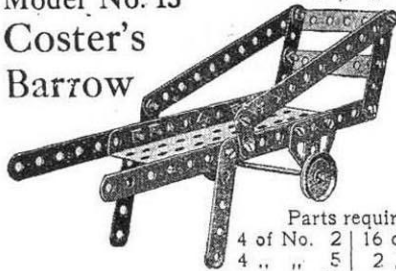
Parts required		
3 of No. 2	2 of No. 12	4 of No. 22
8 " " 5	2 " " 16	20 " " 37
		4 " " 48A
		1 " " 52

Model No. 10

Luggage Barrow



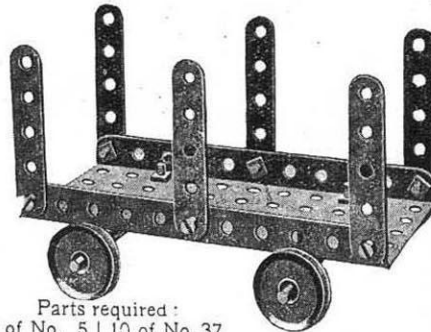
Parts required:		
8 of No. 5	2 of No. 2	10 of No. 37
1 " " 16		1 " " 48A
2 " " 22		1 " " 52

Model No. 13  
Coster's  
Barrow

Parts required:		
4 of No. 2	16 of No. 37	
4 " " 5	2 " " 48A	
1 " " 16	1 " " 52	
2 " " 22	2 " " 126A	

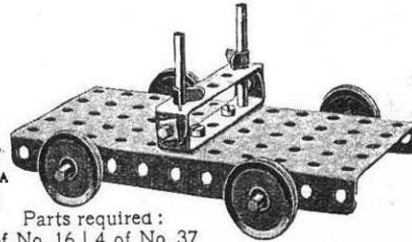
Trucks and Luggage Carts *(continued)*

Model No. 8—Timber Truck



Parts required:	
6 of No. 5	10 of No. 37
2 " " 16	2 " " 48A
4 " " 22	1 " " 52

Model No. 11—Timber Truck

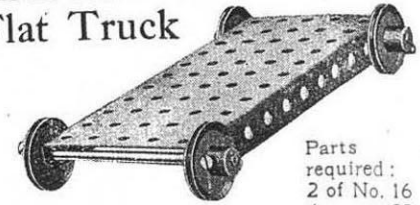


Parts required:	
2 of No. 16	4 of No. 37
2 " " 17	2 " " 48A
4 " " 22	1 " " 52
4 " " 35	

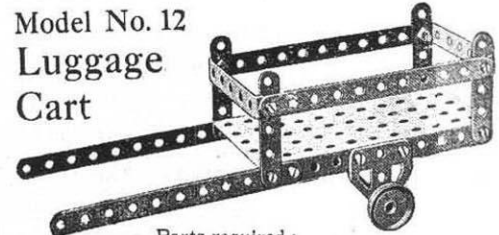
Model No. 14—Timber Drag



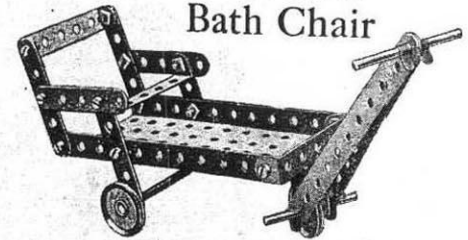
Parts required:		
4 of No. 2	2 of No. 11	8 of No. 37
	2 " " 16	4 " " 48A
	4 " " 22	

Model No. 9  
Flat Truck

Parts required:	
2 of No. 16	
4 " " 22	
1 " " 52	

Model No. 12  
Luggage  
Cart

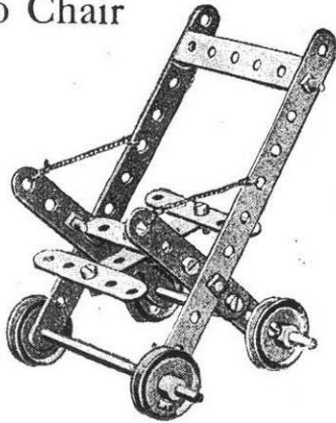
Parts required:	
4 of No. 2	14 of No. 37
4 " " 5	2 " " 48A
1 " " 16	1 " " 52
2 " " 22	2 " " 126A

Model No. 15  
Bath Chair

Parts required:		
1 of No. 16	13 of No. 3	
2 " " 17	1 " " 4	
3 " " 22	1 " " 5	
4 " " 35	3 " " 6	

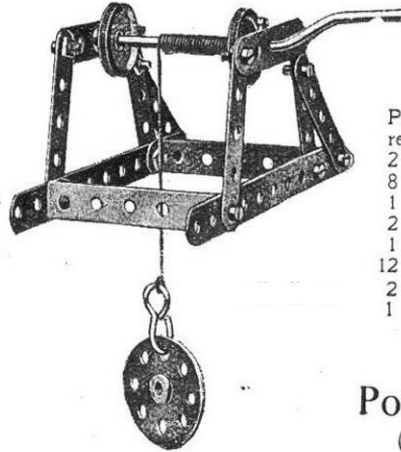


Model No. 16  
Go Chair



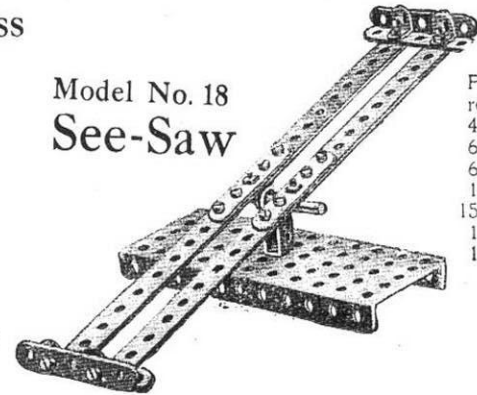
Parts  
required:  
2 of No. 2  
7 " " 5  
2 " " 16  
4 " " 22  
11 " " 37  
2 " " 48A

Model No. 17--Well Windlass



Parts  
required:  
2 of No. 2  
8 " " 5  
1 " " 19  
2 " " 22  
1 " " 24  
12 " " 37  
2 " " 48A  
1 " " 57

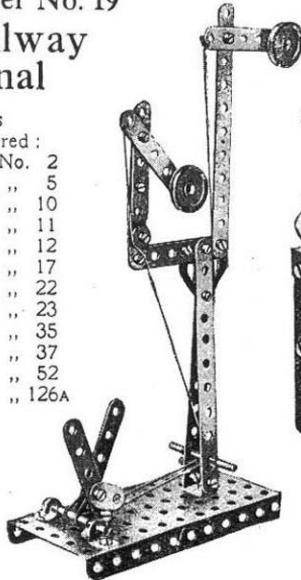
Model No. 18  
See-Saw



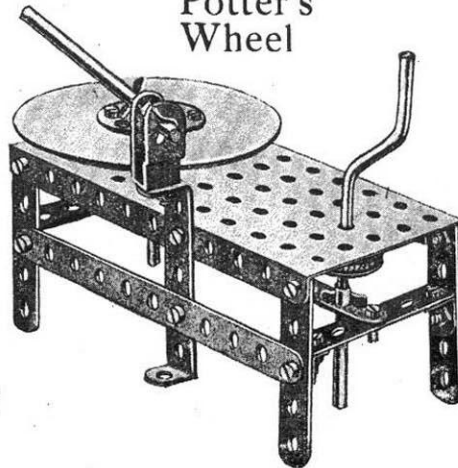
Parts  
required:  
4 of No. 2  
6 " " 5  
6 " " 12  
1 " " 17  
15 " " 37  
1 " " 44  
1 " " 52

Model No. 19  
Railway  
Signal

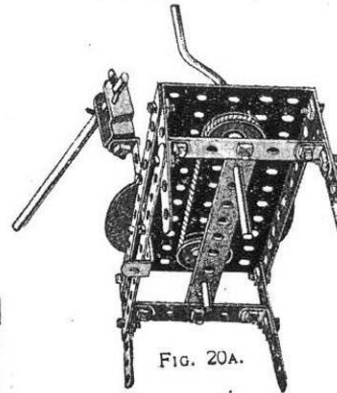
Parts  
required:  
3 of No. 2  
7 " " 5  
2 " " 10  
2 " " 11  
2 " " 12  
2 " " 17  
2 " " 22  
1 " " 23  
4 " " 35  
21 " " 37  
1 " " 52  
1 " " 126A



Model No. 20  
Potter's  
Wheel

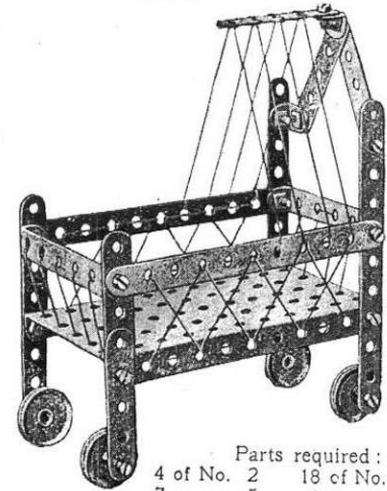


Potter's Wheel  
(underneath view)



Parts required:  
3 of No. 2      2 of No. 35  
4 " " 5      17 " " 37  
1 " " 16      1 " " 44  
1 " " 19      3 " " 48A  
2 " " 22      1 " " 52  
1 " " 24

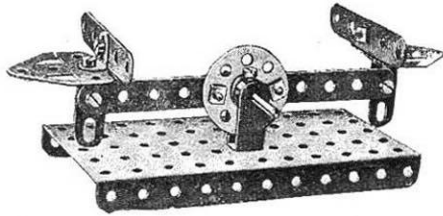
Model No. 21  
Cot



Parts required:  
4 of No. 2      18 of No. 37  
7 " " 5      1 " " 52  
3 " " 12      2 " " 48A  
4 " " 22

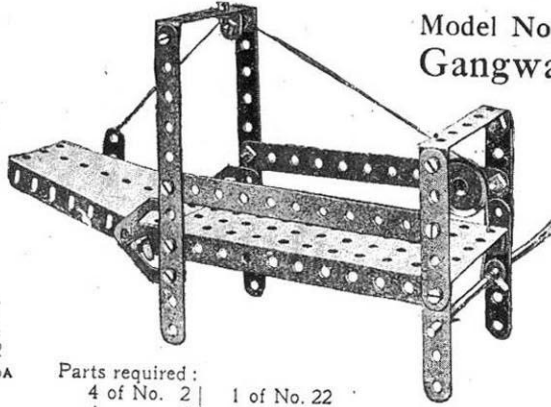
These-Models can be made with MECCANO Outfit No. 0

Model No. 22—Scales



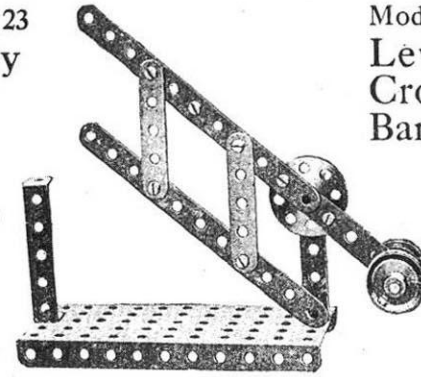
Parts required:		
1 of No. 2	2 of No. 12	9 " " 37
2 " " 5	1 " " 17	1 " " 44
2 " " 10	1 " " 24	1 " " 52
		2 " " 126A

Model No. 23  
Gangway



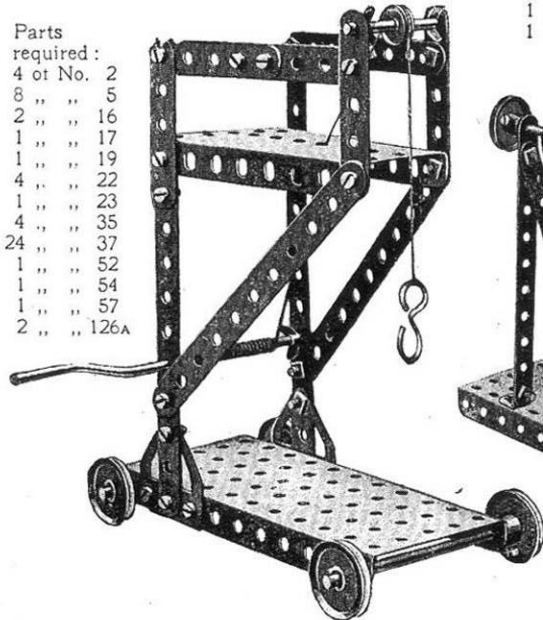
Parts required:		
4 of No. 2	1 of No. 22	
4 " " 5	1 " " 23	
1 " " 10	4 " " 35	
1 " " 12	18 " " 37	
1 " " 16	2 " " 48A	1 of No. 54
1 " " 19	1 " " 52	2 " " 126A

Model No. 24  
Level  
Crossing  
Barrier



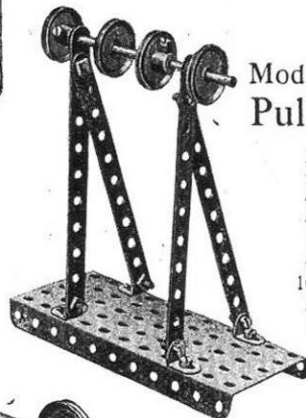
Parts required:	
3 of No. 2	2
2 " " 5	5
1 " " 17	17
4 " " 22	22
1 " " 24	24
10 " " 37	37
2 " " 48A	48A
1 " " 52	52

Model No. 25—Tower Wagon



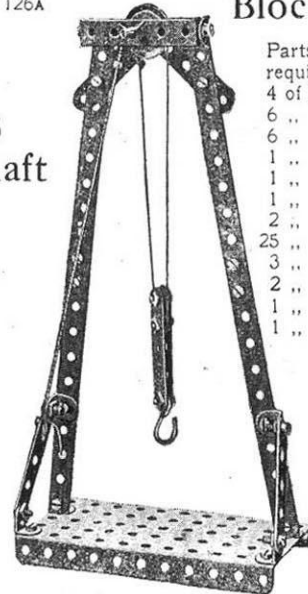
Parts required:	
4 of No. 2	2
8 " " 5	5
2 " " 16	16
1 " " 17	17
1 " " 19	19
4 " " 22	22
1 " " 23	23
4 " " 35	35
24 " " 37	37
1 " " 52	52
1 " " 54	54
1 " " 57	57
2 " " 126A	126A

Model No. 26  
Pulley Shaft



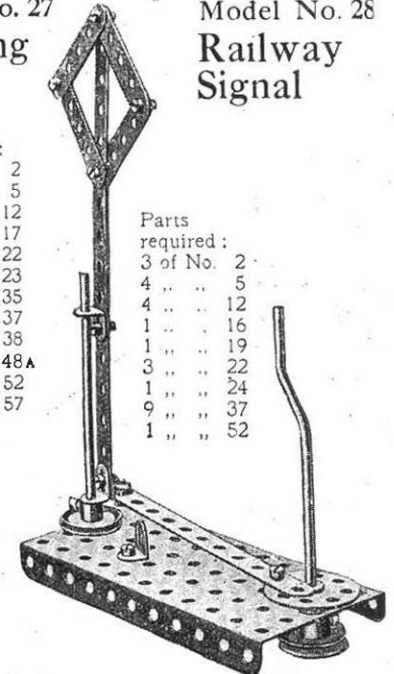
Parts required:	
4 of No. 2	2
4 " " 12	12
1 " " 16	16
4 " " 22	22
10 " " 37	37
2 " " 38	38
1 " " 52	52

Model No. 27  
Hoisting  
Block



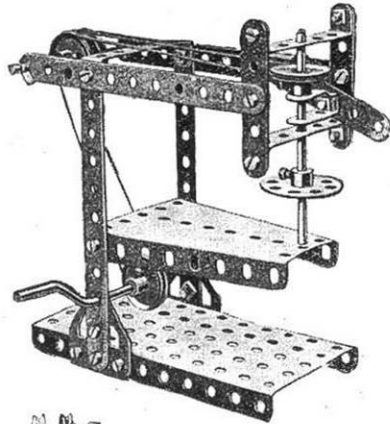
Parts required:	
4 of No. 2	2
6 " " 5	5
6 " " 12	12
1 " " 17	17
1 " " 22	22
1 " " 23	23
2 " " 35	35
25 " " 37	37
3 " " 38	38
2 " " 48A	48A
1 " " 52	52
1 " " 57	57

Model No. 28  
Railway  
Signal



Parts required:	
3 of No. 2	2
4 " " 5	5
4 " " 12	12
1 " " 16	16
1 " " 19	19
3 " " 22	22
1 " " 24	24
9 " " 37	37
1 " " 52	52

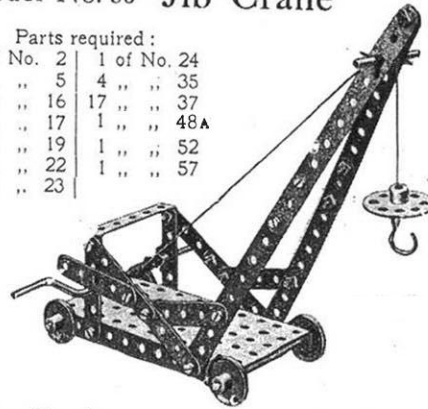
### Model No. 29—Drilling Machine



Parts required:

4 of No. 2	2
3 " " 5	
1 " " 11	
2 " " 16	
1 " " 19	
4 " " 22	
1 " " 24	
4 " " 35	
19 " " 37	
1 " " 44	
3 " " 48A	
1 " " 52	
1 " " 54	
2 " " 126A	

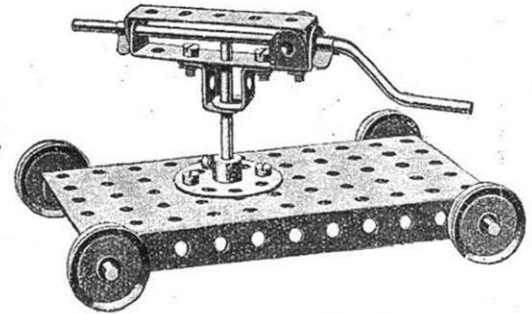
### Model No. 30—Jib Crane



Parts required:

4 of No. 2	1 of No. 24
9 " " 5	4 " " 35
2 " " 16	17 " " 37
1 " " 17	1 " " 48A
1 " " 19	1 " " 52
4 " " 22	1 " " 57
1 " " 23	

### Model No. 31—Rock Drill



Parts required:

1 of No. 19	4 of No. 37
4 " " 22	2 " " 48A
2 of No. 16	1 " " 52
1 " " 17	2 " " 125

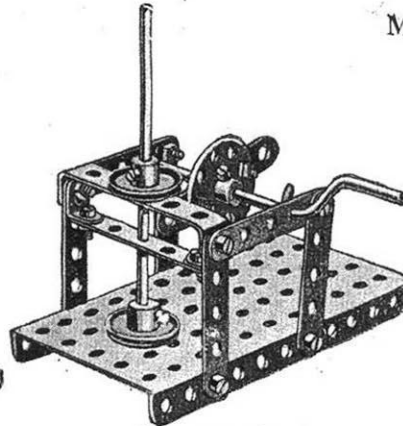
### Model No. 33—Swing



Parts required.

4 of No. 2	20 of No. 37
4 " " 5	1 " " 48A
6 " " 12	1 " " 52

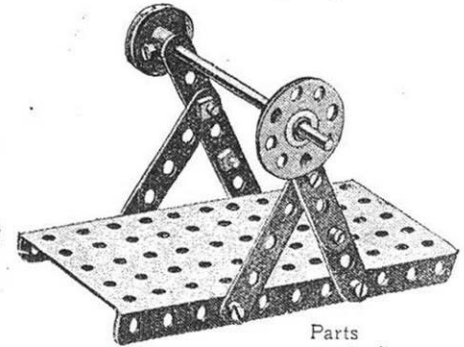
### Model No. 34 Ore Crusher



Parts required:

6 of No. 5	1 of No. 24
2 " " 10	2 " " 35
1 " " 16	10 " " 37
1 " " 19	2 " " 48A
2 " " 22	1 " " 52

### Model No. 35—Buffing Spindle

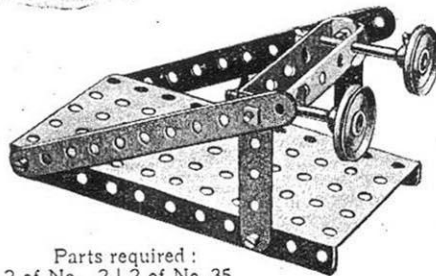
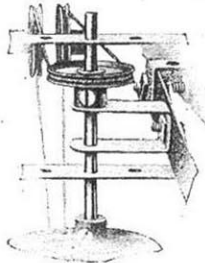


Parts required:

6 of No. 5	
1 " " 16	
1 " " 22	
1 " " 24	
8 " " 37	
1 " " 52	

FIG. 29A  
Detail of  
Drilling  
Machine.

### Model No. 32 Buffers



Parts required:

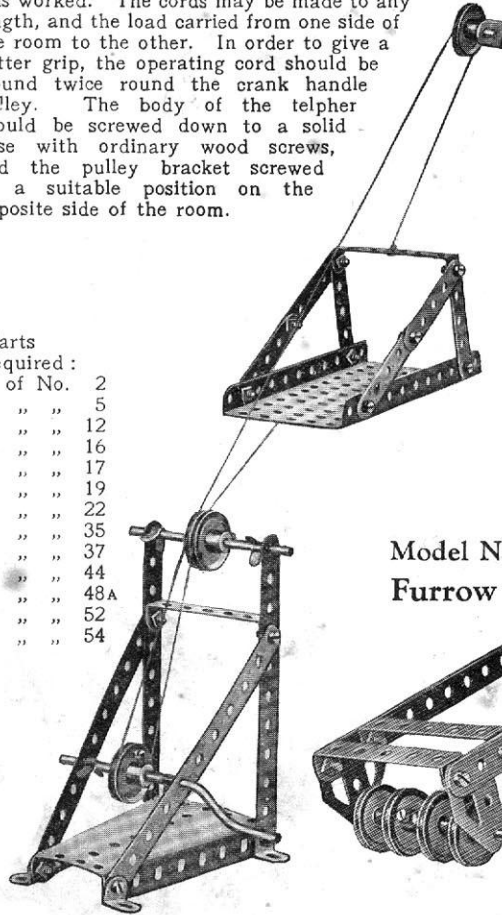
2 of No. 2	2 of No. 35
2 " " 5	6 " " 37
2 " " 17	2 " " 48A
2 " " 22	1 " " 52

### Model No. 36 Telfer Span

Many hours of enjoyment may be obtained from this model. The illustration shows exactly how it is worked. The cords may be made to any length, and the load carried from one side of the room to the other. In order to give a better grip, the operating cord should be wound twice round the crank handle pulley. The body of the telfer should be screwed down to a solid base with ordinary wood screws, and the pulley bracket screwed in a suitable position on the opposite side of the room.

Parts required:

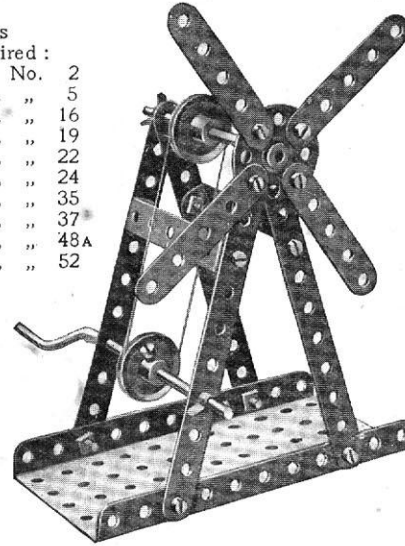
4	of No.	2
6	" "	5
4	" "	12
1	" "	16
1	" "	17
1	" "	19
4	" "	22
6	" "	35
14	" "	37
1	" "	44
2	" "	48A
1	" "	52
1	" "	54



### Model No. 37 Windmill

Parts required:

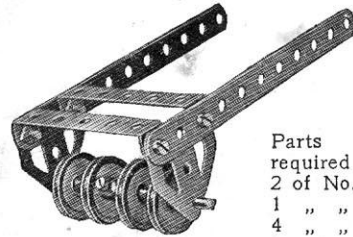
4	of No.	2
4	" "	5
1	" "	16
1	" "	19
2	" "	22
1	" "	24
4	" "	35
12	" "	37
2	" "	48A
1	" "	52



### Model No. 39 Furrow Roller

Parts required:

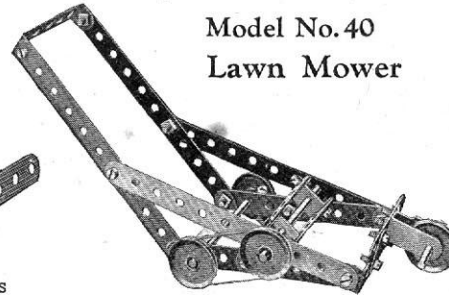
2	of No.	2
1	" "	16
4	" "	22
4	" "	37
2	" "	48A
2	" "	126A



### Model No. 40 Lawn Mower

Parts required:

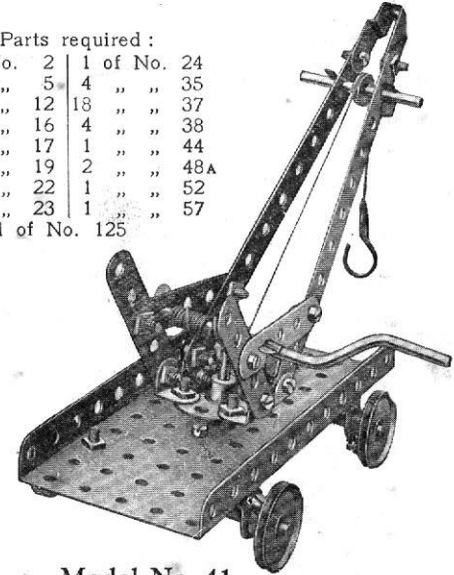
4	of No.	2	1	of No.	17
7	" "	5	4	" "	22
2	" "	11	19	" "	37
2	" "	16	1	" "	44
			3	of No.	48A



### Model No. 38 Swivelling Crane

Parts required:

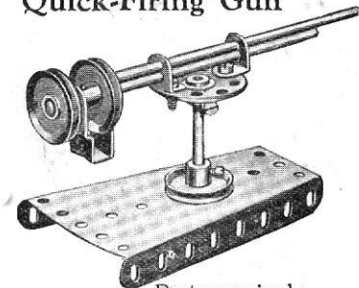
2	of No.	2	1	of No.	24
4	" "	5	4	" "	35
4	" "	12	18	" "	37
2	" "	16	4	" "	38
2	" "	17	1	" "	44
1	" "	19	2	" "	48A
4	" "	22	1	" "	52
1	" "	23	1	" "	57
			1	of No.	125



### Model No. 41 Quick-Firing Gun

Parts required:

2	of No.	12	1	of No.	24
2	" "	16	4	" "	37
1	" "	17	1	" "	44
2	" "	22	1	" "	54

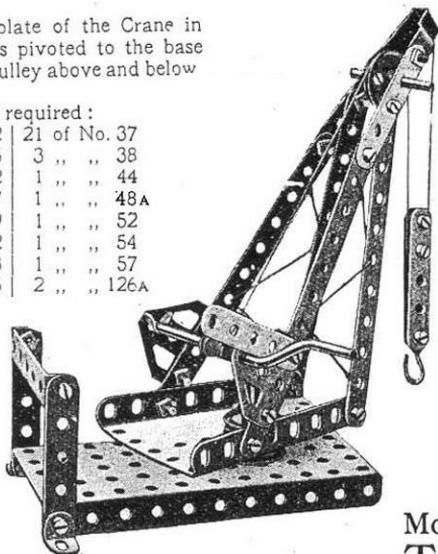


### Model No. 42—Swivelling Crane

The sector plate of the Crane in this model is pivoted to the base with a fast pulley above and below

Parts required:

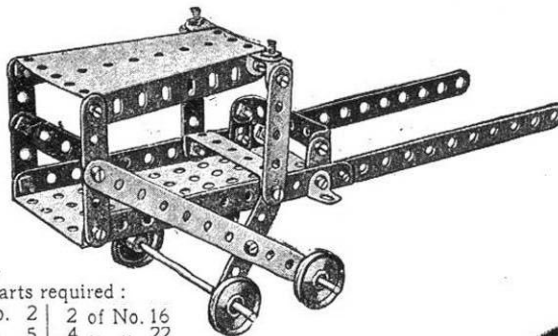
4 of No. 2	21 of No. 37
7 " " 5	3 " " 38
2 " " 12	1 " " 44
2 " " 17	1 " " 48A
1 " " 19	1 " " 52
4 " " 22	1 " " 54
1 " " 23	1 " " 57
2 " " 35	2 " " 126A



### Model No. 43—Ticca Gharry

Parts required:

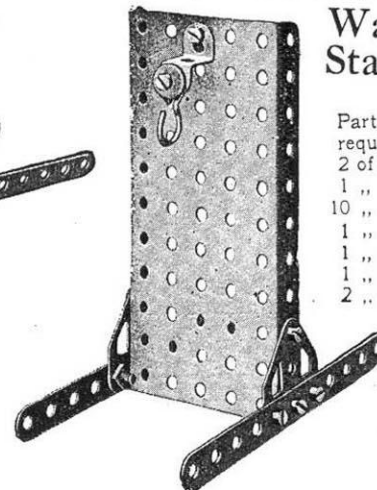
4 of No. 2	2 of No. 16
6 " " 5	4 " " 22
2 " " 10	22 " " 37
6 " " 12	1 " " 52
1 of No. 54	



### Model No. 44 Watch Stand

Parts required:

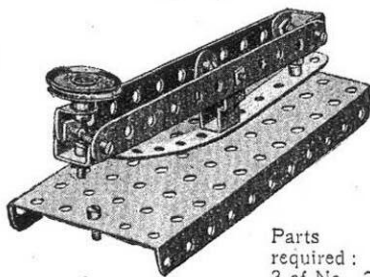
2 of No. 2
1 " " 23
10 " " 37
1 " " 52
1 " " 57
1 " " 125
2 " " 126A



### Model No. 46 Telegraph Key

Parts required:

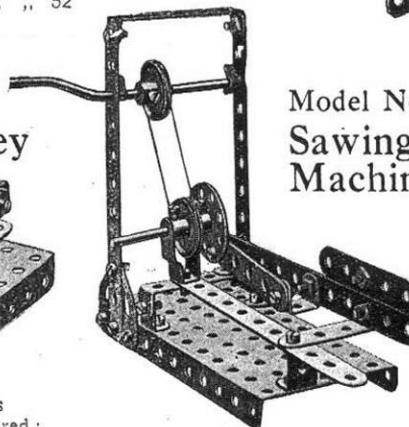
3 of No. 2
1 " " 10
2 " " 11
1 " " 12
1 " " 22
11 " " 37
1 " " 44
1 " " 52



### Model No. 47 Sawing Machine

Parts required:

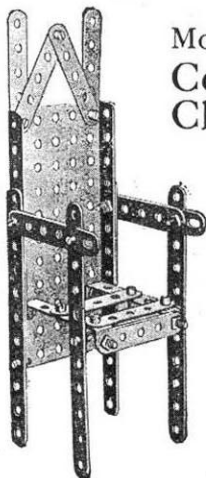
4 of No. 2	1 of No. 24
3 " " 5	2 " " 35
4 " " 12	23 " " 37
1 " " 17	1 " " 44
1 " " 19	2 " " 48A
2 " " 22	1 " " 52
2 of No. 126A	



### Model No. 45 Coronation Chair

Parts required:

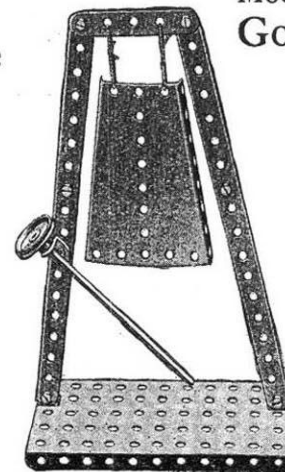
4 of No. 2
9 " " 5
2 " " 10
2 " " 12
19 " " 37
2 " " 48A
1 " " 52



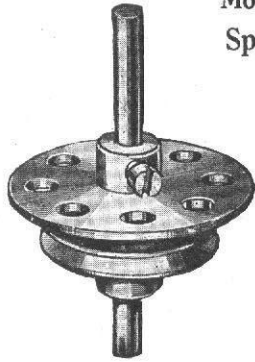
### Model No. 48 Gong

Parts required:

4 of No. 2
1 " " 5
3 " " 12
1 " " 16
1 " " 22
7 " " 37
1 " " 52
1 " " 54



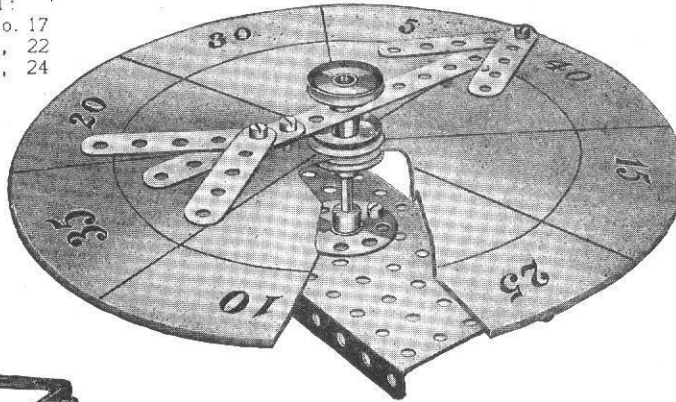
**Model No. 49**  
**Spinning Top**



Parts  
required:  
1 of No. 17  
1 " " 22  
1 " " 24

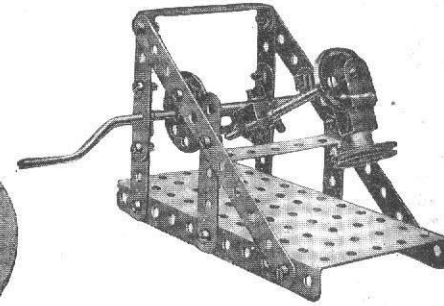
**Model No. 50 Roulette Wheel**

Parts	5 of No.	5	1 of No.	24
required:	1	" "	16	5
1 of No.	2	3	" "	22
			1	" "
				52



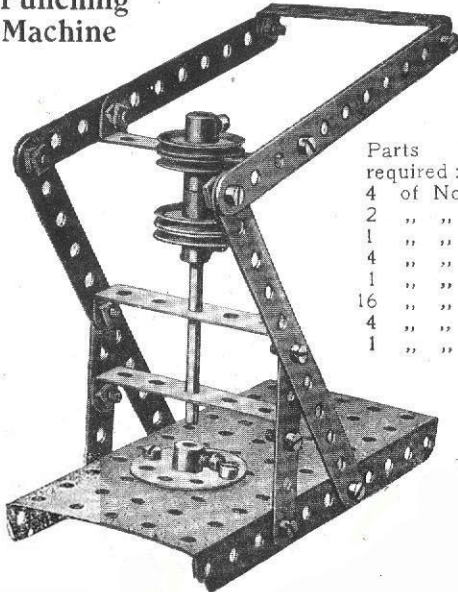
Cut out a circular piece of cardboard and mark as shown to form scoring board. This is clamped between two 1" pulley wheels. The pointer revolves freely on the upright spindle and is held in position by another 1" pulley wheel.

