

MECCANO



(TRADE MARKS 296321, 12633, 10274, 55/13476, 884/25, 2913)

INSTRUCTIONS FOR OUTFIT No. 0.

Price 6d.

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No. 27.0

AUSTRALIAN EDITION

A TALK WITH NEW MECCANO BOYS



THE Meccano No. 00 Outfit is the first step in the Meccano system; then comes No. 0 with which 70 working mechanical models can be made, each one a perfect little toy. After you have made them all, you will wish to go on building, and you can do this by adding new parts to your No. 0 or by purchasing a No. 0A Accessory Outfit, thus converting your No. 0 into a No. 1. You will then be able to build 106 models, including larger and better cranes, bridges, wagons, trucks, windmills, etc.

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 which 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 to play with, 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; has a shot at the Competitions which are always being held in connection with the hobby; 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 too happy to grumble.

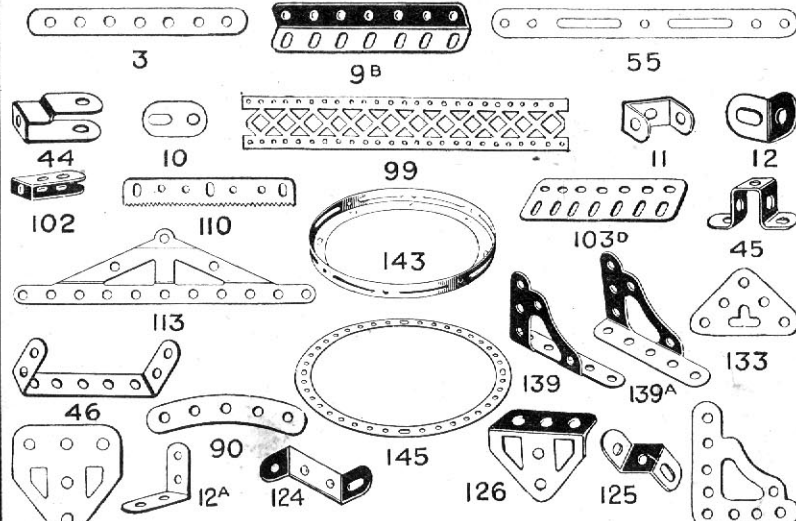
The *Meccano Magazine* is the Meccano boy's newspaper. It tells him of the latest Meccano models; what Meccano Clubs are doing; how to correspond with other Meccano boys; the Competitions that are running, etc. It contains interesting articles on Engineering and Electrical subjects, Railways, Aeroplanes, Cycling, Stamps, Photography, and other topics of interest to boys, including suggestions 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, giving the names and addresses of three of your chums who are not Meccano boys and enclosing 6d. in stamps. He will then forward a specimen copy of the "*M.M.*" post free. If you wish to become a regular subscriber, the rates are 4/- for 6 issues or 8/- for 12 issues, post free.

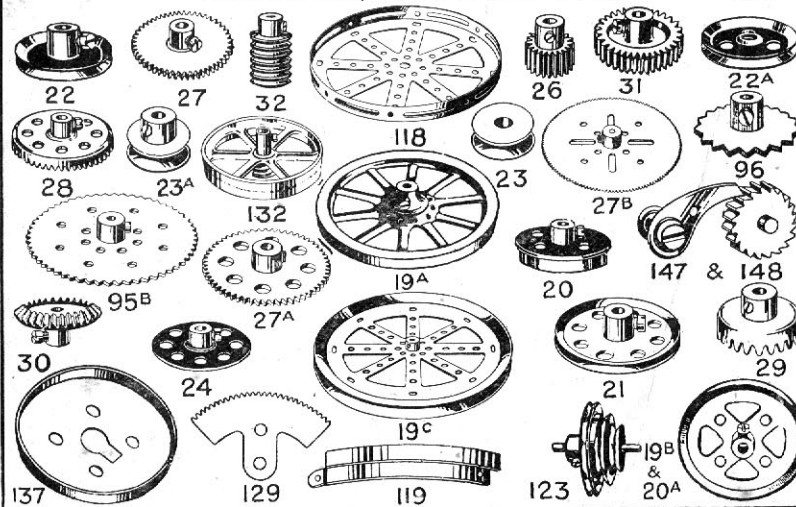
HOW TO BUILD WITH MECCANO

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 and you will find that you can play with the trucks, cranes, signals, etc., and obtain many hours of fun from them.

STRIPS, GIRDERS AND BRACKETS



WHEELS, GEARS, ETC.



Particulars and Prices of Meccano Parts

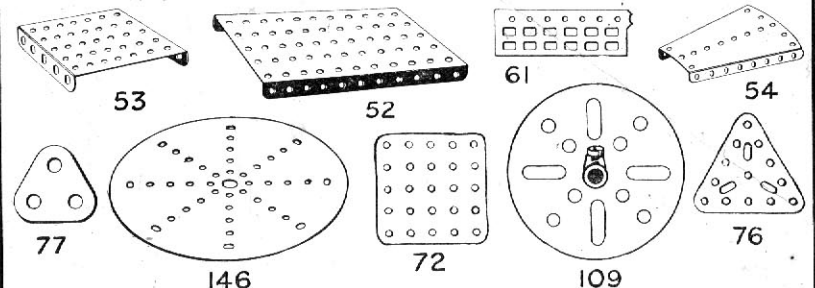
No.	Description	Quantity	s.	d.
1.	Perforated Strips, 1 1/2" long	1/2 doz.	1	6
1a.	" " 9 1/2" " " " " "	"	1	3
1b.	" " 7 1/2" " " " " "	"	1	0
2.	" " 4 1/2" " " " " "	"	0	9
2a.	" " 5 1/2" " " " " "	"	0	8
3.	" " 3 1/2" " " " " "	"	0	6
4.	" " 3" " " " " " "	"	0	5
5.	" " 2 1/2" " " " " "	"	0	5
6.	" " 2" " " " " " "	"	0	5
6a.	" " 1 1/2" " " " " "	"	0	5
7.	Angle Girders, 2 1/4" long	each	1	0
7a.	" " 18 1/2" " " " " "	"	0	9
8.	" " 12 1/2" " " " " "	1/2 doz.	2	0
8a.	" " 9 1/2" " " " " "	"	2	0
8b.	" " 7 1/2" " " " " "	"	1	9
9.	" " 5 1/2" " " " " "	"	1	6
9a.	" " 4 1/2" " " " " "	"	1	3
9b.	" " 3 1/2" " " " " "	"	1	0
9c.	" " 3" " " " " " "	"	1	0
9d.	" " 2 1/2" " " " " "	"	1	0
9e.	" " 2" " " " " " "	"	0	9
9f.	" " 1 1/2" " " " " "	"	0	9
10.	Flat Brackets...	"	0	3
11.	Double Brackets	each	0	1 1/2
12.	Angle Brackets 1/2" x 1"	doz.	0	9
12a.	" " 1" x 1"	each	0	1 1/2
12b.	" " 1" x 1 1/4"	"	0	1 1/2
13.	Axle Rods, 11 1/2" long	"	0	5
13a.	" " 8" " " " " "	"	0	5
14.	" " 6 1/2" " " " " "	"	0	3
15.	" " 5" " " " " " "	"	0	3
15a.	" " 4 1/2" " " " " "	"	0	2
16.	" " 3 1/2" " " " " "	"	0	2
16a.	" " 2 1/2" " " " " "	"	0	2
16b.	" " 3" " " " " " "	"	0	2
17.	" " 2" " " " " " "	"	0	2
18a.	" " 1 1/2" " " " " "	"	0	2
18b.	" " 1" " " " " " "	"	0	1 1/2
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.	1 1/2" " " " " " " "	"	0	9
22.	1" " " " " " " "	"	0	6
23a.	1 1/2" " " " " " " "	"	0	6
22a.	1" " without	"	0	3
23.	1/2" " " " " " " "	"	0	3
No.	Description	Quantity	s.	d.
24.	Bush Wheels	each	0	9
25.	Pinion Wheels, 1/2" diam.	"	0	9
26.	" " Gear Wheels	"	0	6
27.	50 teeth to gear with 1/2" pinion	"	1	3
27a.	57 " " " " " " "	"	1	3
27b.	133 " " " " " " "	"	2	3
28.	Contrate Wheels, 1 1/2" diam.	"	1	3
29.	" " " " " " " "	"	0	9
30.	Bevel Gears	"	1	3
31.	Gear Wheels, 1" " " " " "	"	1	6
32.	Worm Wheels	"	0	9
34.	Spanners	"	0	3
34a.	" Combined	"	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, 7/32"	per box (doz.)	0	9
37a.	Nuts	"	0	5
37b.	Boilts, 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, 2 1/4" x 1"	1/2 doz.	0	9
47.	" " 2 1/4" x 1 1/2" " " "	"	1	3
47a.	" " 3" x 1 1/2" " " "	"	1	6
48.	" " 1 1/2" x 1 1/2" " " "	"	0	6
48a.	" " 2 1/4" x 1 1/2" " " "	"	0	8
48b.	" " 3 1/2" x 1 1/2" " " "	"	0	9
48c.	" " 4 1/2" x 1 1/2" " " "	"	1	3
48d.	" " 5 1/2" x 1 1/2" " " "	"	1	3
50.	Eye Pieces	each	0	3
*52.	Perforated Flanged Plates, 5 1/2" x 2 1/4"	"	0	8
*52a.	Flat Plates, 5 1/2" x 3 1/2" " " "	"	0	8
*53.	Perforated Flanged Plates, 3 1/2" x 2 1/4"	"	0	5
*53a.	Flat Plates, 4 1/2" x 2 1/4" " " "	"	0	5
*54.	Perforated Flanged Sector Plates	"	0	5
55.	Perforated Strips, slotted, 5 1/2" 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

IMPORTANT.—All Meccano parts marked thus * are available with either red or nickel finish and all marked thus† are available with either green or nickel finish. When ordering nickelled parts quote only the numbers now shown in the list. When coloured parts are required add letter X to the distinguishing numbers under which they are listed. Thus part No. 99 would be ordered as 99x; part No. 99a as 99ax and so on.

