

MECCANO

(PATENTED)

INSTRUCTIONS

FOR THE N^o 0 OUTFIT

PRICE 4^d



N^o 210
MECCANO LTD. LIVERPOOL.
22/60

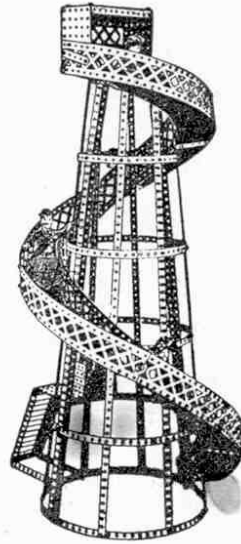
Two Minds with but
a Single Thought"

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A TALK WITH NEW MECCANO BOYS

Boys! This book is only the beginning of Meccano. You will get lots of fun building the models which it contains, but best of all it will show you what a fine hobby Meccano is, and how easy and delightful it is to build models with it.

Wouldn't you like to build all the splendid Meccano models which you have seen on exhibition in the toy-shops, and in our advertisements, and in the books and leaflets which we publish? Nothing could be easier; all the Meccano parts fit in with those you have in your No. 0 Outfit. This is the advantage of the standardization of the whole Meccano system. Once you have got the idea of the equidistant holes, and the interchangeable parts, you can do anything with them. Take, for instance, one of the models which looks most complicated—the Meccano loom. It is just as easy for you as it is for an engineer or a skilled mechanic to build it.



Who shall play with the Helter-Skelter first?

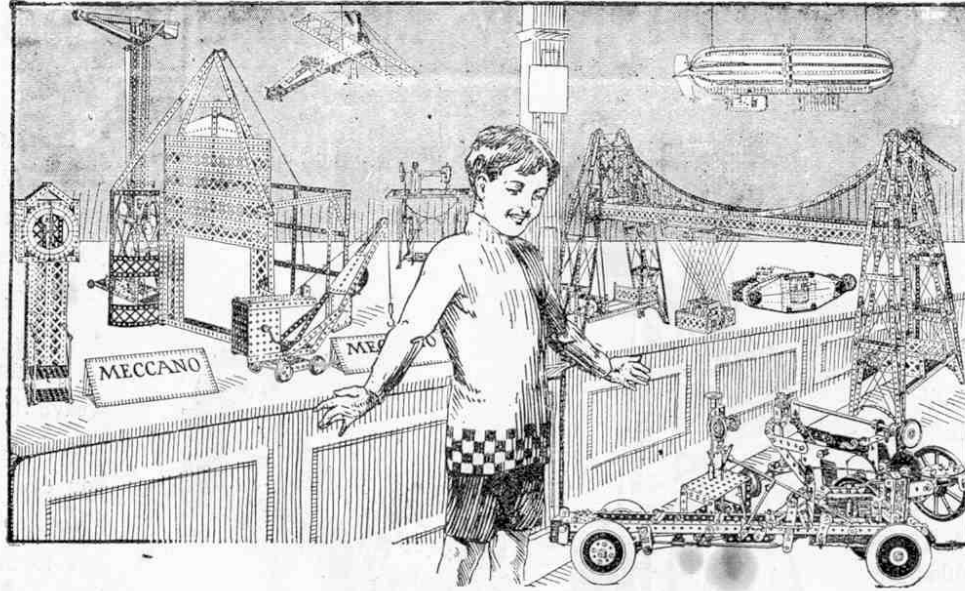


That is what the Meccano system does—the *genius and skill and knowledge are in the parts*, and all you have to do is to screw them together. And when you have made a model such as the loom, you can do something with it. You can weave ties and belts in all colours and designs, just as good as the best you can buy in the shops. Our big Manual of Instructions shows you how to make this model, and it also shows you how to make the Helter-Skelter, and the big Cranes and Bridges, and all the prize models

which have been sent in by expert Meccano boys, and which won big money prizes.

Remember, boys, that with Meccano you can make anything and everything which you can make with any other system, but that no other system can make the Meccano models.

THE NEW FULL MECCANO MANUALS OF INSTRUCTIONS CONTAIN
HUNDREDS OF PRIZE-WINNING MODELS.
GET YOUR COPY AT ONCE.



Meccano is Easy

Meccano is so easy, and our instructions are so complete, that we do not believe you will have any trouble; but if there is anything you do not quite understand, or if you have any suggestions to make, do not fail to write to us.

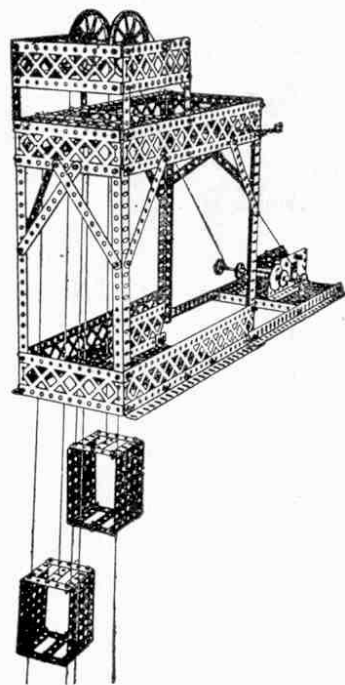
Boys! Build Bigger Models

When you have completed all the models in this book, your next purchase will be a No. 0a Accessory Outfit. This will convert your No. 0 Outfit into a No. 1. You will receive a large number of extra parts, and a big Manual of Instructions. You will be able to build scores of new and fascinating models, and will then realise what a wonderful hobby Meccano is.