**Model No. 51**  
**Mechanical Hammer**



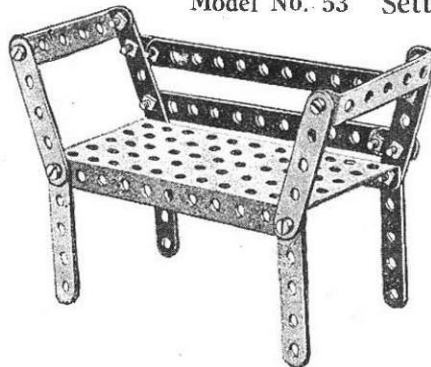
Parts	required:		
2	of No.	2	
6	" "	5	
1	" "	11	
1	" "	12	
1	" "	16	
1	" "	19	
2	" "	22	
1	" "	24	
4	" "	35	
18	" "	37	
1	" "	44	
3	" "	48A	
1	" "	52	

**Model No. 52**  
**Punching Machine**



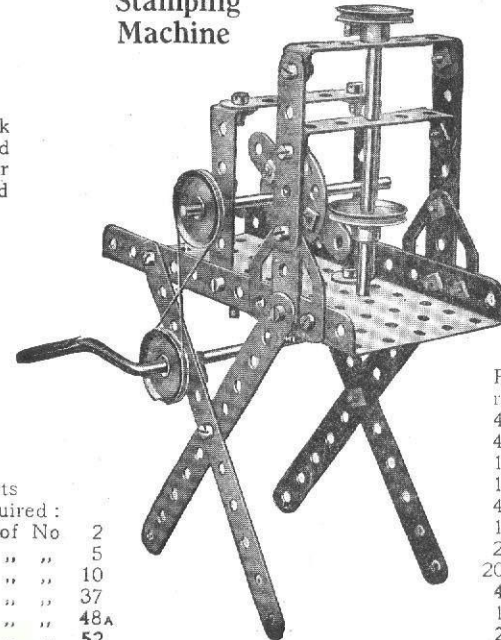
Parts	required:		
4	of No.	2	
2	" "	5	
1	" "	16	
4	" "	22	
1	" "	24	
16	" "	37	
4	" "	48A	
1	" "	52	

**Model No. 53 Settee**



Parts	required:		
2	of No.	2	
8	" "	5	
3	" "	10	
15	" "	37	
2	" "	48A	
1	" "	52	

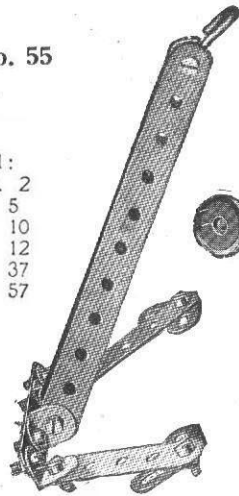
**Model No. 54**  
**Stamping Machine**



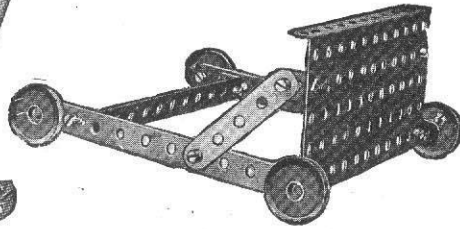
Parts	required:		
4	of No.	2	
4	" "	5	
1	" "	16	
1	" "	19	
4	" "	22	
1	" "	24	
2	" "	35	
20	" "	37	
4	" "	48A	
1	" "	52	
2	" "	126A	

**Model No. 55**  
**Anchor**

Parts  
required:  
2 of No. 2  
3 " " 5  
4 " " 10  
4 " " 12  
11 " " 37  
1 " " 57

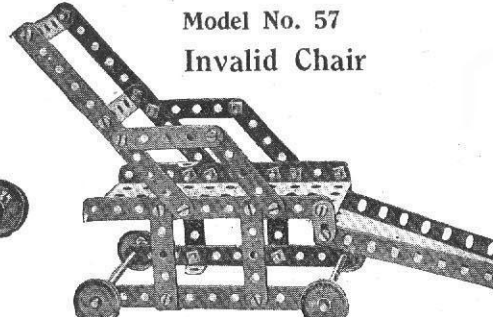


**Model No. 56**  
**Devil Wall**



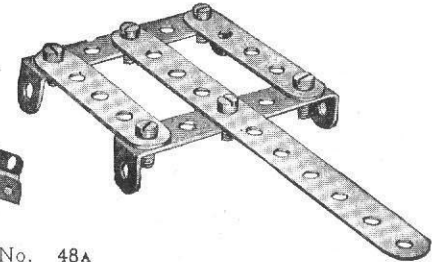
Parts required:  
3 of No. 2 | 4 of No. 22  
2 " " 5 | 18 " " 37  
6 " " 12 | 1 " " 52

**Model No. 57**  
**Invalid Chair**



Parts  
required: | 2 of No. 10 | 4 of No. 48A  
2 " " 16 | 1 " " 52  
4 of No. 2 | 4 " " 22 | 1 " " 54  
6 " " 5 | 24 " " 37

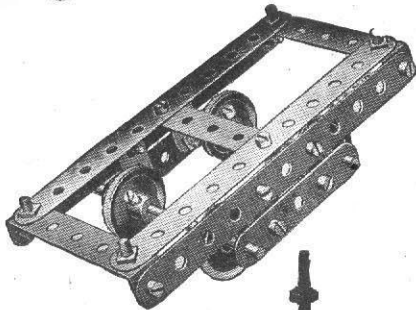
**Model No. 58**  
**Grill**



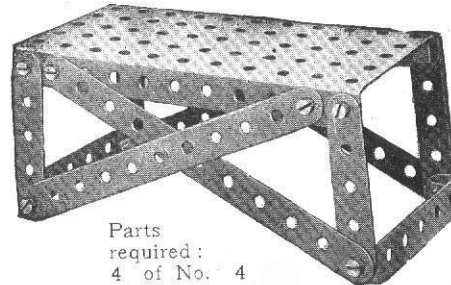
Parts required:  
1 of No. 2 | 6 of No. 37  
2 " " 5 | 2 " " 48A

**Model No. 59**  
**Bogie Car**

Parts  
required:  
4 of No. 2  
3 " " 5  
4 " " 10  
2 " " 16  
4 " " 22  
18 " " 37

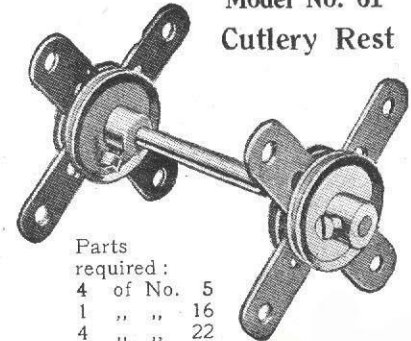


**Model No. 60** **Fire Stand**



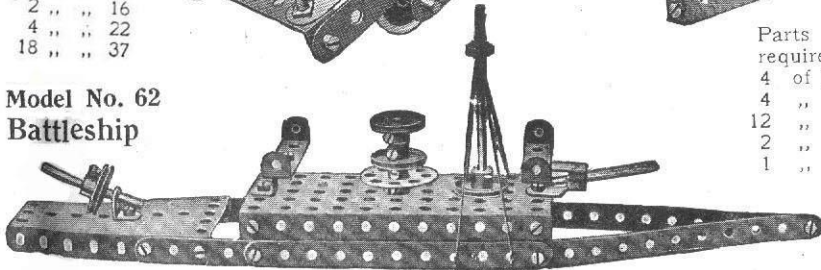
Parts  
required:  
4 of No. 4  
4 " " 5  
12 " " 37  
2 " " 48A  
1 " " 52

**Model No. 61**  
**Cutlery Rest**



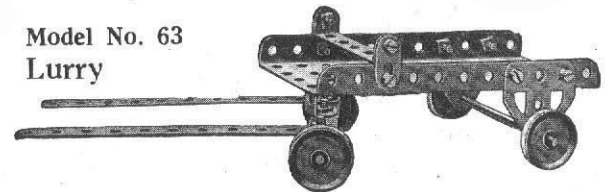
Parts  
required:  
4 of No. 5  
1 " " 16  
4 " " 22

**Model No. 62**  
**Battleship**



Parts required:  
4 of No. 2 | 1 of No. 16 | 1 of No. 24 | 2 of No. 48A  
3 " " 5 | 2 " " 17 | 3 " " 35 | 1 " " 52  
4 " " 10 | 4 " " 22 | 19 " " 37 | 1 " " 54  
1 " " 12 | 1 " " 23 | 1 " " 44 | 1 " " 125

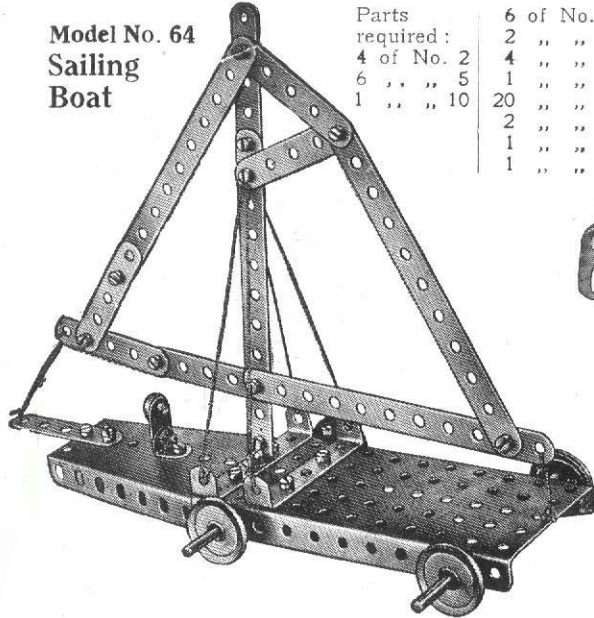
**Model No. 63**  
**Lurry**



Parts required:  
2 of No. 2 | 2 of No. 16 | 2 of No. 48A  
2 " " 10 | 4 " " 22 | 1 " " 52  
1 " " 11 | 12 " " 37 | 2 " " 126A

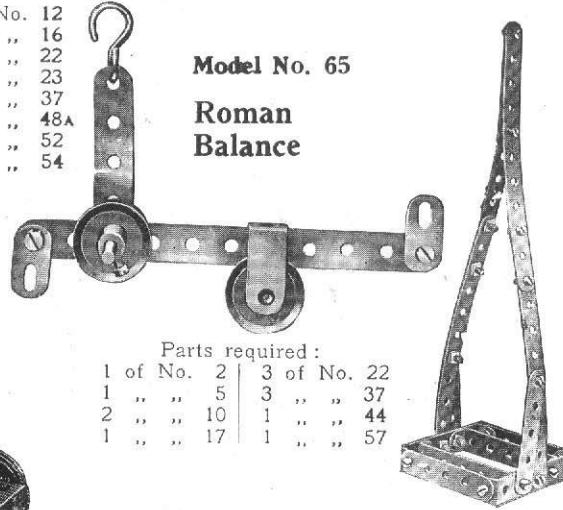
These Models can be made with MECCANO Outfit No. 0.

**Model No. 64**  
**Sailing Boat**



Parts required:	6 of No. 12
4 of No. 2	2 " " 16
6 " " 5	4 " " 22
1 " " 10	1 " " 23
	20 " " 37
	2 " " 48A
	1 " " 52
	1 " " 54

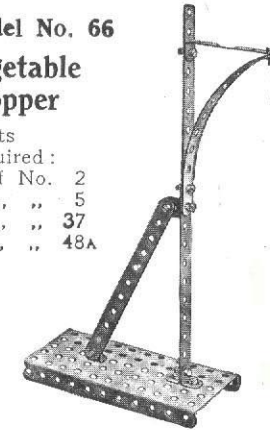
**Model No. 65**  
**Roman Balance**



Parts required:	
1 of No. 2	3 of No. 22
1 " " 5	3 " " 37
2 " " 10	1 " " 44
1 " " 17	1 " " 57

**Model No. 66**  
**Vegetable Chopper**

Parts required:	
4 of No. 2	
4 " " 5	
18 " " 37	
4 " " 48A	

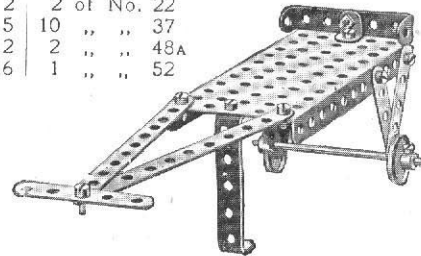


**Model No. 67**  
**Mail-Bag Hanger**

Parts required:	
4 of No. 2	
4 " " 12	
10 " " 37	
1 " " 48A	
1 " " 52	
1 " " 57	

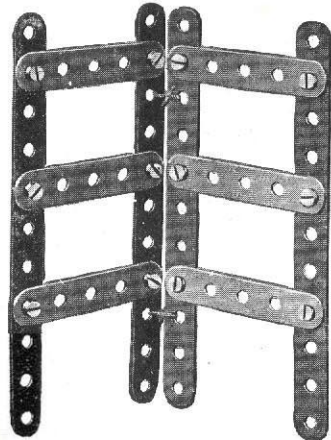
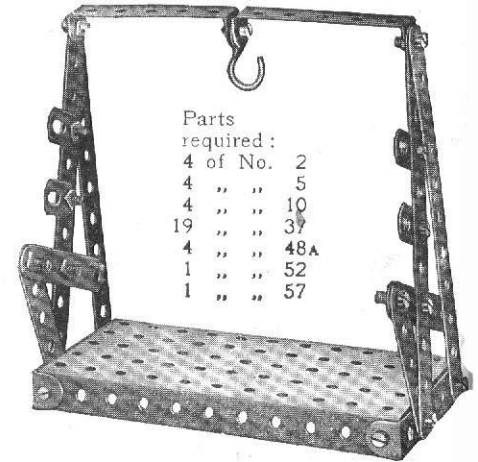
**Model No. 68 Shipyard Bogie**

Parts required:	
2 of No. 2	2 of No. 22
5 " " 5	10 " " 37
1 " " 12	2 " " 48A
1 " " 16	1 " " 52



**Model No. 70**  
**Pen Rack**

Parts required:	
4 of No. 2	
4 " " 5	
4 " " 10	
19 " " 37	
4 " " 48A	
1 " " 52	
1 " " 57	



**Model No. 69**  
**Clothes Horse**

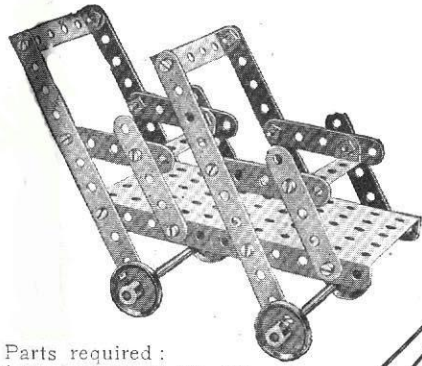
Parts required:	
4 of No. 2	
6 " " 5	
12 " " 37	

### HOW TO CONTINUE

This completes the Models which may be made with MECCANO Outfit No. 0. The next Models are a little more advanced, requiring a number of extra parts to construct them. The necessary parts are all contained in a No. 0A Accessory Outfit, the price of which will be found in the list at the end of the Manual.



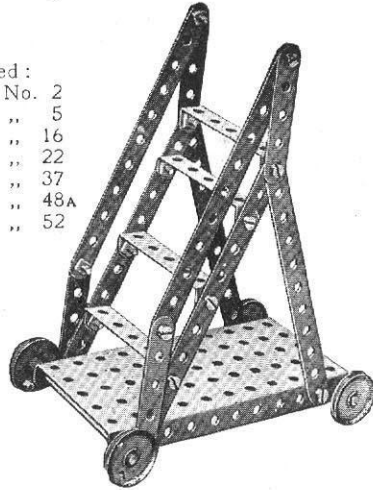
**Model No. 101  
Tandem Car**



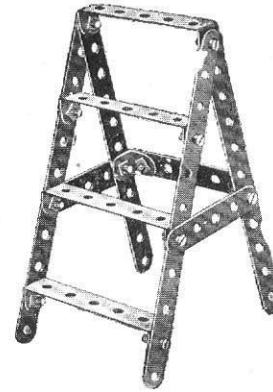
Parts required:  
 4 of No. 2 | 20 of No. 37  
 8 " " 5 | 4 " " 48A  
 2 " " 16 | 1 " " 52  
 4 " " 22

**Model No. 102  
Travelling Ladder**

Parts required:  
 6 of No. 2  
 4 " " 5  
 2 " " 16  
 4 " " 22  
 16 " " 37  
 4 " " 48A  
 1 " " 52

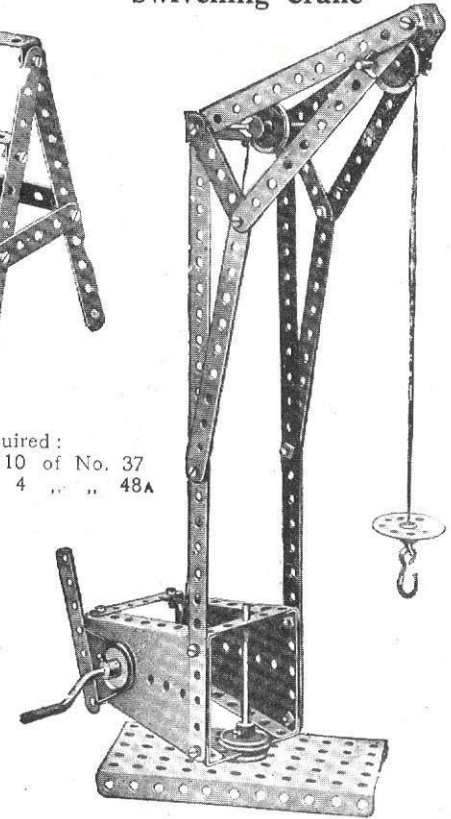


**Model No. 103  
Step Ladder**

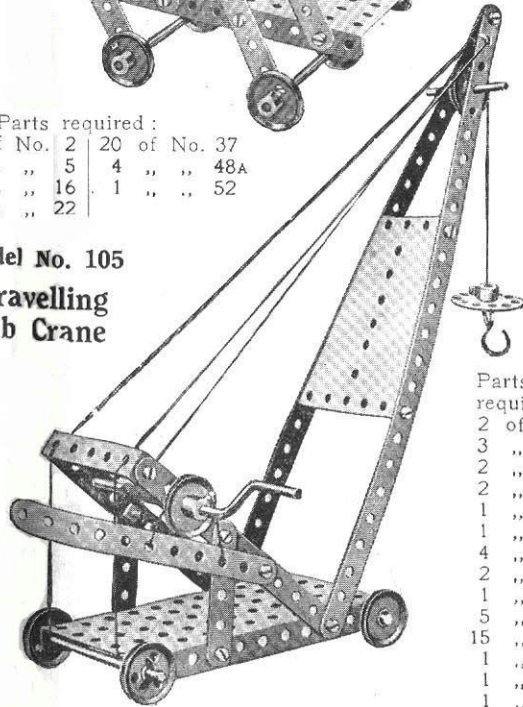


Parts required:  
 4 of No. 2 | 10 of No. 37  
 3 " " 5 | 4 " " 48A  
 2 " " 12

**Model No. 104  
Swivelling Crane**



**Model No. 105  
Travelling Jib Crane**



Parts required:  
 2 of No. 1  
 3 " " 2  
 2 " " 5  
 2 " " 16  
 1 " " 17  
 1 " " 19  
 4 " " 22  
 2 " " 22A  
 1 " " 24  
 5 " " 35  
 15 " " 37  
 1 " " 48A  
 1 " " 52  
 1 " " 54  
 1 " " 57

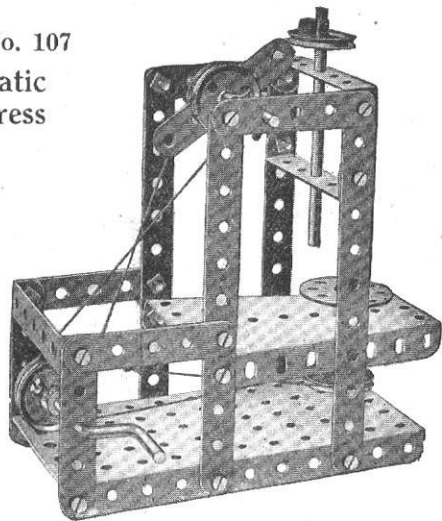
**Model No. 106  
Swing**



Parts required:  
 4 of No. 1  
 1 " " 2  
 6 " " 5  
 4 " " 12  
 12 " " 37  
 3 " " 48A  
 1 " " 52

Parts required:  
 2 of No. 1 | 2 of No. 17 | 18 of No. 37  
 6 " " 2 | 1 " " 19 | 1 " " 44  
 1 " " 3 | 4 " " 22 | 3 " " 48A  
 4 " " 5 | 2 " " 22A | 1 " " 52  
 1 " " 11 | 1 " " 24 | 2 " " 54  
 1 " " 16 | 4 " " 35 | 1 " " 57

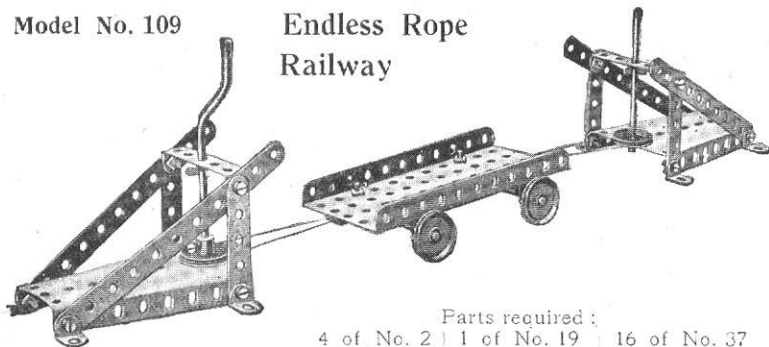
Model No. 107  
Automatic  
Dial Press



Parts required:		
4 of No. 2	1 of No. 19	18 of No. 37
7 " " 5	4 " " 22	3 " " 48A
2 " " 16	2 " " 22A	1 " " 52
1 " " 17	1 " " 24	1 " " 54
	7 " " 35	

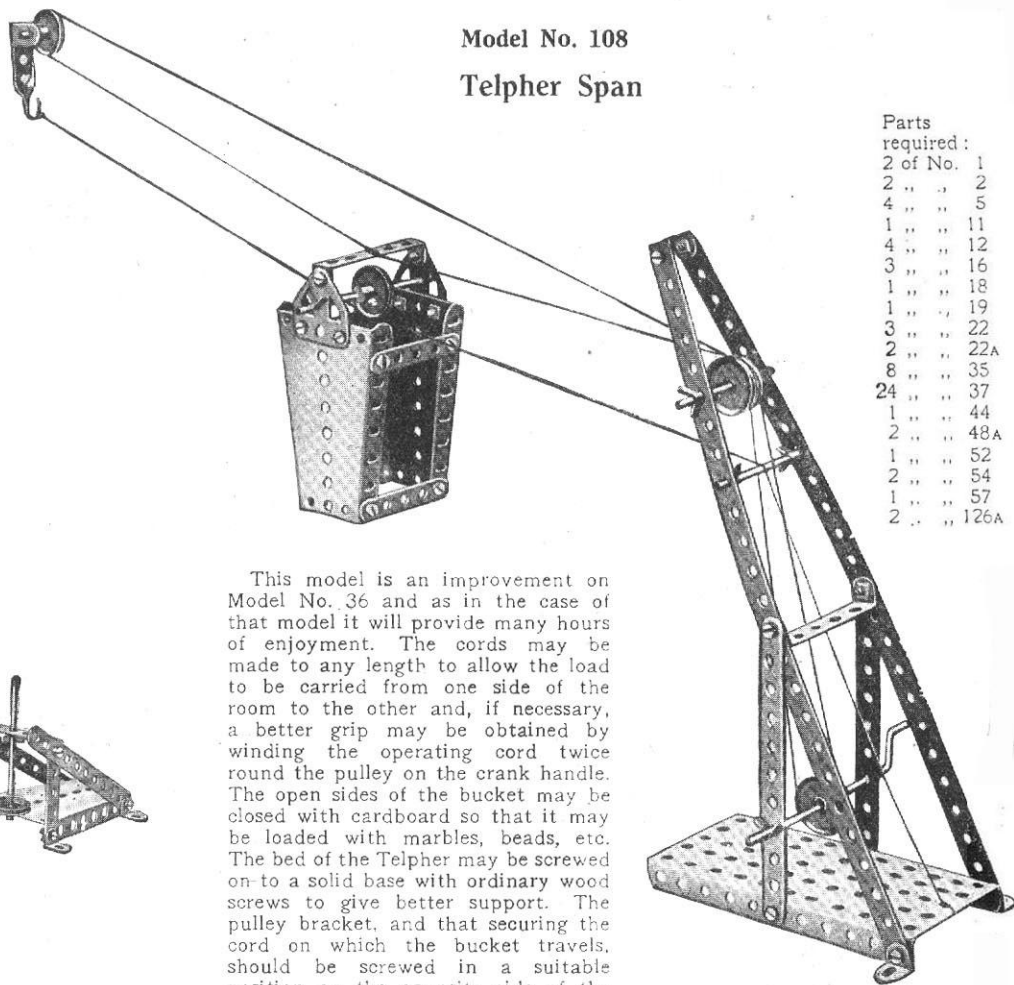
Model No. 109

Endless Rope  
Railway



Parts required:		
4 of No. 2	1 of No. 19	16 of No. 37
4 " " 5	4 " " 22	4 " " 48A
8 " " 12	2 " " 22A	1 " " 52
3 " " 16	4 " " 35	2 " " 54

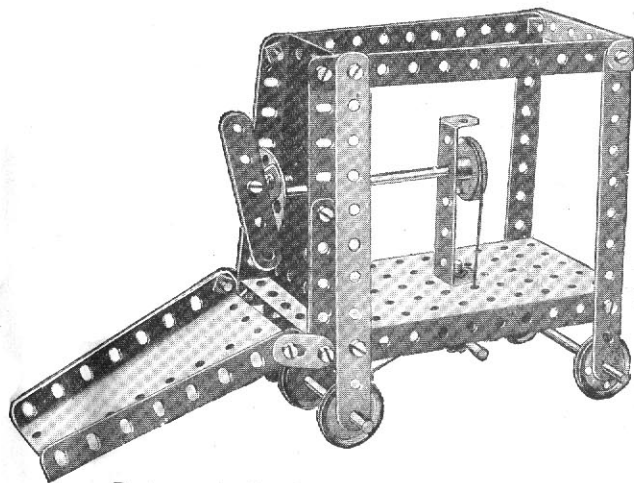
Model No. 108  
Telpher Span



Parts required:	
2 of No. 1	
2 " " 2	
4 " " 5	
1 " " 11	
4 " " 12	
3 " " 16	
1 " " 18	
1 " " 19	
3 " " 22	
2 " " 22A	
8 " " 35	
24 " " 37	
1 " " 44	
2 " " 48A	
1 " " 52	
2 " " 54	
1 " " 57	
2 " " 126A	

This model is an improvement on Model No. 36 and as in the case of that model it will provide many hours of enjoyment. The cords may be made to any length to allow the load to be carried from one side of the room to the other and, if necessary, a better grip may be obtained by winding the operating cord twice round the pulley on the crank handle. The open sides of the bucket may be closed with cardboard so that it may be loaded with marbles, beads, etc. The bed of the Telpher may be screwed on to a solid base with ordinary wood screws to give better support. The pulley bracket, and that securing the cord on which the bucket travels, should be screwed in a suitable position on the opposite side of the room.

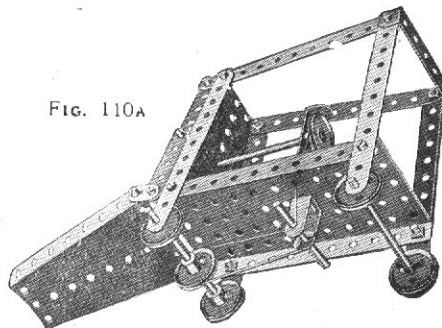
### Model No. 110 Snow Plough



Parts required:

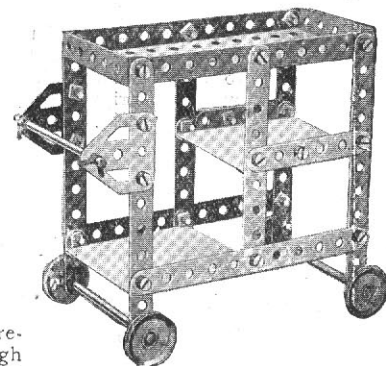
6 of No. 2	1 of No. 24
3 " " 5	4 " " 35
2 " " 10	19 " " 37
1 " " 12	1 " " 44
3 " " 16	2 " " 48A
1 " " 17	1 " " 52
4 " " 22	2 " " 54
2 " " 22A	

FIG. 110A



The construction of the framework of this model presents no difficulty. The sector plate forming the plough is loosely pivoted on the bolts (1). The axle (2) is mounted in the front sector plate and the  $2\frac{1}{2}$ " double angle strip (3). A  $2\frac{1}{2}$ " strip (4) is bolted by angle brackets to a bush wheel on the front of the axle and forms a dispersing propeller for the snow after it has risen up the inclined sector plate. A continuous cord (5) is passed round a 1" pulley (6) and round the short axle (7) and a 1" pulley on the propeller axle. In this way, as the plough is moved along the ground, the propeller is revolved.

### Model No. 111 Dinner Wagon

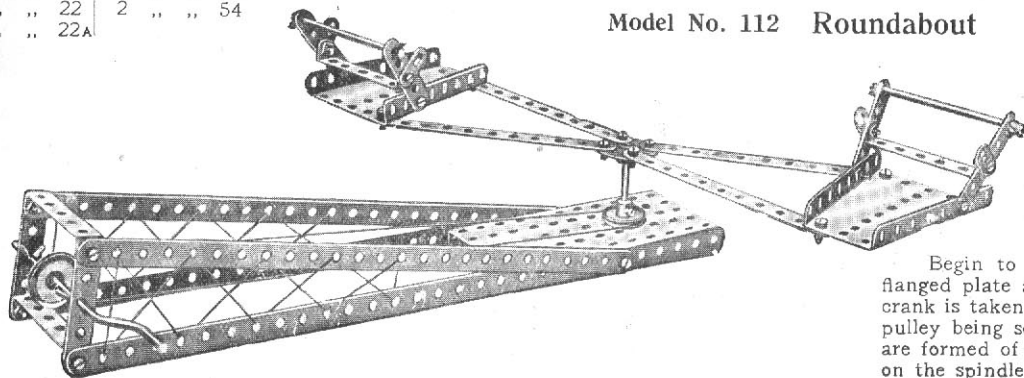


Parts required:

6 of No. 2	2 of No. 35
8 " " 5	22 " " 37
4 " " 12	4 " " 48A
3 " " 16	1 " " 52
4 " " 22	2 " " 126A

The two lower platforms are constructed out of pieces of ordinary cardboard, their outer edges resting on  $2\frac{1}{2}$ " bent strips and their inner edges on angle brackets.

### Model No. 112 Roundabout



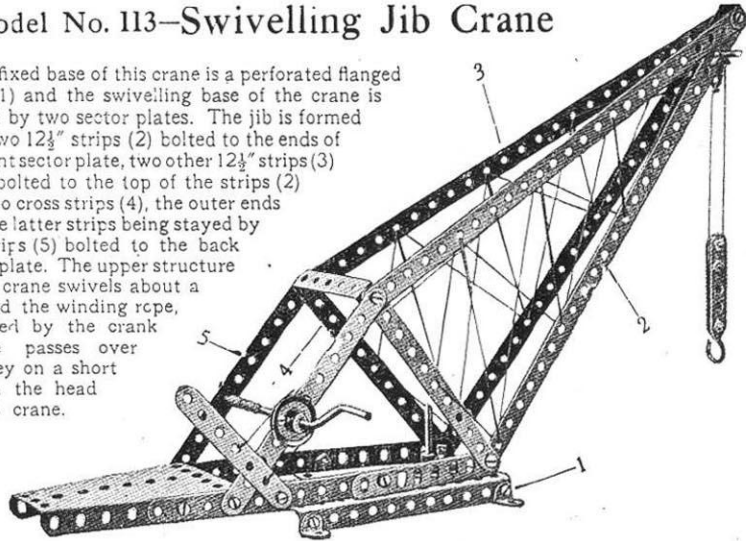
Parts required:

4 of No. 1	1 of No. 17	22 of No. 37
4 " " 2	1 " " 19	4 " " 48A
6 " " 5	3 " " 22	1 " " 52
4 " " 10	1 " " 24	2 " " 54
2 " " 16	6 " " 35	

Begin to build this model by making the platform from a flanged plate and  $12\frac{1}{2}$ " strips. The drive from the pulley on the crank is taken to a 1" pulley fast on a spindle (2), another similar pulley being secured to the spindle beneath the plate. The arms are formed of four  $5\frac{1}{2}$ " strips and bolted to a bush wheel (1) fast on the spindle.