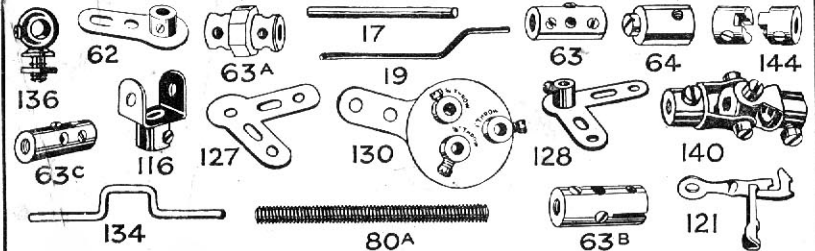
Particulars and Prices of Meccano Parts (continued)

No.		s.	d.	No.		s.	d.
62.	Cranks	each	0 5	105.	Reed Hooks, for looms	each	0 6
62a.	Threaded Cranks... ..	"	0 6	106.	Wood Rollers	"	2 0
63.	Couplings	"	0 9	106a.	Sand Rollers	"	2 3
63a.	Octagonal Couplings	"	1 0	107.	Tables for Designing Machines	"	1 6
63b.	Strip Couplings	"	1 0	108.	Architraves	"	0 3
63c.	Threaded Couplings	"	0 9	109.	Face Plates, 2½" diam.	"	0 6
64.	Threaded Bosses	"	0 3	110.	Rack Strips, 3½"	"	0 3
65.	Centre Forks	"	0 4	111.	Bolts,	"	0 13
66.	Weights, 50 grammes	"	1 6	111a.	"	2 for	0 13
67.	" 25 "	"	1 6	111c.	"	doz.	0 6
68.	Wood screws, ½"	doz.	0 5	113.	Girdler 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 5
69b.	" 7/32"	"	0 9	116.	Fork Pieces	"	0 5
*70.	Flat Plates, 5½" x 2½"	each	0 5	117.	Steel Balls, ¾" diam.	doz.	0 9
*72.	" 2½" x 2½"	"	0 3	*118.	Hub Discs, 5¼" diam.	each	1 9
*76.	Triangular Plates, 2½"	"	0 3	*119.	Channel Segments (8 to circle, 1½" diam.)	"	0 6
*77.	" 1½"	"	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 3
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.	0 9
80b.	" 4½"	"	0 5	125.	Trunnions	each	0 4
81.	" 2"	"	0 3	*126.	Flat Trunnions	"	0 3
82.	" 1"	"	0 2	127.	Simple Bell Cranks	"	0 4
89.	Curved Strips, 5½"	"	0 3	128.	Boss Bell Cranks	"	0 6
90.	" 2½" large radius	"	0 2	129.	Rack Segments, 3" diam.	"	0 9
90.	" 2½" small radius	"	0 2	130.	Triple Throw Eccentrics	"	2 0
†94.	Sprocket Chain per 40" length	0 9		*131.	Dredger Buckets	"	0 3
95a.	Sprocket-Wheels, 2" diam.	each	0 8	132.	Flywheels, 2½" diam.	"	3 6
95b.	" 1½"	"	0 9	*133.	Corner Brackets	"	0 5
96.	" 1"	"	0 5	134.	Crank Shafts, 1" stroke	"	0 4
96a.	" ¾"	"	0 5	135.	Theodolite Protractors	"	0 5
†97.	Braced Girders, 3½" long	½ doz.	1 3	136.	Handrail Supports	"	0 6
†97a.	" 3"	"	1 0	137.	Wheel Flanges	"	0 6
†98.	" 2½"	"	0 9	138.	Ship's Funnels	"	0 3
†99.	" 12½"	"	2 9	*139.	Flanged Brackets (right)	"	0 3
†99a.	" 9½"	"	2 6	*139a.	" (left)	"	0 3
†99b.	" 7½"	"	2 0	140.	Universal Couplings	"	1 3
†100.	" 5½"	"	1 6	141.	Wire Lines (for suspending clock weights)	"	1 0
†100a.	" 4½"	"	1 6	142.	Rubber Rings	"	0 6
101.	Healds, for looms	doz.	1 3	142a.	Dunlop Tyre, 2"	"	0 6
102.	Single Bent Strips	each	0 2	142a.	" 3"	"	0 9
103.	Flat Girders, 5½" long	½ doz.	1 6	*143.	Circular Girders, 5½" diam.	"	1 6
103a.	" 9½"	"	2 3	144.	Dog Clutches	"	0 9
103b.	" 12½"	"	3 0	*145.	Circular Strips, 7" diam. over all	"	1 6
103c.	" 4½"	"	1 3	*146.	" Plates, 6"	"	1 9
103d.	" 3½"	"	1 0	147.	Pawls, with pivot bolt and nuts	"	0 5
103e.	" 3"	"	0 9	147a.	Pawls	"	0 3
103f.	" 2½"	"	0 8	147b.	Pivot Bolt with nuts	"	0 3
103g.	" 2"	"	0 6	148.	Ratchet Wheels	"	1 3
103h.	" 1½"	"	0 5	149.	Collecting Shoes, for Electric Locos	"	2 3
103k.	" 7½"	"	2 0				
104.	Shuttles, for looms	each	6 0				

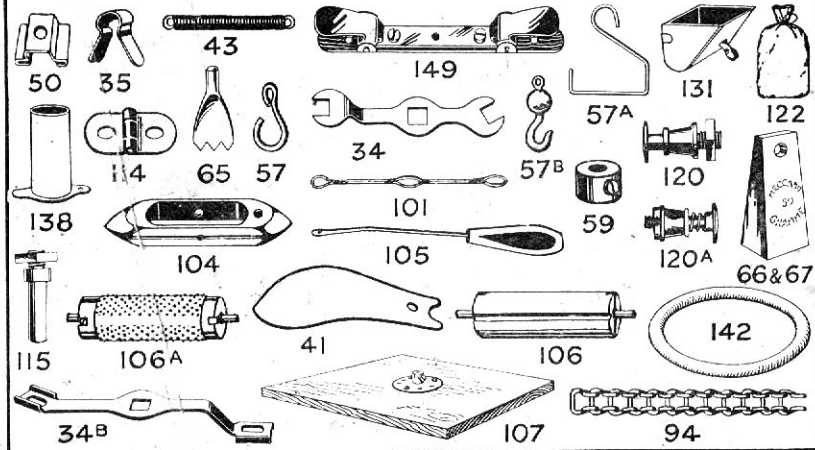
PLATES.



RODS, CRANKS AND COUPLINGS.



MISCELLANEOUS.

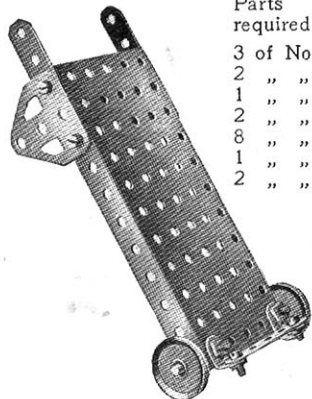


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As new parts are frequently added to the Meccano system the foregoing list is not necessarily complete. The latest illustrated list should be obtained from your dealer, or from Meccano Ltd., Liverpool, England.

Trucks and Luggage Carts

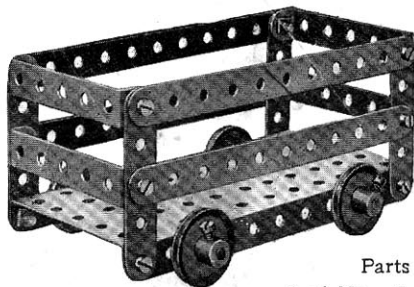
**Model No. 1
Flat Truck**



Parts
required:

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

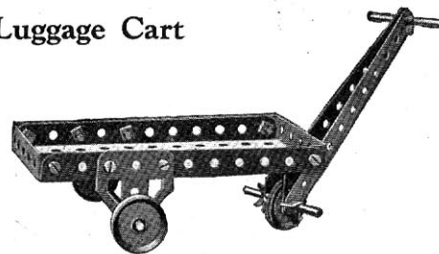
**Model No. 2
Truck with Sides**



Parts required:

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

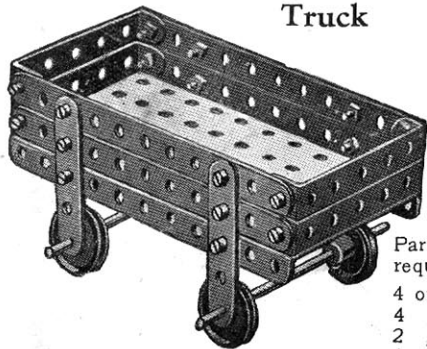
**Model No. 3
Luggage Cart**



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

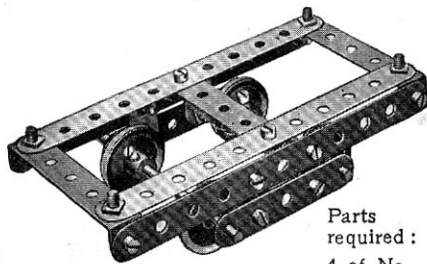
**Model No. 4
Truck**



Parts
required:

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

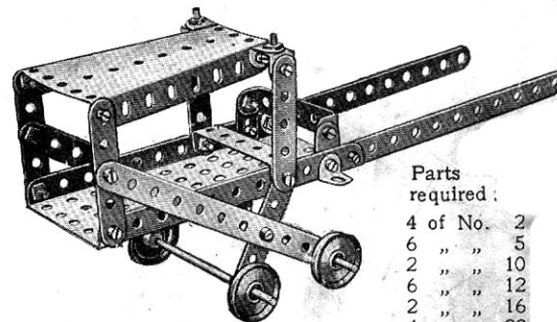
**Model No. 5
Bogie Truck**



Parts
required:

4 of No.	2
3 " "	5
4 " "	10
2 " "	16
4 " "	22
18 " "	37
2 " "	48A

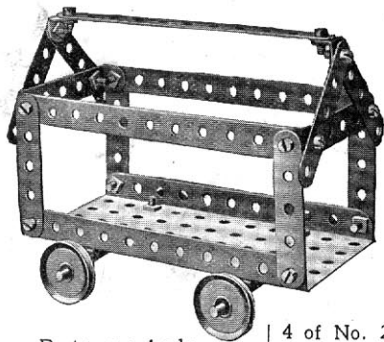
Model No. 6 Ticca Gharry



Parts
required:

