

# MECCANO



(TRADE MARK 296321)

## INSTRUCTIONS FOR OUTFIT No. 0.

Price 4d.

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No. 22.0

ENGLISH EDITION.



## A TALK WITH NEW MECCANO BOYS



THE Meccano No. 0 Outfit is the first step in the Meccano system. With it 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 either 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 boys 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, 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, and he will send you a copy FREE. It is sent regularly to subscribers at the rate of 6d. for six issues, or it may be purchased from any Meccano dealer, price 1d. per copy.

## 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.

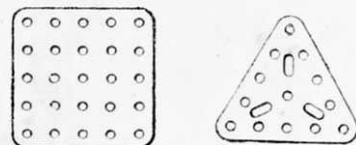
	(62)	(63)	
62. Cranks	...	...	each 0 3
62A. Threaded Cranks	...	...	" 0 4
63. Couplings	...	...	" 2 1

## Particulars and Prices of Meccano Parts (continued)

No.	(63A)	(63B)	s. d.
63A.	Octagonal Couplings	each	0 8
63B.	Strip Couplings	each	0 8



No.	(63c)	(64)	s. d.
63c.	Threaded Couplings	each	0 6
64.	Threaded Bosses	each	0 2
65.	Centre Forks	each	0 2
66.	Weights, 50 grammes	each	1 0
67.	Weights, 25 grammes	each	1 0
68.	Wood screws, 1 1/2"	doz.	0 3
69.	Set Screws	each	0 4
69A.	Grub Screws	each	0 4
69B.	" " 3/2"	doz.	0 6



No.	(70)	(76)	s. d.
70.	Flat Plates, 5 1/2" x 2 1/2"	each	0 3
72.	" " 2 1/2" x 2 1/2"	each	0 2
76.	Triangular Plates, 2 1/2"	each	0 2
77.	" " 1"	each	0 1



No.	(78)	(79)	(79A)	(80)	(80A)	(80B)	(81)	s. d.
78.	Screwed Rods, 1 1/4"	each	0 6					
79.	" " 8"	each	0 5					
79A.	" " 6"	each	0 4					
80.	" " 5"	each	0 3					
80A.	" " 3 1/2"	each	0 3					
80B.	" " 4 1/2"	each	0 3					
81.	" " 2"	each	0 2					



No.	(89)	(90)	s. d.
89.	Curved Strips, 5 1/2"	each	0 2
90.	" " 2 1/2"	each	0 1



No.	(94)	s. d.
94.	Sprocket Chain	per yard 0 6

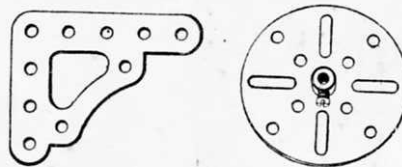
No.	(95)	(95A)	(95B)	(96)	(96A)	s. d.
95.	Sprocket Wheels, 2" diam.	each	0 5			
95A.	" " 1 1/2"	each	0 4			
95B.	" " 3"	each	0 6			
96.	" " 1"	each	0 3			
96A.	" " 1/2"	each	0 3			



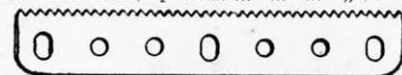
97.	Braced Girders, 3 $\frac{1}{4}$ " long	...	...	$\frac{1}{2}$ doz.	0 9
98.	" " 2 $\frac{1}{2}$ " "	...	...	"	0 6
99.	" " 1 $\frac{1}{2}$ " "	...	...	"	1 9
99A.	" " 9 $\frac{1}{2}$ " "	...	...	"	1 6
100.	" " 5 $\frac{1}{2}$ " "	...	...	"	1 0
101.	Healds, for looms	...	...	doz.	0 9
102.	Single Bent Strips	...	...	each	0 1
103.	Flat Girders, 5 $\frac{1}{4}$ " long	...	...	$\frac{1}{2}$ doz.	1 0
103A.	" " 9 $\frac{1}{2}$ " "	...	...	"	1 6
103B.	" " 12 $\frac{1}{2}$ " "	...	...	"	2 0
103C.	" " 4 $\frac{1}{2}$ " "	...	...	"	0 9
103D.	" " 3 $\frac{1}{2}$ " "	...	...	"	0 7
103E.	" " 3" "	...	...	"	0 6
103F.	" " 2 $\frac{1}{2}$ " "	...	...	"	0 5
103G.	" " 2" "	...	...	"	0 4
103H.	" " 1 $\frac{1}{2}$ " "	...	...	"	0 3
104.	Shuttles, for looms	...	...	each	4 0
105.	Reed Hooks, for looms	...	...	"	0 4
	Rollers for Looms.				
106.	Lead Rollers	...	...	"	1 3
106A.	Sand	...	...	"	1 1
107.	Tables for Designing Machines	...	...	"	1 0

Rollers for Looms.

No.	(106)	(106A)	(107)	s. d.
106.	Cloth Rollers	each	1 3	
106A.	Sand	each	1 6	
107.	Tables for Designing Machines	each	1 0	



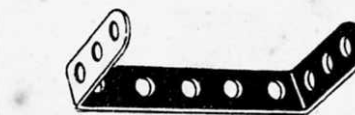
No.	(108)	(109)	s. d.
108.	Architraves	each	0 2
109.	Face Plates, 2 1/2" diam.	each	0 4



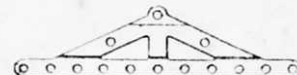
No.	(110)	s. d.
110.	Rack Strips, 3 1/4"	each 0 2



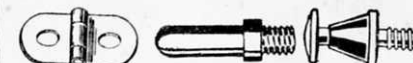
No.	(111)	(111A)	(111B)	s. d.
111.	Bolts, 3/8"	each	0 1	
111A.	" " 1/2"	2 for	0 1	
111B.	" " 3/2"	doz.	0 4	



No.	(112)	(112A)	s. d.
112.	Double Angle Strips, 2 1/2" x 1 1/2"	doz.	0 9
112A.	" " 3" x 1 1/2"	doz.	1 0



No.	(113)	s. d.
113.	Girder Frames	each 0 2



No.	(114)	(115)	(120)	s. d.
114.	Hinges	per pair	0 4	
115.	Threaded Pins	each	0 2	
120.	Buffers	each	0 2	



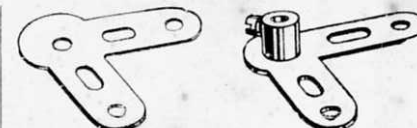
No.	(121)	(122)	(123)	s. d.
121.	Train Couplings	each	0 4	
122.	Miniature Loaded Sacks	each	0 2	
123.	Cone Pulleys	each	1 3	



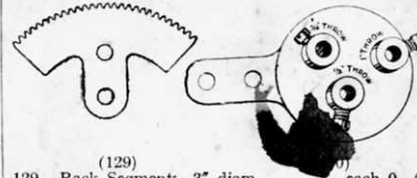
No.	(124)	(125)	s. d.
124.	Reversed Angle Brackets, 1"	doz.	0 10
125.	" " 1/2"	doz.	0 6



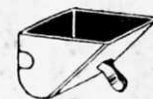
No.	(126)	(126A)	s. d.
126.	Trunnions	each	0 3
126A.	Flat Trunnions	each	0 2



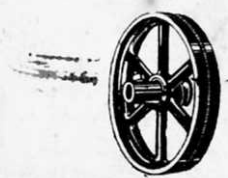
No.	(127)	(128)	s. d.
127.	Simple Bell Cranks	each	0 3
128.	Boss Bell Cranks	each	0 4



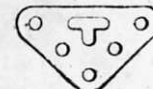
No.	(129)	(130)	s. d.
129.	Rack Segments, 3" diam.	each	0 6
130.	Triple Throw Eccentrics	each	1 3