### Model No. 113—Swivelling Jib Crane

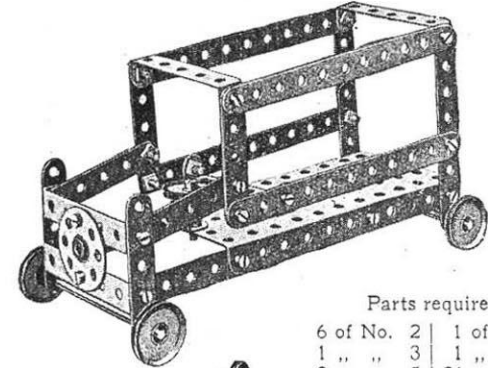
The fixed base of this crane is a perforated flanged plate (1) and the swivelling base of the crane is formed by two sector plates. The jib is formed from two 12½" strips (2) bolted to the ends of the front sector plate, two other 12½" strips (3) being bolted to the top of the strips (2) and two cross strips (4), the outer ends of these latter strips being stayed by the strips (5) bolted to the back sector plate. The upper structure of the crane swivels about a rod and the winding crank, operated by the crank handle passes over a pulley on a short rod in the head of the crane.



Parts required:

4	of No.	1
6	" "	2
1	" "	3
2	" "	5
1	" "	10
1	" "	11
4	" "	12
2	" "	17
1	" "	19
3	" "	22
1	" "	22A
1	" "	23
3	" "	35
20	" "	37
3	" "	38
1	" "	48A
1	" "	52
2	" "	54
1	" "	57

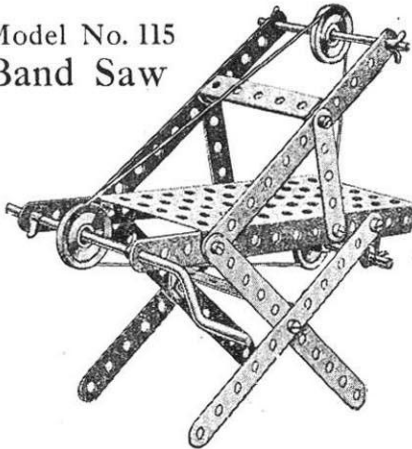
### Model No. 114—Motor Van



Parts required:

6	of No.	2	1	of No.	22A
1	" "	3	1	" "	24
9	" "	5	26	" "	37
1	" "	11	5	" "	48A
2	" "	16	1	" "	52
4	" "	22			

### Model No. 115 Band Saw

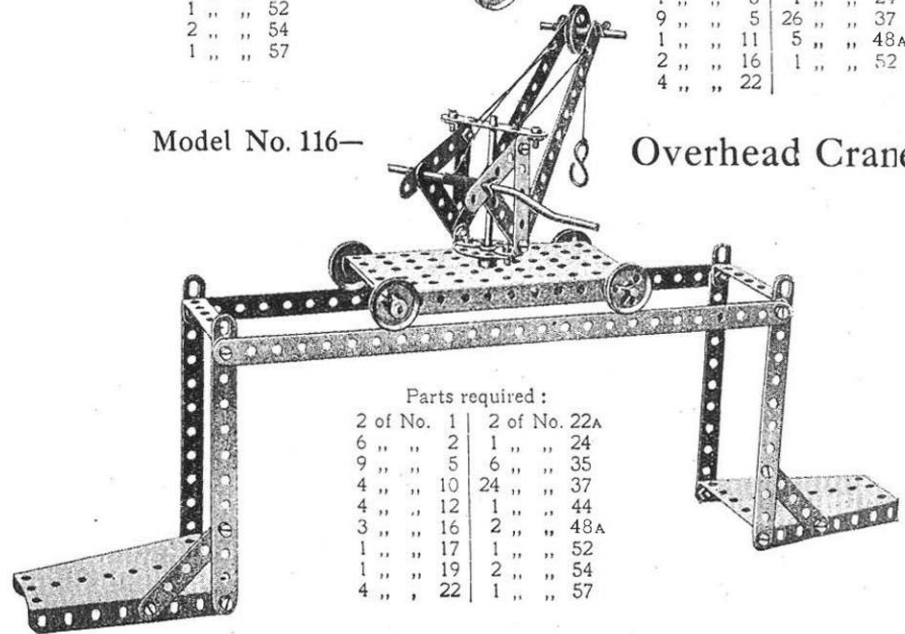


Parts required:

6	of No.	2
4	" "	5
2	" "	10
2	" "	16
1	" "	19
3	" "	22
6	" "	35
10	" "	37
2	" "	48A
1	" "	52

### Model No. 116—

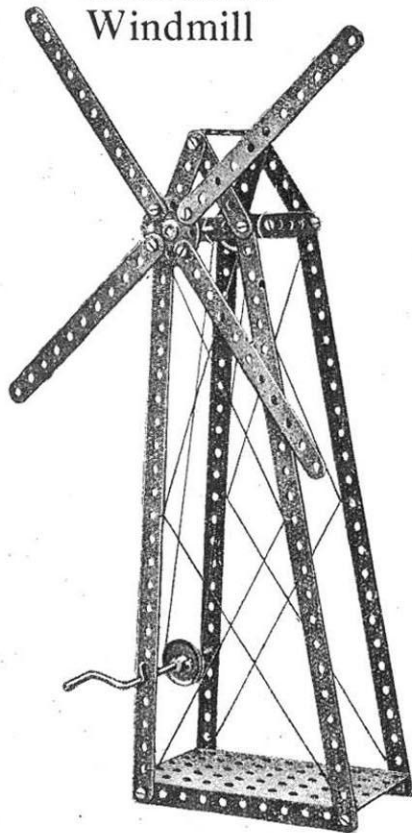
### Overhead Crane



Parts required:

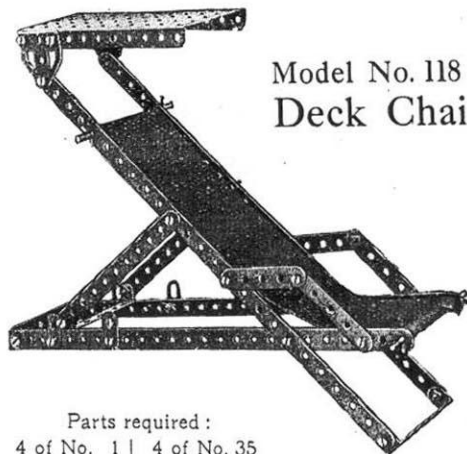
2	of No.	1	2	of No.	22A
6	" "	2	1	" "	24
9	" "	5	6	" "	35
4	" "	10	24	" "	37
4	" "	12	1	" "	44
3	" "	16	2	" "	48A
1	" "	17	1	" "	52
1	" "	19	2	" "	54
4	" "	22	1	" "	57

Model No. 117  
Windmill



Parts required:

4 of No. 1	2 of No. 22
4 " " 2	1 " " 24
7 " " 5	4 " " 35
2 " " 12	20 " " 37
1 " " 16	3 " " 48A
1 " " 19	1 " " 52



Model No. 118  
Deck Chair

Parts required:

4 of No. 1	4 of No. 35
2 " " 2	26 " " 37
4 " " 5	1 " " 52
4 " " 10	3 " " 60
2 " " 16	2 " " 126A

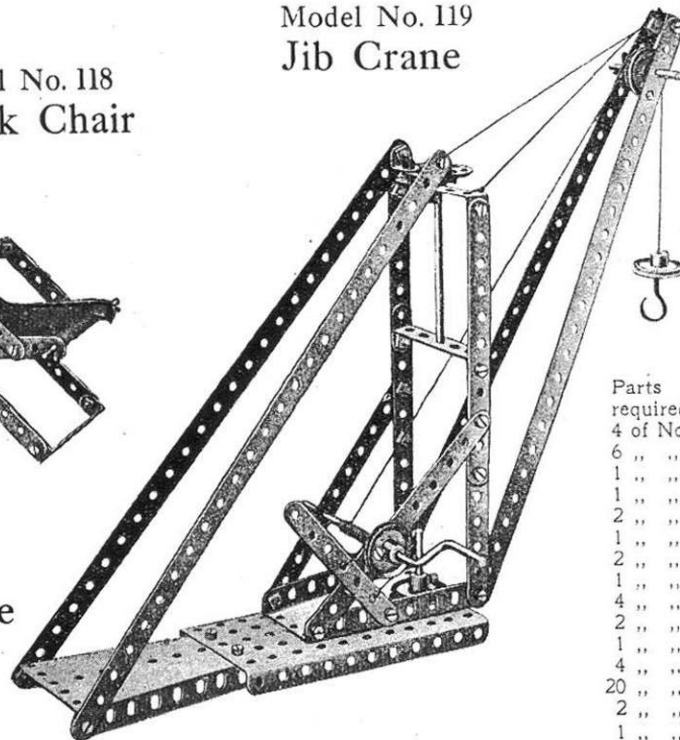
Model No. 120—Bed Table



Parts required:

3 of No. 2	
1 " " 3	
1 " " 5	
1 " " 11	
5 " " 12	
2 " " 16	
1 " " 17	
4 " " 22	
1 " " 24	
21 " " 37	
4 " " 48A	
1 " " 52	
1 " " 126A	

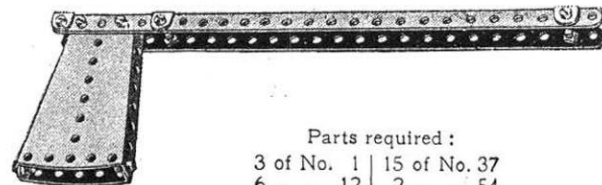
Model No. 119  
Jib Crane



Parts required:

4 of No. 1	
6 " " 2	
1 " " 3	
1 " " 11	
2 " " 12	
1 " " 16	
2 " " 17	
1 " " 19	
4 " " 22	
2 " " 22A	
1 " " 24	
4 " " 35	
20 " " 37	
2 " " 48A	
1 " " 52	
2 " " 54	
1 " " 57	

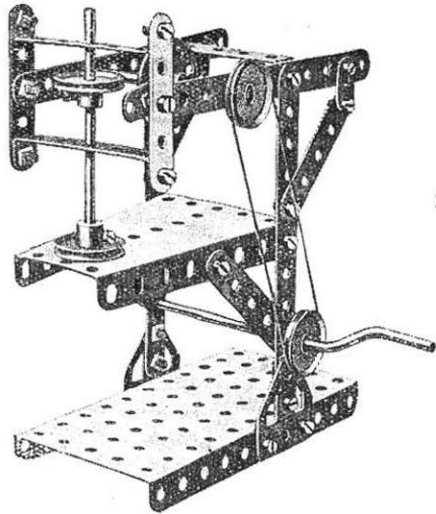
Model No. 121—Hatchet



Parts required:

3 of No. 1	15 of No. 37
6 " " 12	2 " " 54

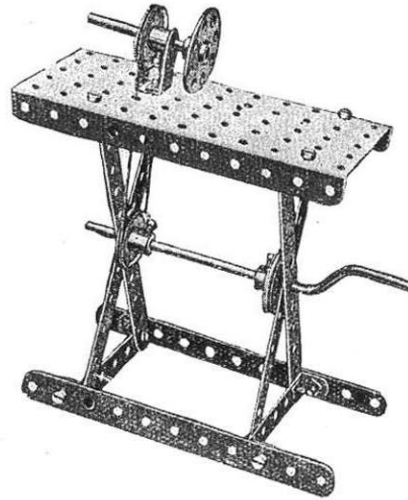
Model No. 122  
Drop Stamp



Parts required:

4	of No. 2
6	" " 5
3	" " 10
2	" " 16
1	" " 19
4	" " 22
1	" " 24
2	" " 35
27	" " 37
3	" " 48A
1	" " 52
1	" " 54
2	" " 126A

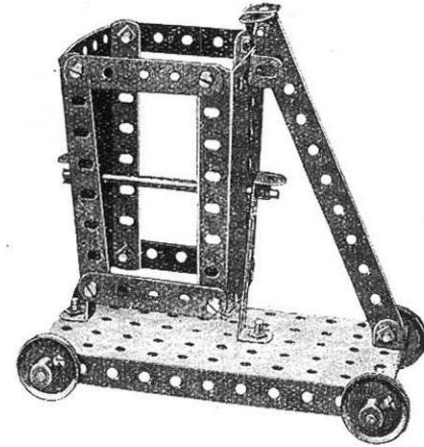
Model No. 123—Lathe



Parts required:

6	of No. 2	1	of No. 24
4	" " 12	17	" " 37
1	" " 17	1	" " 44
1	" " 19	2	" " 48A
3	" " 22	1	" " 52

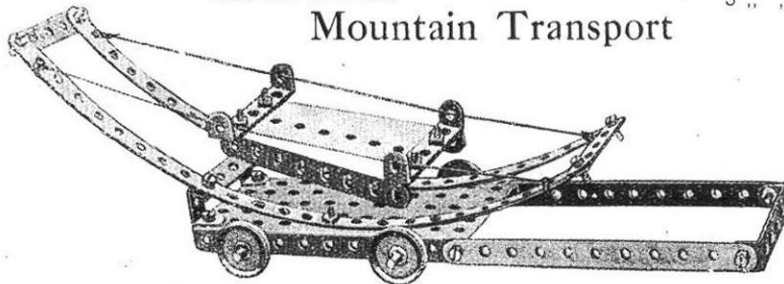
Model No. 124—Tip Wagon



Parts required:

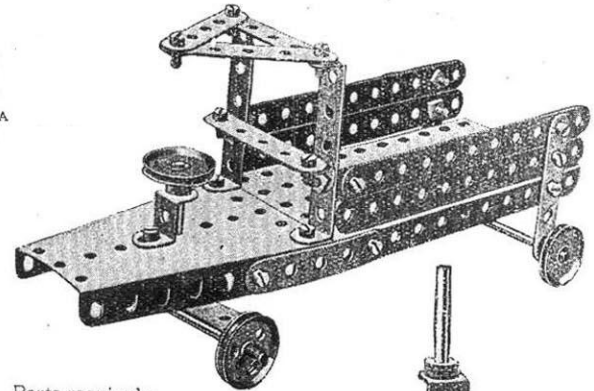
1	of No. 2
4	" " 5
5	" " 12
3	" " 16
4	" " 22
2	" " 35
14	" " 37
2	" " 48A
1	" " 52
2	" " 54

Model No. 125  
Mountain Transport



2	of No. 1	3	of No. 5	2	of No. 16	18	of No. 37	1	of No. 52
2	" " 2	4	" " 12	4	" " 22	2	" " 48A	1	" " 54

Model No. 126—Motor Lurry



Parts required:

4	of No. 2	3	of No. 22	3	of No. 38
8	" " 5	2	" " 22A	3	" " 48A
4	" " 12	1	" " 24	1	" " 52
2	" " 16	2	" " 35	1	" " 54
1	" " 17	25	" " 37	2	" " 125

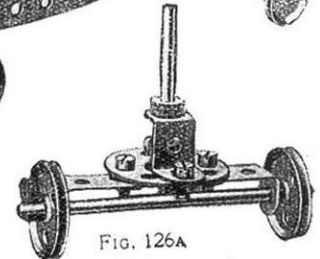
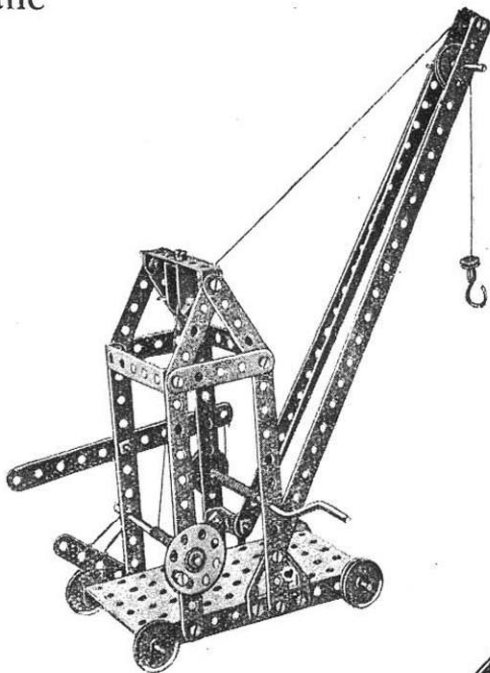


FIG. 126A

### Model No. 127 Jib Crane

Parts  
required :

2 of No.	1
5 "	2
7 "	5 1/2
1 "	11
3 "	16
1 "	17
1 "	18A
1 "	19
4 "	22
2 "	22A
1 "	23
1 "	24
6 "	35
22 "	37
2 "	38
1 "	44
1 "	52
1 "	57
3 "	60
2 "	125
2 "	126A

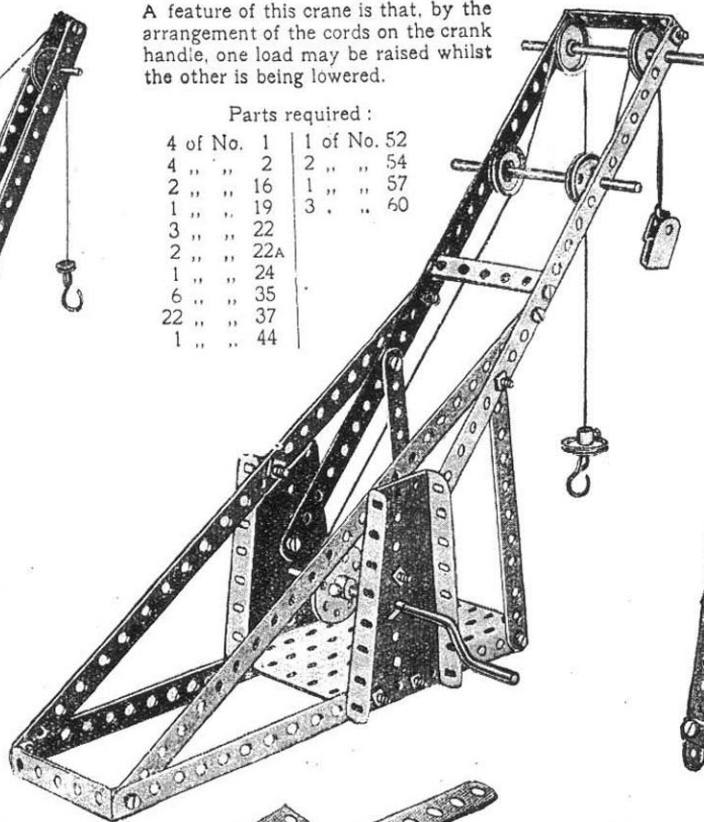


### Model No. 128—Double Action Crane

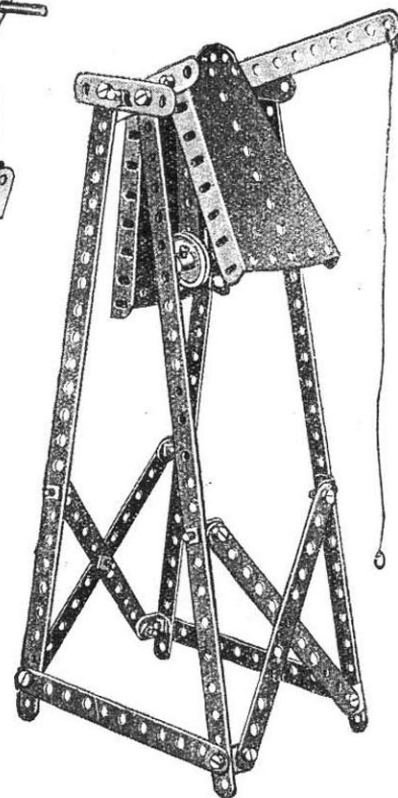
A feature of this crane is that, by the arrangement of the cords on the crank handle, one load may be raised whilst the other is being lowered.

Parts required :

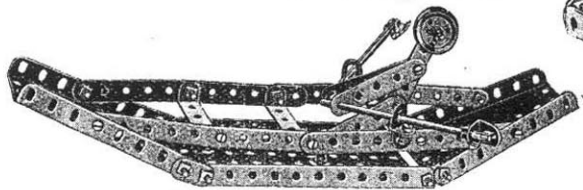
4 of No.	1	1 of No.	52
4 "	2	2 "	54
2 "	16	1 "	57
1 "	19	3 "	60
3 "	22		
2 "	22A		
1 "	24		
6 "	35		
22 "	37		
1 "	44		



### Model No. 129 Fire Alarm



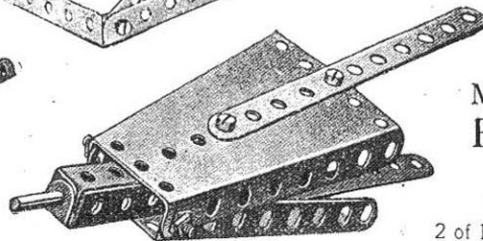
### Model No. 130—Rowing Boat



Parts required :

4 of No.	2	2 of No.	16	4 of No.	38
5 "	5	1 "	18A	1 "	52
4 "	10	2 "	22A	2 "	54
7 "	12	4 "	35	3 "	60
		24 "	37		

### Model No. 131 Bellows



Parts required :

2 of No.	2	2 of No.	54
1 "	17	4 "	60
9 "	37		

Parts required :

4 of No.	1	1 of No.	22
7 "	2	1 "	24
1 "	3	4 "	35
3 "	5	27 "	37
8 "	12	2 "	54
1 "	16		

These Models can be made with MECCANO Outfit No. 1, or No. 0 and No. 0A.

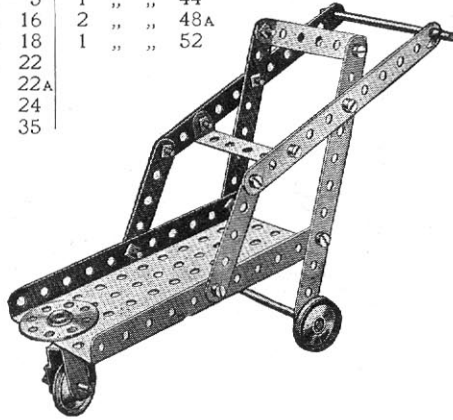
**Model No. 132 Invalid Chair**

**Model No. 133 Foot Cycle**

**Model No. 134 Forge Bellows**

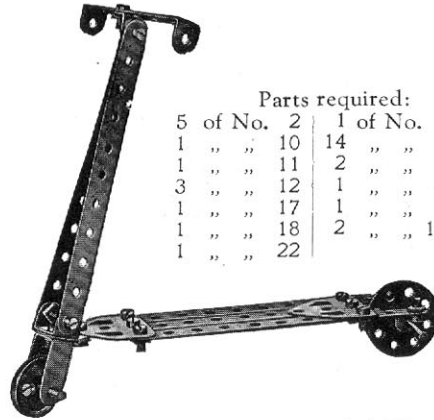
Parts required:

4 of No. 2	13 of No. 37
2 " " 5	1 " " 44
2 " " 16	2 " " 48A
1 " " 18	1 " " 52
2 " " 22	
1 " " 22A	
1 " " 24	
4 " " 35	



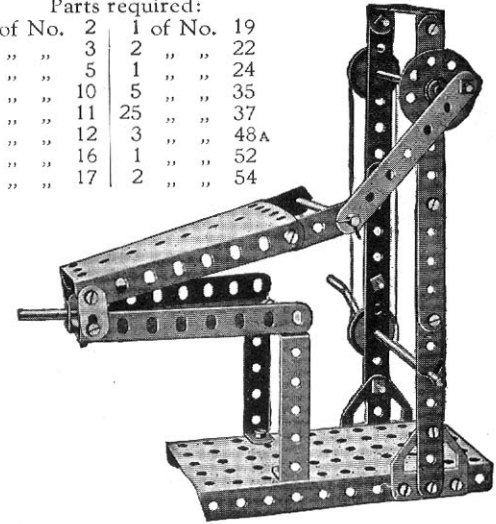
Parts required:

5 of No. 2	1 of No. 24
1 " " 10	14 " " 37
1 " " 11	2 " " 38
3 " " 12	1 " " 44
1 " " 17	1 " " 48A
1 " " 18	2 " " 126A
1 " " 22	



Parts required:

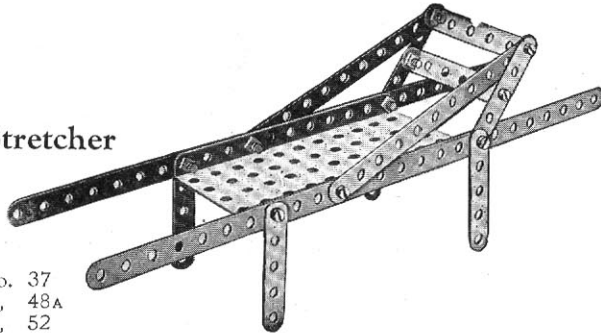
4 of No. 2	1 of No. 19
1 " " 3	2 " " 22
2 " " 5	1 " " 24
2 " " 10	5 " " 35
1 " " 11	25 " " 37
2 " " 12	3 " " 48A
2 " " 16	1 " " 52
1 " " 17	2 " " 54



**Model No. 135 Stretcher**

Parts required:

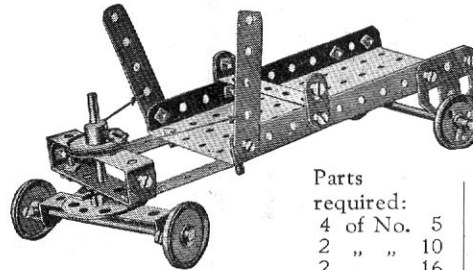
2 of No. 1	10 of No. 37
2 " " 2	2 " " 48A
6 " " 5	1 " " 52



**Model No. 136 Steering Truck**

Parts required:

4 of No. 5	1 of No. 17	18 of No. 37
2 " " 10	3 " " 22	2 " " 38
2 " " 16	2 " " 22A	4 " " 48A
	1 " " 24	1 " " 52
	2 " " 35	2 " " 126A

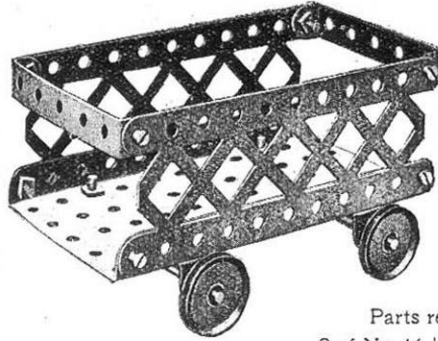


**HOW TO CONTINUE**

This completes the Models which may be made with MECCANO Outfit No. 1. The next Models are a little more advanced, requiring a number of extra parts to construct them. The necessary parts are all contained in a No. 1A Accessory Outfit, the price of which will be found in the List at the end of the Manual.



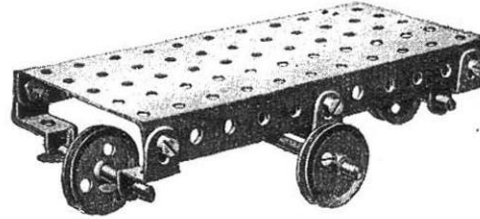
Model No. 201  
Truck



Parts required :

2 of No. 16	4 of No. 48A
4 " " 22	1 " " 52
12 " " 37	2 " " 100

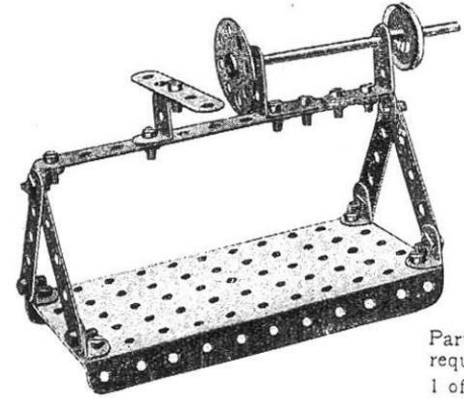
Model No. 202  
Revolving Truck



Parts required :

2 of No. 10	2 of No. 22	6 of No. 37
1 " " 16	2 " " 22A	1 " " 52
2 " " 17	4 " " 35	4 " " 125

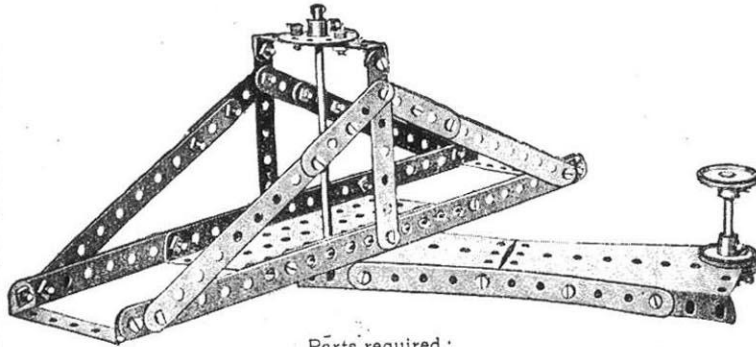
Model No. 203—Lathe



Parts required :

1 of No. 2
5 " " 5
6 " " 12
2 " " 12A
1 " " 16
1 " " 22
1 " " 24
17 " " 37
1 " " 52
1 " " 125

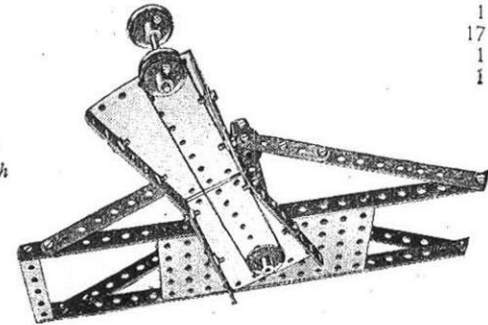
Model No. 204—Turntable Gangway



Parts required :

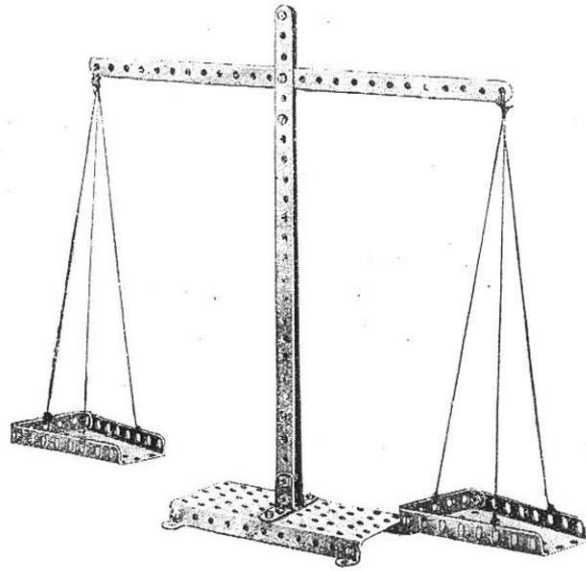
2 of No. 1	4 of No. 22
6 " " 2	1 " " 24
2 " " 3	34 " " 37
4 " " 5	3 " " 48A
1 " " 15A	1 " " 52
1 " " 17	2 " " 54

FIG. 204A  
(underneath view)



The side frames of the gangway are made of 12½" strips bolted by means of 2½" bent strips to parallel strips below. The side frames are connected by a perforated flanged plate to the underside of which is bolted a bush wheel fitted with a rod on which is mounted a 1" pulley (See Fig. 204A.) The rod passes through one of the end holes of the sector plate which is connected by diagonal strips to another sector plate. Through the end hole of the latter a rod is threaded carrying two 1" pulleys from one of which an operating cord passes through the pulley mounted on the under side of the flange plate. In this way the Gangway may be rotated by an operating spindle.

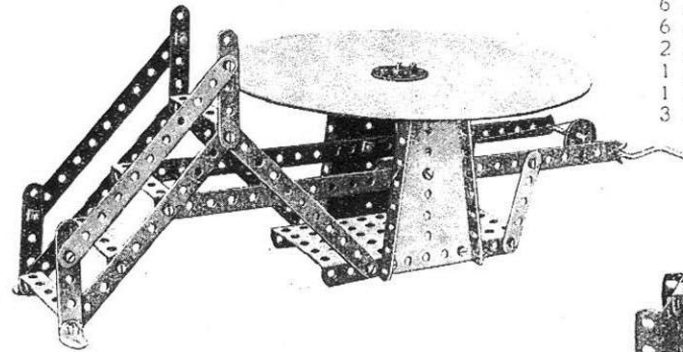
## Model No. 205—Scales



Parts required :			
3 of No. 1	4 of No. 38		
4 " " 12	2 " " 48A		
2 " " 12A	1 " " 52		
19 " " 37	2 " " 54		

The slot is formed by inserting 2 washers in the bolts above and below the beam. These washers hold the strips composing the standard at the required distance apart to give the beam free play.

## Model No. 206—Joy Wheel



The driving mechanism and construction of the framework of this model are clearly brought out in Fig. 206A. Cut out a circular piece of cardboard, 8" in diameter, and in the centre of the disc fix a bush wheel by nuts and bolts. The eye of the bush wheel is then threaded over the top of a vertical spindle, and secured by its set-screw.

Parts required :			
2 of No. 1	1 of No. 22A		
6 " " 2	1 " " 24		
6 " " 5	2 " " 35		
2 " " 12	23 " " 37		
1 " " 15A	5 " " 48A		
1 " " 19	1 " " 52		
3 " " 22	2 " " 54		

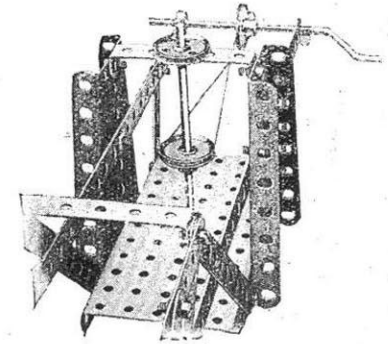
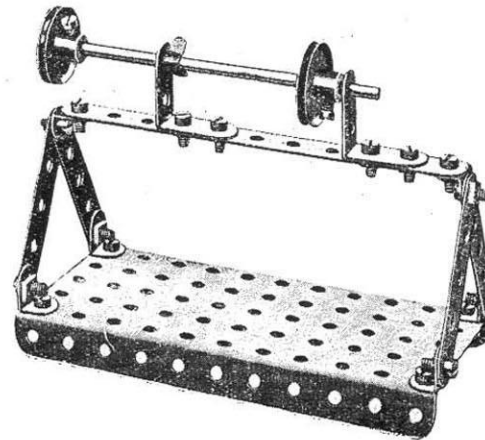


Fig. 206A.