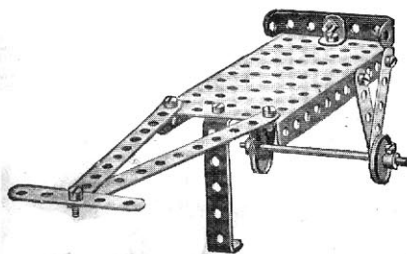
4 of No.	2
6 " "	5
2 " "	10
6 " "	12
2 " "	16
4 " "	22
22 " "	37
1 " "	52
1 " "	54

Model No. 7
Covered Truck



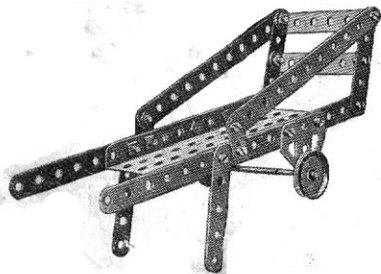
Parts required:	4 of No. 22
	20 " " 37
3 of No. 2	2 of No. 12
4 " " 5	2 " " 16
	4 " " 48A
	1 " " 52

Model No. 10 Shipyard Bogie



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

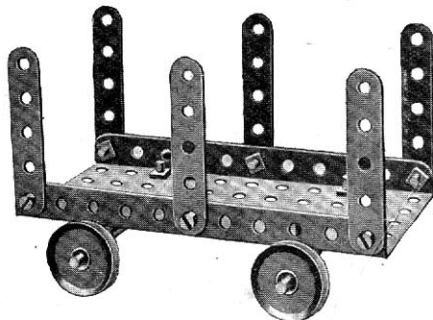
Model No. 13 Coster's Barrow



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

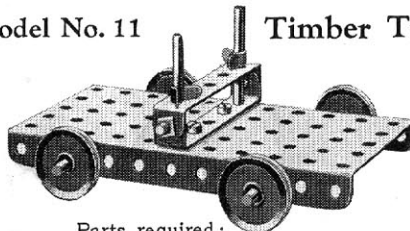
Trucks and Luggage Carts (continued)

Model No. 8 Timber Truck



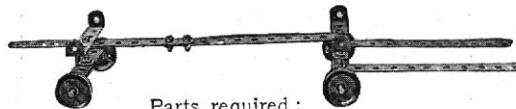
Parts required:	6 of No. 5	10 of No. 37
	2 " " 16	2 " " 48A
	4 " " 22	1 " " 52

Model No. 11 Timber Truck



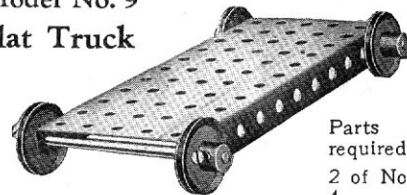
Parts required:	2 of No. 16	4 of No. 35
	2 " " 17	4 " " 37
	4 " " 22	2 " " 48A
	1 of No. 52	

Model No. 14 Timber Drag



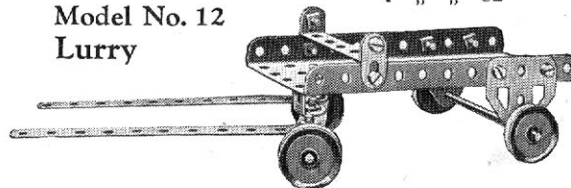
Parts required:	4 of No. 2	2 of No. 16	8 of No. 37
	2 " " 11	4 " " 22	4 " " 48A

Model No. 9
Flat Truck



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

Model No. 12
Lurry

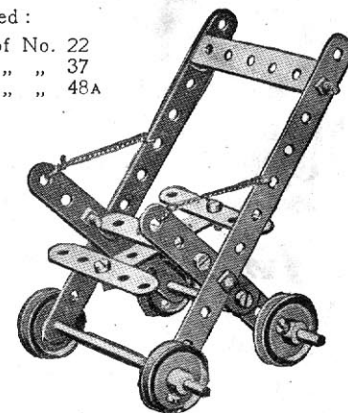


Parts required:	2 of No. 2	2 of No. 16	2 of No. 48A
	2 " " 10	4 " " 22	1 " " 52
	1 " " 11	12 " " 37	2 " " 126A

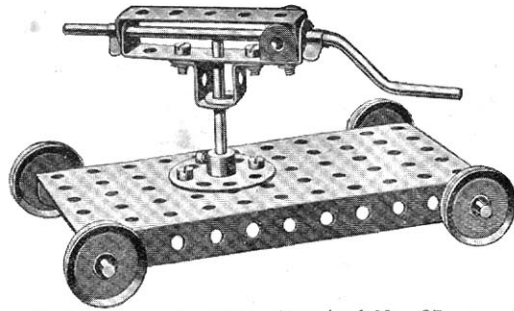
Model No. 15 Go Chair

Parts required:

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



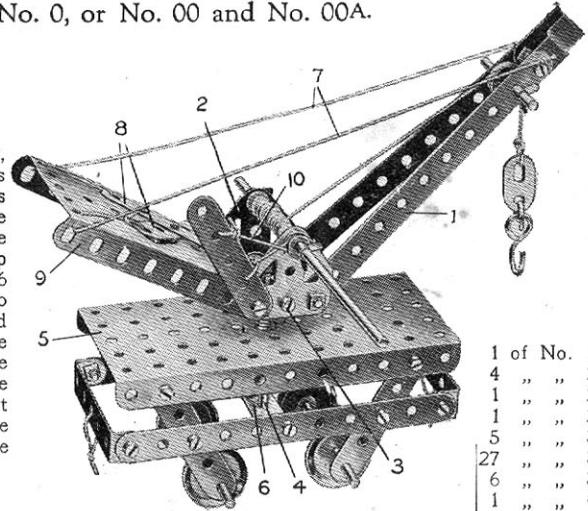
Model No. 16 Rock Drill



Parts required:	1 of No. 19	4 of No. 37
	4 " " 22	2 " " 48A
	2 of No. 16	1 " " 24
	1 " " 17	2 " " 35
		1 " " 52
		2 " " 125

Model No. 17 Travelling Crane

The jib 1 is pivoted to the flat trunnions 2, which are bolted at 3 to angle brackets secured to a bush wheel. The latter is nipped to a 2" rod 4 passing through the plate 5 and further supported in a double angle strip 6. A washer and spring clip mounted on the rod 4 below the strip 6 secure the crane to the carriage. The jib is supported by means of cords 7 tied to 2 1/2" strips 8, the holes of which engage the shank of a bolt passed through the sector plate 9, and its elevation may be altered by inserting this bolt in different holes in the strips 8. The cord 10 of the brake lever is wound once round the crank handle, between two washers.



	1 of No. 19
	4 " " 22
	1 " " 23A
	1 " " 24
	5 " " 35
	27 " " 37
	6 " " 38
	1 " " 44
	3 " " 48A
	1 " " 52
	1 " " 54
	1 " " 57
	2 " " 126A

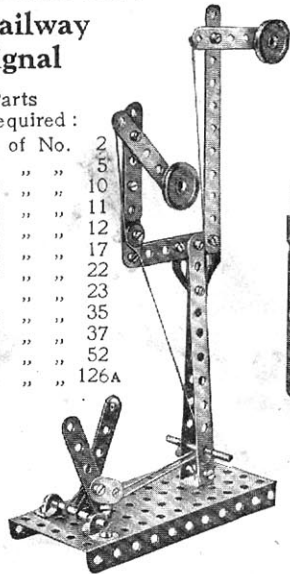
Parts required:

4 of No. 2	2 of No. 12
7 " " 5	2 " " 16
1 " " 10	2 " " 17

Model No. 18 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. 19 Potter's Wheel

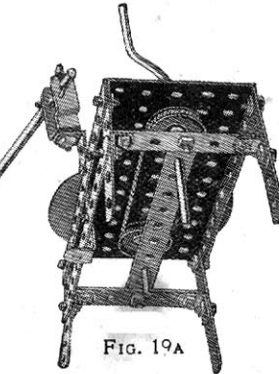
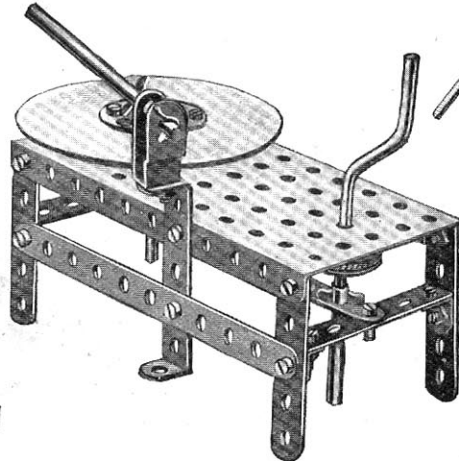
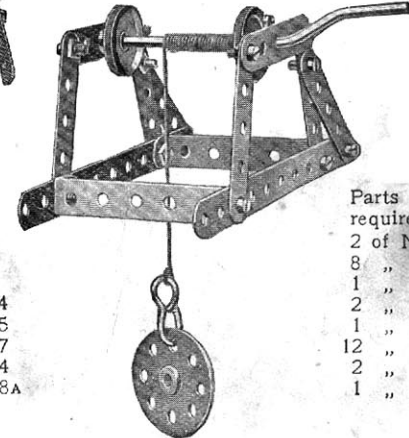


FIG. 19A

Parts required:

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

Model No. 20 Well Windlass

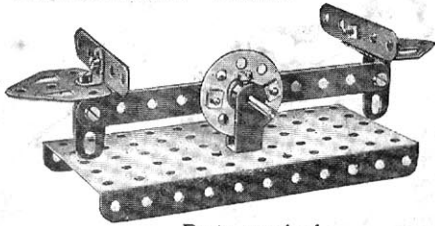


Parts required:

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

These Models can be made with MECCANO Outfit No. 0, or No. 00 and No. 00A.