No.	(131)	s. d.
131.	Dredger Buckets	each 0 2



No.	(132)	s. d.
132.	Flywheels, 2 1/2" diam.	each 2 3



No.	(133)	s. d.
133.	Corner Brackets	each 0 3

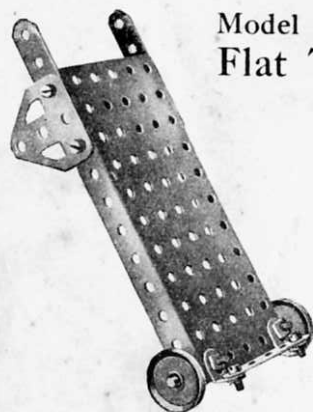


No.	(134)	(135)	(136)	(137)	s. d.
134.	Crank Shafts, 1" stroke	each	0 3		
135.	Theodolite Protractors	each	0 3		
136.	Handrail Supports	each	0 3		
137.	Wheel Flanges	each	0 4		

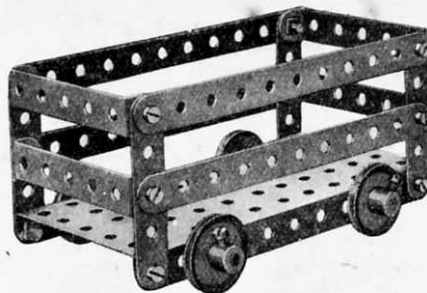
As new parts are frequently added to the Meccano system the foregoing list is not necessarily complete. The latest illustrated list should be obtained from your dealer, or from Meccano, Ltd., Liverpool.



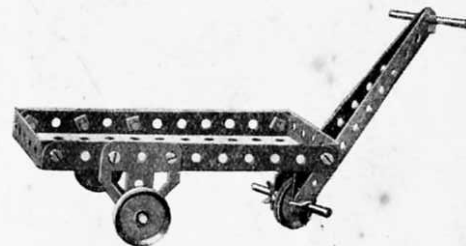
## Trucks and Luggage Carts



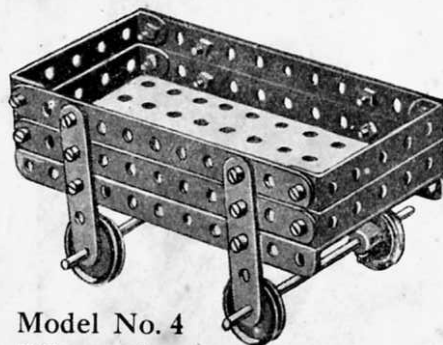
Model No. 1  
Flat Truck



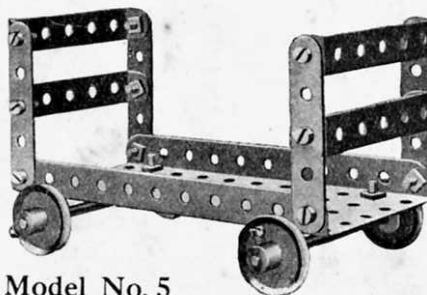
Model No. 2  
Truck with  
Sides



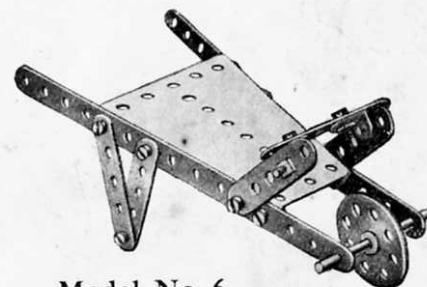
Model No. 3  
Luggage Cart



Model No. 4  
Truck

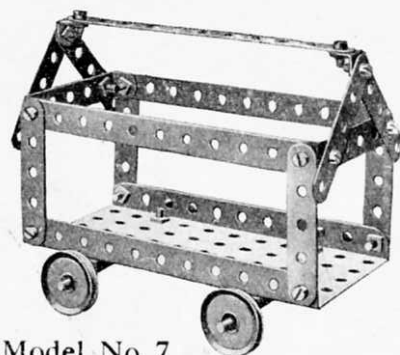


Model No. 5  
Luggage  
Truck

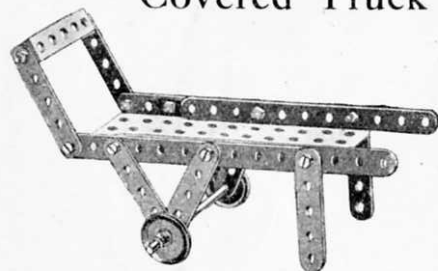


Model No. 6  
Barrow

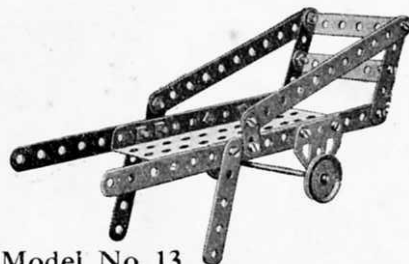
# Trucks and Luggage Carts *(continued)*