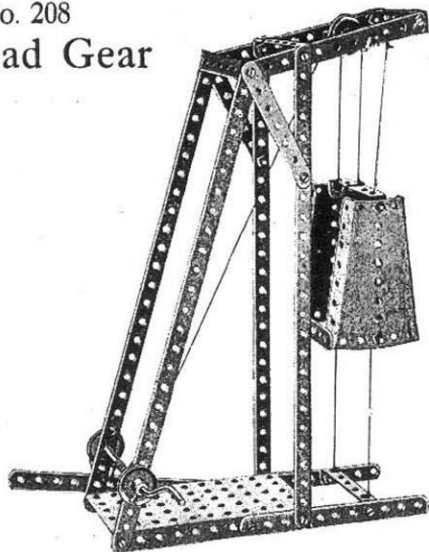
Model No. 207  
Polishing Spindle

Parts required :			
1 of No. 2	1 of No. 15A		
4 " " 5	2 " " 22		
6 " " 12	1 " " 35		
2 " " 12A	16 " " 37		
	1 " " 52		

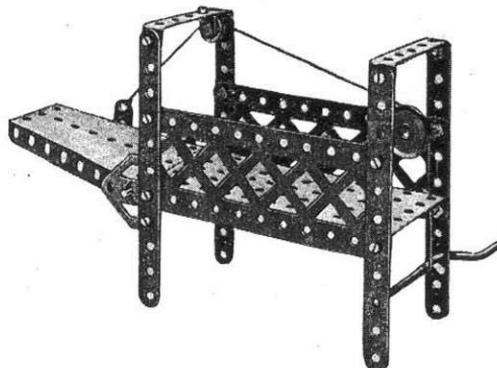
### Model No. 208 Pit Head Gear

Parts required:

4	of No.	1
5	" "	2
2	" "	3
2	" "	5
2	" "	12
1	" "	16
1	" "	19
3	" "	22
2	" "	35
25	" "	37
5	" "	48A
1	" "	52
2	" "	54



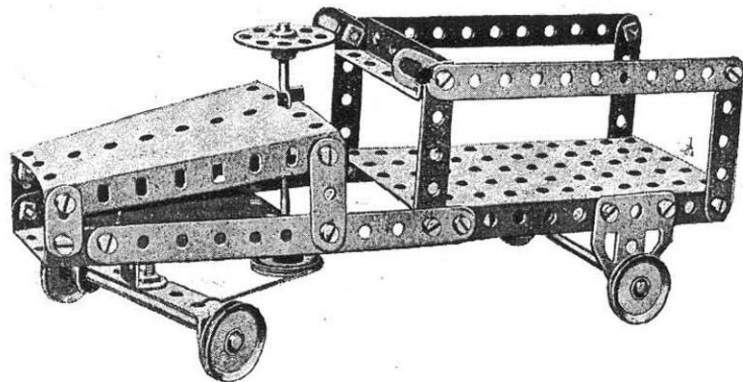
### Model No. 209 Gangway



Parts required:

4	of No.	2	1	of No.	22	1	of No.	52
1	" "	10	1	" "	23	1	" "	54
1	" "	12	4	" "	35	2	" "	100
1	" "	16	17	" "	37	2	" "	126A
1	" "	19	2	" "	48A			

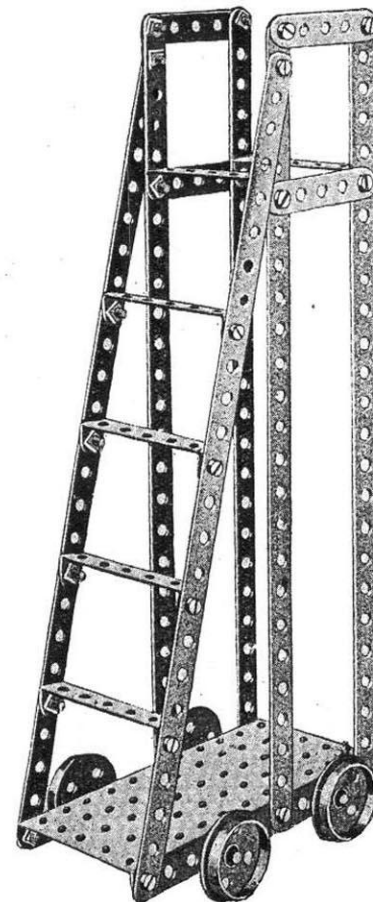
### Model No. 211—Motor Cart



Parts required:

4	of No.	2
4	" "	5
2	" "	6A
4	" "	10
1	" "	11
3	" "	16
3	" "	22
2	" "	22A
1	" "	24
3	" "	35
26	" "	37
3	" "	48A
1	" "	52
2	" "	54
2	" "	126A

### Model No. 210 Ladder on Wheels



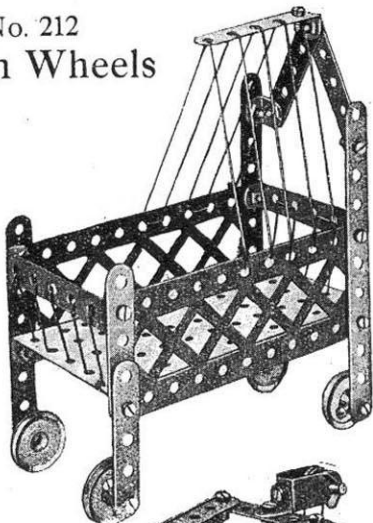
Parts required:

6	of No.	1	24	of No.	37
4	" "	5	6	" "	48A
2	" "	16	1	" "	52
4	" "	20			

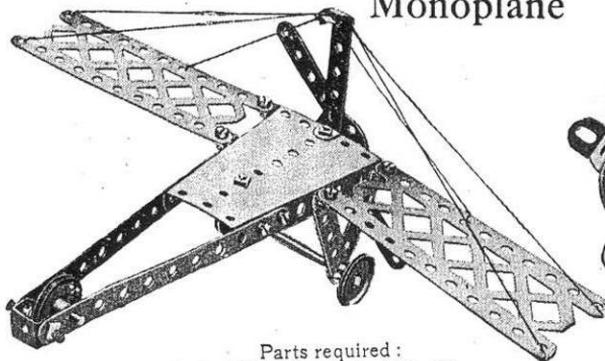
These Models can be made with MECCANO Outfit No. 2, or No. 1 and No. 1A

Model No. 212  
Cot on Wheels

Parts  
required:  
2 of No. 2  
7 " " 5  
3 " " 12  
4 " " 22  
18 " " 37  
2 " " 48A  
2 " " 100

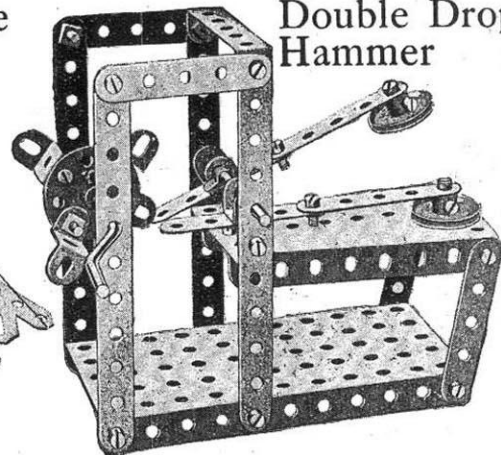


Model No 213  
Monoplane



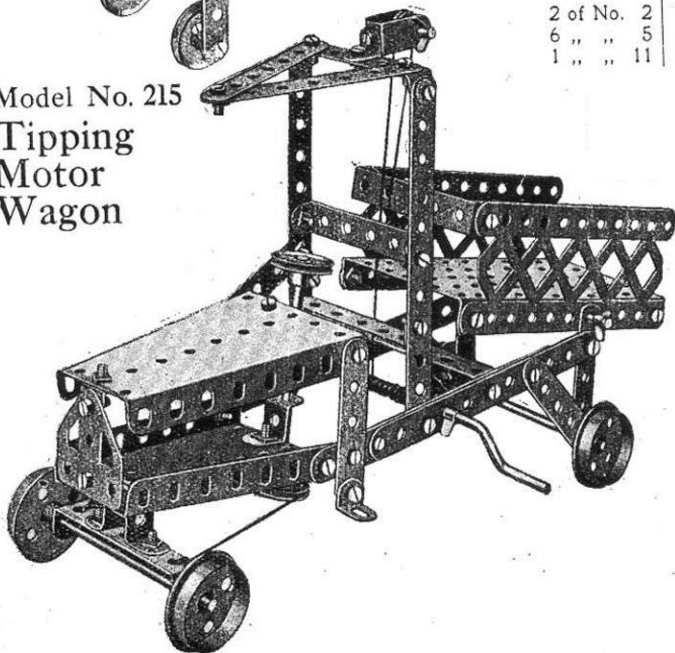
Parts required:  
2 of No. 2 | 6 of No. 12 | 1 of No. 35  
6 " " 5 | 2 " " 16 | 18 " " 37  
1 " " 11 | 1 " " 18A | 1 " " 48A  
3 " " 22 | 1 " " 54  
1 " " 24 | 2 " " 100.

Model No. 214  
Double Drop  
Hammer



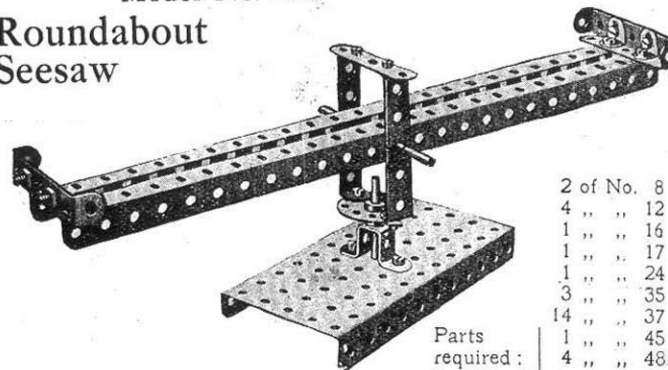
Parts  
required:  
4 of No. 2 | 1 of No. 16 | 25 of No. 37  
8 " " 5 | 1 " " 19 | 2 " " 48A  
2 " " 11 | 2 " " 22 | 1 " " 52  
6 " " 35 | 1 " " 24 | 1 " " 54  
4 " " 125

Model No. 215  
Tipping  
Motor  
Wagon



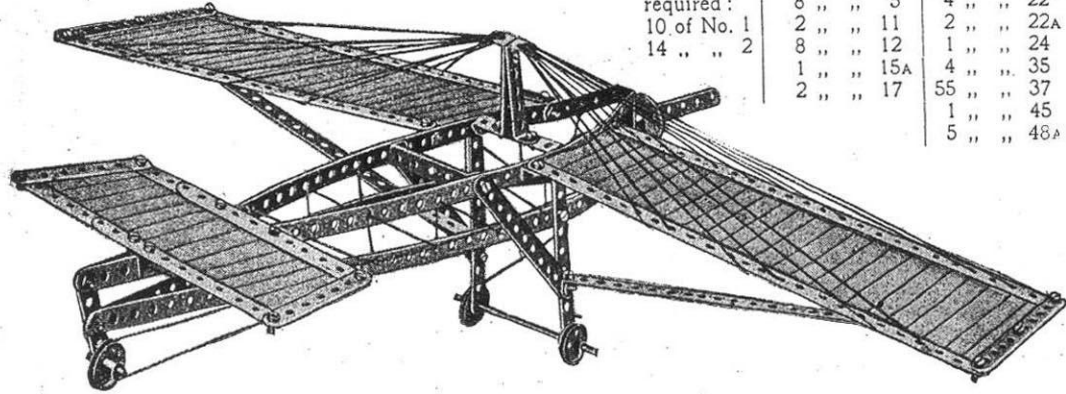
Parts required:  
6 of No. 2  
2 " " 3  
7 " " 5  
1 " " 10  
4 " " 12  
4 " " 16  
1 " " 18A  
1 " " 19  
4 " " 20  
2 " " 22  
1 " " 23  
7 " " 35  
43 " " 37  
2 " " 38  
1 " " 44  
1 " " 45  
6 " " 48A  
1 " " 52  
2 " " 54  
2 " " 100  
2 " " 125  
1 " " 126A

Model No. 216  
Roundabout  
Seesaw



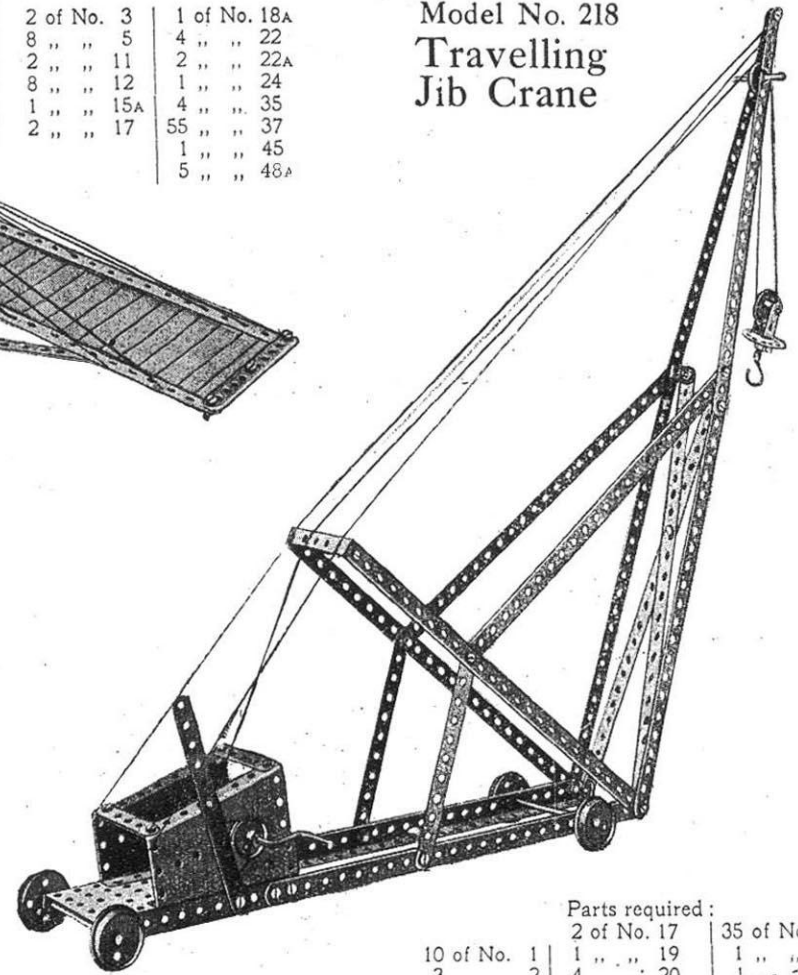
2 of No. 8  
4 " " 12  
1 " " 16  
1 " " 17  
1 " " 24  
3 " " 35  
14 " " 37  
Parts  
required:  
3 of No 5 | 1 " " 45  
1 " " 52

### Model No. 217—Monoplane



Parts required:	2 of No. 3	1 of No. 18A
10 of No. 1	8 " " 5	4 " " 22
14 " " 2	2 " " 11	2 " " 22A
	8 " " 12	1 " " 24
	1 " " 15A	4 " " 35
	2 " " 17	55 " " 37
		1 " " 45
		5 " " 48A

### Model No. 218 Travelling Jib Crane



Parts required:	2 of No. 17	35 of No. 37
10 of No. 1	1 " " 19	1 " " 44
3 " " 2	4 " " 20	1 " " 48A
3 " " 5	2 " " 22	1 " " 52
2 " " 8	1 " " 22A	2 " " 54
4 " " 12	1 " " 24	1 " " 57
2 " " 16	5 " " 35	

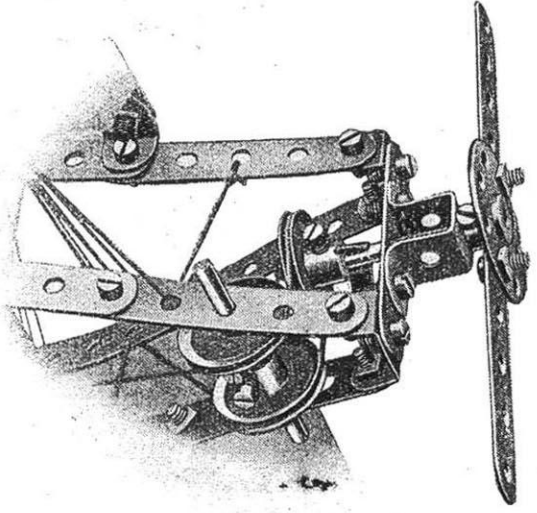
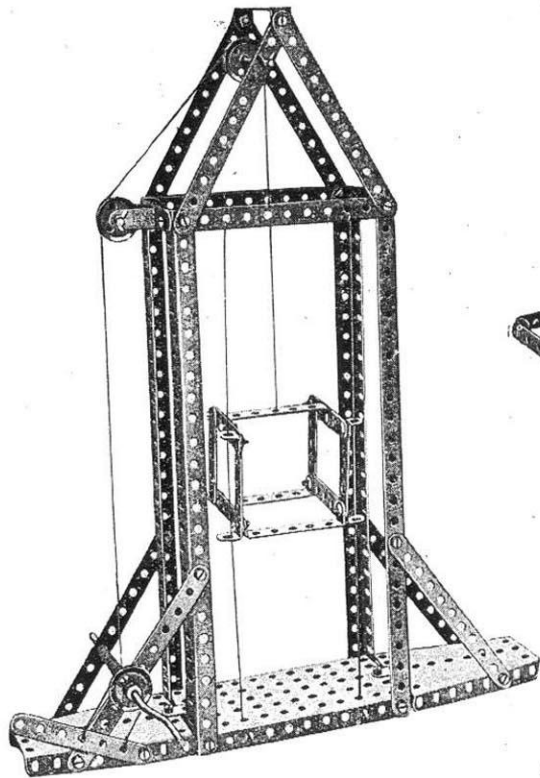


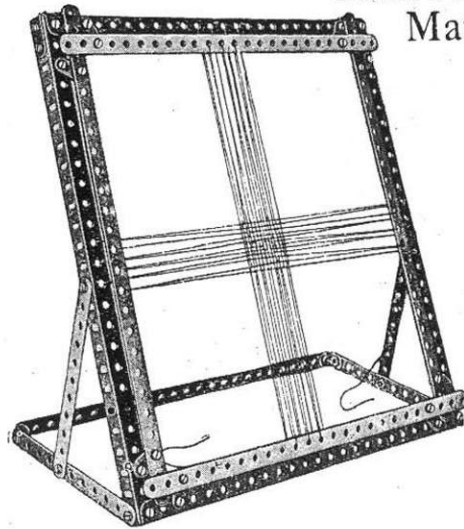
FIG. 217A

Model No. 219  
Elevator



		Parts required :	
10 of No. 2	1 of No. 16	38 of No. 37	
1 " " 3	1 " " 18A	1 " " 44	
10 " " 5	1 " " 19	4 " " 48A	
4 " " 8	1 " " 22	1 " " 52	
2 " " 10	2 " " 22A	2 " " 54	
4 " " 12	5 " " 35		

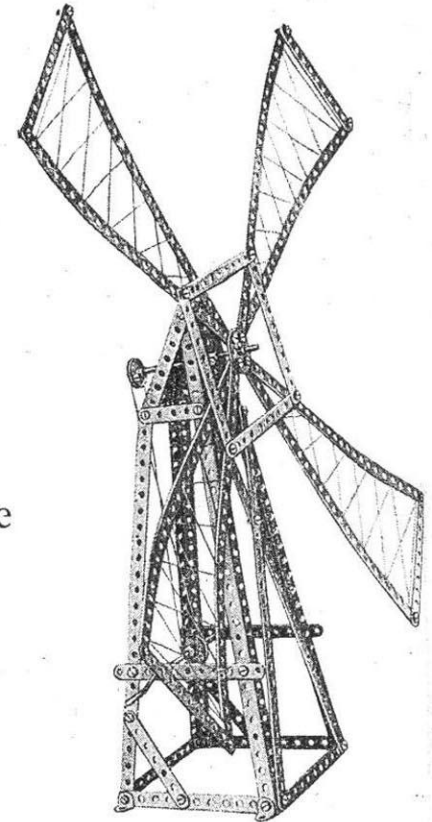
Model No. 220  
Mat Frame



Parts required :

5 of No. 1	
4 " " 2	
4 " " 8	
8 " " 10	
2 " " 12	
2 " " 12A	
36 " " 37	

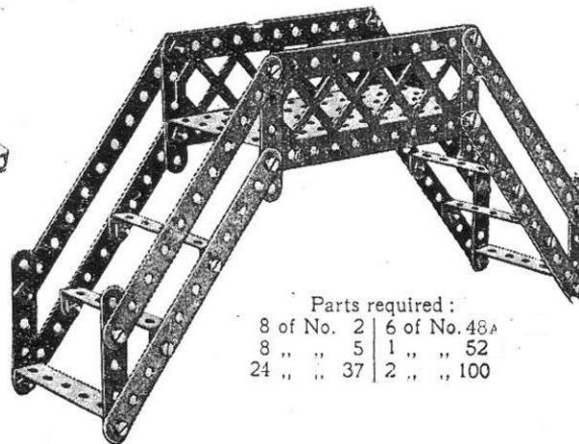
Model No. 221  
Windmill



Parts required :

10 of No. 1	4 of No. 8	1 of No. 24
14 " " 2	4 " " 12	4 " " 35
2 " " 3	1 " " 15	45 " " 37
2 " " 5	1 " " 19	2 " " 54
	2 " " 22	

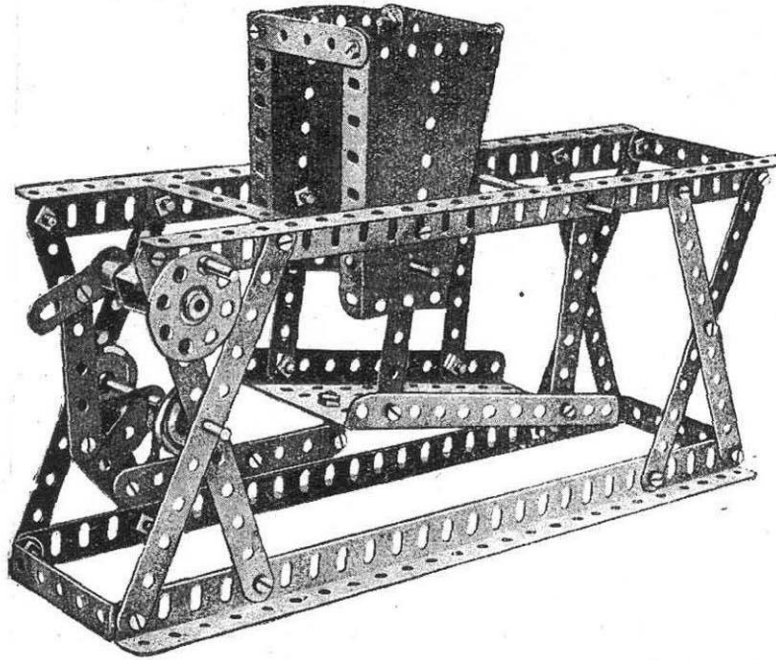
Model No. 222—High-level  
Bridge



Parts required :

8 of No. 2	6 of No. 48A
8 " " 5	1 " " 52
24 " " 37	2 " " 100

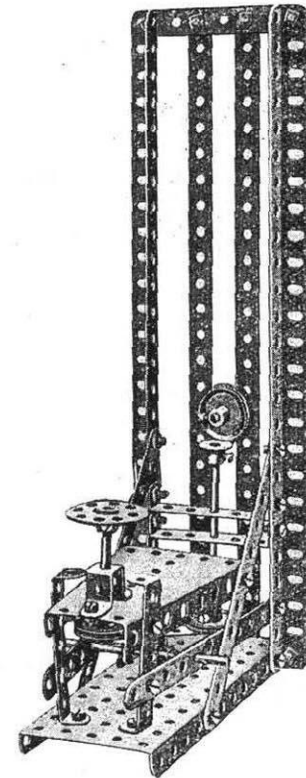
### Model No. 223--Coal Sifter



Parts  
required :

8 of No.	2
2 " "	3
7 " "	5
4 " "	8
1 " "	12
3 " "	16
1 " "	17
2 " "	22
1 " "	24
6 " "	35
38 " "	37
1 " "	45
4 " "	48 <sup>A</sup>
1 " "	52
2 " "	54
1 " "	62
1 " "	115
1 " "	126 <sup>A</sup>

### Model No. 224 Try-your-strength Machine



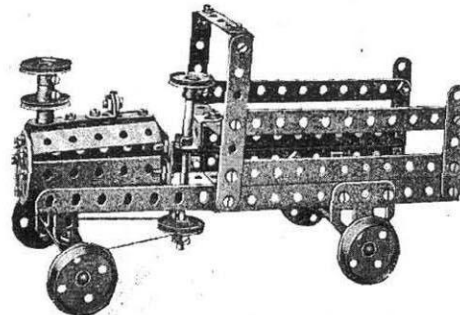
Parts required :

2 of No.	1	1 of No.	17	12 of No.	38
5 " "	2	1 " "	18 <sup>A</sup>	1 " "	45
2 " "	3	4 " "	22	4 " "	48 <sup>A</sup>
2 " "	8	1 " "	24	1 " "	52
1 " "	11	4 " "	35	1 " "	54
2 " "	16	30 " "	37	1 " "	126 <sup>A</sup>

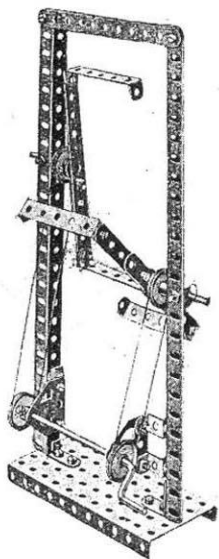
### Model No. 225--Locomotive

Parts required :

4 of No.	2	1 of No.	24
2 " "	3	2 " "	35
6 " "	5	47 " "	37
3 " "	10	1 " "	45
7 " "	12	6 " "	48 <sup>A</sup>
3 " "	16	1 " "	52
1 " "	17	1 " "	54
4 " "	20	1 " "	62
4 " "	22	2 " "	125
1 " "	23	2 " "	126 <sup>A</sup>

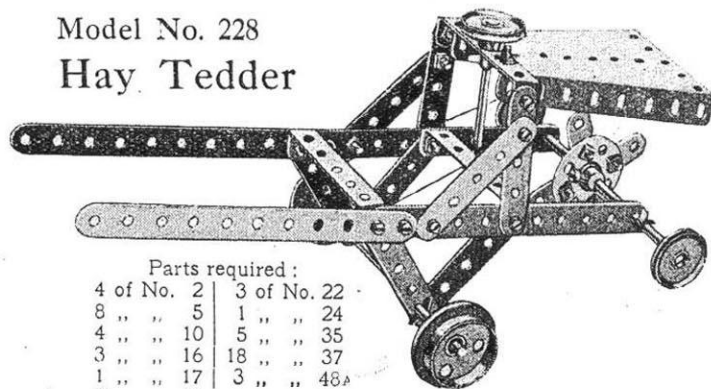


### Model No. 226 Candy Puller



Parts required:	
3 of No.	2
2 " "	8
2 " "	12
2 " "	12A
2 " "	17
1 " "	19
4 " "	22
2 " "	35
26 " "	37
10 " "	38
4 " "	48A
1 " "	52
2 " "	62
4 " "	125
2 " "	126

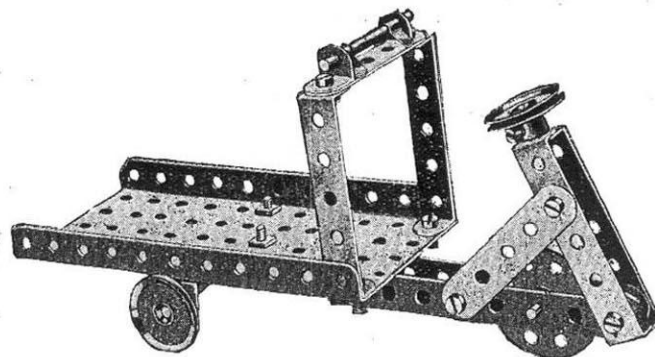
### Model No. 228 Hay Tedder



Parts required:	
4 of No. 2	3 of No. 22
8 " " 5	1 " " 24
4 " " 10	5 " " 35
3 " " 16	18 " " 37
1 " " 17	3 " " 48A
2 " " 20	1 " " 54

### Model No. 227—Carrier Tricycle

Parts required:	
2 of No.	2
3 " "	5
1 " "	11
2 " "	12
1 " "	16
1 " "	17
1 " "	18A
3 " "	22
1 " "	24
2 " "	35
15 " "	37
5 " "	48A
1 " "	52



### Model No. 229 Baby Chair

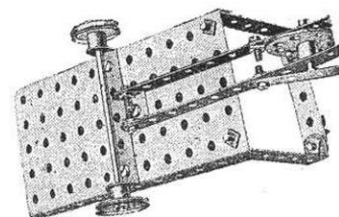
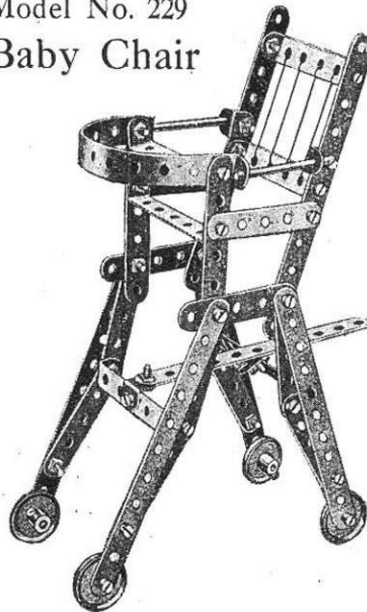


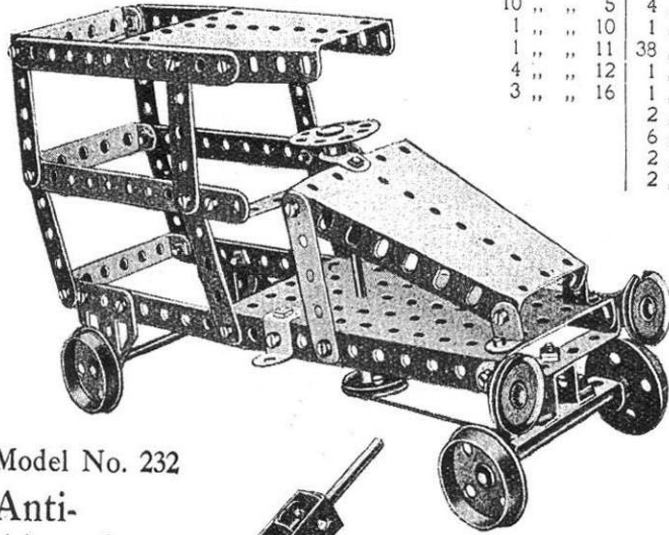
FIG. 227A

Carrier Tricycle, underneath view

Parts required:	
8 of No.	2
2 " "	3
12 " "	5
6 " "	12
2 " "	17
4 " "	22
31 " "	37
6 " "	48A



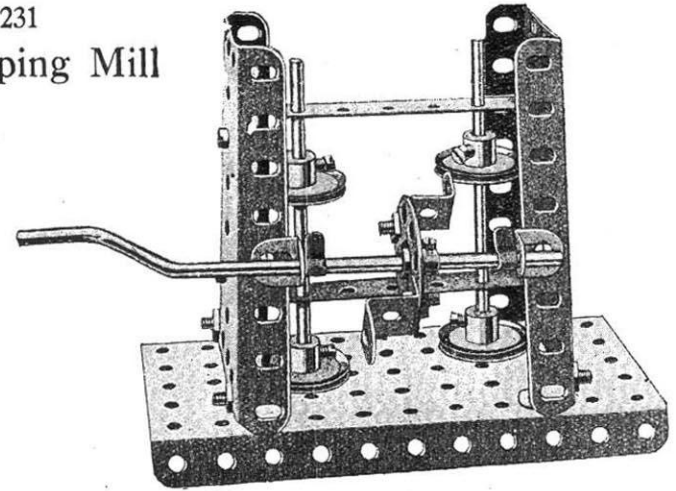
Model No. 230—Motor Van



Parts required:

6 of No. 2	4 of No. 20
10 " " 5	4 " " 22
1 " " 10	1 " " 24
1 " " 11	38 " " 37
4 " " 12	1 " " 44
3 " " 16	1 " " 52
	2 " " 54
	6 " " 48A
	2 " " 125
	2 " " 126A

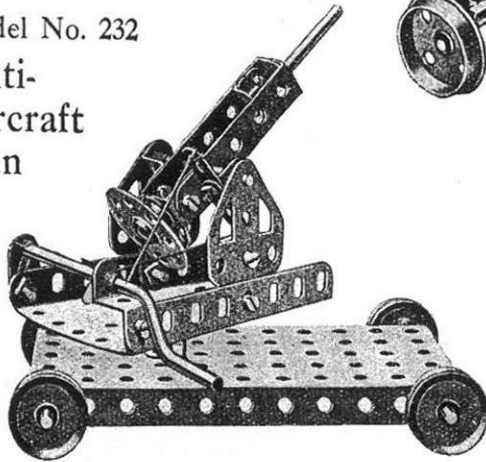
Model 231  
Stamping Mill



Parts required:

2 of No. 3	4 of No. 22	1 of No. 52
10 " " 12	1 " " 24	2 " " 54
2 " " 16	2 " " 35	2 " " 125
1 " " 19	16 " " 37	

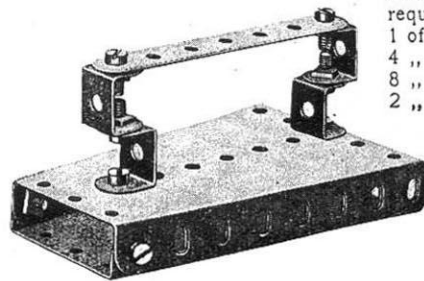
Model No. 232  
Anti-Aircraft  
Gun



Parts required:

5 of No. 10	4 of No. 22	1 of No. 52
2 " " 11	1 " " 24	1 " " 54
2 " " 16	4 " " 35	4 " " 125
2 " " 17	12 " " 37	2 " " 126A
1 " " 19	2 " " 48A	