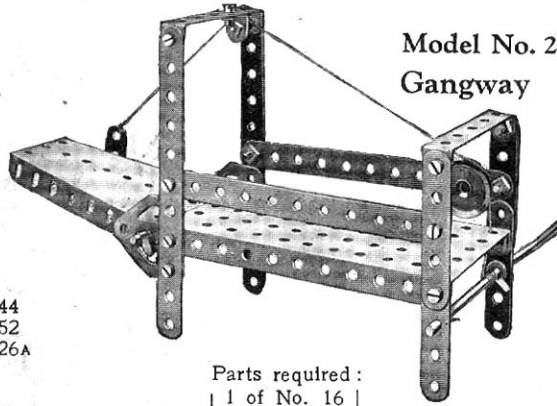
Model No. 21 Scales



Parts required :

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

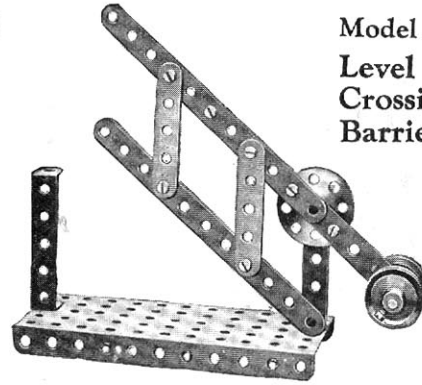
Model No. 22
Gangway



Parts required :

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

Model No. 23
Level
Crossing
Barrier



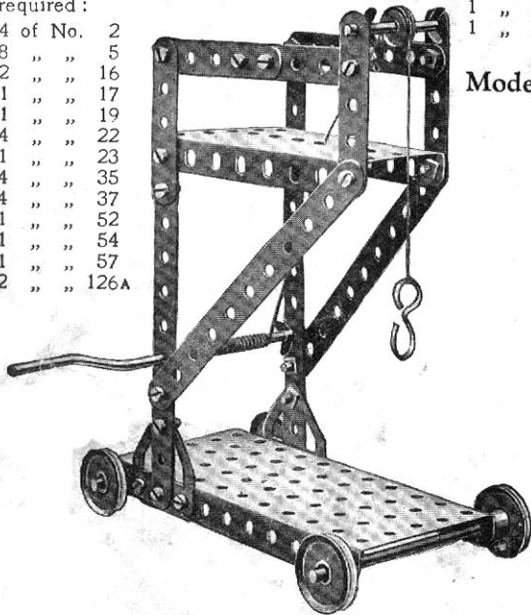
Parts required :

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

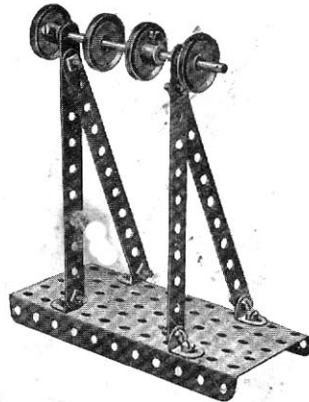
Model No. 24 Tower Wagon

Parts required :

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



Model No. 25 Pulley Shaft



Parts required :

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

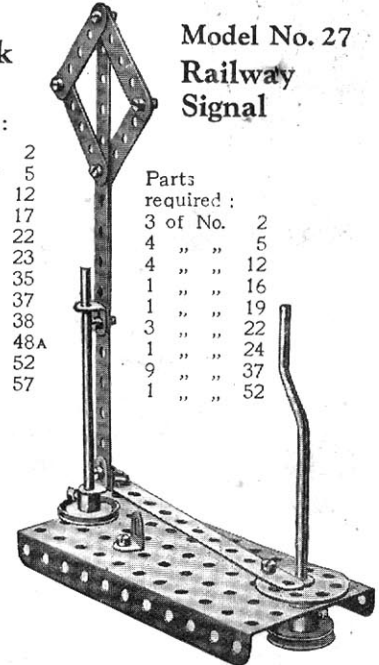
Model No. 26
Hoisting Block



Parts required :

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

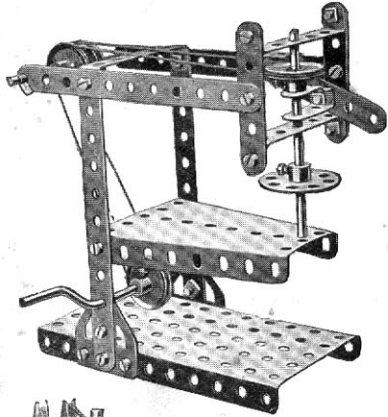
Model No. 27
Railway
Signal



Parts required :

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

Model No. 28 Drilling Machine

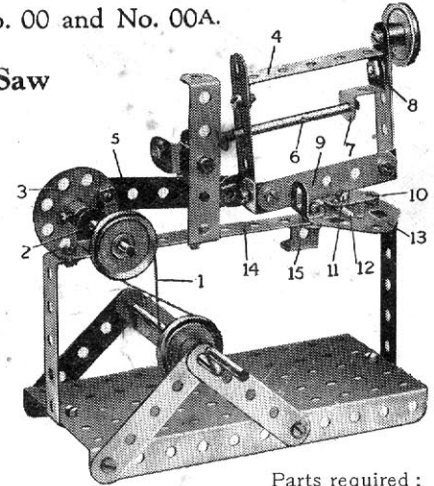


Parts required :

4 of No.	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. 29 Mechanical Saw

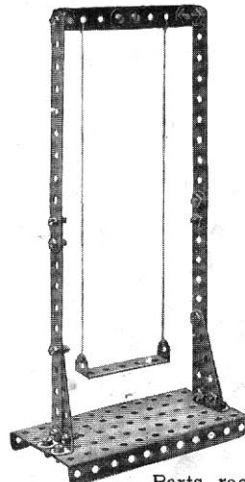
The strip 9 represents the saw. The crank handle drives through a belt 1 a short rod journalled in a double bracket 2 and carrying a bush wheel 3. The latter imparts a reciprocating motion to the saw frame 4 through a 2 1/4" strip 5 loosely mounted on bolts secured to the bush wheel and to an angle bracket bolted to the saw frame. This frame slides on a 3 1/4" rod 6, which acts as a guide, passing through the frame and supported in a reversed angle bracket 7. A washer is placed on the bolt 8 behind the bracket 7. A vice to secure the objects in position for cutting consists of a flat bracket 10 mounted on a bolt 11, a few turns of which causes the flat bracket to grip the object 12. The bolt 11 enters a nut held between the flat trunnion 13 and 5 1/8" strip 14, which are spaced apart for the purpose by washers placed on the two bolts holding the trunnion in position. The saw frame rests on the stop 15 when not in use. A 1" pulley secured to the top of the frame acts as a weight and helps to steady the saw.



Parts required :

1 of No.	2	1 of No.	17	4 of No.	38
8 "	5	1 "	19	1 "	44
1 "	10	3 "	22	4 "	48A
1 "	11	1 "	24	1 "	52
4 "	12	3 "	35	2 "	125
1 "	16	22 "	37	1 "	126A

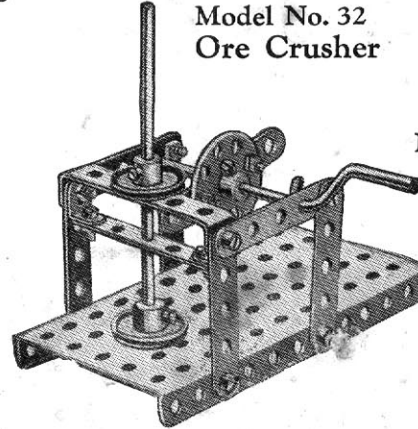
Model No. 31 Swing



Parts required :

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

Model No. 32 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. 33 Jib Crane

Parts required :

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

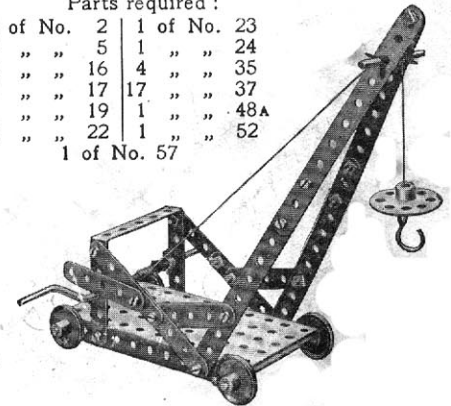
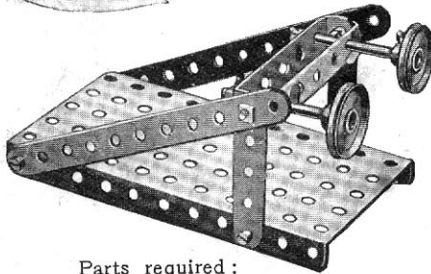


FIG. 28A
(Detail of
Drilling
Machine)

Model No. 30 Buffers



Parts required :

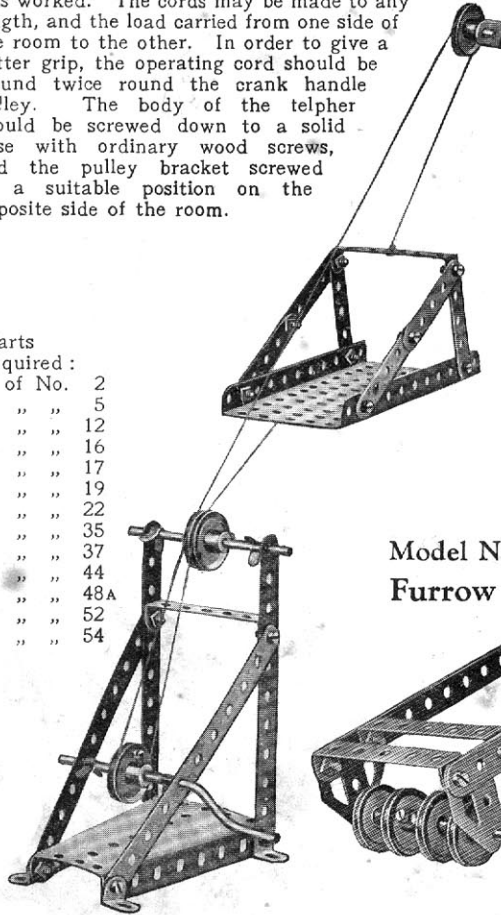
2 of No.	2	2 of No.	35
2 "	5	6 "	37
2 "	17	2 "	48A
2 "	22	1 "	52

Model No. 34 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:

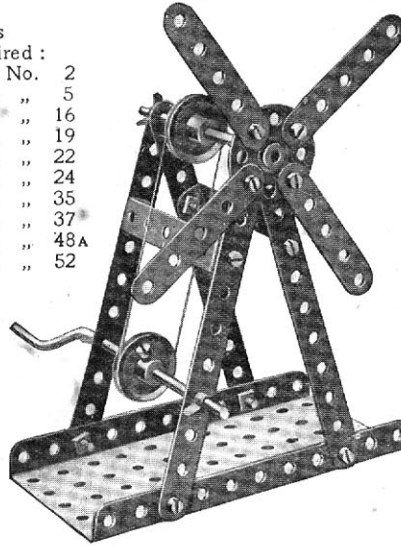
4	of No.	2
6	" "	5
4	" "	12
1	" "	16
1	" "	17
1	" "	19
4	" "	22
6	" "	35
14	" "	37
1	" "	44
2	" "	48A
1	" "	52
1	" "	54