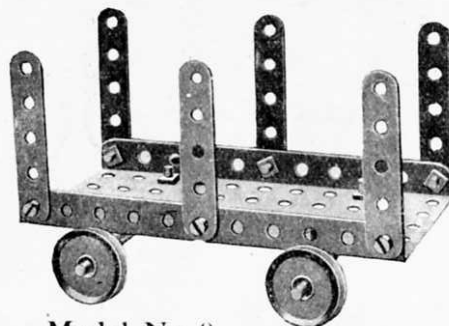
Model No. 7  
Covered Truck



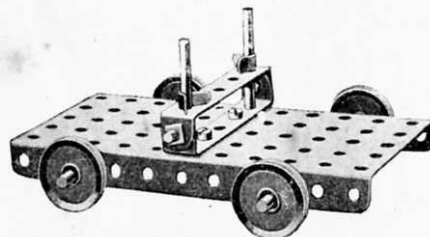
Model No. 10  
Luggage Barrow



Model No. 13  
Coster's Barrow



Model No. 8  
Timber Truck

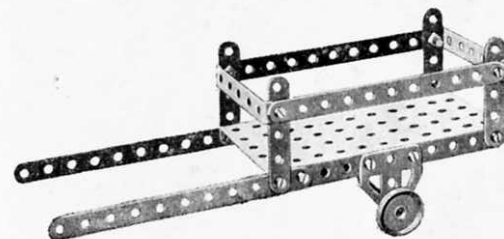


Model No. 11  
Timber Truck

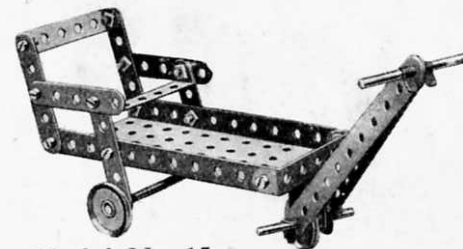


Model No. 14 Timber Drag

Model No. 9  
Flat Truck

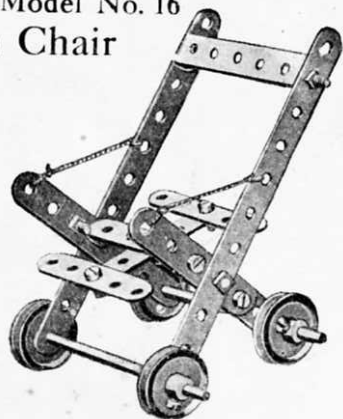


Model No. 12  
Luggage Cart

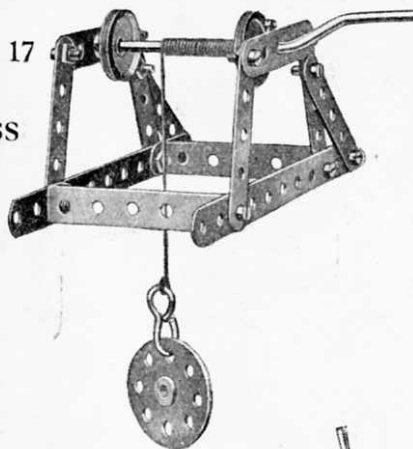


Model No. 15  
Bath Chair

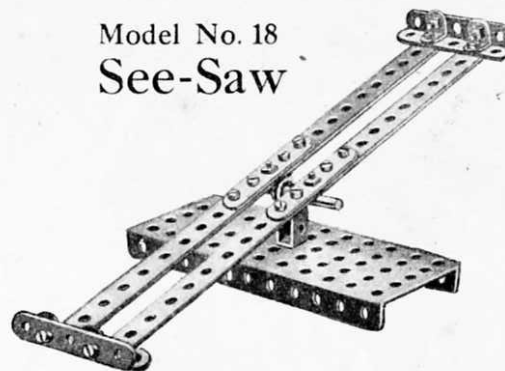
Model No. 16  
Go Chair



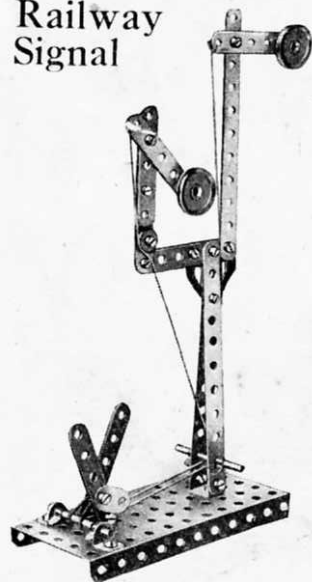
Model No. 17  
Well  
Windlass



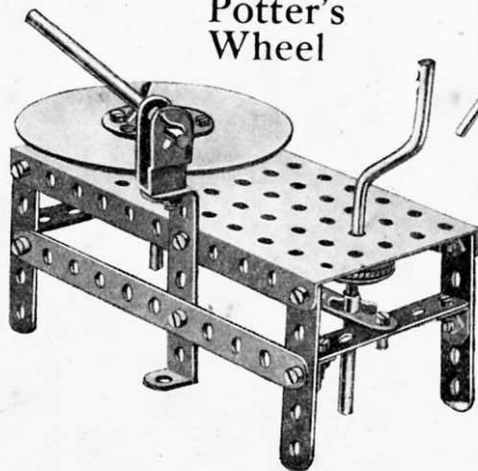
Model No. 18  
See-Saw



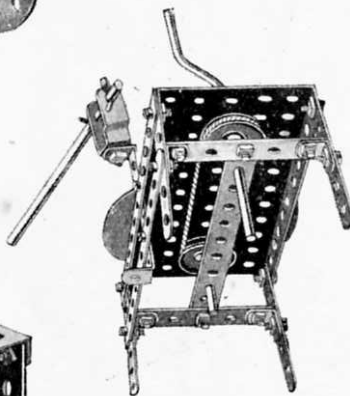
Model No. 19  
Railway  
Signal



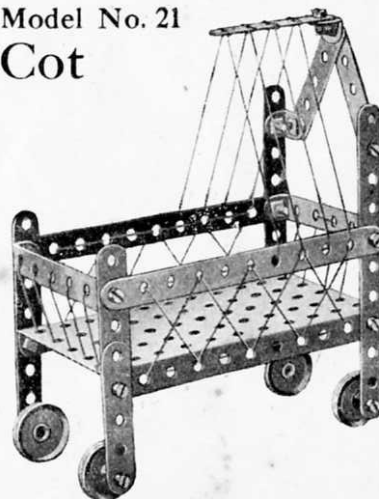
Model No. 20  
Potter's  
Wheel



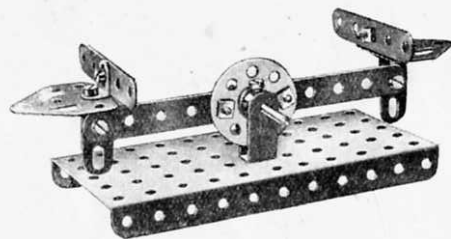
Potter's  
Wheel  
(underneath  
view)



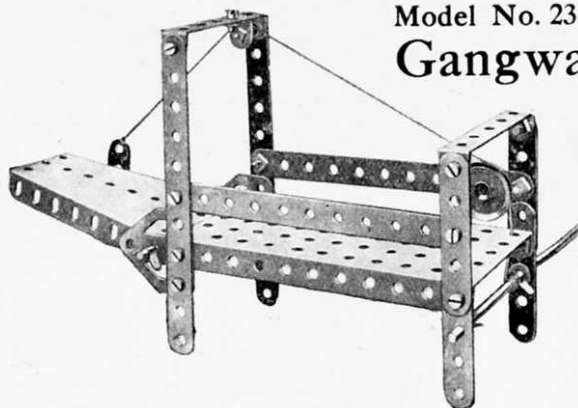
Model No. 21  
Cot



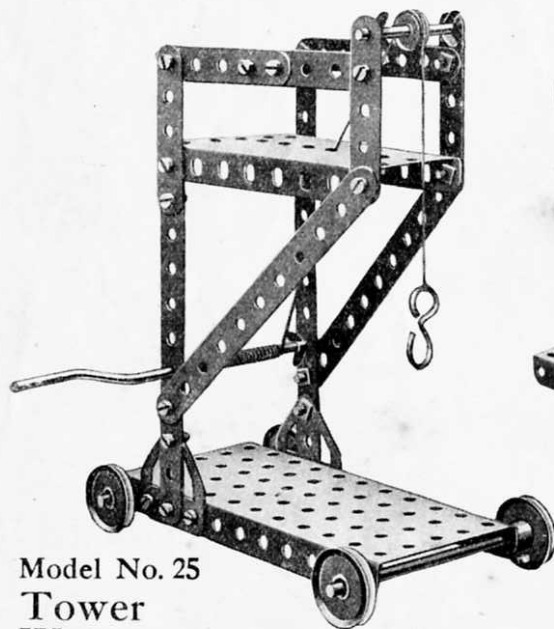
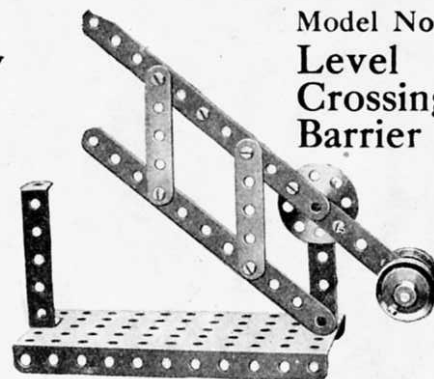
Model No. 22 Scales



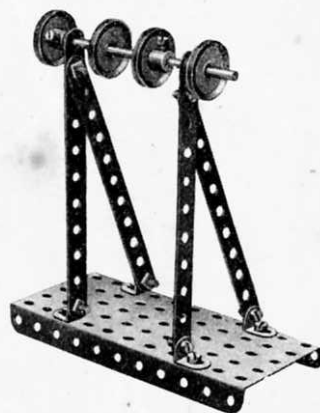
Model No. 23  
Gangway



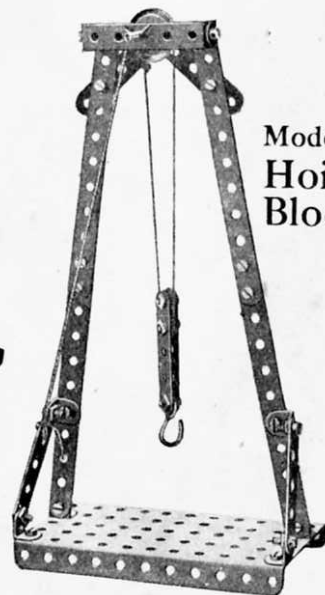
Model No. 24  
Level  
Crossing  
Barrier