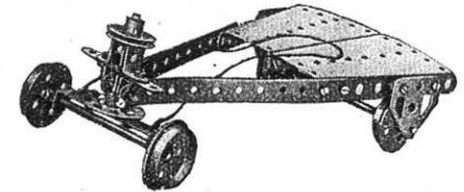
Model No. 233  
Smoothing Iron



Parts required:

1 of No. 3
4 " " 11
8 " " 37
2 " " 54

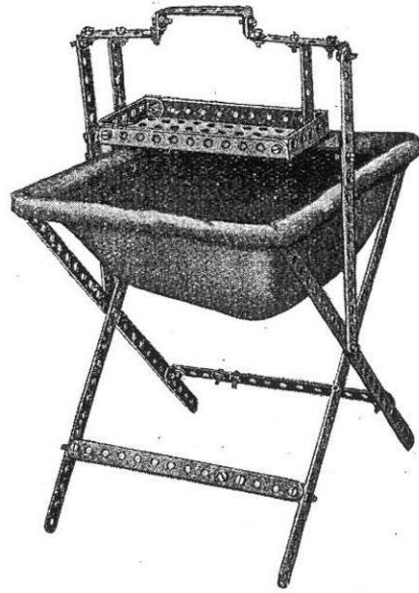
Model No. 234  
Coaster



Parts required:

2 of No. 2	1 of No. 17	6 of No. 38
1 " " 5	4 " " 20	1 " " 45
2 " " 12	1 " " 22	1 " " 48A
1 " " 15	1 " " 24	2 " " 54
1 " " 16	16 " " 37	2 " " 126A

These Models can be made with MECCANO Outfit No. 2, or No. 1 and No. 1A

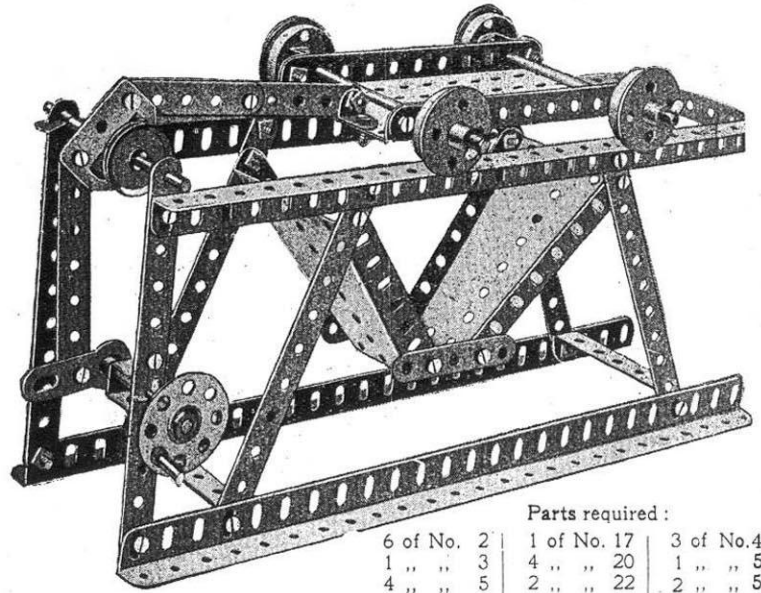


Model No. 235  
Needlework  
Basket

Parts required :

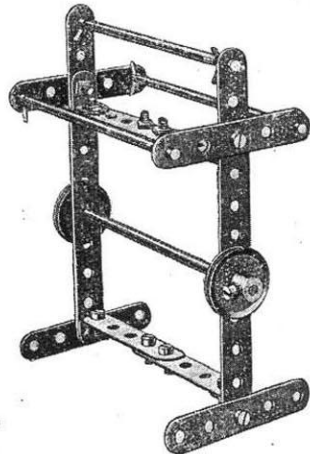
6 of No.	1
6 " "	2
2 " "	3
6 " "	5
12 " "	12
46 " "	37
3 " "	48 <sup>A</sup>
1 " "	52

Model No. 236 -Sifter



Parts required :

6 of No.	2	1 of No.	17	3 of No.	48 <sup>A</sup>
1 " "	3	4 " "	20	1 " "	52
4 " "	5	2 " "	22	2 " "	54
4 " "	8	1 " "	24	1 " "	62
1 " "	12	7 " "	35	1 " "	115
2 " "	15	34 " "	37	4 " "	125
1 " "	16	1 " "	45	1 " "	126 <sup>A</sup>

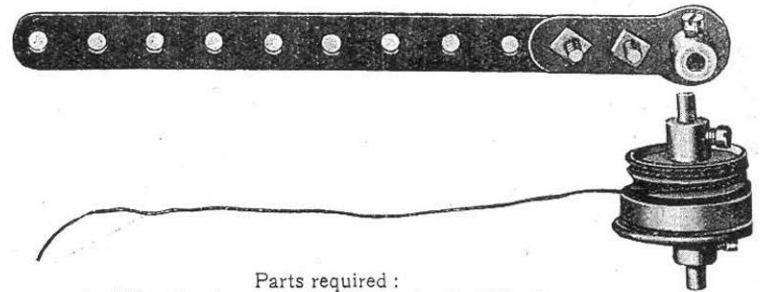


Model No. 237  
Towel Rail

Parts required :

2 of No.	2
8 " "	5
4 " "	12
1 " "	15
4 " "	16
2 " "	22
6 " "	35
12 " "	37

Model No. 238—Spinning Top



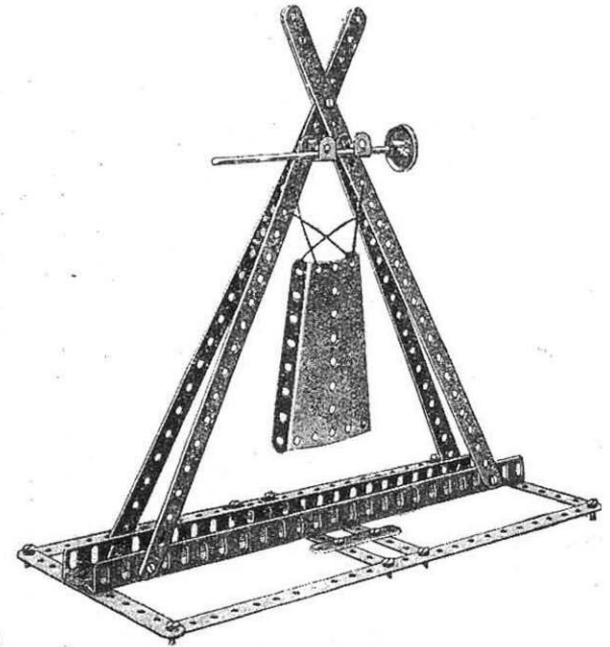
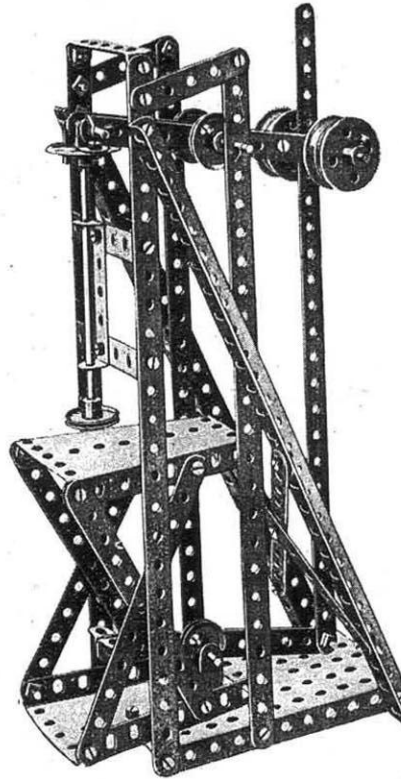
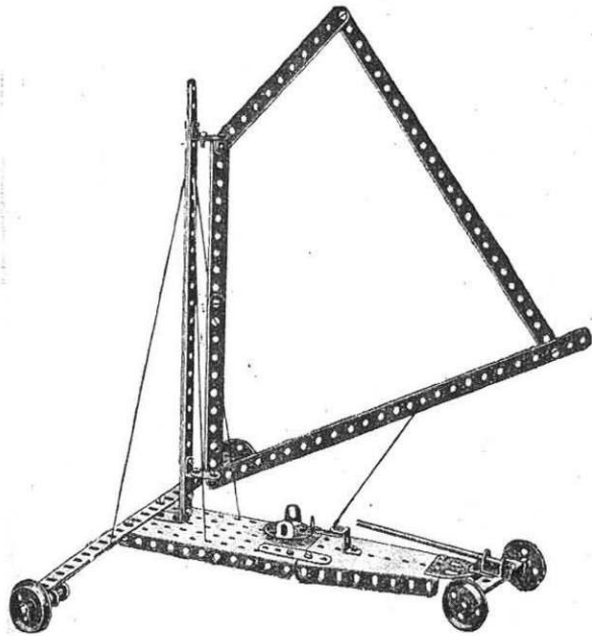
1 of No.	2	Parts required :	1 of No.	20	2 of No.	37
1 " "	17		2 " "	22	1 " "	62

Model No. 239—Seashore Aeroplane

Model No. 240—

Model No. 241—Dinner Gong

Embossing Machine



Parts required :

4 of No. 1	1 of No. 12A	33 of No. 37
3 " " 2	1 " " 15	1 " " 38
2 " " 5	1 " " 16	1 " " 48A
1 " " 8	2 " " 17	1 " " 52
3 " " 10	4 " " 20	1 " " 54
3 " " 11	1 " " 24	1 " " 125
7 " " 12	6 " " 35	1 " " 126A

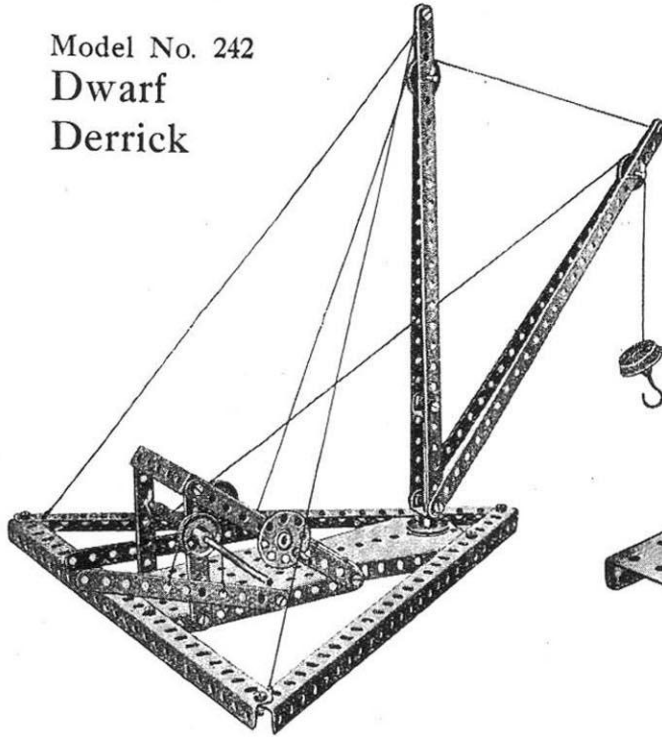
Parts required :

5 of No. 1	2 of No. 16	44 of No. 37
9 " " 2	1 " " 17	1 " " 44
2 " " 5	1 " " 18A	4 " " 48A
2 " " 8	4 " " 20	1 " " 52
2 " " 11	4 " " 22	2 " " 54
4 " " 12	1 " " 24	
1 " " 15	4 " " 35	

Parts required :

6 of No. 1	1 of No. 15
4 " " 2	1 " " 22
2 " " 5	27 " " 37
2 " " 8	1 " " 54
2 " " 11	

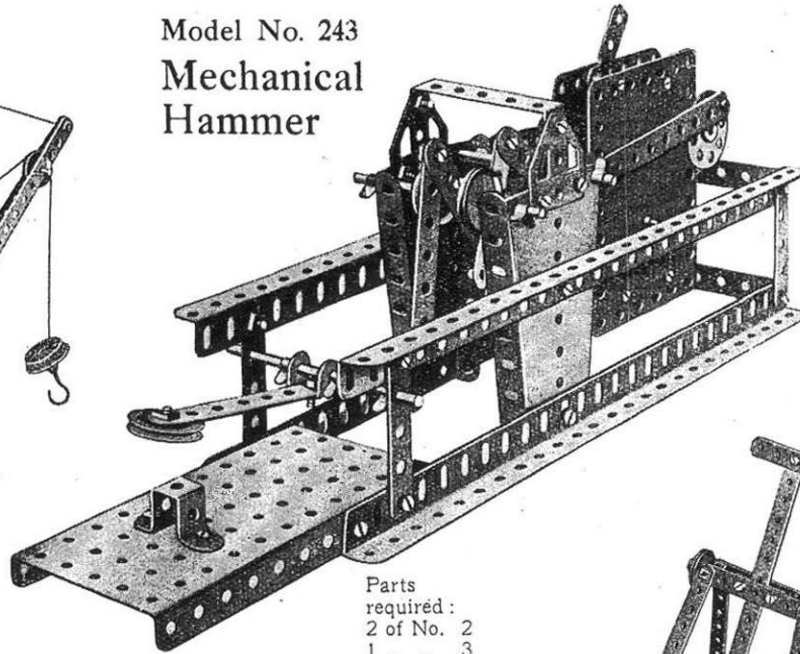
Model No. 242  
Dwarf  
Derrick



Parts required :

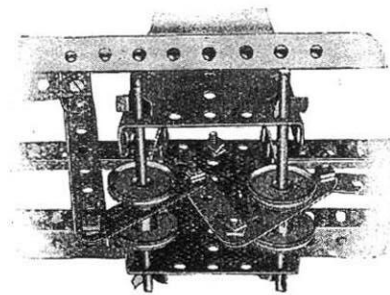
4 of No. 1	2 of No. 22A
4 " " 2	1 " " 24
2 " " 3	6 " " 35
3 " " 8	23 " " 37
2 " " 11	4 " " 38
2 " " 16	1 " " 48A
2 " " 18A	1 " " 52
1 " " 19	1 " " 54
1 " " 20	1 " " 57
4 " " 22	1 " " 115

Model No. 243  
Mechanical  
Hammer



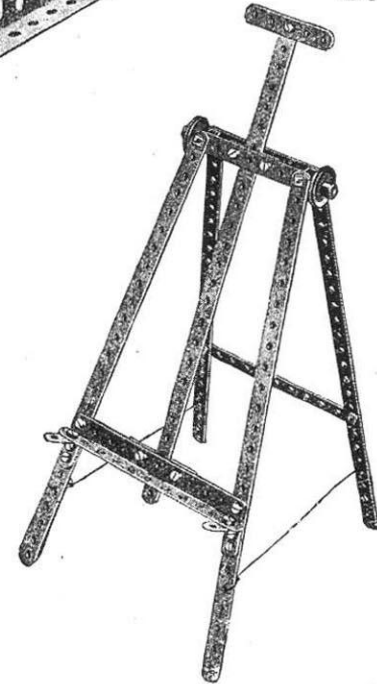
Parts required :

2 of No. 2	
1 " " 3	
6 " " 5	
4 " " 8	
1 " " 11	
1 " " 12	
3 " " 16	
4 " " 22	
1 " " 22A	
1 " " 24	
8 " " 35	
32 " " 37	
1 " " 45	
3 " " 48A	
1 " " 52	
2 " " 54	
2 " " 126A	



Clockwork Motor.

Model No. 244  
Easel



Parts required :

5 of No. 1	
3 " " 2	
2 " " 3	
3 " " 5	
4 " " 12	
2 " " 12	
1 " " 15	
2 " " 22	
19 " " 37	
4 " " 38	

FIG. 243A.

### Model No. 245 Extending Ladder on Running Carriage

Parts  
required:

2	of No.	1
8	" "	2
1	" "	3
7	" "	5
4	" "	8
5	" "	12
4	" "	16
1	" "	18A
1	" "	19
4	" "	20
4	" "	22
1	" "	22A
1	" "	24
6	" "	35
47	" "	37
2	" "	38
1	" "	44
1	" "	45
7	" "	48A
1	" "	52
2	" "	54
1	" "	115
2	" "	125
2	" "	126A

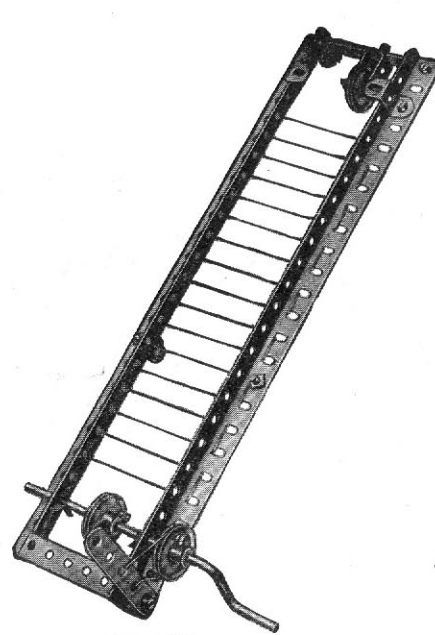
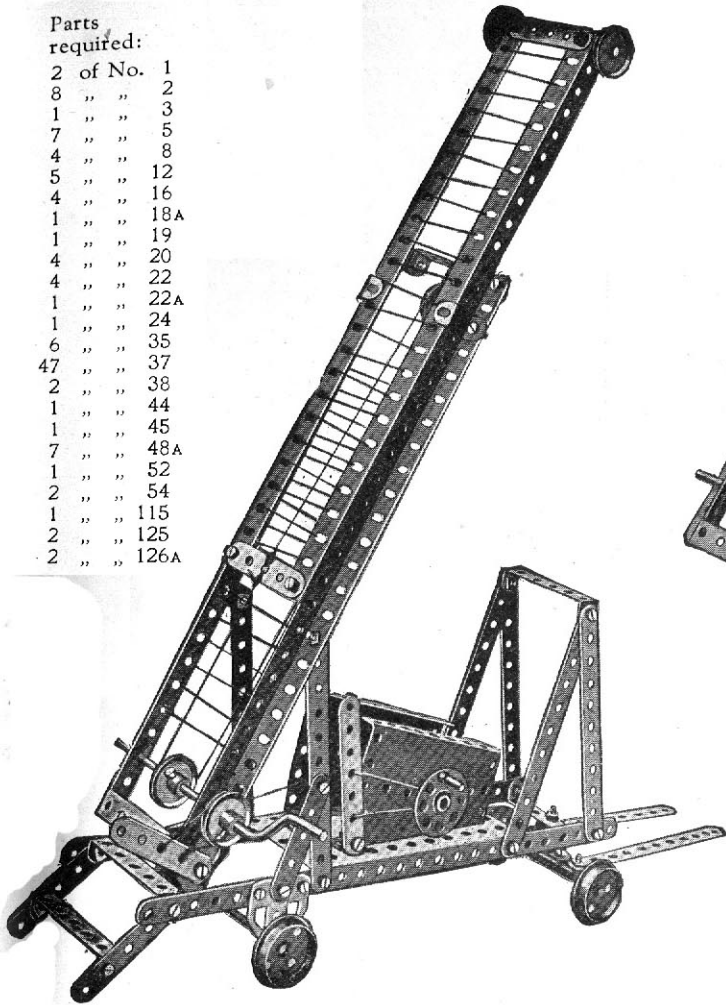


FIG. 245A

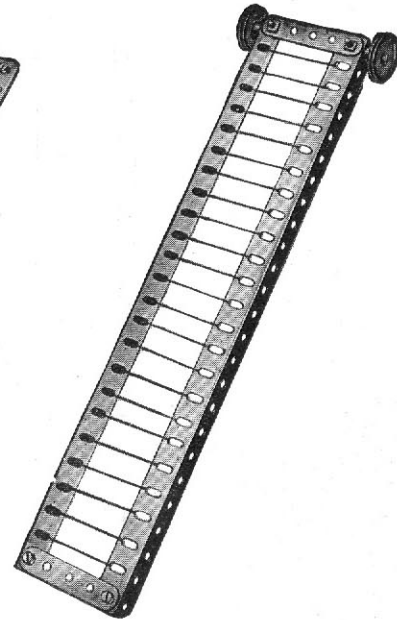
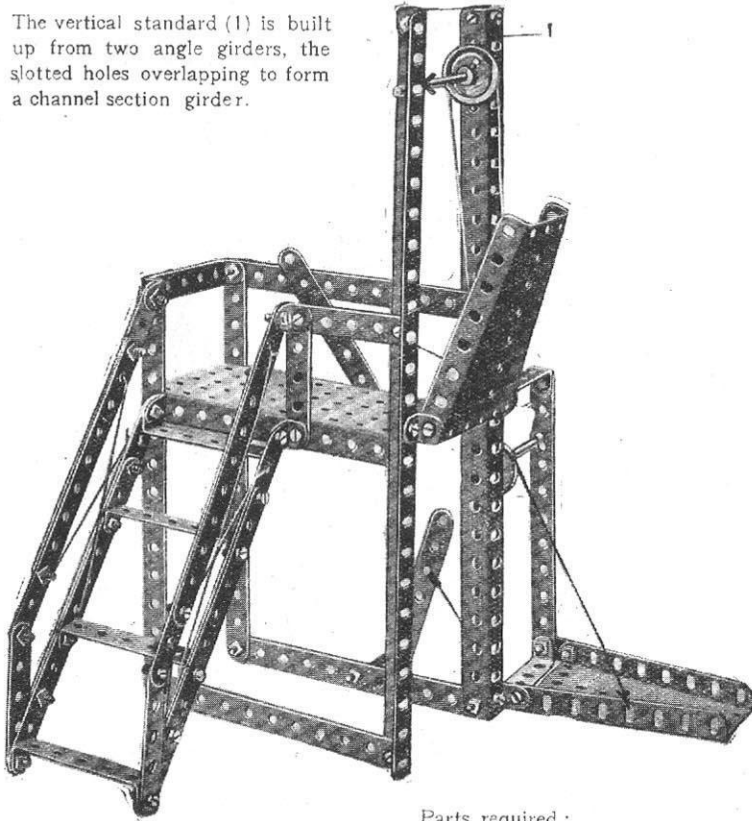


FIG. 245B

The bed of the lower carriage framework is formed by bolting two 12½" strips to the sides of a large flanged plate, and two sector plates bolted to the flanged plate by their flanges to form the sides, and a bearing for the spindle carrying the operating cord attached to the bottom of the ladder to raise it from a horizontal position; and the strips 1 form a support for the ladder when in this horizontal position. Angle brackets 2, Fig. 245A, form pivots for the lower part of the ladder, and are carried from the supports 3. The upper part of the ladder, Fig. 245, is slideably guided and retained on the lower ladder by reversed brackets 4. The extension of the ladder is effected by the cranked spindle round a pulley on which (and another pulley at the top of the framework) the cord is passed, the ends being secured to the lower part of the slideable ladder.

### Model No. 246 Ferry Gangway

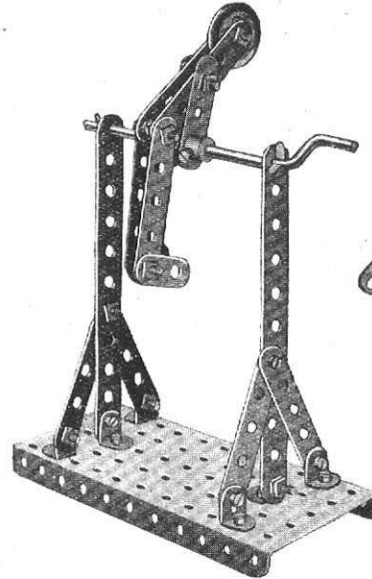
The vertical standard (1) is built up from two angle girders, the slotted holes overlapping to form a channel section girder.



Parts required :

14 of No. 2	6 of No. 12	1 of No. 45
2 " " 3	2 " " 16	8 " " 48A
6 " " 5	2 " " 22	1 " " 52
3 " " 8	2 " " 35	2 " " 54
2 " " 10	54 " " 37	

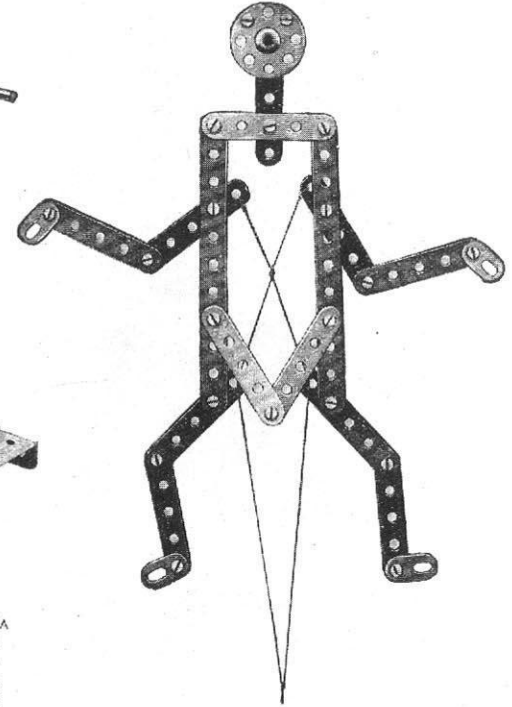
### Model No. 247 The Acrobat



Parts required

2 of No. 2	1 of No. 22A
8 " " 5	2 " " 35
2 " " 10	21 " " 37
6 " " 12	1 " " 52
1 " " 19	2 " " 62

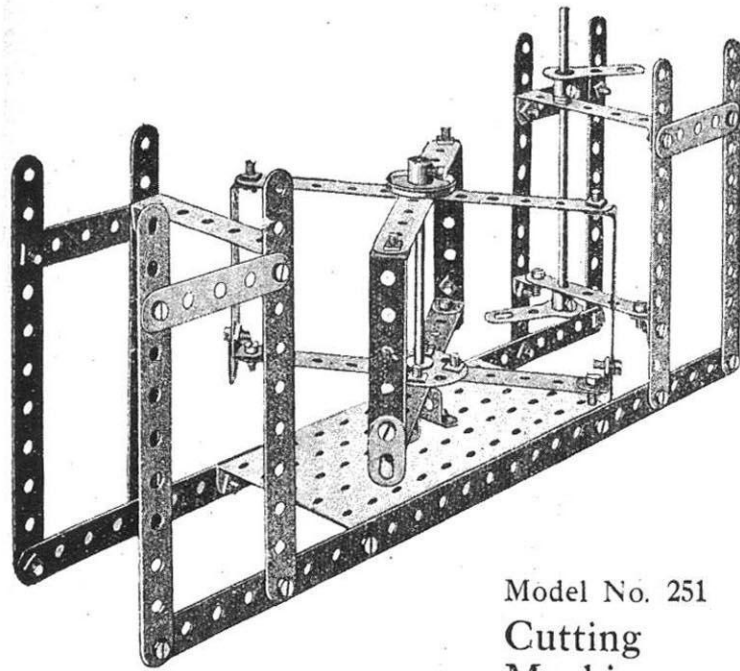
### Model No. 248 Jumping Jack



Parts  
required :

2 of No. 2
12 " " 5
4 " " 10
1 " " 24
18 " " 37

Model No. 249 Turnstile



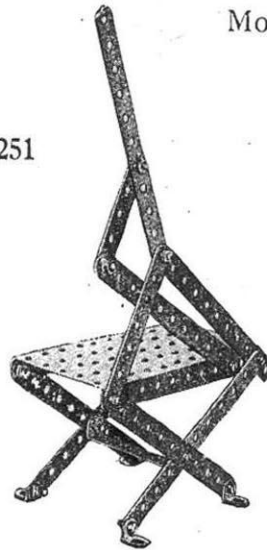
Parts required :

2 of No. 1	1 of No. 24
10 " " 2	42 " " 37
9 " " 5	2 " " 33
4 " " 10	1 " " 45
2 " " 12	6 " " 48A
1 " " 15	1 " " 52
1 " " 15A	2 " " 62
2 " " 22	

Model No. 251  
Cutting  
Machine

Parts  
required :

7 of No. 2
1 " " 3
1 " " 5
4 " " 12
14 " " 37
1 " " 48A
1 " " 52



Model No. 250  
Chair for  
Wounded

Parts  
required :

6 of No. 2
2 " " 3
10 " " 5
2 " " 11
2 " " 16
4 " " 22
21 " " 37
2 " " 48A
1 " " 52



Model No. 252

Magic Sector  
Plates

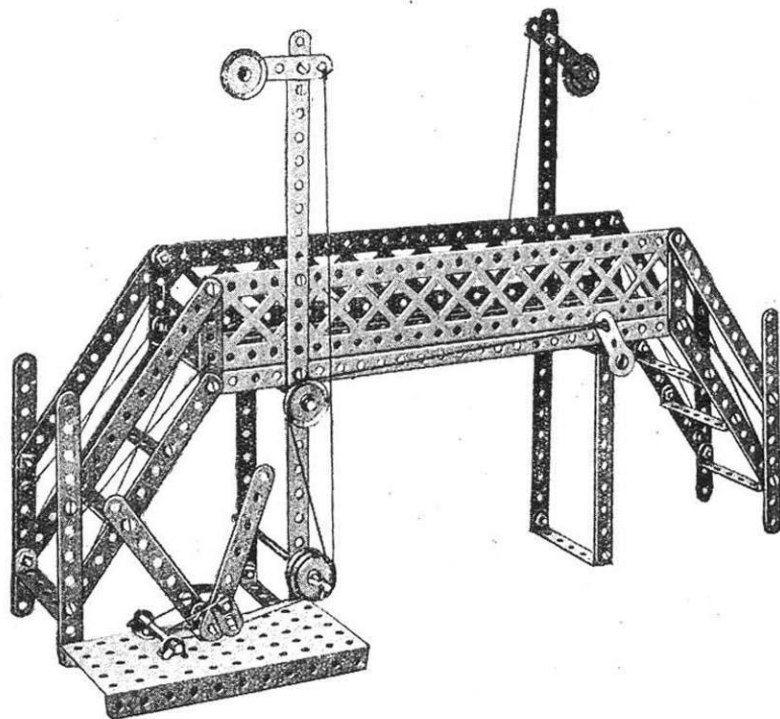
Parts  
required :

2 of No. 11
1 " " 17
2 " " 35
6 " " 37
2 " " 54



When the cord is held vertically the magic sector plates will fall or stop at the bidding of the owner. If the cord is held without tension the plates will fall, but the instant the cord is tightened they will stop dead. The cord is wrapped once around the rod which passes through the centre holes of the sector plates.