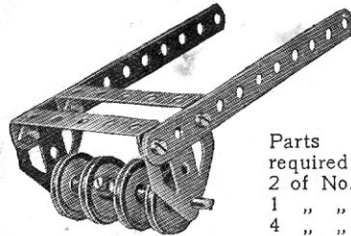
Model No. 35 Windmill

Parts required:

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



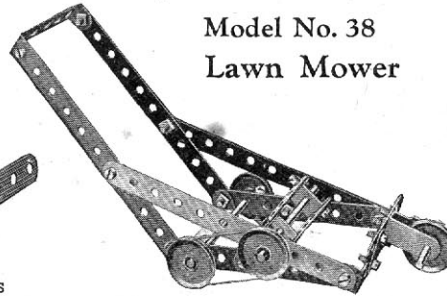
Model No. 37 Furrow Roller



Parts required:

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

Model No. 38 Lawn Mower



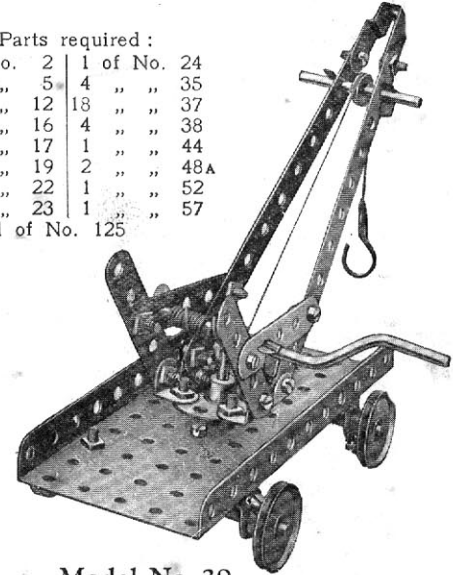
Parts required:

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

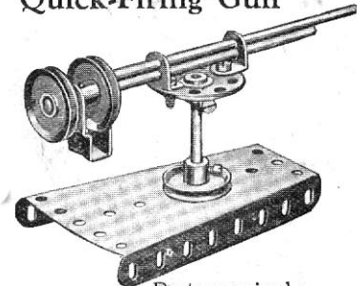
Model No. 36 Swivelling Crane

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. 39 Quick-Firing Gun

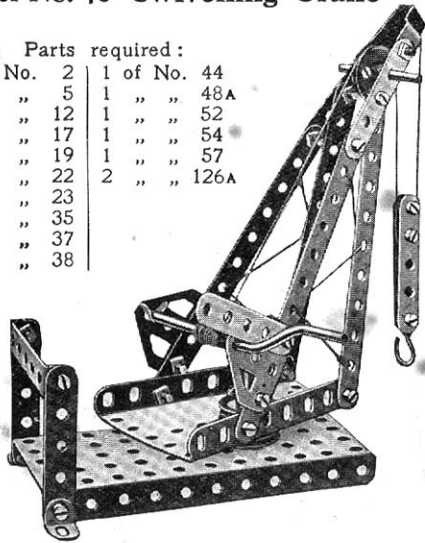


Parts required:

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

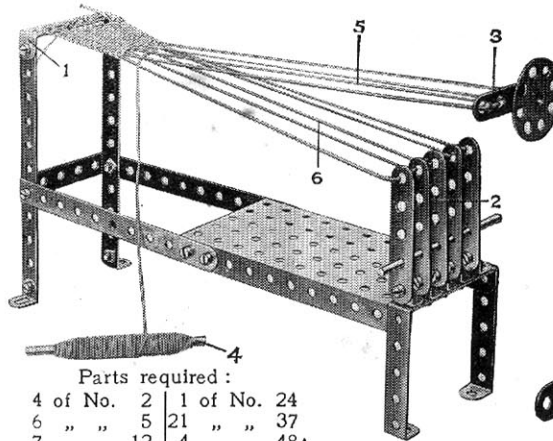
Model No. 40 Swivelling Crane

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



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

Model No. 41 Hand Loom



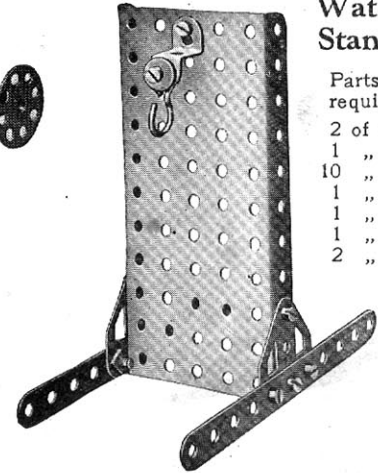
Parts required:	
4 of No. 2	1 of No. 24
6 " " 5	5 " " 37
7 " " 12	4 " " 48A
2 " " 16	1 " " 52

The warp threads are tied at one end to a double angle strip 1, whilst their other ends are secured alternately to the tops of the upright strips 2, and the 2 1/2" strip 3. The "shedding" movement of the warp is obtained by moving the strip 3 up or down each time the shuttle—a 3 1/2" rod 4—is passed between the two layers of warp 5 and 6. Wool or similar material is particularly suited to this apparatus. The strands 6 should be kept very taut, and the warp threads may be closed up with the woven portion by means of an ordinary comb each time the shuttle passes.

Model No. 42 Watch Stand

Watch Stand

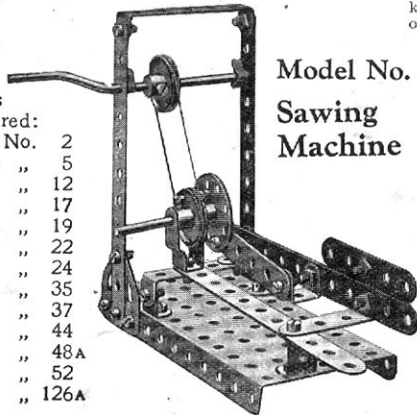
Parts required:	
2 of No. 2	
1 " " 23	
10 " " 37	
1 " " 52	
1 " " 57	
1 " " 125	
2 " " 126A	



Model No. 43

Sawing Machine

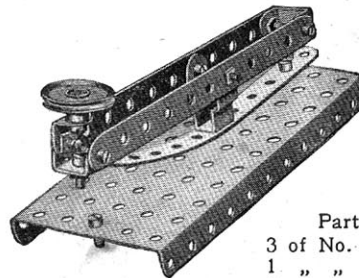
Parts required:	
4 of No. 2	
3 " " 5	
4 " " 12	
1 " " 17	
1 " " 19	
2 " " 22	
1 " " 24	
2 " " 35	
23 " " 37	
1 " " 44	
2 " " 48A	
1 " " 52	
2 " " 126A	



Model No. 44

Telegraph Key

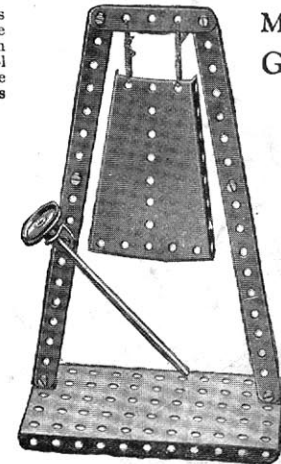
Parts required:	
3 of No. 2	1 of No. 22
1 " " 10	11 " " 37
2 " " 11	1 " " 44
1 " " 12	1 " " 52



Model No. 45

Gong

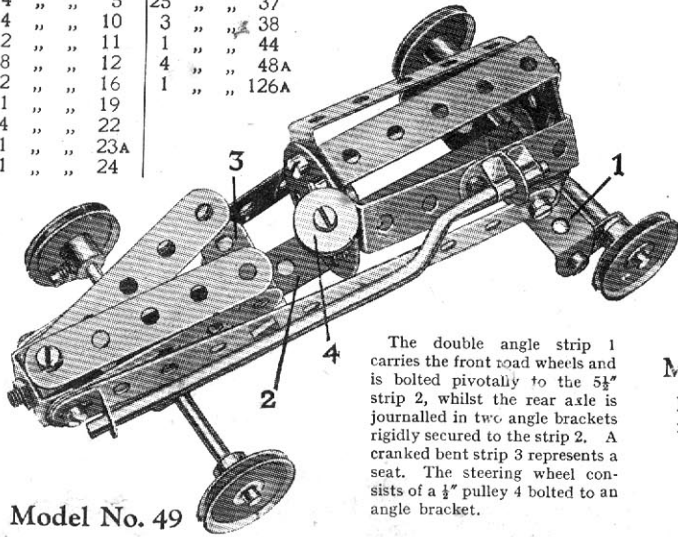
Parts required:	
4 of No. 2	
1 " " 5	
3 " " 12	
1 " " 16	
1 " " 22	
7 " " 37	
1 " " 52	
1 " " 54	



Model No. 46 Racing Motor Car

Parts required:

3 of No. 2	4 of No. 35
4 " " 5	25 " " 37
4 " " 10	3 " " 38
2 " " 11	1 " " 44
8 " " 12	4 " " 48A
2 " " 16	1 " " 126A
1 " " 19	
4 " " 22	
1 " " 23A	
1 " " 24	

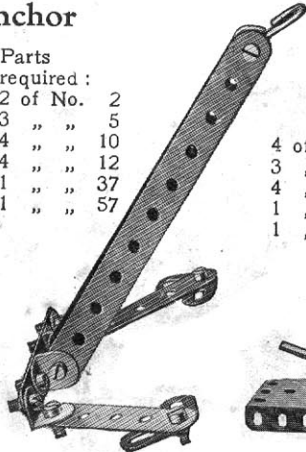


The double angle strip 1 carries the front road wheels and is bolted pivotally to the 5 1/2" strip 2, whilst the rear axle is journaled in two angle brackets rigidly secured to the strip 2. A cranked bent strip 3 represents a seat. The steering wheel consists of a 1/4" pulley 4 bolted to an angle bracket.