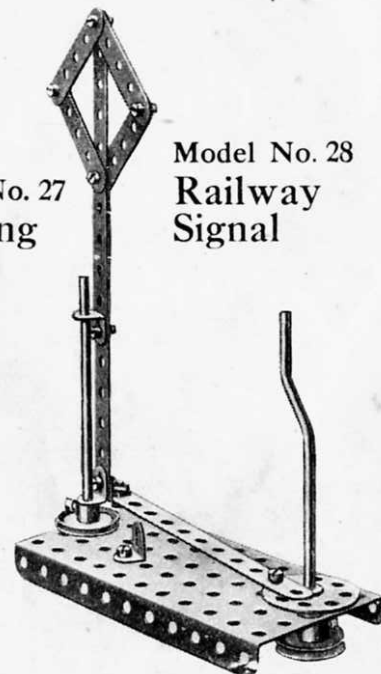
Model No. 25  
Tower  
Wagon



Model No. 26  
Pulley Shaft

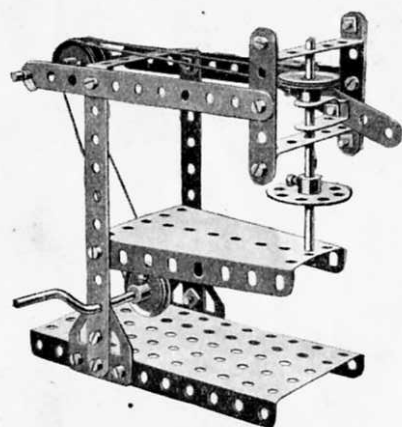


Model No. 27  
Hoisting  
Block

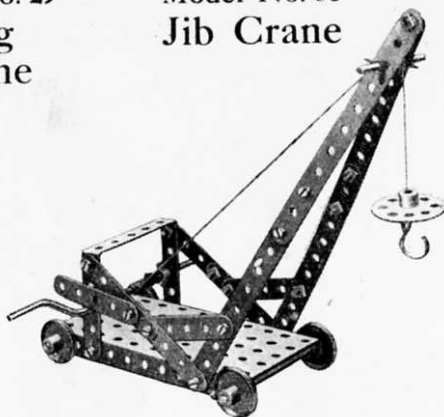


Model No. 28  
Railway  
Signal

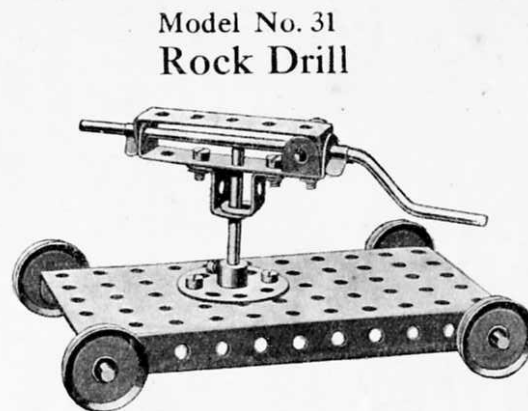




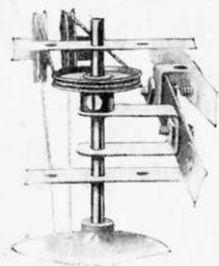
Model No. 29  
Drilling  
Machine



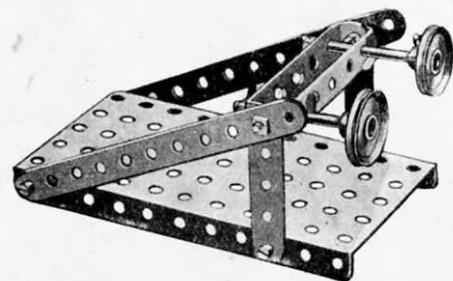
Model No. 30  
Jib Crane



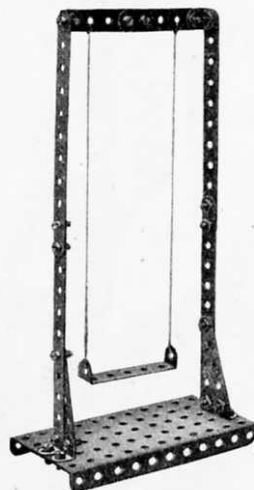
Model No. 31  
Rock Drill



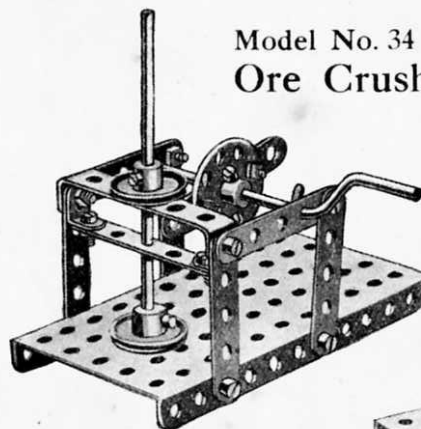
*Detail of  
Drilling  
Machine.*



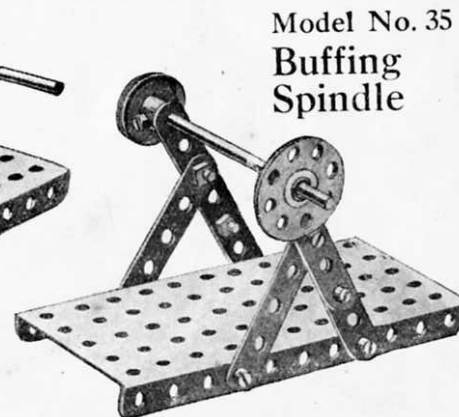
Model No. 32  
Buffers



Model No. 33  
Swing



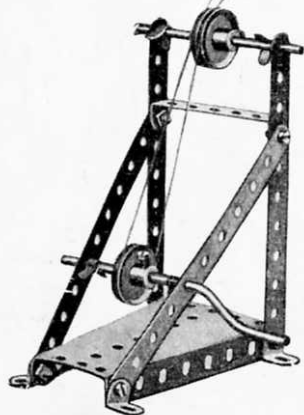
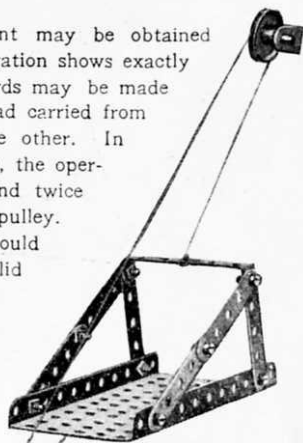
Model No. 34  
Ore Crusher



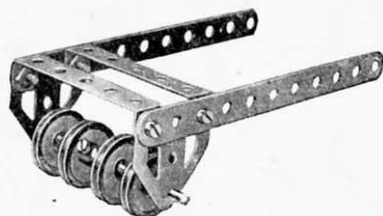
Model No. 35  
Buffing  
Spindle

### Model No. 36 Telfer Span

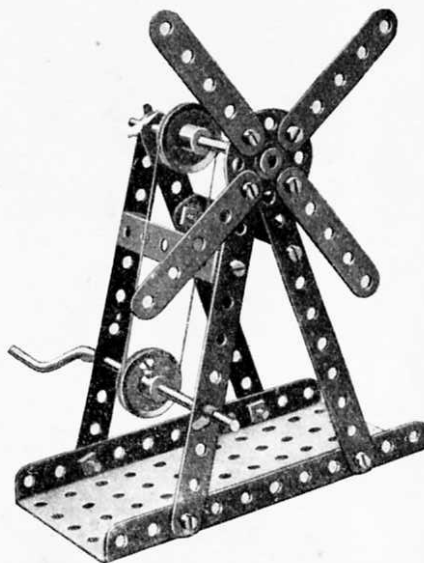
Many hours of enjoyment may be obtained from this model. The illustration shows exactly how it is worked. The cords may be made to any length, and the load carried from one side of the room to the other. In order to give a better grip, the operating cord should be wound twice round the crank handle pulley. 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.