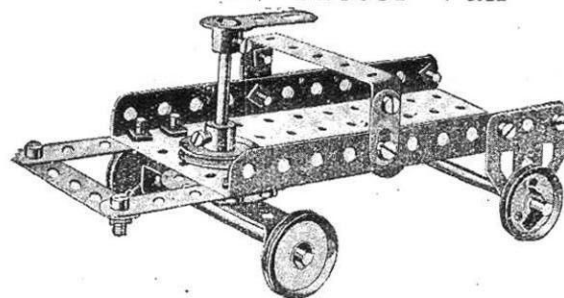
### Model No. 253 Railway Foot Bridge and Signals



Parts required :

4 of No. 1	1 of No. 11	2 of No. 22A
14 " " 2	2 " " 12	6 " " 35
2 " " 3	1 " " 15A	50 " " 37
8 " " 5	2 " " 16	8 " " 48A
2 " " 8	1 " " 17	1 " " 52
2 " " 10	3 " " 22	1 " " 62

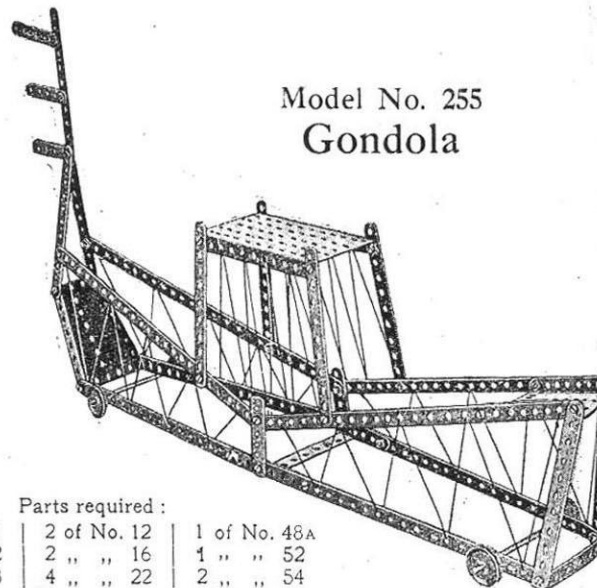
### Model No. 254 Motor Van



Parts required :

3 of No. 5	2 of No. 22A	2 of No. 48A
2 " " 10	1 " " 24	1 " " 52
2 " " 16	2 " " 35	1 " " 62
1 " " 17	16 " " 37	2 " " 126A
3 " " 22	2 " " 38	

### Model No. 255 Gondola

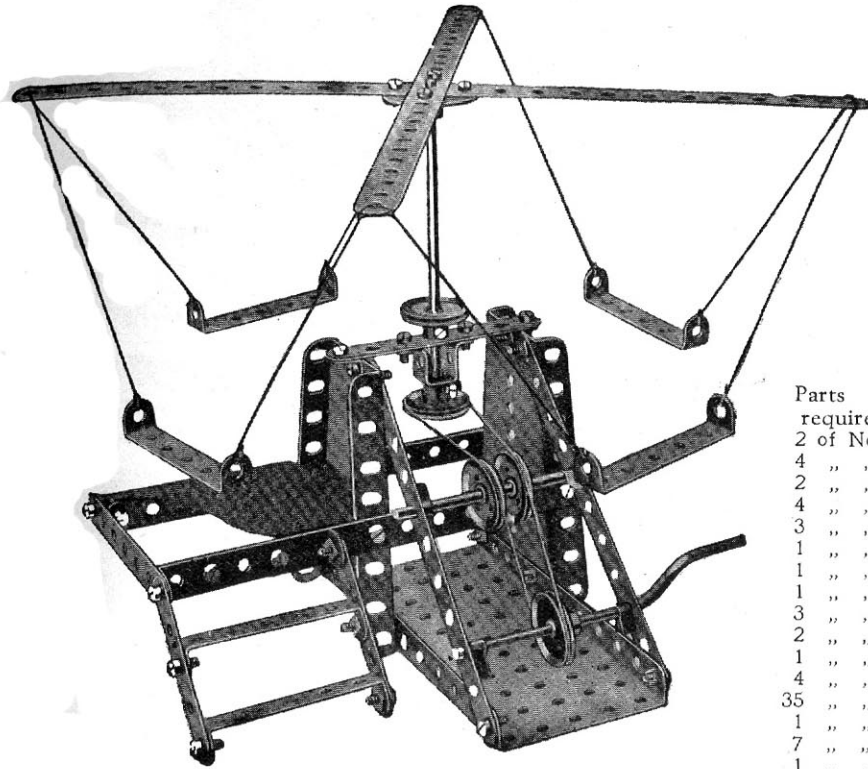


Parts required :

8 of No. 1	2 of No. 12	1 of No. 48A
9 " " 2	2 " " 16	1 " " 52
1 " " 3	4 " " 22	2 " " 54
5 " " 5	29 " " 37	



**Model No. 256 Roundabout**



Parts required:

2	of No.	1
4	" "	2
2	" "	3
4	" "	5
3	" "	12
1	" "	15
1	" "	16
1	" "	19
3	" "	22
2	" "	22A
1	" "	24
4	" "	35
35	" "	37
1	" "	45
7	" "	48A
1	" "	52
2	" "	54

**Model No. 257 Beam Scales**



Parts required:

5	of No.	1	6	of No.	12	5	of No.	48A
6	" "	2	2	" "	17	1	" "	52
7	" "	5	2	" "	22A	2	" "	54
4	" "	8	6	" "	35	2	" "	126A
			48	" "	37			

**HOW TO CONTINUE**

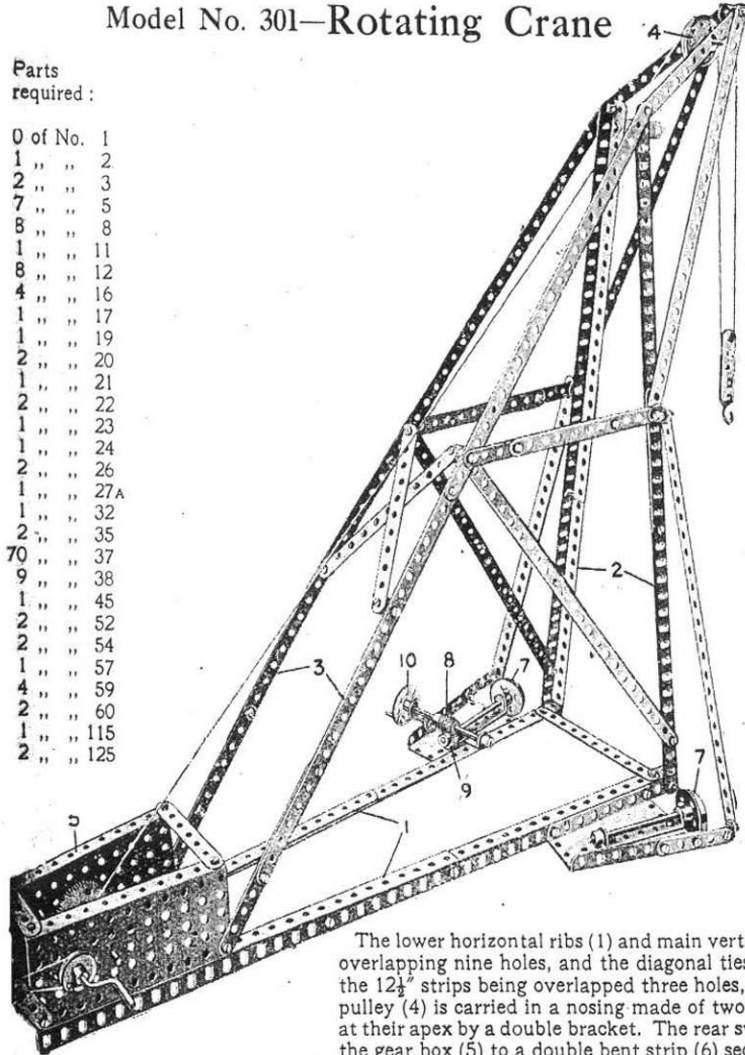
This completes the Models which may be made with MECCANO Outfit No. 2. The next Models are a little more advanced, requiring a number of extra parts to construct them. The necessary parts are all contained in a No. 2A Accessory Outfit, the price of which will be found in the List at the end of the Manual.

These Models can be made with MECCANO Outfit No. 3, or No. 2 and No. 2A

### Model No. 301—Rotating Crane

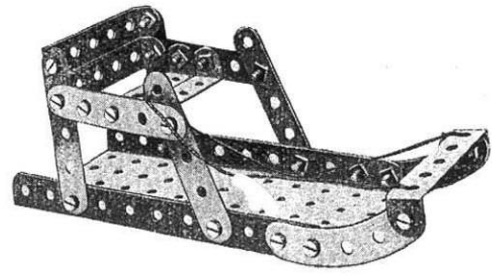
Parts required:

0	of No.	1
1	" "	2
2	" "	3
7	" "	5
8	" "	8
1	" "	11
8	" "	12
4	" "	16
1	" "	17
1	" "	19
2	" "	20
1	" "	21
2	" "	22
1	" "	23
1	" "	24
2	" "	26
1	" "	27A
1	" "	32
2	" "	35
70	" "	37
9	" "	38
1	" "	45
2	" "	52
2	" "	54
1	" "	57
4	" "	59
2	" "	60
1	" "	115
2	" "	125



The lower horizontal ribs (1) and main vertical members (2) are made of angle girders overlapping nine holes, and the diagonal ties (3) of two 12½" strips and one 5½" strip, the 12½" strips being overlapped three holes, and the lower 5½" strip seven holes. The pulley (4) is carried in a nosing made of two 5½" strips and two 12½" strips connected at their apex by a double bracket. The rear swivel point of the crane is made by bolting the gear box (5) to a double bent strip (6) secured to the floor. The crane runs on the flanged wheel (7) and is rotated by means of the worm (8) which engages a pinion (9) on the spindle of one of the flanged wheels and is rotated by the hand wheel (10).

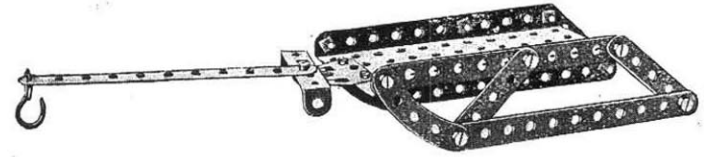
### Model No. 302—Toboggan



Parts required:

6	of No.	5
20	" "	37
1	" "	52
5	" "	60
2	" "	90

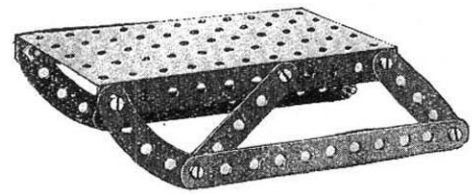
### Model No. 303—Horse Sleigh



Parts required:

3	of No.	2	13	of No.	37	1	of No.	60
4	" "	5	1	" "	52	2	" "	90
1	" "	23	1	" "	57	1	" "	126A

### Model No. 304—Sleigh



Parts required:

2		of No.	2		
4	" "	5	1	" "	52
10	" "	37	2	" "	90

## Model No. 305—Tower Wagon

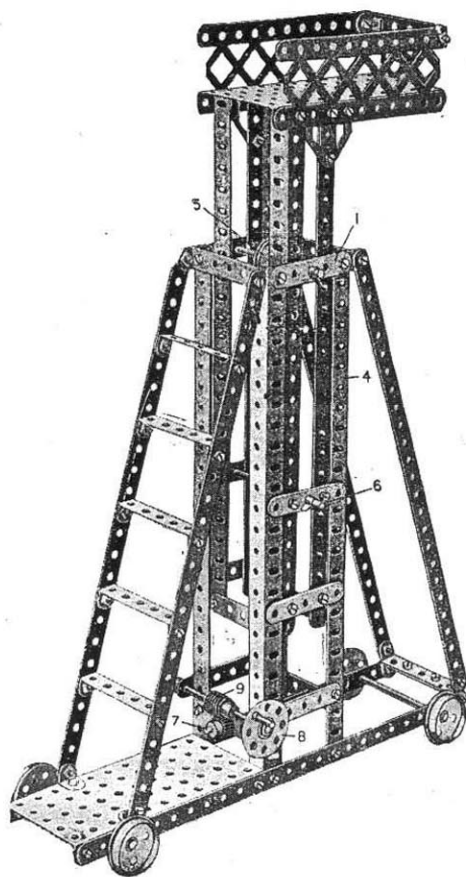


FIG. 305

Parts  
required:

6 of No.	1
2 "	4
10 "	5
8 "	8
2 "	12
2 "	15a
4 "	16
4 "	20
1 "	22a
1 "	24
1 "	26
1 "	32
4 "	35
72 "	37
8 "	38
2 "	52
3 "	59
10 "	60
1 "	93
2 "	100
1 "	115
2 "	126a

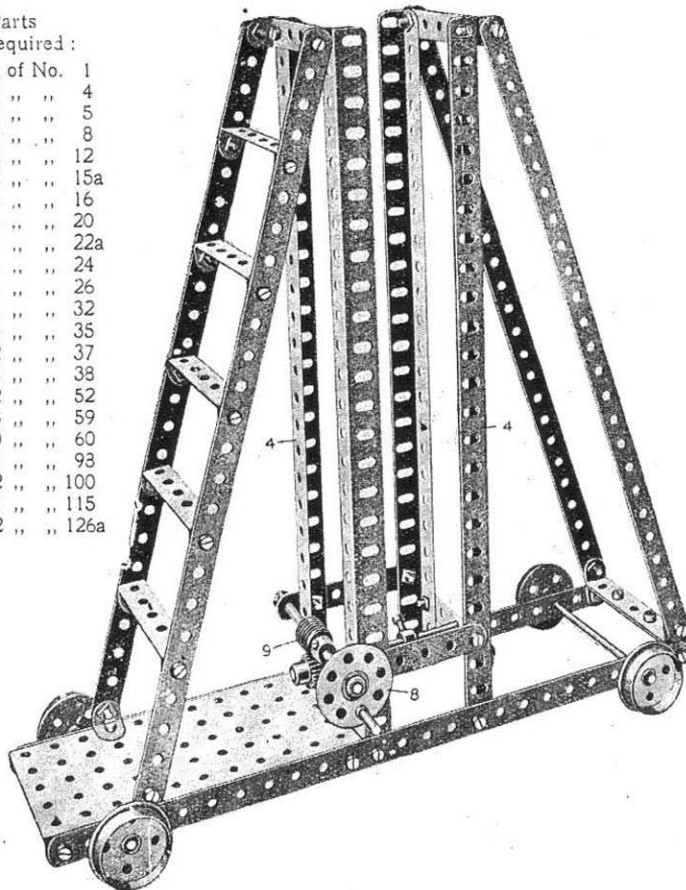


FIG. 305A

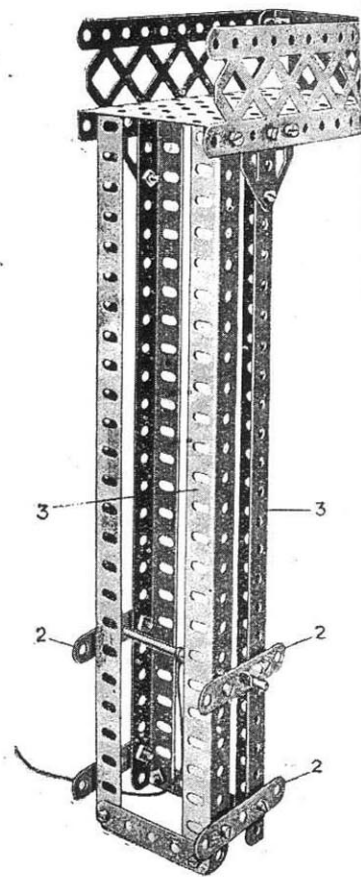
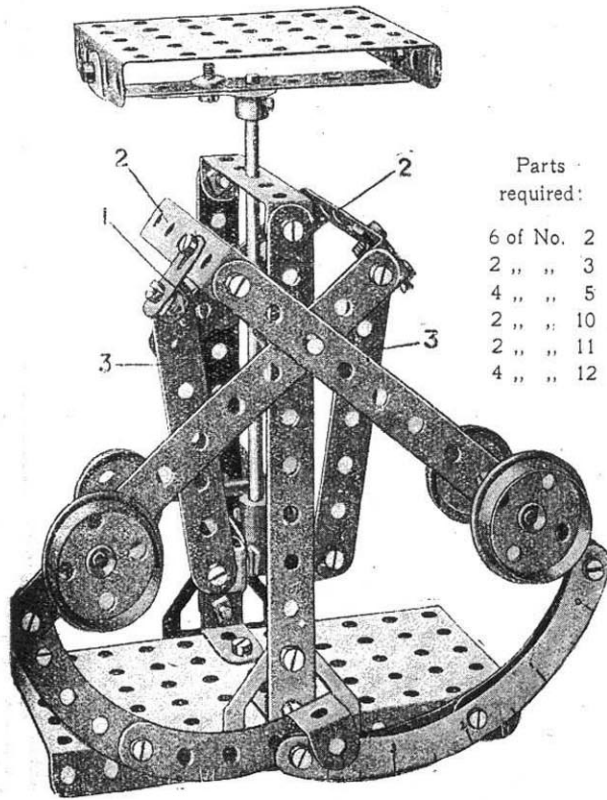


FIG. 305B

Begin the construction of this model by building up the platform, Fig. A, the tie strips (1) being left off as shown in order to be able to insert the rising and falling tower, Fig. B. The strips are then bolted on. The guide strips (2) are bolted to the girder (3) of the tower with washers beneath the strips. This gives the necessary clearance and enables the strips to rise easily up the faces of the girders (4) of the fixed lower part of the tower. The tower is raised by means of a cord which passes over a pulley (5) and is fastened to a rod (6), the other end of the cord winding on a rod (7) rotated by a hand wheel (8) on the spindle of the worm (9).

## Model No. 306 Letter Balance



Parts  
required:

6 of No. 2  
2 " " 3  
4 " " 5  
2 " " 10  
2 " " 11  
4 " " 12

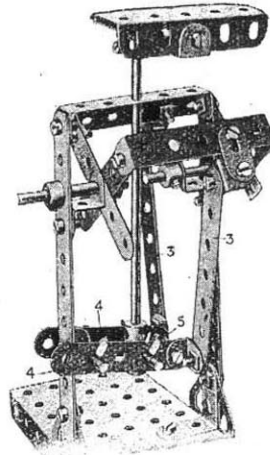
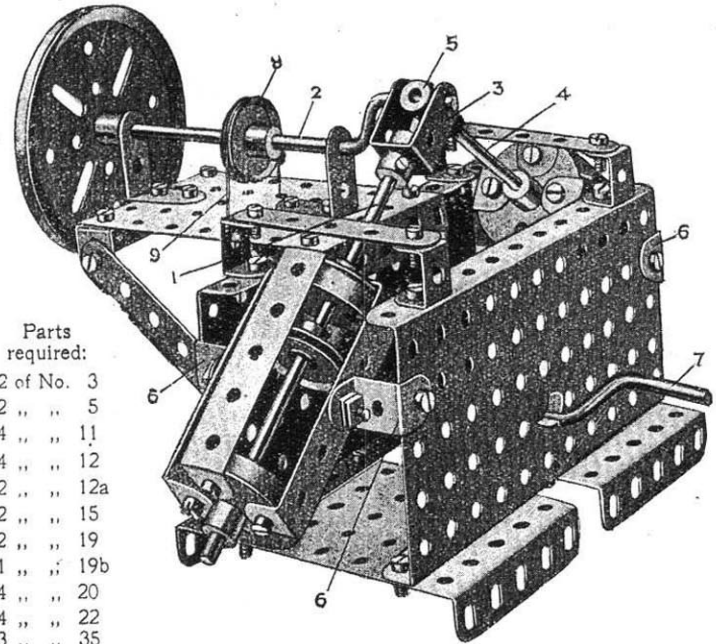


FIG. 306A

2 of No. 12a  
1 " " 15  
2 " " 17  
2 " " 18a  
2 " " 20  
2 " " 22  
4 " " 35  
40 " " 37  
6 " " 38  
1 " " 52  
1 " " 53  
4 " " 59  
3 " " 60  
1 " " 60b  
1 " " 62  
1 " " 63  
4 " " 90  
2 " " 125  
2 " " 126

The connection at (1) of the rocking arms (2) to the thrust strips (3) is locknuttred to give a free pivotal action and similarly the pivotal connections (5) of the strips (3) to the lever strips (4) are locknuttred to give free play.

Model No. 307  
Oscillating Steam Engine

Parts  
required:

2 of No. 3  
2 " " 5  
4 " " 11  
4 " " 12  
2 " " 12a  
2 " " 15  
2 " " 19  
1 " " 19b  
4 " " 20  
4 " " 22  
3 " " 35  
50 " " 37  
2 " " 52  
3 " " 53  
2 " " 59  
6 " " 60  
1 " " 63  
1 " " 102  
4 " " 125

The piston rod (1) of one cylinder is pivotally connected to the crank rod (2) by means of a small double angle strip (3), and the piston rod (4) of the other cylinder is pivoted to the crank rod by a coupling (5). The cylinders consisting of four strips (5) are enclosed by flanged wheels at the ends, and are pivoted on  $\frac{1}{2}$ " reversed brackets (6). The model is operated from the handle rod (7), a pulley on the rear end of which is coupled to the pulley (8) by a cord (9).

## Model No. 308—Railway Wagon Swivel Crane

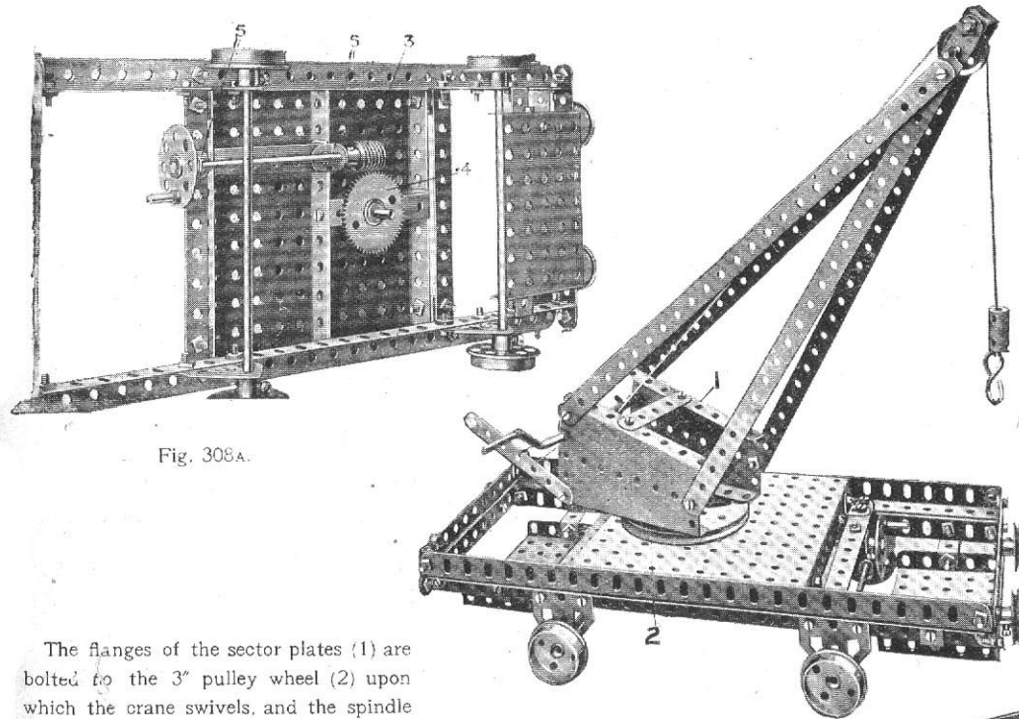


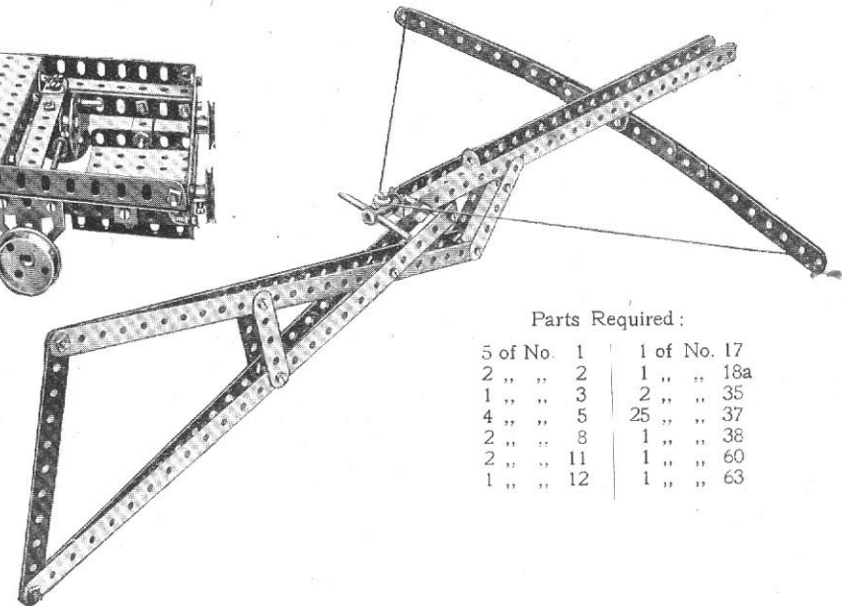
Fig. 308A.

The flanges of the sector plates (1) are bolted to the 3" pulley wheel (2) upon which the crane swivels, and the spindle of the pulley wheel is rotated by the worm (3) engaging the gear wheel (4) on the spindle. In order to bring the worm centrally over the teeth of the gear wheel (4), washers are placed between the angle brackets (5) in which the spindle of the worm is journaled.

### Parts required:

4 of No. 1	1 of No. 19	2 of No. 38
6 " " 2	1 " " 19b	2 " " 52
1 " " 3	4 " " 20	2 " " 53
2 " " 5	4 " " 22	2 " " 54
4 " " 8	1 " " 22a	1 " " 57
1 " " 11	1 " " 24	3 " " 59
14 " " 12	1 " " 27a	2 " " 60
2 " " 15	1 " " 32	1 " " 63
1 " " 15a	3 " " 35	1 " " 115
2 " " 17	70 " " 37	4 " " 125
		4 " " 126a

## Model No. 309—Crossbow

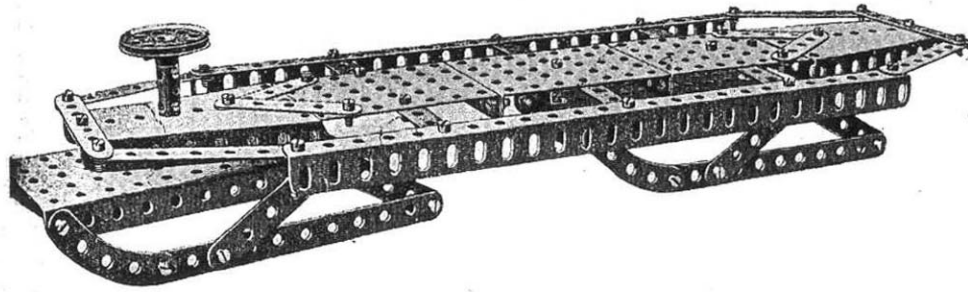


### Parts Required:

5 of No. 1	1 of No. 17
2 " " 2	1 " " 18a
1 " " 3	2 " " 35
4 " " 5	25 " " 37
2 " " 8	1 " " 38
2 " " 11	1 " " 60
1 " " 12	1 " " 63

These Models can be made with MECCANO Outfit No. 3, or No. 2 and No. 2A

## Model No. 310 Bob Sleigh



Parts required :

7 of No. 2	55 of No. 37
6 " " 3	2 " " 38
12 " " 5	1 " " 45
2 " " 8	2 " " 52
2 " " 11	3 " " 53
1 " " 17	2 " " 54
1 " " 21	1 " " 63
1 " " 24	4 " " 90

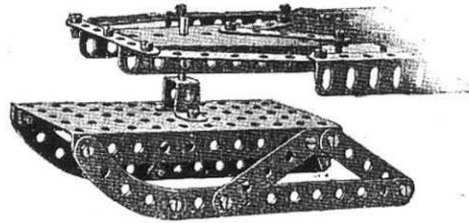
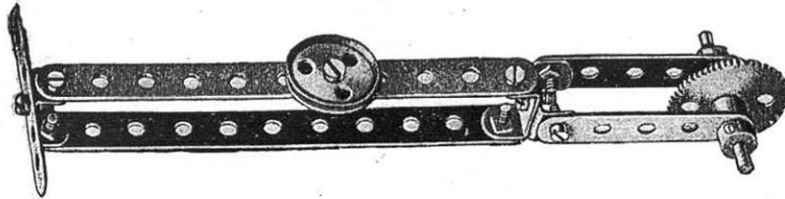


Fig. 310A.

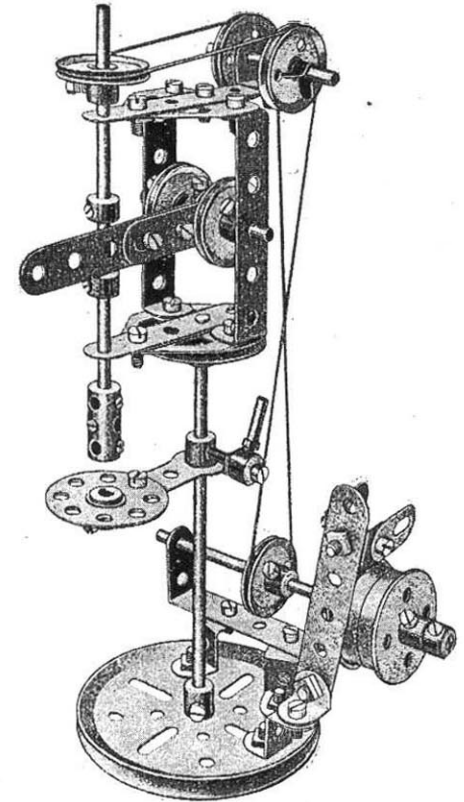
## Model No. 311 Pastry Designer



Parts  
required :

2 of No. 2
3 " " 5
3 " " 11
1 " " 17
1 " " 22A
1 " " 27A
9 " " 37
2 " " 59

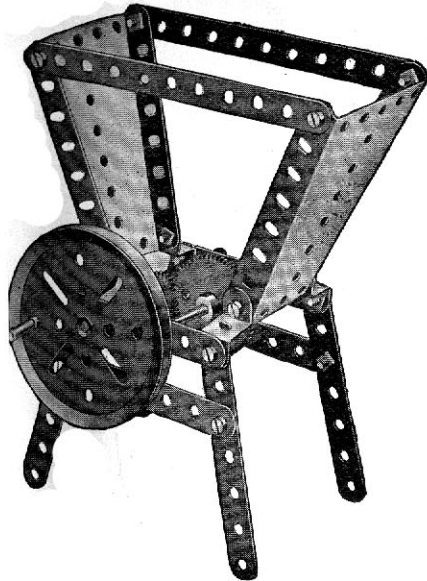
## Model No. 312 Drilling Machine



Parts required :

2 of No. 4	2 of No. 20	5 of No. 59
2 " " 5	1 " " 21	2 " " 60
2 " " 10	4 " " 22	2 " " 62
2 " " 11	2 " " 22A	1 " " 63
1 " " 12	1 " " 24	1 " " 111
1 " " 15	2 " " 35	1 " " 115
2 " " 15A	21 " " 37	3 " " 125
2 " " 17	1 " " 44	2 " " 126A
1 " " 19B	1 " " 46	

### Model No. 313 Coffee Grinder



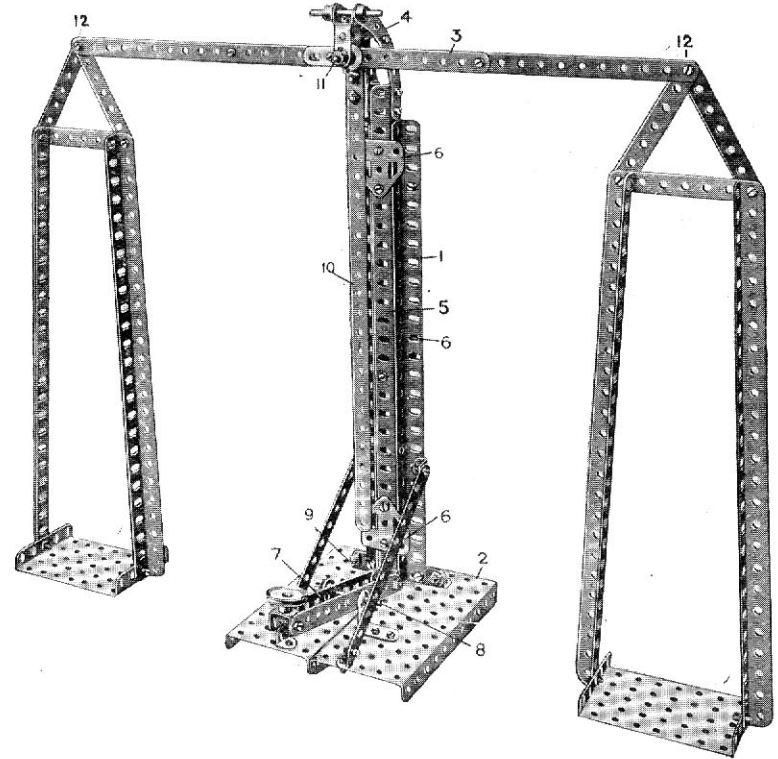
Parts required:

2	of No.	2
6	" "	3
2	" "	4
2	" "	16
1	" "	19B
1	" "	26
1	" "	27A
16	" "	37
2	" "	54
3	" "	59
1	" "	115
4	" "	125

### Model No. 314 Demonstration Scales

Parts required:

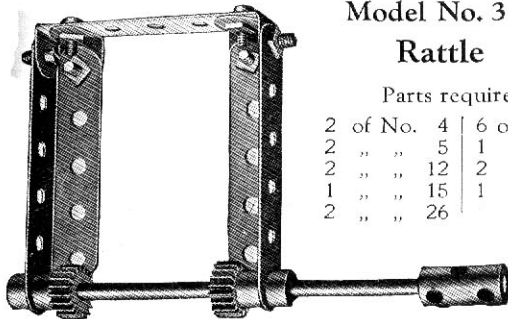
3	of No.	1
4	" "	2
6	" "	3
1	" "	4
2	" "	5
8	" "	8
4	" "	11
6	" "	12
2	" "	12A
2	" "	17
1	" "	18A
1	" "	22
2	" "	35
58	" "	37
1	" "	44
2	" "	52
2	" "	53
2	" "	59
2	" "	62
4	" "	90
1	" "	125
3	" "	126A



### Model No. 315 Rattle

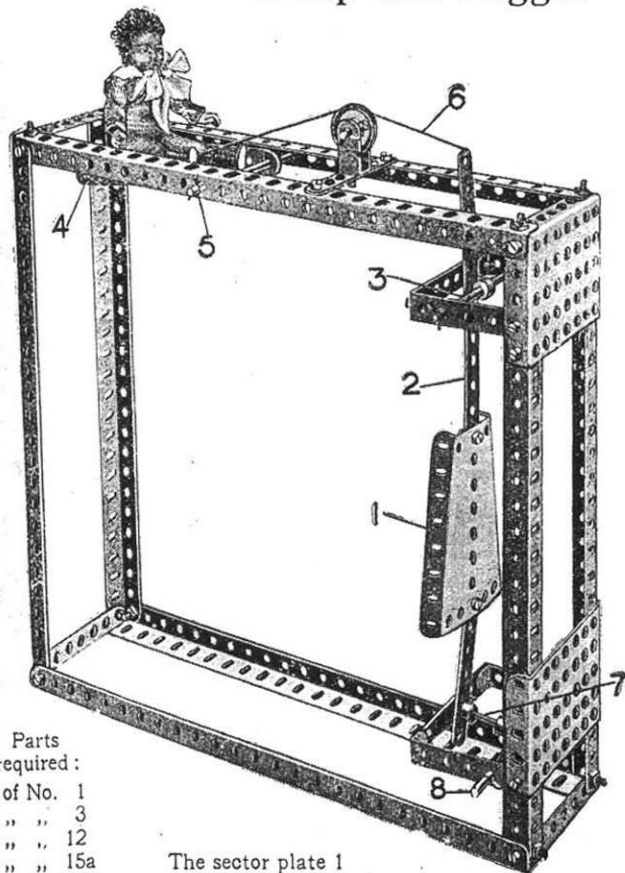
Parts required:

2	of No.	4	6	of No.	37
2	" "	5	1	" "	48A
2	" "	12	2	" "	59
1	" "	15	1	" "	63
2	" "	26			



The only feature of this model which needs description is the standard, which is built up of two angle girders 1 bolted to the base 2 by angle brackets and spaced apart at the top by a 2½" strip obliquely disposed. The balance lever 3 is pivotally carried in curved strips 4 bolted to the top of two angle girders 5 sliding between the girders 1. The girders 5 are themselves bolted together and in order to guide them as they slide vertically flat trunnions 6 are bolted at the front and rear. The balance is raised by depressing the lever 8 pivoted at 9 and pivotally connected at 11 to the vertically sliding girders 5. The indicator 10 is bolted to a crank at the rear, the boss of which is fitted on the pivot rod 11. The connections at 12 are lock-nutted to allow free action.