Model No. 49 Anchor

Parts required:

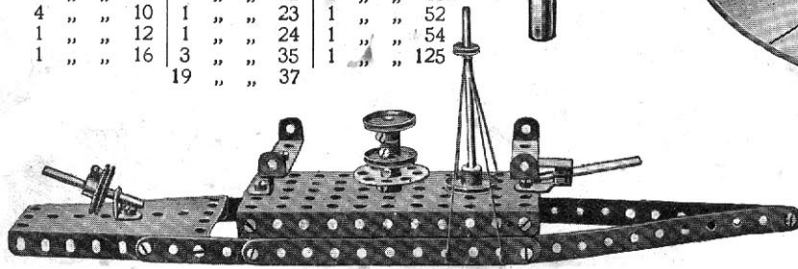
2 of No. 2
3 " " 5
4 " " 10
4 " " 12
11 " " 37
1 " " 57



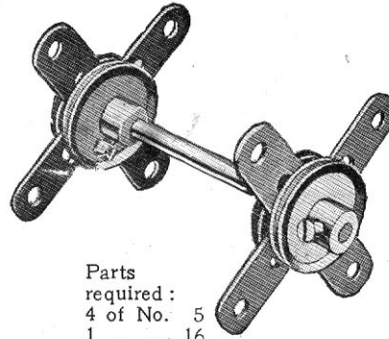
Model No. 50 Battleship

Parts required:

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



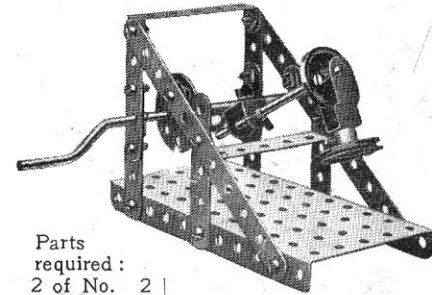
Model No. 47 Cutlery Rest



Parts required:

4 of No. 5
1 " " 16
4 " " 22

Model No. 48 Mechanical Hammer



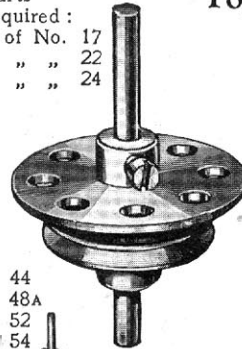
Parts required:

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

Model No. 51 Spinning Top

Parts required:

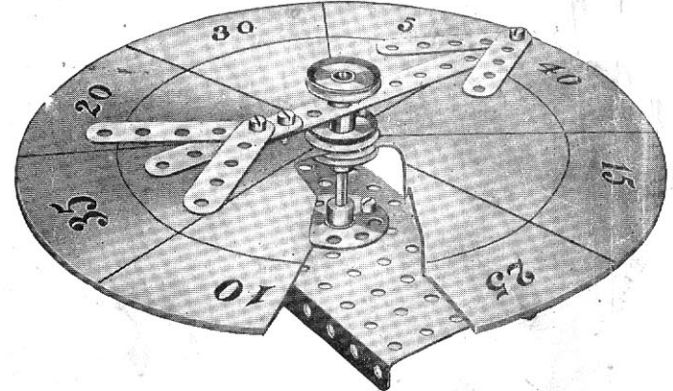
1 of No. 17
1 " " 22
1 " " 24



Model No. 52 Roulette Wheel

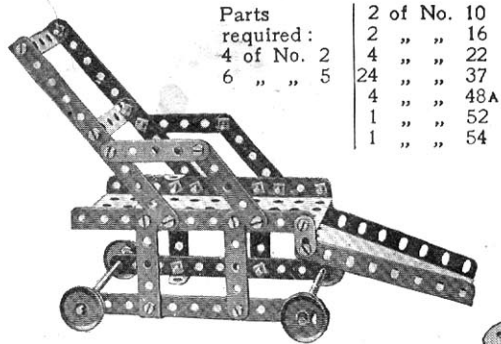
Parts required:

5 of No. 5	1 of No. 24
1 " " 16	5 " " 37
1 of No. 2	3 " " 22
	1 " " 52



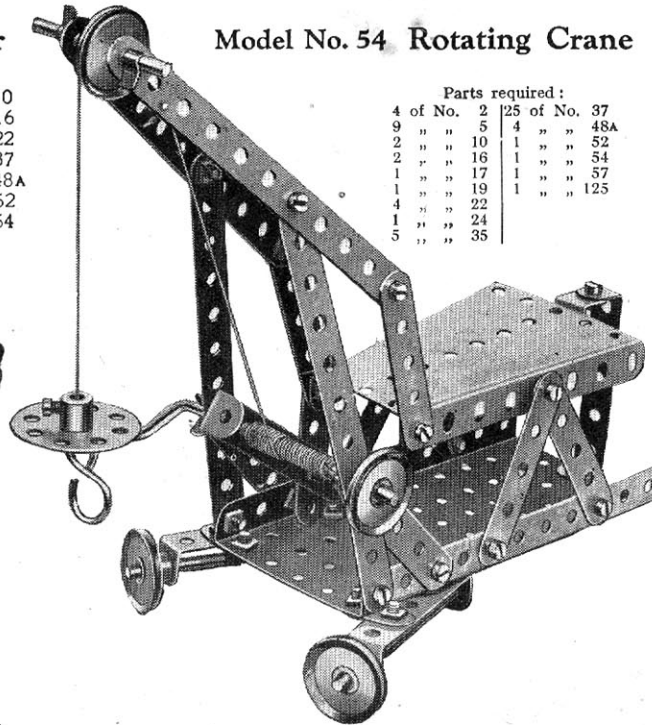
Cut out a circular piece of cardboard, and mark as shown to form scoring board. This is clamped between two 1" pulley wheels. The pointer revolves freely on the upright spindle and is held in position by another 1" pulley wheel.

Model No. 53 Invalid's Chair



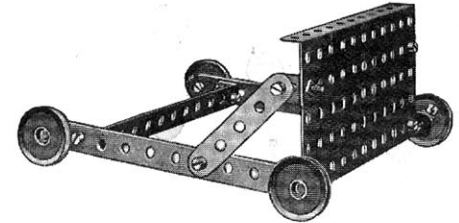
Parts required:	2 of No. 10
4 of No. 2	2 " " 16
6 " " 5	4 " " 22
	24 " " 37
	4 " " 48A
	1 " " 52
	1 " " 54

Model No. 54 Rotating Crane



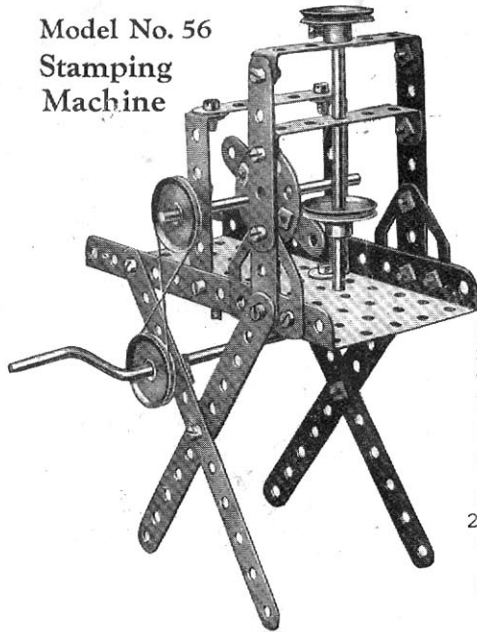
Parts required:		
4 of No. 2	25 of No. 37	
9 " " 5	4 " " 48A	
2 " " 10	1 " " 52	
2 " " 16	1 " " 54	
1 " " 17	1 " " 57	
1 " " 19	1 " " 125	
4 " " 22		
4 " " 24		
1 " " 35		

Model No. 55 Devil Wall



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

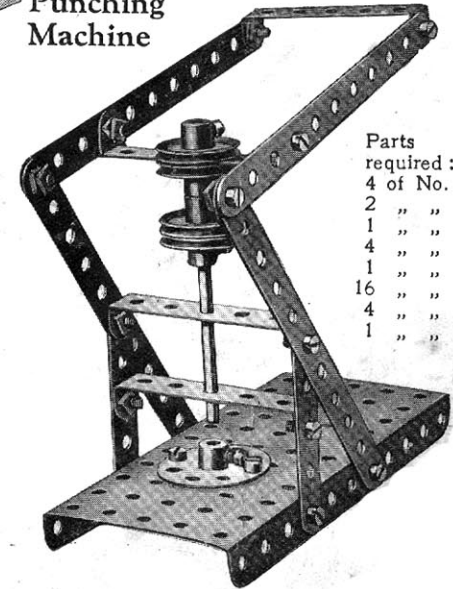
Model No. 56 Stamping Machine



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

The running wheels of this crane are journaled in double angle strips bolted to the base plate and secured at an angle by means of flat brackets. The rear of the base plate is supported on a double bracket. The jib is bolted loosely to the supporting $5\frac{1}{2}$ " strips and is connected by $2\frac{1}{2}$ " strips to the sector plate which pivots about its supporting bolts. By moving this sector plate the elevation of the jib may be altered as desired. The movement is controlled by a double angle strip mounted on the crank handle and connected pivotally to the plate by means of a $2\frac{1}{2}$ " strip. A reversed angle bracket bolted to an upright double angle strip in the rear of the model serves to restrict the movement of the sector plate.

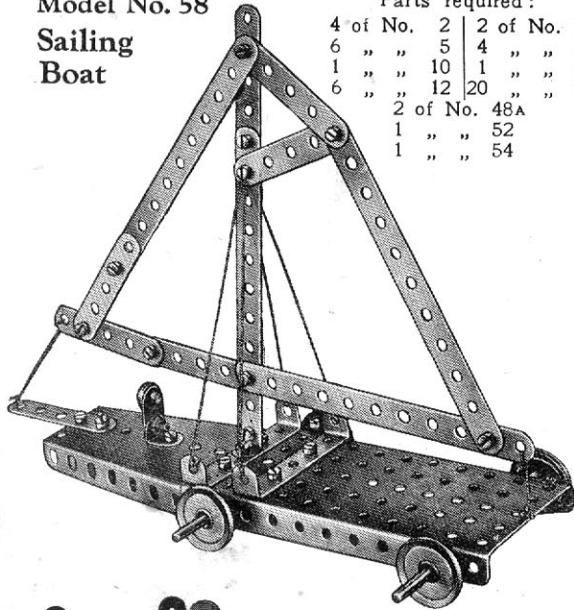
Model No. 57 Punching Machine



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

These Models can be made with MECCANO Outfit No. 0, or No. 00 and No. 00A.