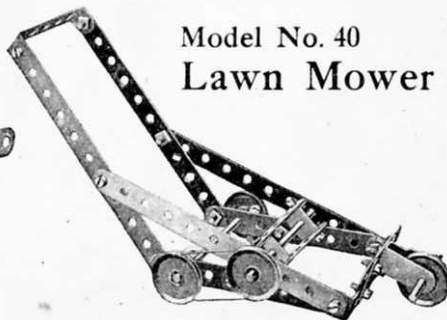
Model No. 39  
Furrow Roller



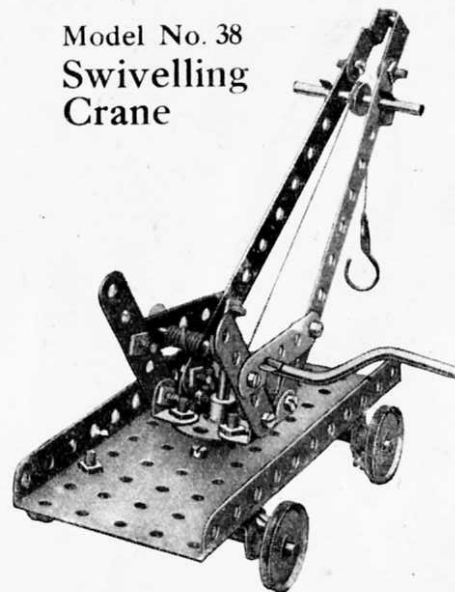
### Model No. 37 Windmill



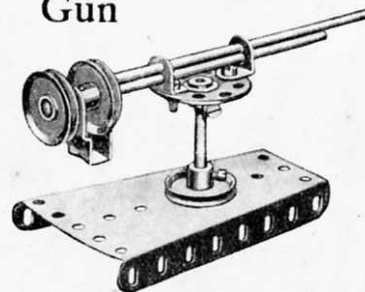
Model No. 40  
Lawn Mower



### Model No. 38 Swivelling Crane

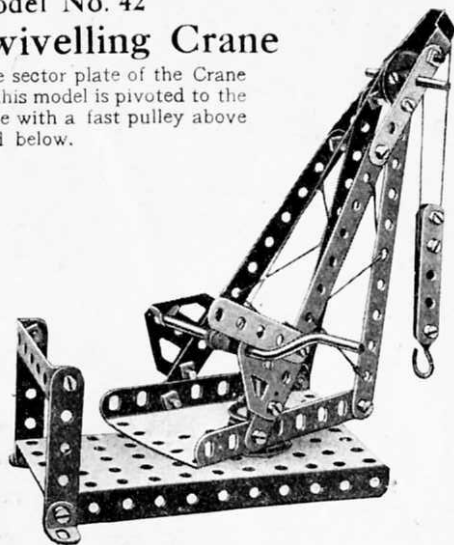


Model No. 41  
Quick-Firing  
Gun

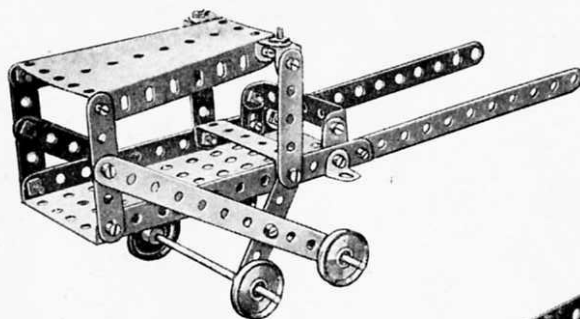


### Model No. 42 Swivelling Crane

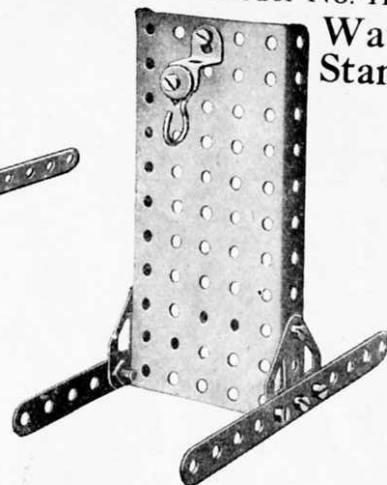
The sector plate of the Crane in this model is pivoted to the base with a fast pulley above and below.



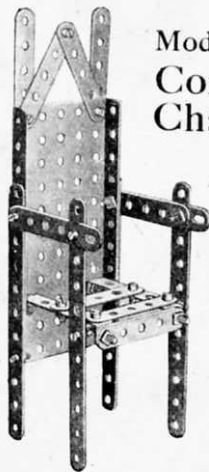
### Model No. 43 Ticca Gharry



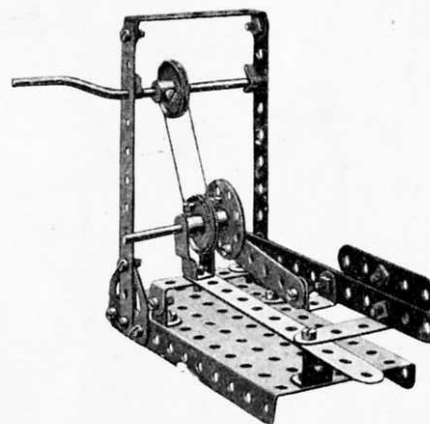
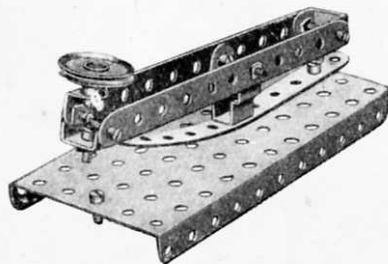
### Model No. 44 Watch Stand



### Model No. 45 Coronation Chair

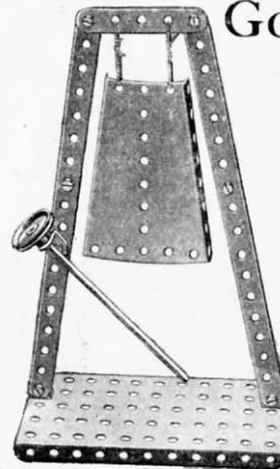


### Model No. 46 Telegraph Key

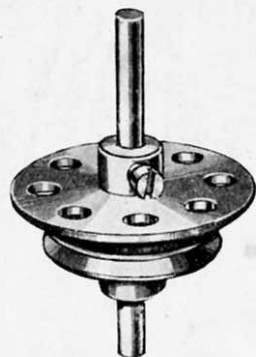


### Model No. 47 Sawing Machine

### Model No. 48 Gong



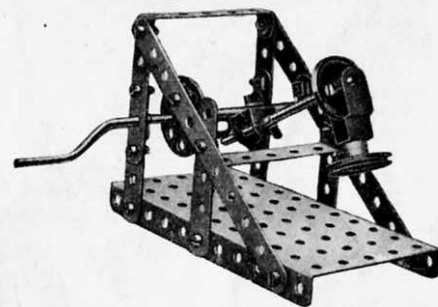
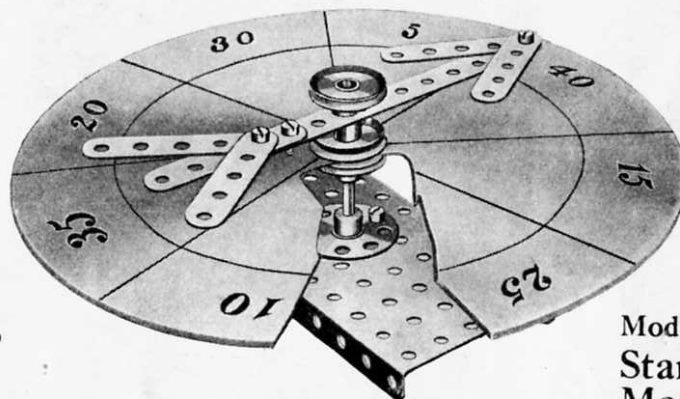




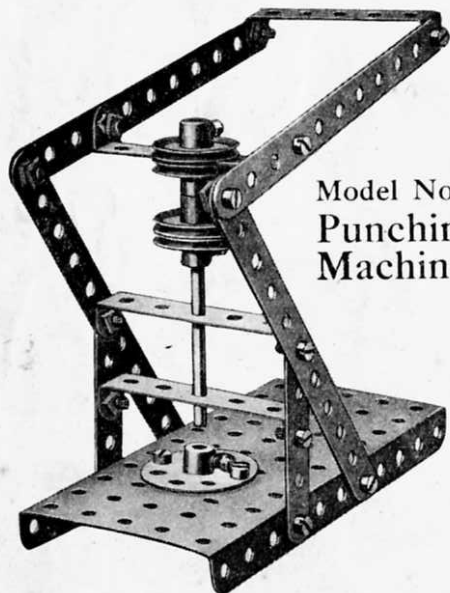
Model No. 49  
Spinning Top

### Model No. 50 Roulette Wheel

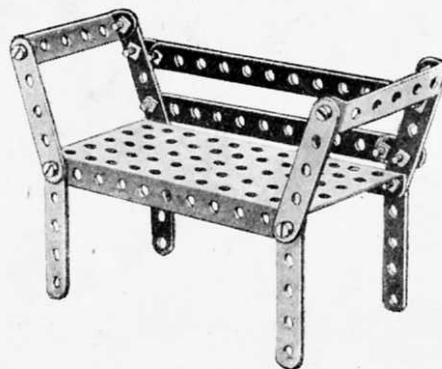
Cut out a circular piece of cardboard and mark as shown to form scoring board. This is clamped between two 1" pulley wheels. The pointer revolves freely on the upright spindle and is held in position by another 1" pulley wheel.