## Model No. 316—Drop the Nigger

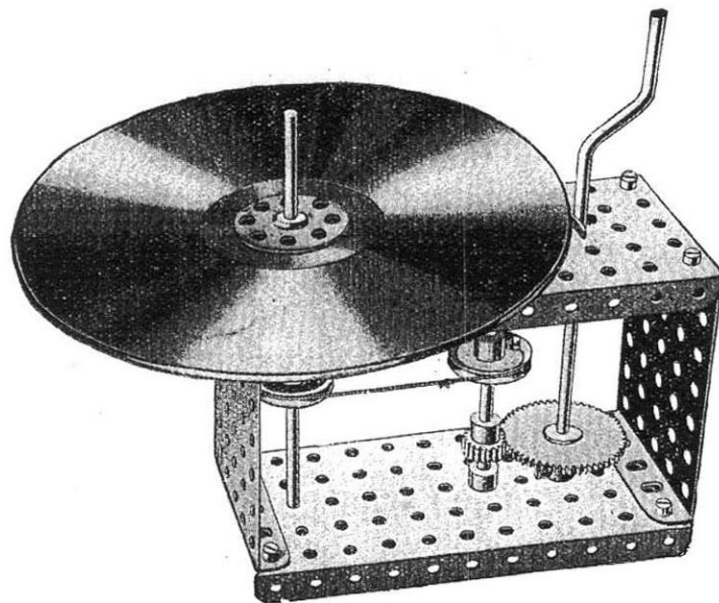


Parts  
required:

1 of No. 1
6 " " 3
1 " " 12
3 " " 15a
1 " " 17
1 " " 22
6 " " 35
33 " " 37
1 " " 44
2 " " 53
2 " " 54
3 " " 59
4 " " 60
1 " " 63

The sector plate 1 is a target, which, when hit, allows the nigger to be dropped. The plate 1 is carried on the strip 2 pivoted at 3, and the weight of the nigger supported on another sector plate 4 pivoted at 5 by means of the cord 6 keeps the lower end of the strip 2 hard against a short rod 7 pivoted at 8. When the target is hit and knocked back the rod 7 is released and falls about its pivot, allowing the sector plate 4, with the nigger to drop.

## Model No. 317—Newton's Disc



This is a model to show that white light is made up of the three primary colours—red, yellow, blue. Sectors of these three colours are mounted or painted on the disc, which, if then quickly rotated, shows as white.

Parts required:

1 of No. 15	1 of No. 24	8 of No. 37
1 " " 15A	1 " " 26	2 " " 52
1 " " 19	1 " " 27A	2 " " 53
2 " " 22	2 " " 35	4 " " 59



These Models can be made with MECCANO Outfit No. 3 or No. 2 and No. 2A

## Model No. 318—Railway Breakdown Crane

### Parts required:

2 of No. 1	1 of No. 22a	2 of No. 48b
4 " " 2	1 " " 23	2 " " 52
4 " " 11	1 " " 24	3 " " 53
1 " " 12	2 " " 26	1 " " 54
3 " " 15a	1 " " 32	1 " " 57
1 " " 16	1 " " 33	2 " " 59
2 " " 17	4 " " 35	1 " " 63
1 " " 19	36 " " 37	1 " " 115
1 " " 19b	5 " " 38	1 " " 126a
4 " " 20	2 " " 48A	

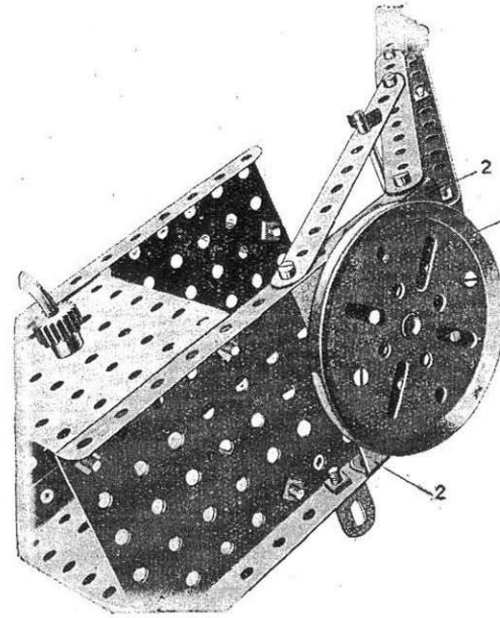
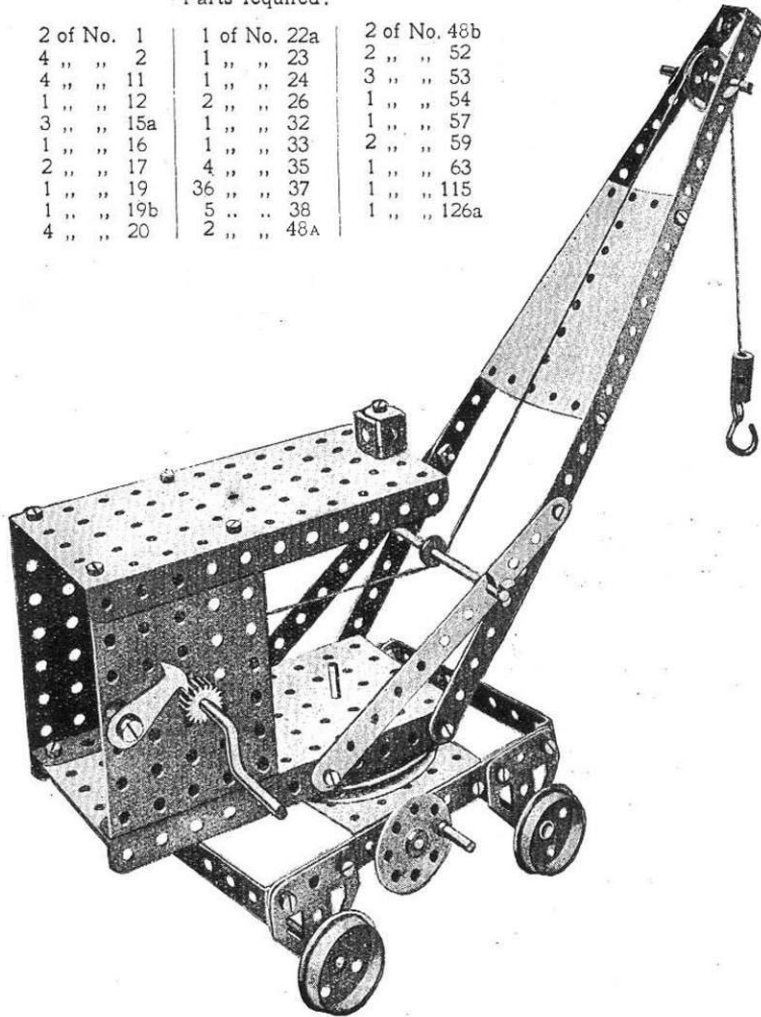


FIG. 318A.

Fig. 318B.

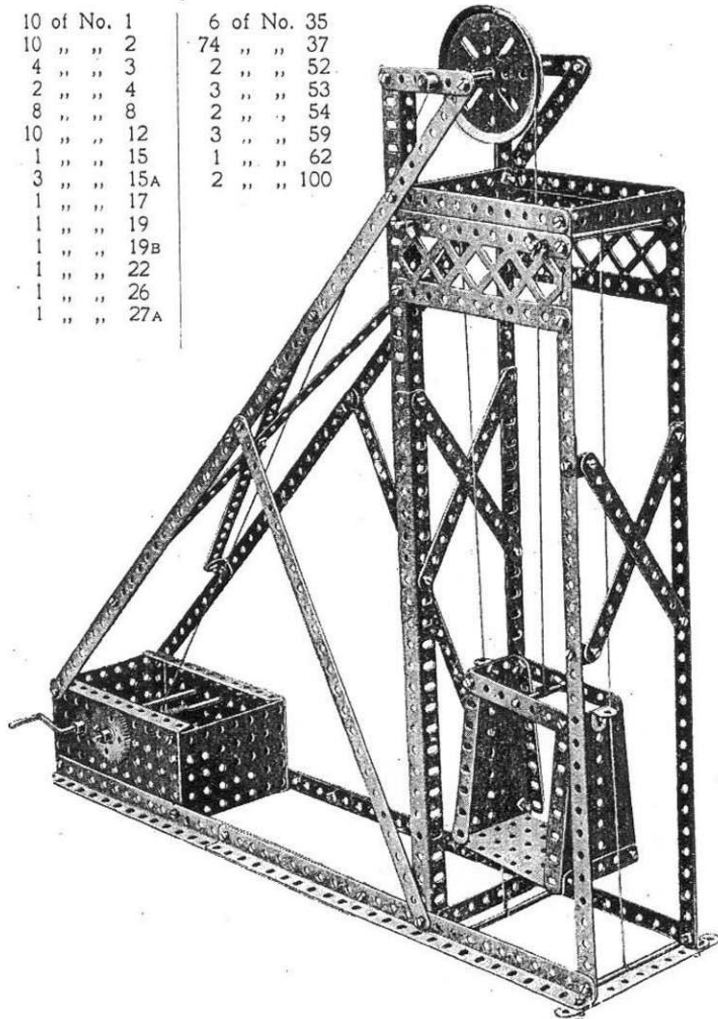
The swivelling action is obtained by bolting a 3" pulley (1) to double angle strips (2) on the jib frame. The boss of this wheel fits over the rod (3) and is secured to the rod. The hand wheel (4) rotates the worm (5), engaging the pinion (6) to swivel the jib.

These Models can be made with MECCANO Outfit No. 3, or No. 2 and No. 2A

## Model No. 319 Pit Head Gear

Parts required:

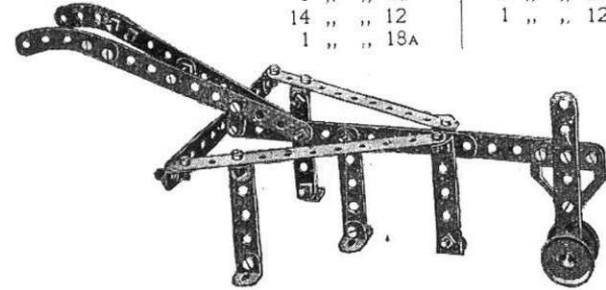
10 of No. 1	6 of No. 35
10 " " 2	74 " " 37
4 " " 3	2 " " 52
2 " " 4	3 " " 53
8 " " 8	2 " " 54
10 " " 12	3 " " 59
1 " " 15	1 " " 62
3 " " 15A	2 " " 100
1 " " 17	
1 " " 19	
1 " " 19B	
1 " " 22	
1 " " 26	
1 " " 27A	



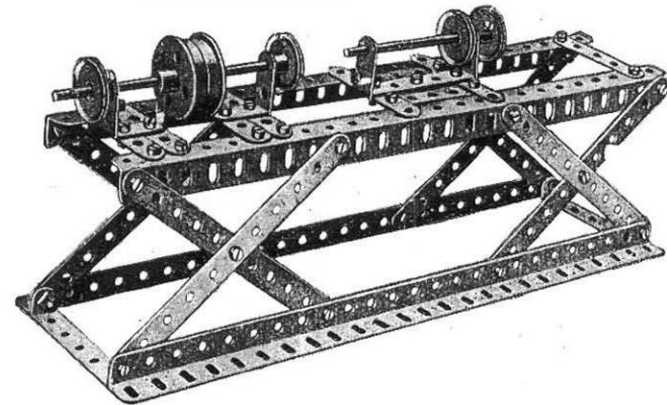
## Model No. 320 Scarifier

Parts required:

7 of No. 2	2 of No. 22
1 " " 3	31 " " 37
4 " " 5	2 " " 38
1 " " 10	2 " " 90
14 " " 12	1 " " 126A
1 " " 18A	



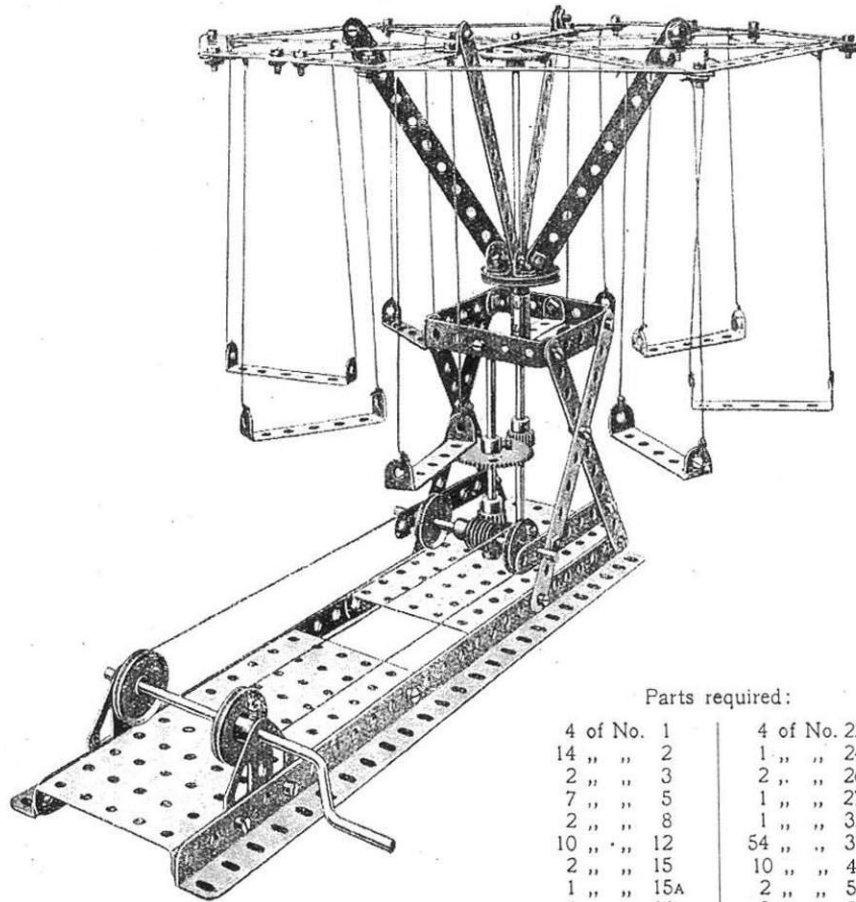
## Model No. 321 Lathe



Parts required:

8 of No. 2	2 of No. 20
10 " " 5	1 " " 22
4 " " 8	41 " " 37
2 " " 12A	1 " " 46
1 " " 15A	2 " " 48A
1 " " 16	

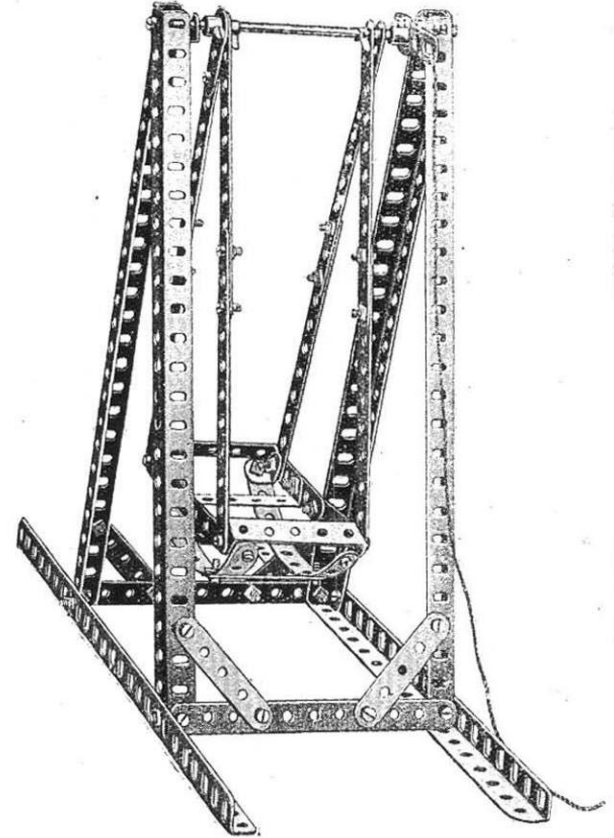
Model No. 322 Roundabout



Parts required:

4 of No. 1	4 of No. 22
14 " " 2	1 " " 24
2 " " 3	2 " " 26
7 " " 5	1 " " 27A
2 " " 8	1 " " 32
10 " " 12	54 " " 37
2 " " 15	10 " " 48A
1 " " 15A	2 " " 52
1 " " 16	3 " " 59
1 " " 19	1 " " 63
1 " " 21	2 " " 126A

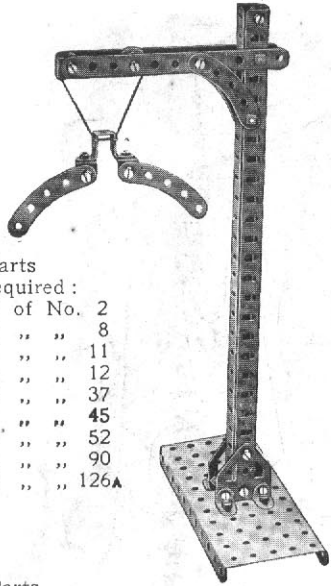
Model No. 323 Swing



Parts required:

12 of No. 2	1 of No. 15
9 " " 5	2 " " 35
6 " " 8	43 " " 37
2 " " 11	4 " " 48A
4 " " 12	2 " " 62

**Model No. 324  
Railway Gauge**



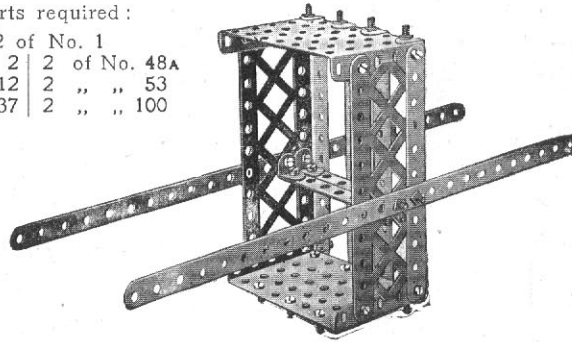
- Parts required :
- 2 of No. 2
  - 2 " " 8
  - 3 " " 11
  - 6 " " 12
  - 28 " " 37
  - 1 " " 45
  - 1 " " 52
  - 4 " " 90
  - 2 " " 126A

- Parts required :
- 6 of No. 2
  - 1 " " 3
  - 2 " " 5
  - 2 " " 8
  - 3 " " 11
  - 12 " " 12
  - 2 " " 15
  - 3 " " 15A
  - 2 " " 19
  - 4 " " 20
  - 1 " " 24
  - 2 " " 26
  - 1 " " 27A
  - 3 " " 35
  - 50 " " 37
  - 1 " " 45
  - 2 " " 48A
  - 2 of No. 52
  - 3 " " 53
  - 4 " " 59
  - 2 " " 62
  - 4 " " 126A

**Model No. 325 Chinese Palanquin**

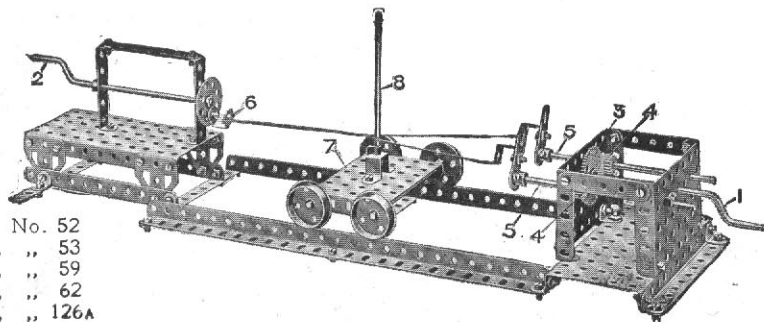
Parts required :

- 2 of No. 1
- 4 of No. 2
- 8 " " 12
- 30 " " 37
- 2 of No. 48A
- 2 " " 53
- 2 " " 100

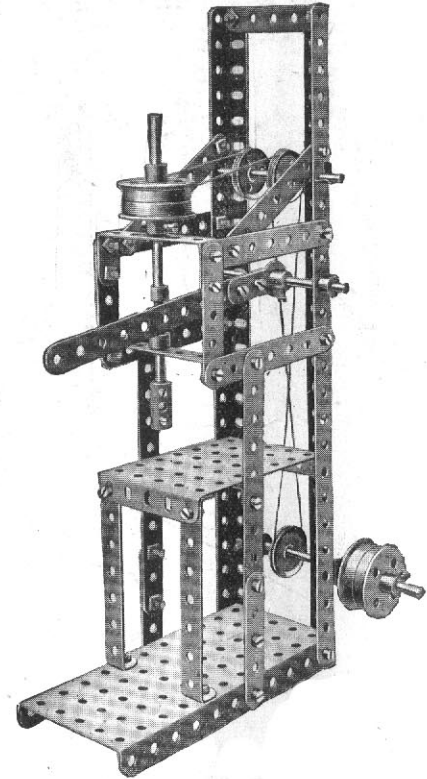


**Model No. 327 Wire Rope Maker**

The strands are twisted from both ends by the handles (1) and (2) of the fixed parts. The handle (1) rotates through a large gear wheel (3) two pinions (4) on the rods (5) carrying cranks to which the strands are attached. The other ends of the strands are connected to a double bent strip (6) on a bush wheel which is rotated in the opposite direction by a crank handle (2). The carriage (7) runs on rails and the vertical rod (8) is kept just at the formation of the twisted rope and so controls the tightness of the twist.



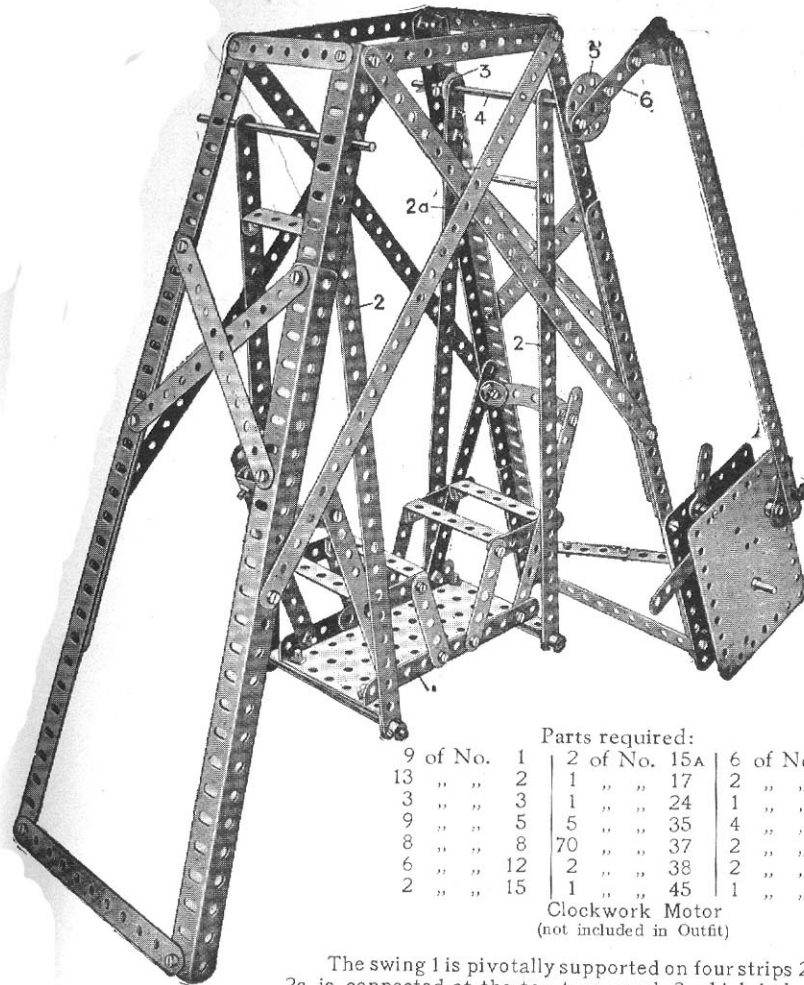
**Model No. 326  
Hand Punch**



- Parts required :
- |            |             |              |
|------------|-------------|--------------|
| 3 of No. 2 | 4 of No. 20 | 2 of No. 48B |
| 6 " " 3    | 1 " " 22    | 1 " " 52     |
| 5 " " 5    | 2 " " 22A   | 1 " " 53     |
| 2 " " 8    | 3 " " 35    | 4 " " 59     |
| 2 " " 11   | 38 " " 37   | 1 " " 62     |
| 2 " " 15   | 1 " " 46    | 1 " " 63     |
| 2 " " 16   | 2 " " 48A   |              |

Model No. 328 Lawn Swing

Model No. 329 Oil Cake Chopper

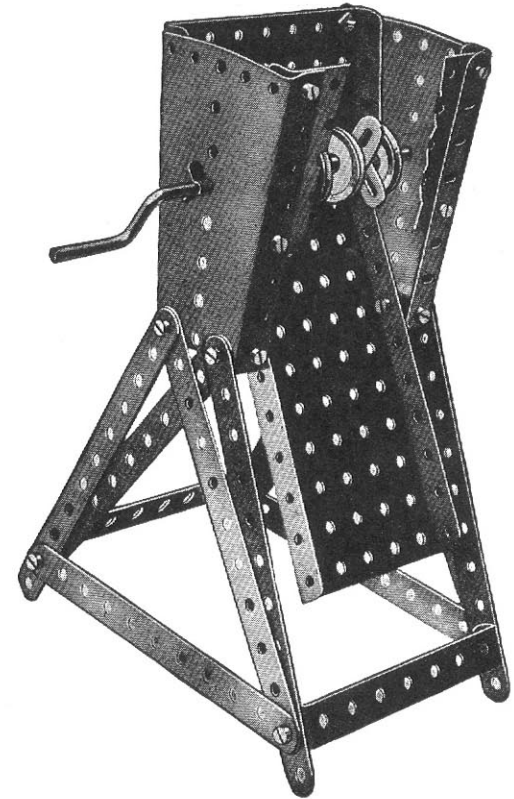


Parts required:

9 of No. 1	2 of No. 15A	6 of No. 48A
13 " " 2	1 " " 17	2 " " 48B
3 " " 3	1 " " 24	1 " " 52
9 " " 5	5 " " 35	4 " " 59
8 " " 8	70 " " 37	2 " " 62
6 " " 12	2 " " 38	2 " " 90
2 " " 15	1 " " 45	1 " " 115

Clockwork Motor  
(not included in Outfit)

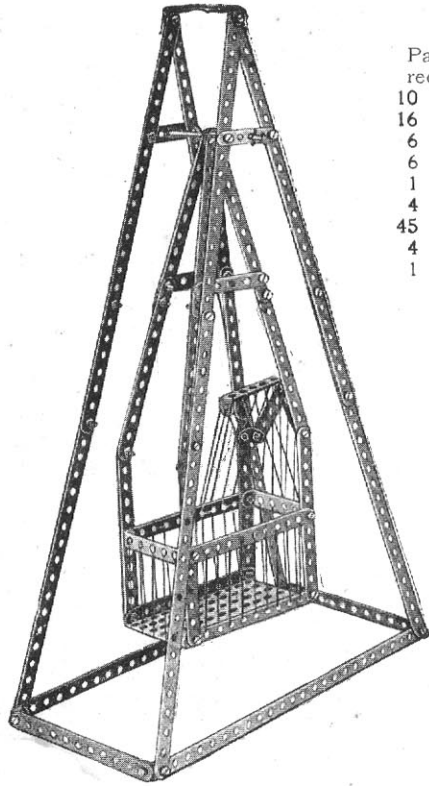
The swing 1 is pivotally supported on four strips 2, the far strip 2a is connected at the top to a crank 3 which is bolted to a rod 4 and at the front end of this rod is a wheel 5 to which is bolted a strip 6 to the motor spindle.



Parts required:

10 of No. 2	2 of No. 35
4 " " 10	20 " " 37
2 " " 12	2 " " 48B
1 " " 19	1 " " 52
4 " " 22	2 " " 53
2 of No. 54	

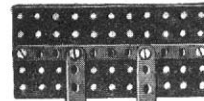
**Model No. 330 Swinging Cot**



Parts required:

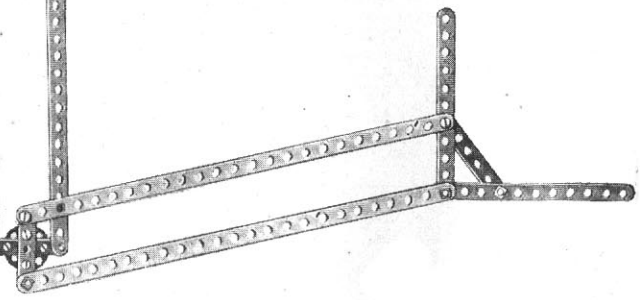
10	of No.	1
16	" "	2
6	" "	5
6	" "	12
1	" "	15A
4	" "	35
45	" "	37
4	" "	48A
1	" "	52

**Model No. 331 Drafting Machine**



Parts required:

4	of No.	1	1	of No.	24
3	" "	2	15	" "	37
1	" "	4	1	" "	52
2	" "	5			

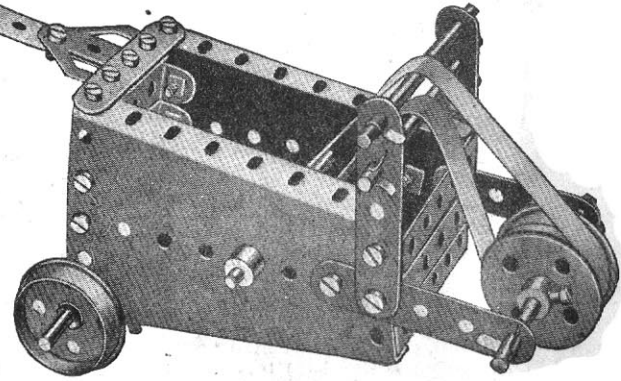


**Model No. 332 Lawn Marker**



Parts required:

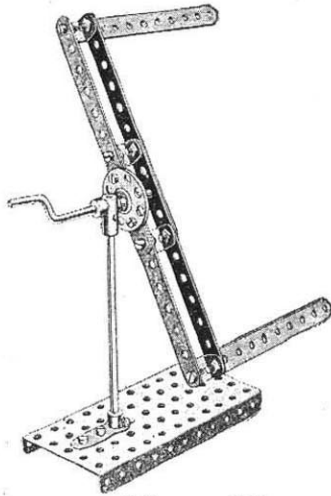
1	of No.	2
6	" "	5
1	" "	15A
4	" "	16
4	" "	20
6	" "	35
21	" "	37
4	" "	48A
1	" "	53
2	" "	54
2	" "	59
1	" "	126A



### Model No. 334— LaceJennier

Parts  
required :

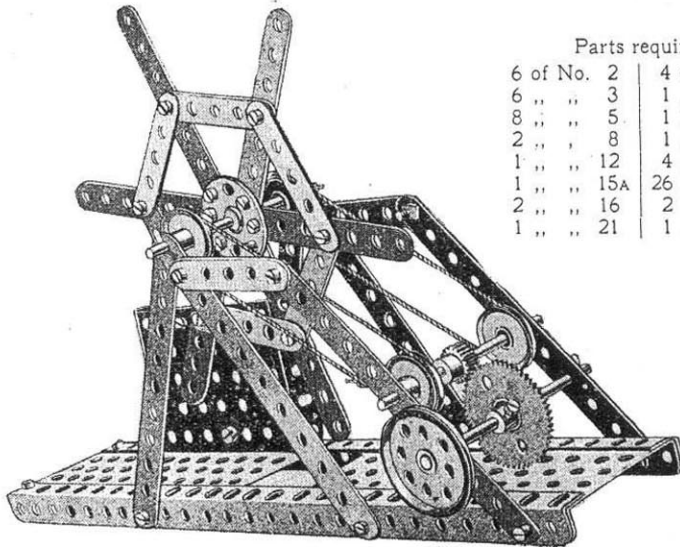
8 of No. 2
4 " " 11
1 " " 15
1 " " 19
1 " " 24
14 " " 37
1 " " 52
1 " " 59
1 " " 62
1 " " 63



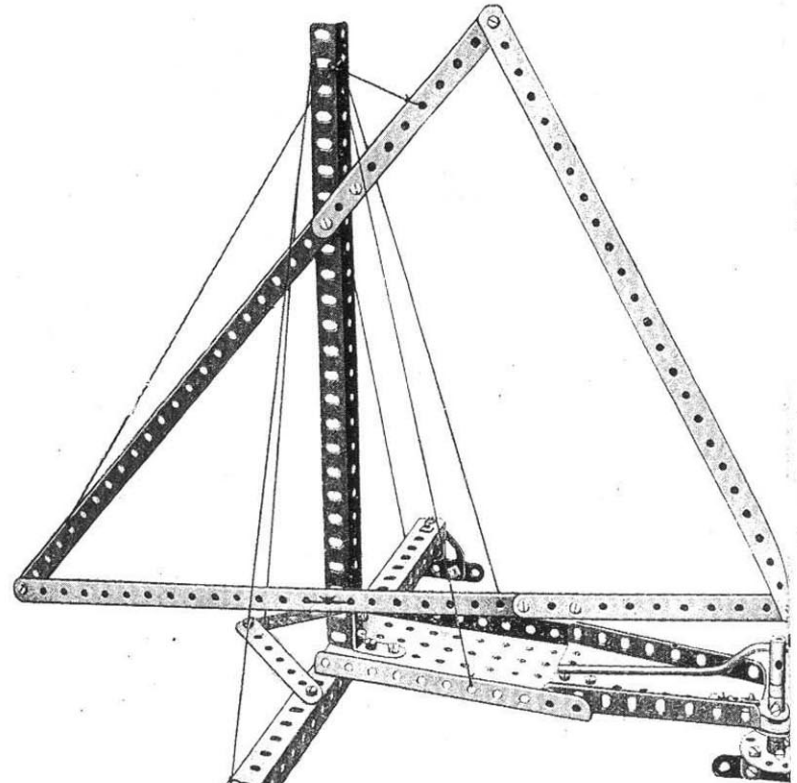
### Model No. 335—Flax Cleaner

Parts required :

6 of No. 2	4 of No. 22
6 " " 3	1 " " 24
8 " " 5	1 " " 26
2 " " 8	1 " " 27A
1 " " 12	4 " " 35
1 " " 15A	26 " " 37
2 " " 16	2 " " 52
1 " " 21	1 " " 53