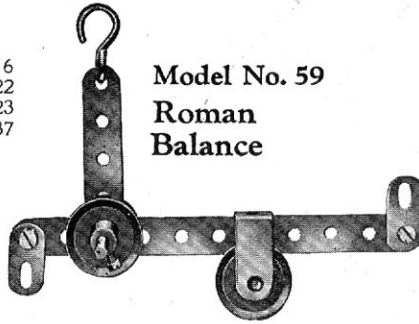
Model No. 58
Sailing Boat



Parts required:

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

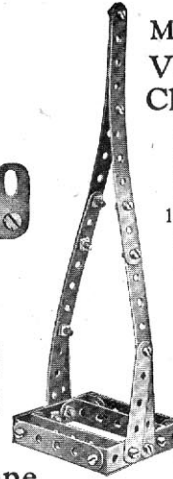
Model No. 59
Roman Balance



Parts required:

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

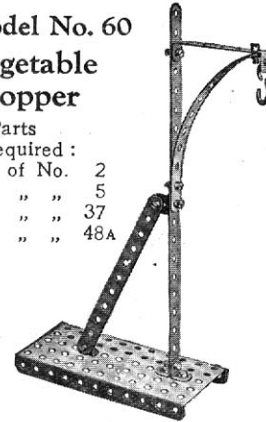
Model No. 60
Vegetable Chopper



Parts required:

4 of No.	2
4 "	5
18 "	37
4 "	48A

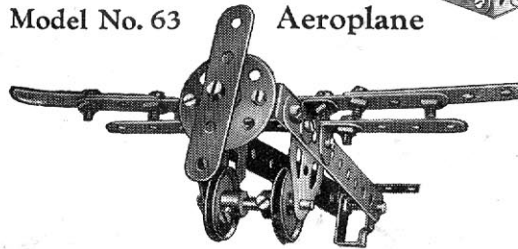
Model No. 61
Mail-Bag Hanger



Parts required:

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

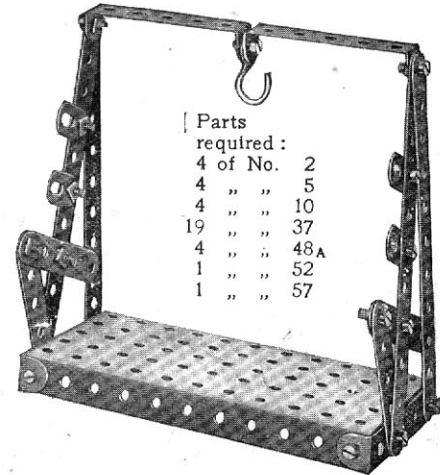
Model No. 63 **Aeroplane**



Parts required:

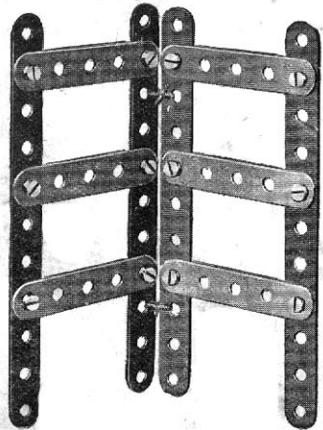
* 4 of No.	2	6 of No.	17	20 of No.	37
4 "	5	1 "	12	1 "	44
1 "	11	2 "	22	2 "	126A
		1 "	24		

Model No. 64
Pen Rack



Parts required:

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



Model No. 62
Clothes Horse

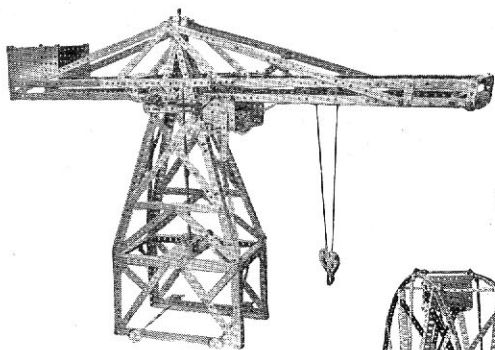
Parts required:

4 of No.	2
6 "	5
12 "	37

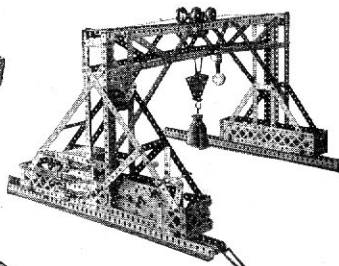
HOW TO CONTINUE

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.

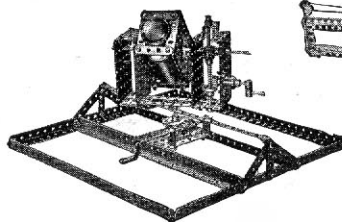
A FEW CHOICE MECCANO MODELS



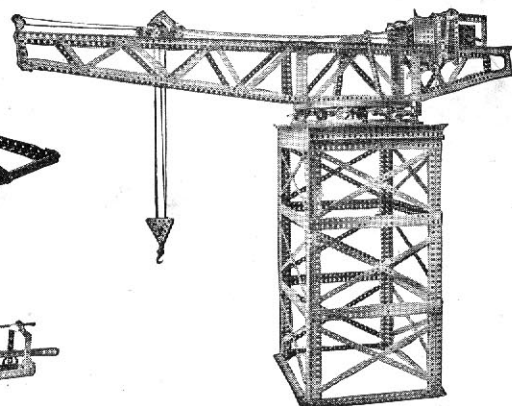
Radial Crane



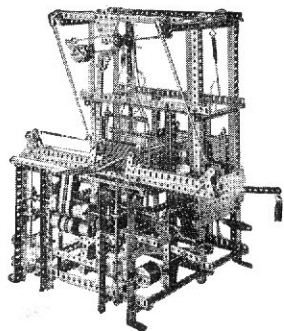
Travelling Gantry Crane



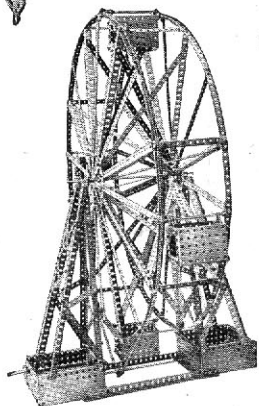
Searchlight



Hammer-Head Crane

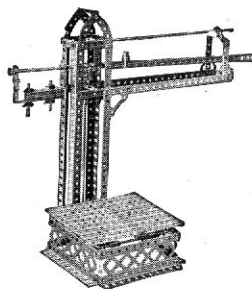


Loom

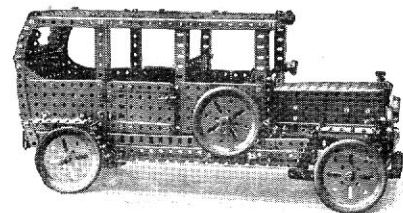


Big Wheel

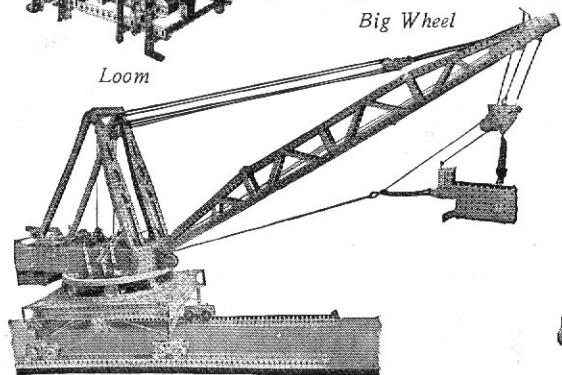
Here is a selection of splendid Meccano models that any boy may build without study. Full instructions for building most of those illustrated (as well as many other fine models) are contained in the Complete Meccano Manual of Instructions.



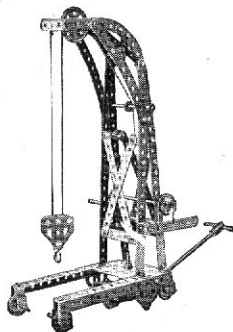
Platform Scales



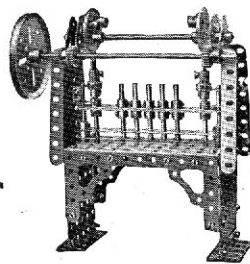
Meccano Limousine



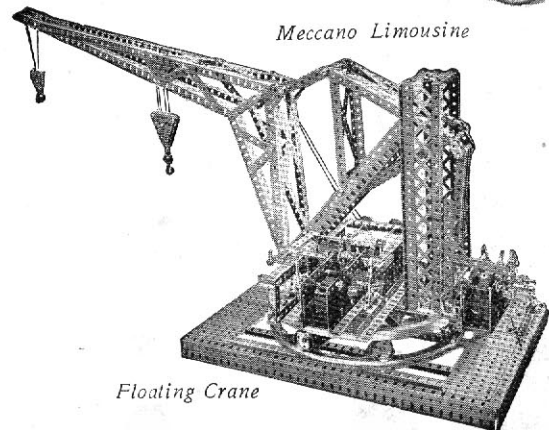
Dragline



Platform Crane



Punching Press



Floating Crane

MECCANO ACCESSORY OUTFITS AND MOTORS



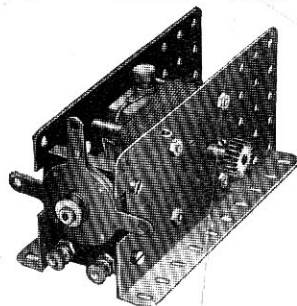
Meccano Accessory Outfits

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 parts that cover the entire system.

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.



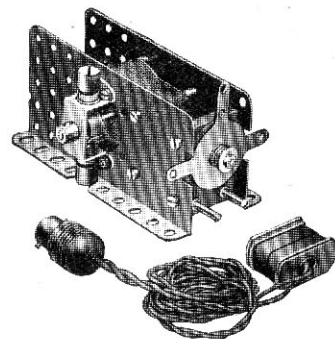
No. 1 Electric Motor (4-Volt)

The 4-volt Motor is specially designed to build into Meccano models. It may be run by a 4-volt Accumulator, or, by employing a suitable transformer, direct from the main. It is fitted with reversing motion, provided with stopping and starting controls, and the gearing is interchangeable.