Model No. 51  
Mechanical  
Hammer

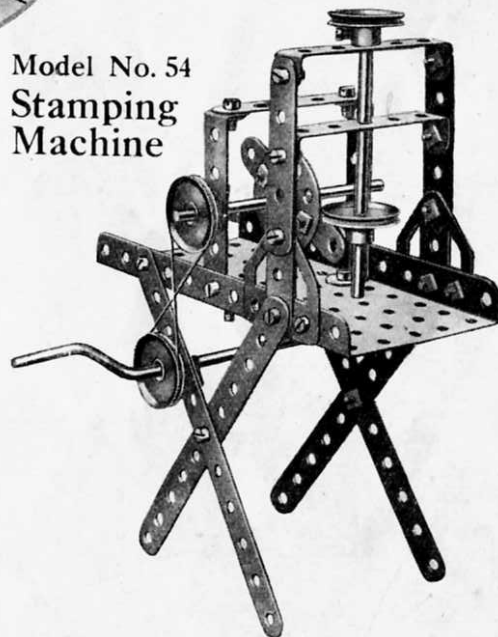


Model No. 52  
Punching  
Machine



Model No. 53 Settee

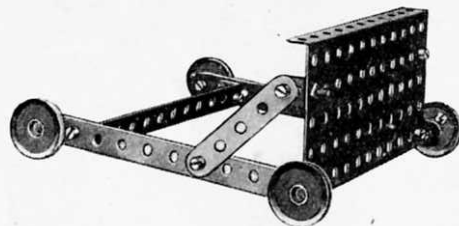
Model No. 54  
Stamping  
Machine



Model No. 55  
**Anchor**



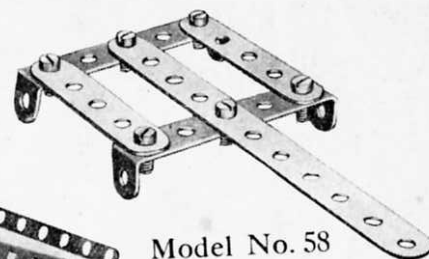
Model No. 56  
**Devil Wall**



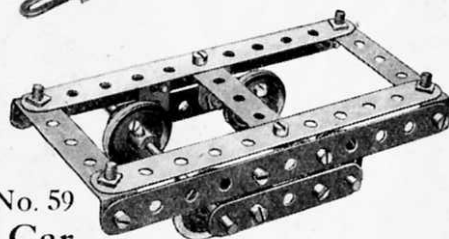
Model No. 57  
**Invalid Chair**



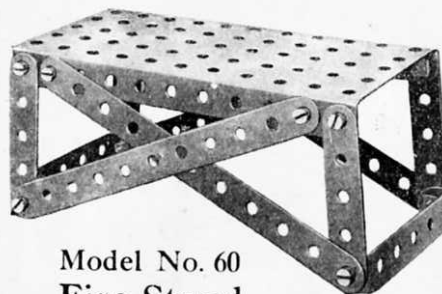
Model No. 58  
**Grill**



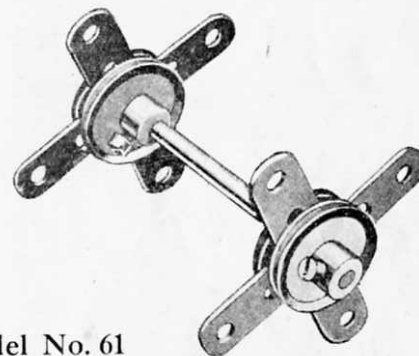
Model No. 59  
**Bogie Car**



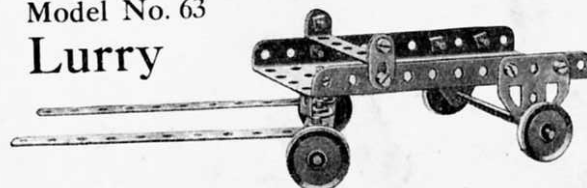
Model No. 60  
**Fire Stand**



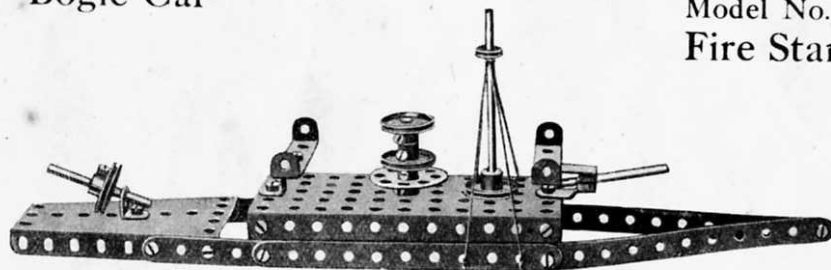
Model No. 61  
**Cutlery Rest**



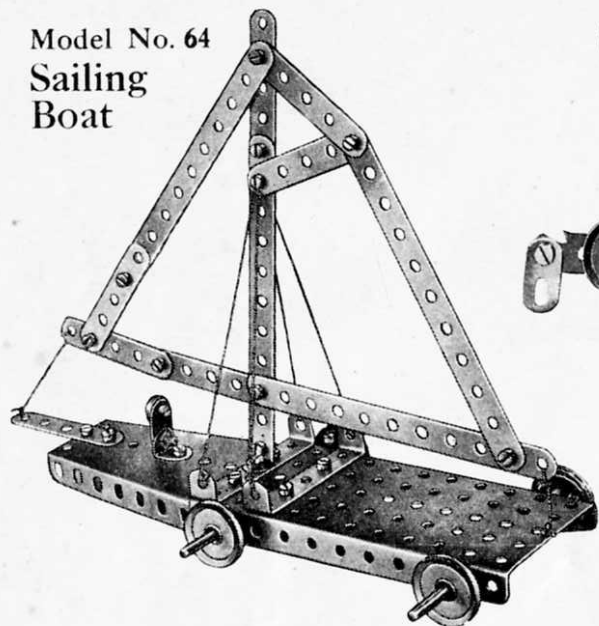
Model No. 63  
**Lurry**



Model No. 62—**Battleship**



Model No. 64  
Sailing  
Boat



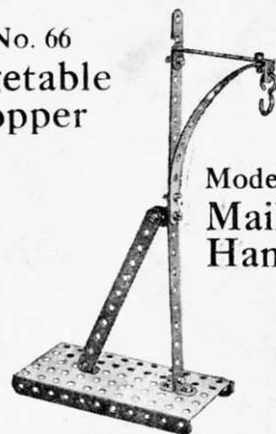
Model No. 65  
Roman  
Balance



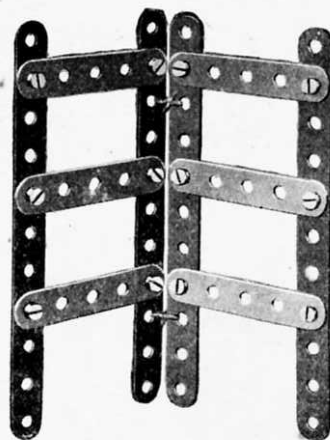
Model No. 66  
Vegetable  
Chopper



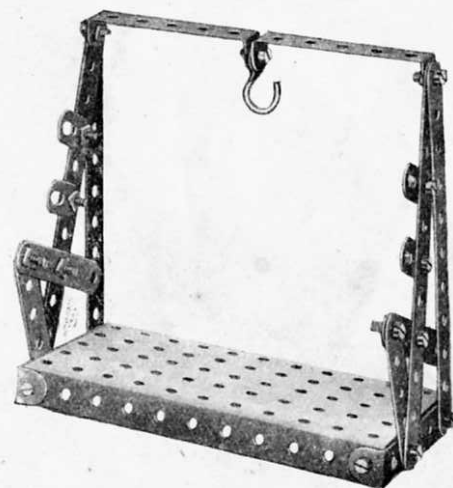
Model No. 67  
Mail-Bag  
Hanger



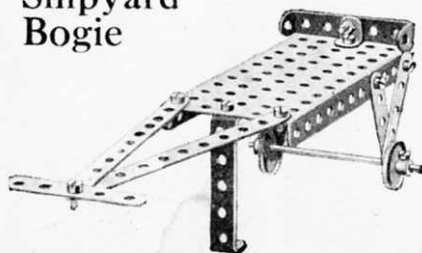
Model No. 69  
Clothes Horse



Model No. 70  
Pen Rack



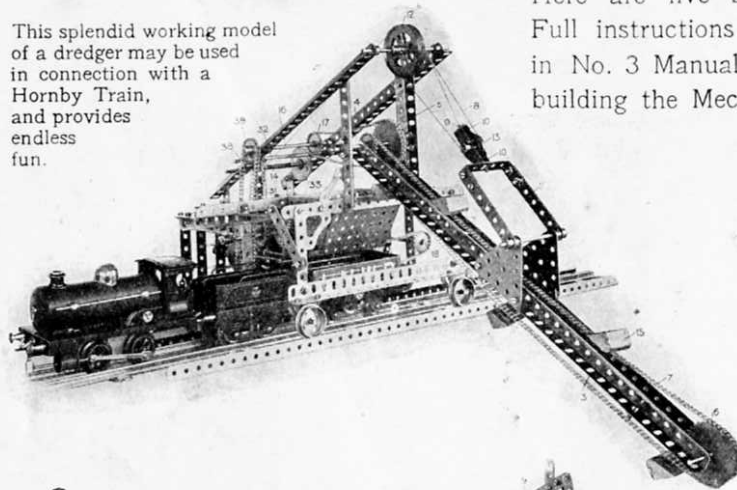
Model No. 68  
Shipyard  
Bogie



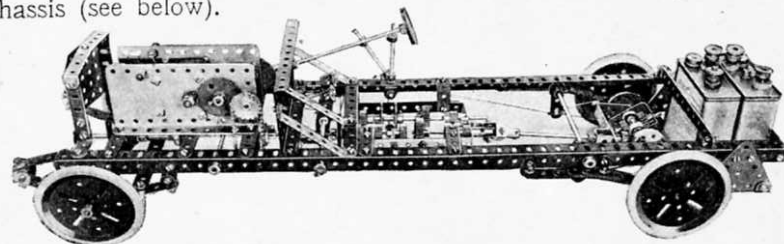


## A FEW CHOICE MECCANO MODELS

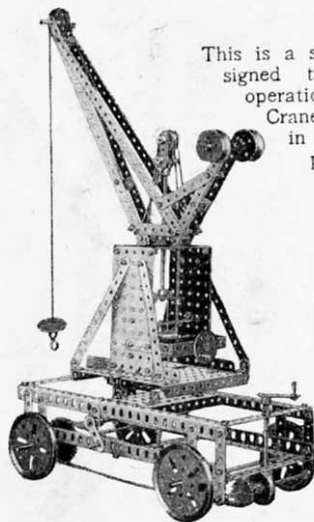
This splendid working model of a dredger may be used in connection with a Hornby Train, and provides endless fun.



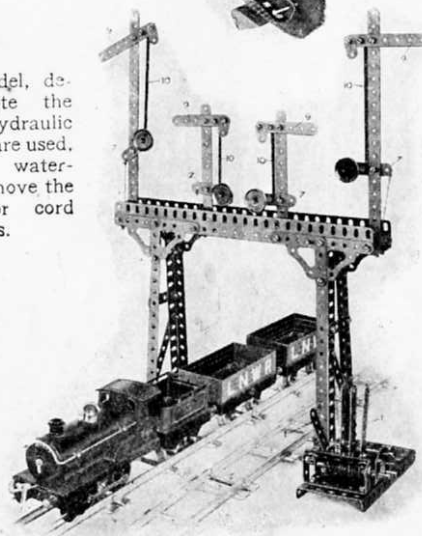
Here are five splendid Meccano models that any boy may build without study. Full instructions for building them (as well as many other fine models) are contained in No. 3 Manual—price 1/4½ (post free). There is a special leaflet of instructions for building the Meccano Chassis (see below).



The Meccano Motor Chassis is a perfect model, with gear box and differential. Full instructions how to build it are contained in a beautifully illustrated leaflet, price 4d., post free.