### Model No. 336—Ice Boat



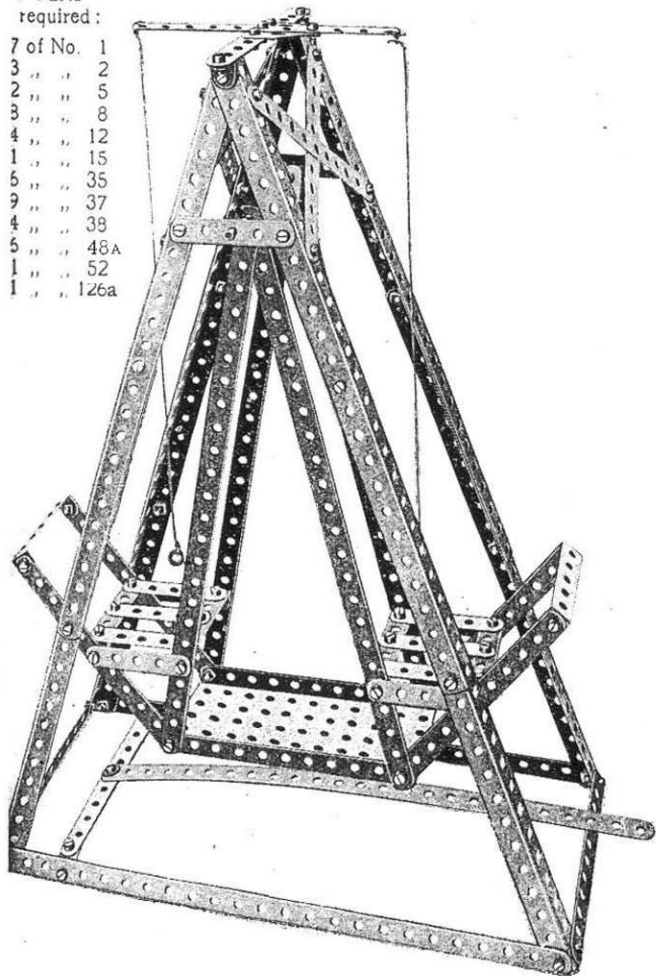
Parts required :

3 of No. 1	1 of No. 22
2 " " 2	1 " " 24
2 " " 3	36 " " 37
3 " " 5	1 " " 52
2 " " 8	1 " " 54
2 " " 12	1 " " 59
3 " " 12A	1 " " 62
1 " " 17	1 " " 63
1 " " 19	2 " " 126A

## Model No. 337—Swing

Parts  
required:

7 of No.	1
3 "	2
2 "	5
3 "	8
4 "	12
1 "	15
6 "	35
9 "	37
4 "	38
5 "	48A
1 "	52
1 "	126a

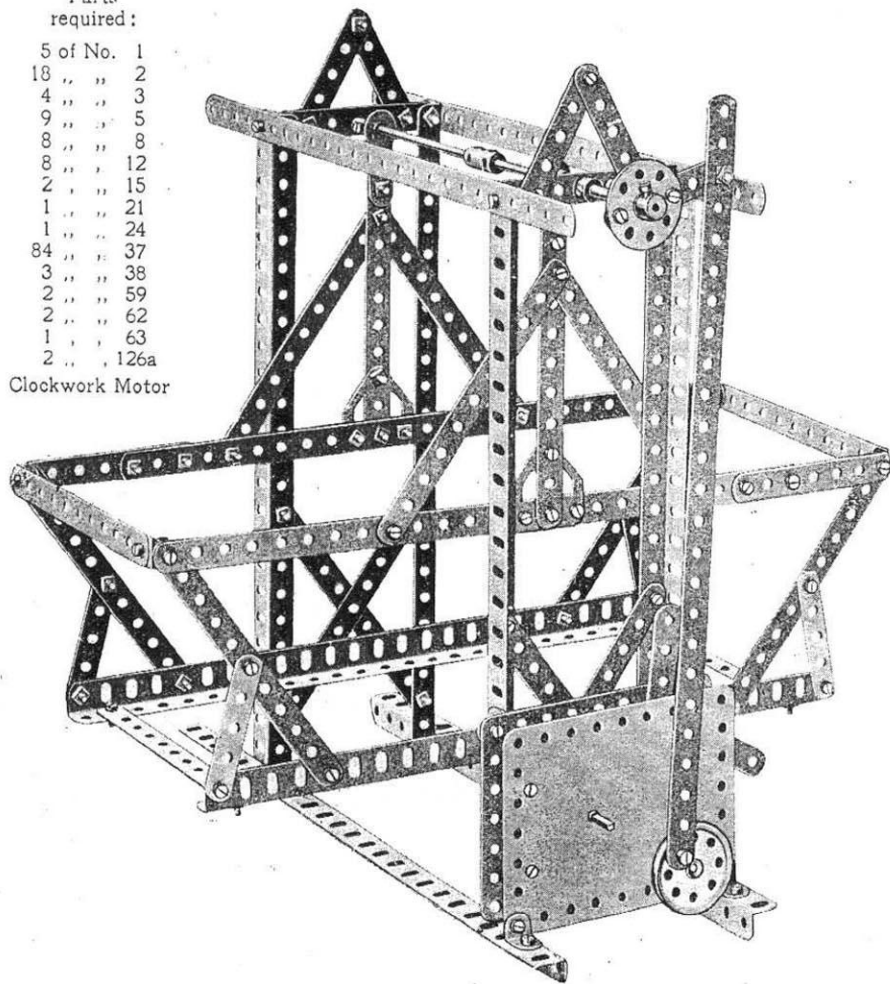


## Model No. 338—Automatic Swing Boat

Parts  
required:

5 of No.	1
18 "	2
4 "	3
9 "	5
8 "	8
8 "	12
2 "	15
1 "	21
1 "	24
84 "	37
3 "	38
2 "	59
2 "	62
1 "	63
2 "	126a

Clockwork Motor

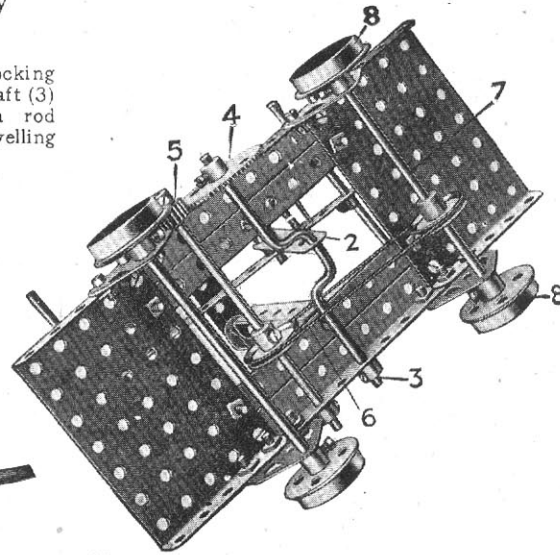
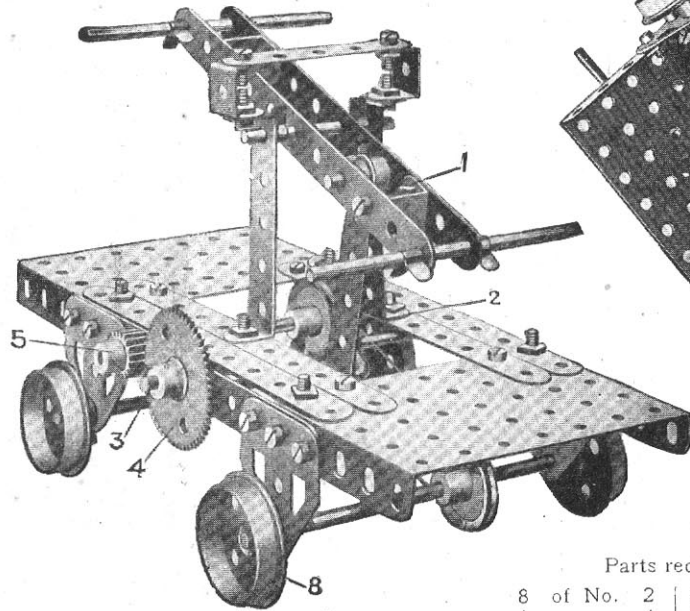






### Model No. 340 Hand Trolley

The trolley is caused to travel by working the rocking lever (1) which is connected by a strip (2) to a crank shaft (3) a gear wheel (4) which meshes a pinion (5) on a rod coupled by a cord (6) to an axle rod (7) of the travelling wheels (8).



Parts required :

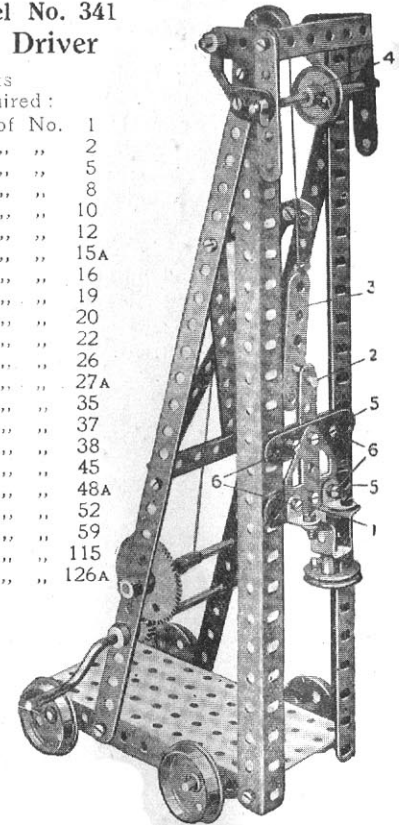
8	of No. 2	2	of No. 22
1	" "	4	" "
1	" "	5	" "
4	" "	11	" "
3	" "	15A	30
2	" "	16	2
1	" "	17	2
1	" "	18A	4
4	" "	20	4
			126A

1 of No. 134

### Model No. 341 Pile Driver

Parts required :

2	of No. 1
2	" "
10	" "
2	" "
2	" "
2	" "
2	" "
3	" "
1	" "
4	" "
3	" "
1	" "
1	" "
2	" "
26	" "
4	" "
1	" "
3	" "
1	" "
4	" "
1	" "
3	" "

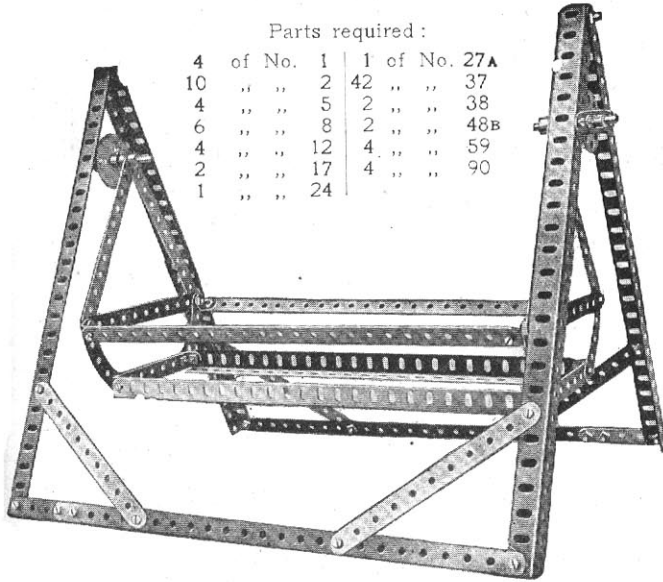


The driving head (1) is raised by means of a threaded pin (2) on two 2½" strips (3), the pin engaging in the first hole of the driving head. As the head is raised, the strip (3) makes contact with a pulley (4) and the latter pushes the strip rearwardly, disengaging the pin from the hole on the driving head, permitting it to fall. The cross strips (5) of the driving head are duplicated behind, spacing washers being inserted between them on the bolts (6) to allow free movement up and down the guide girders.

**Model No. 342 Swing Cot**

Parts required:

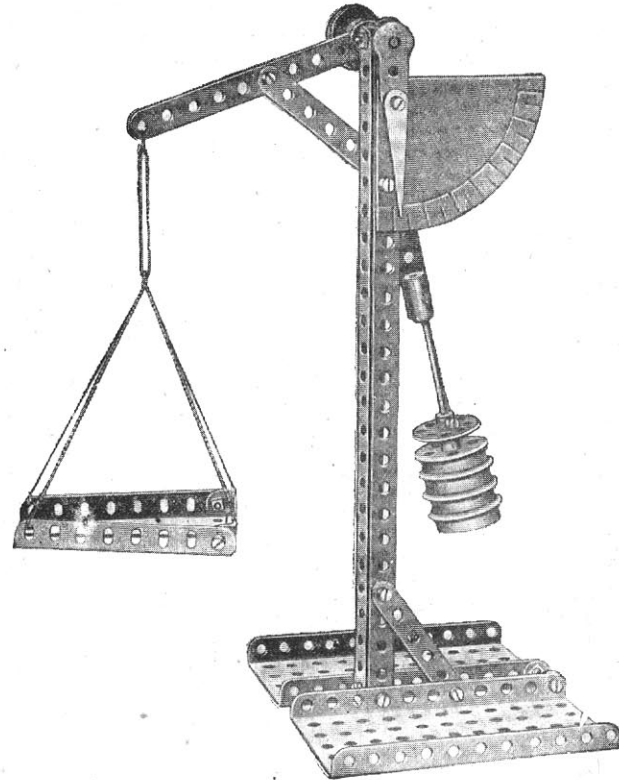
4	of No. 1	1	of No. 27A
10	" "	2	42 " "
4	" "	5	2 " "
6	" "	8	2 " "
4	" "	12	4 " "
2	" "	17	4 " "
1	" "	24	" "



**Model No. 343 Scales**

Parts required:

2	of No.	2
1	" "	3
2	" "	4
1	" "	5
2	" "	8
1	" "	11
1	" "	15
1	" "	17
4	" "	20
1	" "	22
1	" "	24
15	" "	37
1	" "	48A
2	" "	52
1	" "	54
2	" "	62
1	" "	63
1	" "	90



**HOW TO CONTINUE**

This completes the Models which may be made with MECCANO Outfit No. 3. The next Models are a little more advanced, requiring a number of extra parts to construct them. The necessary parts are all contained in a No. 3A Accessory Outfit, the price of which will be found in the List at the end of the Manual.

# MECCANO ACCESSORY OUTFITS AND MOTORS



## Meccano Accessory Outfits

Our illustration shows one of the Meccano Accessory Outfits. As has already been explained, these Outfits connect the main Outfits from No. 00 to No. 7, making it possible for a boy who commences with one of the earlier Outfits to build up his equipment by easy stages, until he is the possessor of all parts that cover the entire system. For prices see page 62.

## Electrical Outfit

All Meccano boys are fascinated by electricity and never become tired of learning more about this wonderful subject. The application of electricity to the Meccano system adds a further and wonderful charm, and the joys of model-building are now increased by the fascinating pastime of carrying out delightful electrical experiments.

The Meccano Electrical Outfit contains a number of specially designed electrical parts which may be used in conjunction with any of the regular Outfits.

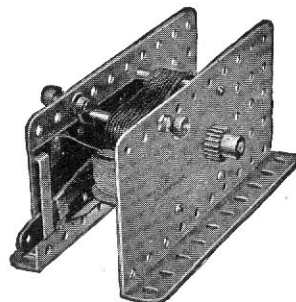


For price see page 62.

## 4-Volt Electric Motor

The 4-volt motor is also specially designed to build into Meccano models. It is a most reliable and powerful model and when properly geared will lift over 30 lbs. dead weight. It may be run by a 4-volt accumulator, or by employing a suitable transformer, direct from the main, fitted with reversing motion, provided with stopping and starting controls, and the gearing is interchangeable.

For price see page 62.

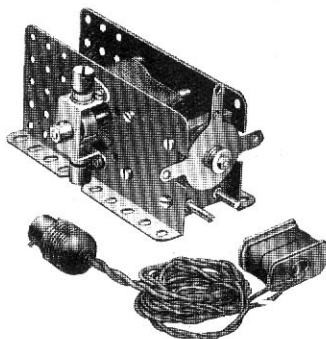


## No. 2 Electric Motor (100-250 Volt)

This Electric Motor may be employed for any purpose for which a small motor is suitable, but it is specially adapted for driving Meccano models. The side plates are perforated with standard equidistant holes, thus allowing the motor to be built into any Meccano model. The motor is specially designed for connection with the electric-light main. It is supplied for 100-120 volts or 200-250 volts (alternating or direct), and is fitted with 6 ft. length of flex, an insulated plug for connection with the motor terminals, and an adapter for connection with an ordinary lamp socket.

A suitable resistance is required when the motor is run with a 200-250 volt current, and this is supplied by connecting a 20-watt lamp in series with the motor. A board on which are mounted a suitable lamp-holder (lamp not included) and a switch is provided separately.

For prices see page 62.



## 4-Volt Accumulator

This new and excellent type of accumulator has been adapted to drive the 4-volt Electric Motor. It has been subjected to the severest tests and has proved itself to be the most suitable accumulator for use with any type of electric motor. It is non-spillable, has remarkable recuperative powers, and will continue to supply current when nominally exhausted.

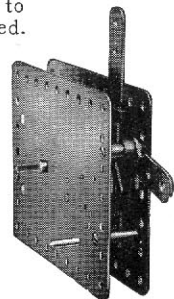
For price see page 62.



## Clockwork Motor

How splendid it is, after spending hours in building a model, to be able to set it in motion with a motor, just as do real engineers! The Meccano Clockwork Motor is specially made for this purpose and is a fine piece of mechanism—simple, powerful, and reliable. It is fitted with starting and stopping levers, and has a reversing movement.

For price see page 62.



# HORNBY CLOCKWORK TRAINS

HORNBY TRAINS are manufactured by Meccano Limited, and they are made from the finest materials obtainable. A most valuable feature of the Locos is that all the parts are standardised and any lost or damaged units may be replaced with new ones.

Each Train is a beautiful piece of workmanship with perfect mechanism, ensuring smooth running. A guarantee of efficiency is furnished with each Loco.

*A HORNBY TRAIN LASTS FOR EVER!*

## No. 0 Passenger Set

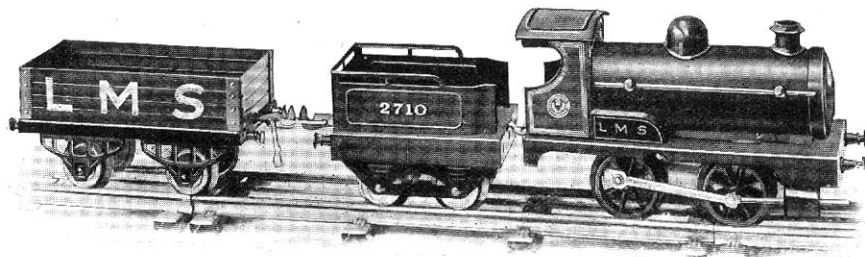
Each Set contains Loco, Tender, two Passenger Coaches and Rails to form either a circle 2 ft. in diameter or an oval 2 ft. in width by 2 ft. 10 in. in length. One of the curved rails is a brake rail by means of which the train may be braked from the track. The doors of the coaches open.

Gauge 0, in colours to represent the principal British Railway Companies' rolling stock. Richly enamelled and highly finished: fitted with brake and governor; non-reversing.

## No. 0 Goods Set

The Goods Set is the same as the Passenger Set but contains one Wagon in place of Passenger Coaches. In colours to represent the principal British Railway Companies' rolling stock. Gauge 0.

*For prices see page 62.*



No. 0 GOODS SET

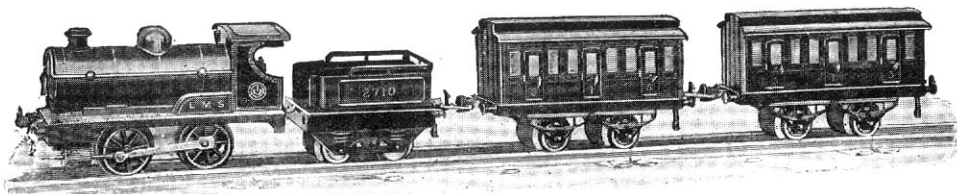
## No. 1 Passenger Set

Each Set contains Loco, Tender, and two Coaches, with Rails to form either a circle 2 ft. in diameter or an oval 2 ft. in width by 2 ft. 10 in. in length. One of the curved rails is a brake rail by means of which the train may be braked from the track. The Loco is fitted with reversing gear, brake and governor. In colours to represent the principal British Railway Companies' rolling stock. The doors of the Coaches open. Gauge 0.

## No. 1 Goods Set

This Set is similar in every way to No. 1 Passenger Set, except that it contains one Wagon in place of Coaches. Gauge 0.

*For prices see page 62.*



No. 1 PASSENGER SET

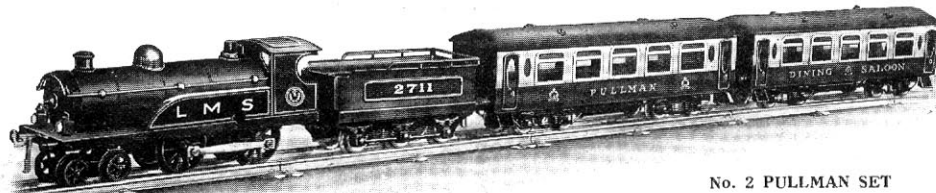
## No. 2 Pullman Set

This Set includes Loco and Tender of a larger type, measuring 17 in. in length. The Coaches are beautiful both in colour and finish. Each Set includes Loco, Tender, and two Pullman Coaches, with Set of Rails making a 4 ft. diameter circle. The rails include one brake rail by means of which the train may be both braked and reversed from the track. In colours to represent the principal British Railway Companies' rolling stock. The Loco is fitted with reversing gear, brake and governor. Gauge 0.

## No. 2 Goods Set

This Set contains Loco, Tender, and Rails as in No. 2 Pullman Set, and two Wagons. Gauge 0.

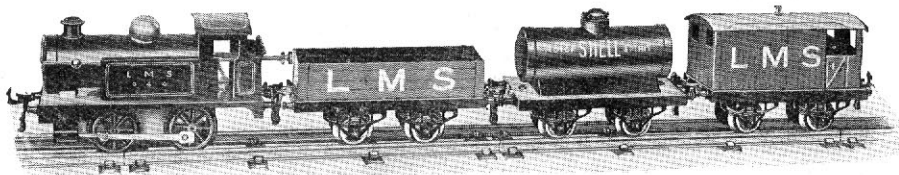
*For prices see page 62.*



No. 2 PULLMAN SET

# HORNBY CLOCKWORK TRAINS

THE following Hornby Tank Goods and Passenger Sets are entirely new features and are valuable additions to the popular range of Hornby Trains. Each set contains one of the famous Hornby Tank Locos with attractive rolling stock.



No. 1 TANK GOODS SET

## No. 1 Tank Goods Set

This Set contains a No. 1 Hornby Tank Loco, Hornby Wagon, Petrol Tank Wagon, Brake Van and set of rails to form either a circle 2 ft. in diameter or an oval 2 ft. in width by 2 ft. 10 in. in length. One of the curved rails is a brake rail by means of which the train may be braked from the track.

Gauge 0, in colours to represent the principal British Railway Companies' rolling stock. The loco is fitted with reversing gear, brake and governor.  
*For prices see page 62.*

## No. 2 Tank Goods Set

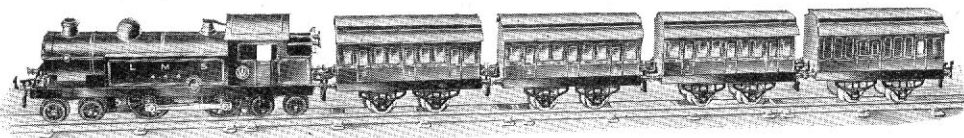
The famous No. 2 Hornby Tank Loco is included in this set. It is 11½ in. in length and is fitted at both ends with a four-wheeled bogie. In addition the set includes a Hornby Wagon, a Petrol Tank Wagon, a No. 1 Cattle Truck and a Brake Van, with a set of rails to form a circle 4 ft. in diameter. The rails include one brake rail by means of which the train may be both braked and reversed from the track.

Gauge 0, in colours to represent the principal British Railway Companies' rolling stock. The loco is fitted with reversing gear, brake and governor.

## No. 2 Tank Passenger Set

This set contains a No. 2 Hornby Tank Loco and rails as in the No. 2 Goods set, but three Passenger Coaches and one Guard's Van are included in place of the wagons and vans.

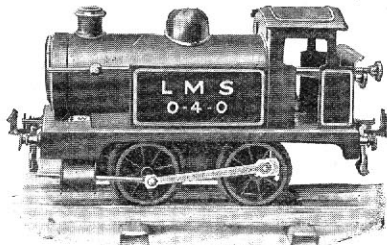
Gauge 0, in colours to represent the principal British Railway Companies' rolling stock. *For prices see page 62.*



No. 2 TANK PASSENGER SET

# HORNBY TANK LOCOS

## Hornby No. 1 Tank Loco



A strong and durable Loco capable of any amount of hard work; richly enamelled and highly finished; fitted with brake, governor and reversing gear.

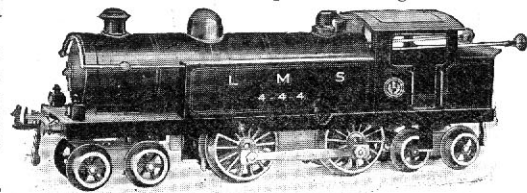
Gauge 0, in colours to represent the principal British Railway Companies' locos.  
*For prices see page 62.*

## Hornby No. 2 Tank Loco

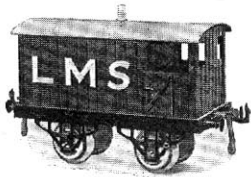
The Hornby No. 2 Tank Loco is a powerful model, embodying all the splendid characteristics of the Hornby Train. It is 11½ in. in length and is fitted at both ends with a four-wheeled bogie.

Beautifully finished in colours to represent the principal British Railway Companies' locos. Fitted with reversing gear, brake and governor.

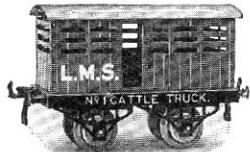
*For prices see page 62.*



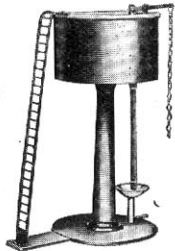
# Rolling Stock and Accessories for Trains



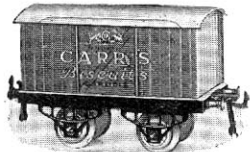
**\* BRAKE VAN**  
Finished in grey and black.  
Price 6/-



**\* No. 1 CATTLE TRUCK**  
Fitted with sliding door.  
Very realistic design. Price 6/-

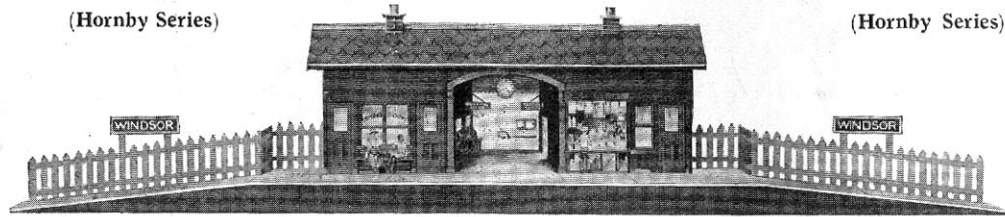


**WATER TANK**  
Brightly coloured. Stands 8½ in. high. Fitted with flexible tube and valve lever ... Price 10/6



**BISCUIT VAN**  
(Jacob's, Crawford's, Carr's).  
Finished in colour. Price 6/-

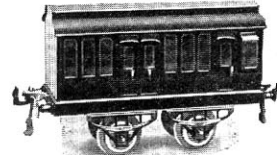
(Hornby Series)



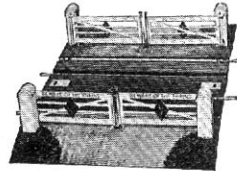
**RAILWAY STATION**

Excellent model, beautifully designed and finished. Dimensions : Length 2ft. 9in., breadth 6in., height 7in. Price 18/6

(Hornby Series)



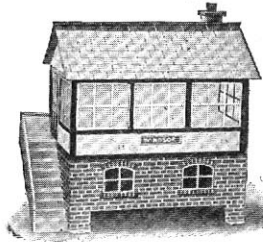
**\* GUARD'S VAN**  
Realistic design, fitted each side with doors as shown. Price 5/6



**LEVEL CROSSING**  
Beautifully designed in colour. Measures 11½ x 7½ in. with Gauge 0 rails in position. Price 10/-

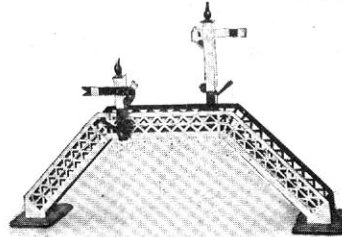


**ROTARY TIPPING WAGON**  
Finished in grey and green.  
Price 6/-



**SIGNAL CABIN**

Dimensions : Height 6½ in., Width 3½ in., Length 6½ in. Finished in colour and lettered "Windsor." Roof and back open to allow signal levers to be fitted inside cabin if desired. Price 10/-



**FOOTBRIDGE**

No. 1. With detachable Signals Price 9/6  
No. 2. Without Signals ... " 6/-  
Signals only ... per pair 3/9

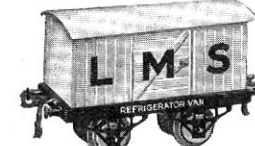


**TUNNEL**

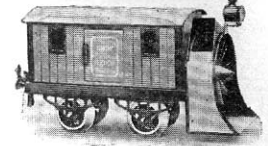
Realistic and finished in colours.  
Price 12/-



**SECCOTINE WAGON**  
Beautifully finished in blue.  
Lettered white ... Price 6/-



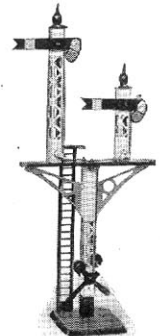
**\* REFRIGERATOR VAN**  
Enamelled in white.  
Lettered black. Price 6/-



**\* SNOW PLOUGH**  
With revolving plough driven from front axle ... Price 8/6



**PETROL TANK WAGON**  
"SHELL"  
Finished in red. Price 4/6



**JUNCTION SIGNAL**  
Signal arms operated by levers at base. Very realistic model standing 14 in. in height.  
Price 8/6



**MINIATURE LUGGAGE & PORTER'S BARROW**  
FOR TOY RAILWAYS.  
No. 1. Miniature Luggage.  
Price per set 3/-



**MINIATURE PLATFORM ACCESSORIES**  
No. 3. Platform Machines, etc.  
Price per set 3/-



**MINIATURE MILK-CANS WITH TRUCK**  
FOR TOY RAILWAYS.  
No. 2. Milk Cans and Truck.  
Price per set 3/-



**\* GUNPOWDER VAN**  
Finished in red. Price 6/-

There are now over 50 items of Rolling Stock and Accessories in the Hornby Series, some of which are illustrated and described above. Send for a complete illustrated price list.

\* Lettered L.M.S. or L.N.E.R.

# Meccano Price List

## MECCANO OUTFITS

No. 00	Meccano Outfit	.. .. .	5/-
" 0	" "	.. .. .	7/6
" 1	" "	.. .. .	12/6
" 2	" "	.. .. .	23/-
" 3	" "	.. .. .	35/-
" 4	" "	.. .. .	60/-
" 5*	" (Carton)	.. .. .	80/-
" 5*	" Presentation Outfit	.. .. .	125/-
" 6*	" Outfit (Carton)	.. .. .	155/-
" 6*	" Presentation Outfit	.. .. .	210/-
" 7	" "	.. .. .	540/-

## ACCESSORY OUTFITS

No. 00A	Meccano Outfit	.. .. .	2/6
" 0A	" "	.. .. .	6/-
" 1A	" "	.. .. .	11/6
" 2A	" "	.. .. .	13/-
" 3A	" "	.. .. .	26/-
" 4A	" "	.. .. .	20/-
" 5A*	" (Carton)	.. .. .	75/-
" 5A*	" (Wood)	.. .. .	120/-
" 6A	" "	.. .. .	300/-
Meccano	Clockwork Motor	.. .. .	10/6
"	No. 1 Electric Motor (4 Volt)	.. .. .	18/6
"	" 2 " (100-120 or 200-250 Volt)	.. .. .	57/6
	Lamp Board (with lamp-holder and switch)	.. .. .	7/6
	Meccano Electrical Outfit X2	.. .. .	65/-
	Meccano Accumulator	.. .. .	30/-

\* Outfits Nos. 5, 5A and 6 are supplied in neat and well-made cardboard boxes (cartons) or in superior oak cabinets, with lock and key.

# Hornby Train Price List

## Complete Sets

Hornby No. 0	Goods Set	.. .. .	27/6
" "	0 Passenger Set	.. .. .	35/-
" "	1 Goods Set	.. .. .	32/6
" "	1 Passenger Set	.. .. .	40/-
" "	2 Goods Set	.. .. .	58/6
" "	2 Pullman Set	.. .. .	90/-
" "	1 Tank Goods Set	.. .. .	37/6
" "	2 Tank Goods Set	.. .. .	67/6
" "	2 Tank Passenger Set	.. .. .	67/6
"	Electric Train	.. .. .	160/-

## Components

Hornby No. 0	Locomotive	.. .. .	15/6
" "	1 Locomotive	.. .. .	20/-
" "	2 Locomotive	.. .. .	35/-
"	Electric Locomotive	.. .. .	75/-
"	No. 1 Tank Locomotive	.. .. .	18/-
"	" 2 Tank Locomotive	.. .. .	40/-
"	Tender (For No. 0 and No. 1 Sets)	.. .. .	3/6
"	Tender (For No. 2 Set)	.. .. .	5/6
"	Passenger Coach (For No. 0 and No. 1 Sets and No. 2 Tank Passenger Sets)	.. .. .	5/6
"	Pullman Coach (For No. 2 Train Set)	.. .. .	21/-
"	Wagon (For all Sets)	.. .. .	3/9

*Note.—The additional rolling stock included in the Hornby Tank Sets is listed on page 61.*









# MECCANO

Hornby's Original System, First Patented 1901

## PATENTS AND DESIGNS

GREAT BRITAIN :				AUSTRALIA :
3,869/14	139,125	671,485	682,934	13,460/19
4,183/14	177,430	671,534	683,011	14,388/14
4,564/15	577,207	671,790	686,112	15,136/14
20,535/13	577,272	680,416	698,054	
21,117/12	648,958	682,208	699,653	
22,962/13	671,484	682,209	699,654	

## Meccano is more than a Toy

**I**T is important to remember that when a boy is playing with MECCANO he is using engineering parts in miniature, and that these parts act in precisely the same way as do the corresponding engineering elements in actual practice. No other system of model construction can be correct, and other toys which attempt the same object by other methods must avail themselves of constructive elements which are not correct engineering elements. Consequently, though a boy may succeed in building playthings with them, they are merely toys and nothing else, and his mind, as regards proper mechanical construction and methods, is distorted instead of instructed. He thus learns wrong principles, and when his ambition tempts him to invent or construct more elaborate models, he will find that he cannot do so because of the deficiencies of his non-mechanical system.

No Outfit is genuine unless it bears the Trade Mark MECCANO