No. 2 Electric Motor (100-250-Volt AC or DC)

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 60-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.



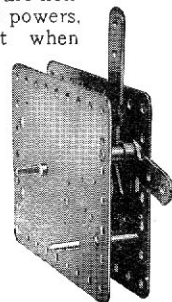
4-Volt Accumulators

These new and excellent types of Accumulators have been adapted to drive the Electric Motor No. 1. They have been subjected to the severest tests and have proved themselves to be the most suitable accumulators for use with any type of electric motor. They are non-spillable, have remarkable recuperative powers, and will continue to supply current when nominally exhausted.



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 PRICES OF THE ABOVE SEE PRICE LIST AT END OF MANUAL.

HORNBY 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!

SERIES M, No. 1 PASSENGER SET

This Set contains Loco, Tender, two Pullman Coaches and Set of Rails. One of the latter is a brake rail by means of which the train may be braked from the track. Richly coloured and well finished; fitted with brake mechanism; non-reversing. Gauge 0.

Series M, No. 1 Passenger Set complete, packed in strong cardboard box Price 12/6

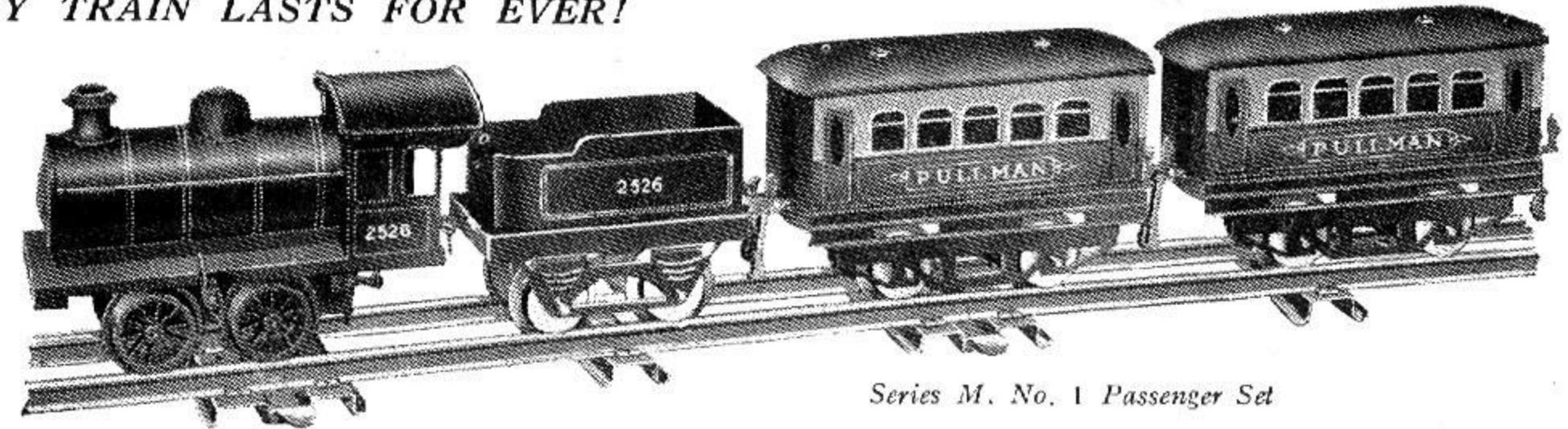
SERIES M, No. 2 PASSENGER SET

Similar in every way to the above excepting that it has three Pullman Coaches instead of two, and additional rails.

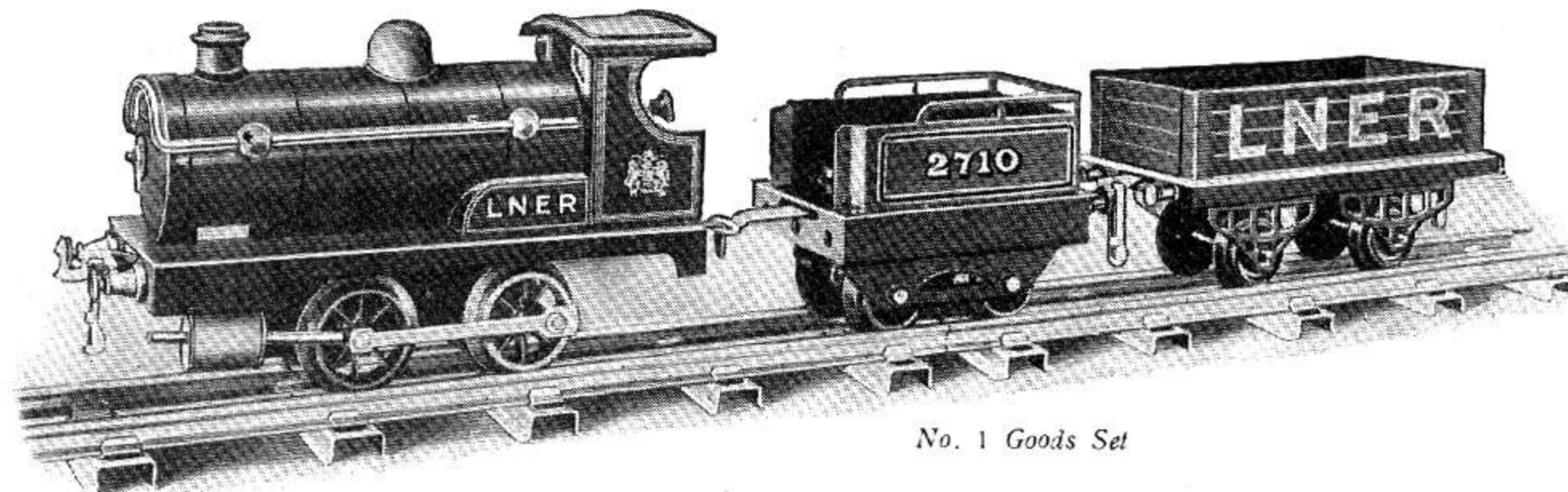
Series M, No. 2 Passenger Set complete, packed in strong cardboard box Price 15/6

M, No. 1 or 2 Loco ... Price 5/- M, No. 1 or 2 Tender ... " 1/3

M, No. 1 or 2 Pullman Coach ... Price 2/-



Series M, No. 1 Passenger Set



No. 1 Goods Set

No. 1 GOODS SET

This Set contains Loco, Tender and Wagon with Set of Rails. The rails form a circle 2 ft. in diameter or an oval 2 ft. 10 ins. in width, and they include one brake rail by means of which the train may be stopped from the track. The Loco is fitted with reversing gear and brake mechanism. Gauge 0.

Hornby No. 1 Goods Set complete, well boxed Price 35/-

No. 1 Hornby Loco Price 22/6 Hornby Wagon " 3/9

Tender Price 3/6

RIVIERA "BLUE" TRAIN SETS

These splendid Train Sets are models of the famous express that runs regularly between Calais and the Mediterranean Coast. The Loco is coloured brown with yellow lining and the Coaches are coloured blue with white roofs. Two types are available, one with Clockwork Loco and the other with Electric Loco. Particulars are as follows:—

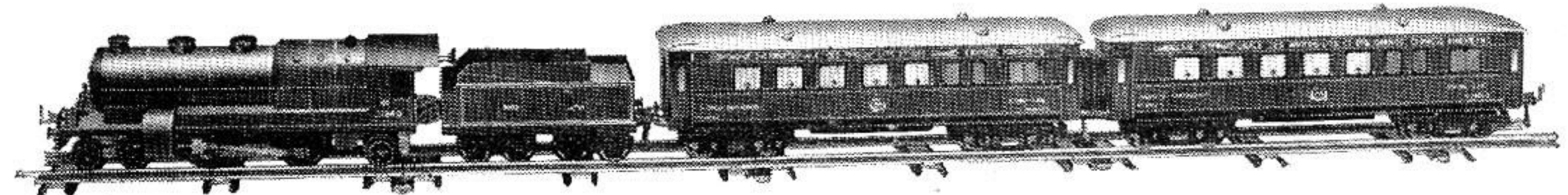
RIVIERA "BLUE" TRAIN SET No. 1

Contains Electric Loco, Tender, two Coaches, Resistance Controller and Electrical Rails to form a circle 4-ft. in diameter. The Loco is fitted with an electric motor which is operated from a 4-volt accumulator or from a suitable transformer connected to the main (alternating current only). Gauge 0.

Riviera "Blue" Train Set No. 1, complete, well boxed ... Price 127/6

"Blue" Train Loco No. 1 ... Price 55/- "Blue" Train Tender No. 1 ... Price 6/6

"Blue" Train Coach No. 1 ... Price 24/- Resistance Controller " 5/6



Riviera "Blue" Train Set No. 2

RIVIERA "BLUE" TRAIN SET No. 2

Contains a powerful Clockwork Loco, Tender, two Coaches and Set of Rails including a Hornby Control Rail. The Loco is fitted for Hornby Control and has reversing gear and brake mechanism. Gauge 0.

Riviera "Blue" Train Set No. 2, complete, well boxed Price 105/-

"Blue" Train Loco, No. 2 ... Price 42/6 "Blue" Train Tender No. 2 " 6/6

"Blue" Train Coach No. 2 ... Price 24/-

FOR COMPLETE LIST OF HORNBY TRAINS, TRAIN ACCESSORIES AND RAILS, POINTS AND CROSSINGS.

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	Meccano Electric Motor (4-Volt)	"	"	"	"	"	27/6
" 2	"	"	"	"	"	(100-120 or 200-250-Volts)	60/-
	Lamp Board (with lamp-holder and switch)	"	"	"	"	"	7/6
	Meccano Electrical Outfit X2	"	"	"	"	"	70/-
	"	"	Accumulator (4-Volt, 8 Amps.)	"	"	"	30/-
	"	"	(" 20 ")	"	"	"	42/-

* 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.

Meccano is sold in nine different Outfits, numbered 00 to 7. All parts are of the same high quality and finish, the larger Outfits containing a greater quantity and variety of parts.

Each Outfit may be converted into the one next higher by the purchase of an Accessory Outfit. Thus a No. 2 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. In this way, no matter with which Outfit you commence, you may by degrees build up your Outfit to a No. 7.

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	
7,732/25			718,731	
7,733/25			718,404	

Meccano is more than a Toy

IT 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