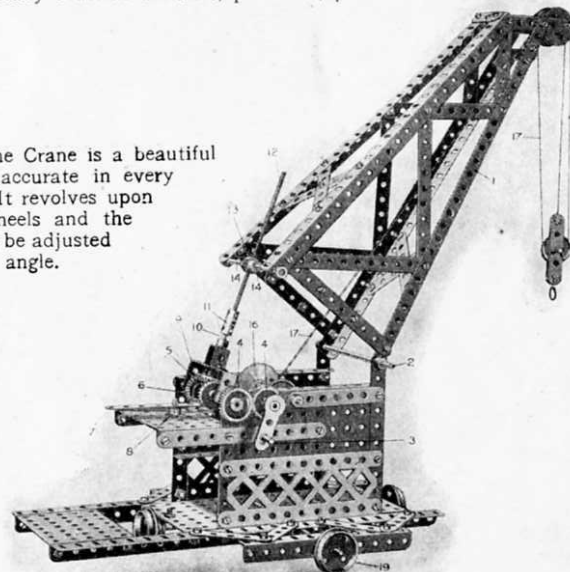


This is a special model, designed to illustrate the operation of a Hydraulic Crane. Screws are used, in place of water-power, to move the chain or cord pulleys.



Model 438. Signal Gantry.

This fine Crane is a beautiful model, accurate in every detail. It revolves upon four wheels and the jib may be adjusted to any angle.



Model 440. Revolving Crane.

## MECCANO INVENTOR'S ACCESSORY OUTFITS

New and valuable parts are added to the Meccano system from time to time, and for the convenience of Meccano boys we have made up selected assortments of these new parts in useful quantities. These may be purchased in special boxes, known as Inventor's Accessory Outfits. With them many models in the Manuals of Instruction may be greatly improved and a large number of further models made.



### Accessory Outfit "A"

This Outfit makes a splendid addition to any Meccano Outfit and with it a considerable amount of extra fun may be obtained. It contains large 3" Pulley Wheels, Gear Wheels, Washers, Sprocket Wheels, Sprocket Chain, and Meccano Braced Girders. For price see page 18.

### Electrical Outfits

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 prices see page 18.



### Accessory Outfit "B"

Every boy who is interested in engineering subjects will find this Outfit of the greatest service to him, not only providing him with new movements but also considerably extending the scope of his experiments.

The Outfit contains Bevel Gears, Gear Wheels, Flat Plates, Octagonal and Strip Couplings, Triangular Plates, Screwed Rods, Curved and Rack Strips, Hinges, and Buffers and Couplings (for constructing Trains). For price see page 18.

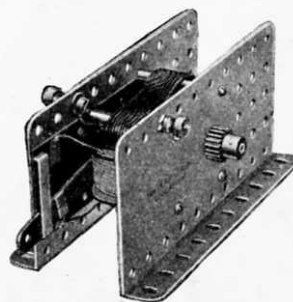
### Clockwork Motor

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 18.



### Electric Motor

This Motor serves the same purpose as the Clockwork Motor and may be run from a 4-volt accumulator or—by employing a suitable transformer—direct from the main. It is specially made to be built into Meccano models and is the most reliable and powerful toy electric motor made. When suitably geared it will lift over 30-lbs. dead weight. It is fitted with reversing motion, starting and stopping levers. For price see page 18.

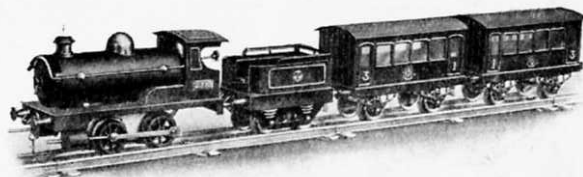
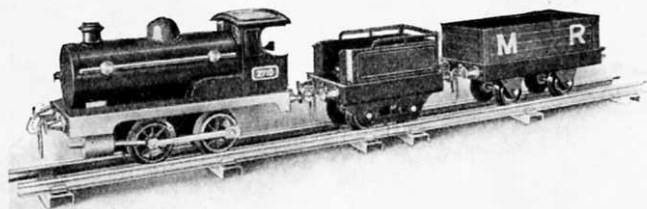


# HORNBY CLOCK WORK TRAINS

THE HORNBY TRAINS are manufactured by Meccano Ltd., and they are built on the Meccano principle. All the parts are standardised and Engines, Tenders, Coaches and Wagons may be taken entirely to pieces and rebuilt. If one of the parts is lost or damaged you may fit a new one yourself. *A Hornby Train lasts for ever!* The Hornby Train is a beautiful piece of workmanship, with perfect clockwork mechanism, ensuring smooth running. Each Train is guaranteed by Meccano Ltd.

No. 1 PASSENGER SET.—Gauge 0. Each Set contains Loco, Tender, and two Coaches with rails for a 2 ft. diameter circle and two straights. The Loco is fitted with reversing gear, brakes, and governor. In four colours, to represent L.&N.W., G.N., Midland, and Caledonian Railway systems.

Complete in brown leather-finished gold-embossed box, 35/-.



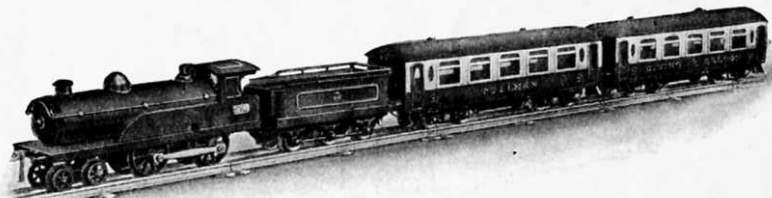
No. 1. GOODS SET.—Gauge 0. Similar in every way to No. 1 Passenger Set, except that this Set contains Loco, Tender and one Wagon.

Complete in strong attractive gold-embossed box, 25/6.

Prices of Locos, etc., separately: LOCOS, 16/-; TENDERS, 3/6; PASSENGER COACHES, 6/6; WAGONS, 3/9. (RAILS, CROSSING, AND POINTS, see below.)

No. 2 PULLMAN SET.—This Set includes Loco and Tender of a larger type, measuring 17" in length. A superior mechanism has been adopted, making this the most attractive and satisfactory clockwork train yet produced. The Coaches are beautiful, both in colour and finish. Each Set includes Loco, Tender, one Pullman and one Dining Coach, as illustrated, with set of Rails making a 4 ft. diameter circle. Gauge 0. In four colours to represent L.&N.W., Midland, G.N., and Caledonian Railway systems. The Loco is fitted with reversing gear, brakes and governor.

Complete Set in gold-embossed box, 70/-.



No. 2 GOODS SET.—Similar to Passenger Set No. 2 but two Wagons in place of Coaches. Complete Set in gold-embossed box, 45/-.

Prices of Locos, etc., separately: LOCOS, 30/-; TENDERS, 4/-; PASSENGER COACHES, 16/-; WAGONS, 3/9.

RAILS FOR No. 1 AND No. 2 SETS.—Gauge 0, curved or straight, per dozen, 5/-. POINTS.—Right or left hand, for 2' or 4' diameter circles, each 3/9.

CROSSINGS.—Acute or right angle, 2/6 each.

SEND FOR SPECIAL LIST OF RAILS, POINTS AND CROSSINGS.



## MECCANO PRICE LIST

### MECCANO OUTFITS

No.					s.	d.
No. 0	Meccano	Outfit	...	...	5	0
" 1	"	"	...	...	8	6
" 2	"	"	...	...	15	0
" 3	"	"	...	...	22	6
" 4	"	"	...	...	40	0
" 5*	"	"	(Carton)	...	55	0
" 5*	"	Presentation	Outfit			
		(Wood)	...	...	85	0
" 6	"	Presentation	Outfit		140	0
Meccano	Clockwork	Motor	...	...	9	0
"	Electric	Motor	...	...	12	6

### ACCESSORY OUTFITS

No.					s.	d.
No. 0A	Meccano	Outfit	...	...	4	0
" 1A	"	"	...	...	7	6
" 2A	"	"	...	...	8	6
" 3A	"	"	...	...	18	6
" 4A	"	"	...	...	15	0
" 5A*	"	"	(Carton)	...	50	0
" 5A*	"	"	(Wood)	...	80	0
	Inventor's	Accessory	Outfit A	...	8	6
"	"	"	B	...	15	0
No. X1	Meccano	Electrical	Outfit	...	12	6
" X2	"	"	"	...	42	0

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

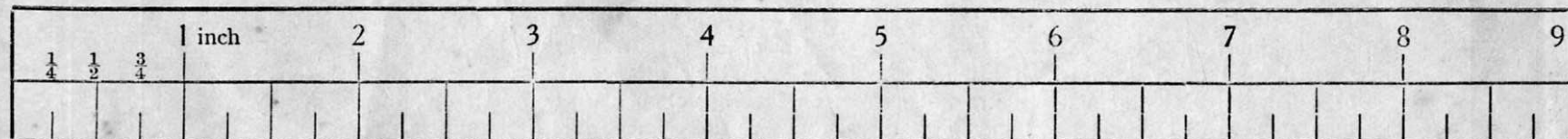
Meccano is sold in seven different Outfits, numbered 0 to 6. All parts are of the same high quality and finish, the larger Outfits containing a greater quantity and variety of parts.

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 which Outfit you commence with, you may by degrees build up your Outfit to a No. 6.

# CONTENTS OF No. 0 OUTFIT

No.	Quantity.	No.	Quantity.	No.	Quantity.
2. 5½" Perforated Strips ... ..	4	22. 1" Pulley Wheels (with Set-screw) ...	4	57. Hook ... ..	1
5. 2½" " " ... ..	9	23A. ½" " Wheel (without Set-screw) ...	1	60. 2½" × ½" Double Angle Strips ...	4
10. Flat Brackets ... ..	5	24. Bush Wheel ... ..	1	125. ½" Reversed Angle Brackets ...	2
11. Double " ... ..	2	35. Spring Clips ... ..	6	126A. Flat Trunnions ... ..	2
12. Angle " ... ..	8	37. Nuts and Bolts ... ..	25	38. Washers ... ..	6
16. 3½" Axle Rods... ..	2	44. Cranked Bent Strip ... ..	1	36. Screwdriver ... ..	1
17. 2" " " ... ..	2	52. Perforated Flanged Plate, 5½" × 2½" ...	1	40. Hank of Cord ... ..	1
19. Crank Handle ... ..	1	54. " " Sector Plate ... ..	1	56. Manual of Instructions No. 0 ...	1

This rule is provided for measuring rods, strips and other parts





# MECCANO

Hornby's Original System, First Patented 1901

PATENTS AND DESIGNS, GREAT BRITAIN:

139,125	577,207	671,485	682,209	20,535/13
145,357	577,272	671,534	682,934	22,962/13
153,234	648,958	671,790	683,011	3,869/14
154,130	671,212	680,416	686,112	4,183/14
170,785	671,484	682,208	21,117/12	4,564/15
177,430				

PATENTED THROUGHOUT THE WORLD.

## 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.