The Meccano Magazine

This is a splendid Magazine, which is published for Meccano users. You will miss a lot of fun and pleasure if you do not become a regular reader. It contains articles on Meccano topics; essays by Meccano boys; hints to model-builders; replies to boys' queries by the Editor; announcements of new prize competitions which are running all the time, and which enable you to win valuable prizes; lists of prize-winners; and all kinds of useful information for boys. Write to the Editor, and he will send you your first copy FREE. If you wish to receive the *Meccano Magazine* regularly you should send 6d. in stamps to cover the next six issues. A double subscription of 1/- will, of course, ensure your receiving the next 12 copies. Address your letters to the Editor, Meccano Works, Binns Road, Liverpool.

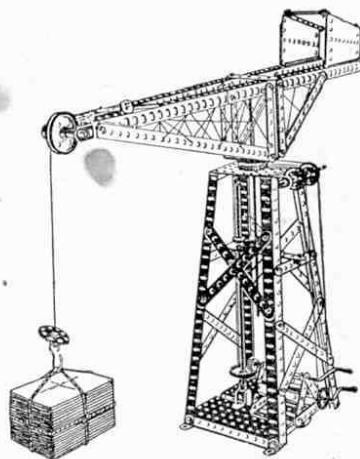
SPLENDID NEW MECCANO MODELS



Pit Head Gear

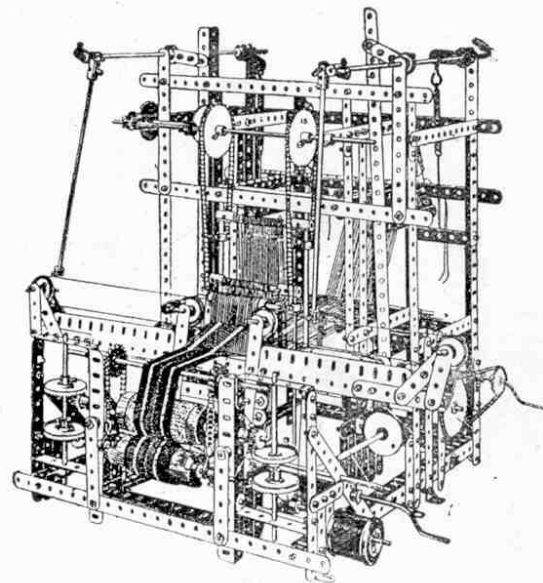
A fine toy giving great fun. The cages work up and down, carrying loads. Note the use of the splendid Meccano braced girder

These are just one or two of the fine new models which Meccano makes. The complete Meccano Manual is full of good things—hundreds of prize-winning models from all over the world. Get your copy at once. It costs 2/6, or 2/9 post paid.



Meccano Girder Crane

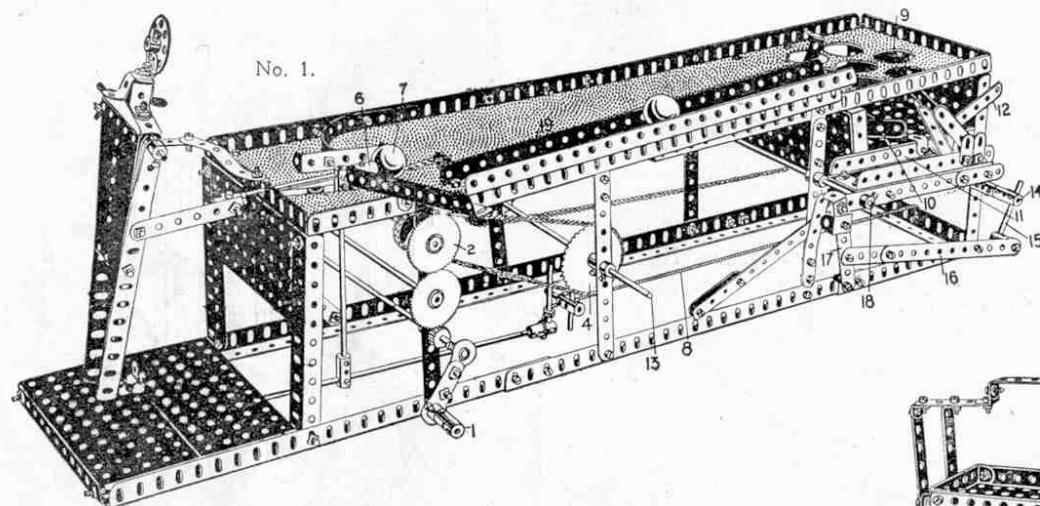
Easy to make and furnishes endless amusement.



Meccano Loom

The mechanism is fully automatic and it is only necessary to turn the handle to weave ties, belts, etc., in all designs and colours. This is a Meccano triumph which every Meccano boy must make. It will teach you all about weaving. Instructions how to make it are contained in the full Manual of Instructions.

THE MORE MECCANO YOU HAVE, THE BIGGER AND BETTER THE MODELS YOU CAN BUILD



These are a few models taken from our big Manual, which contains more than 300 just as good.

No. 1 is an Automatic Bagatelle Player. The balls are automatically played by the figure at the end of the table, and, after making the score, are returned to the player.

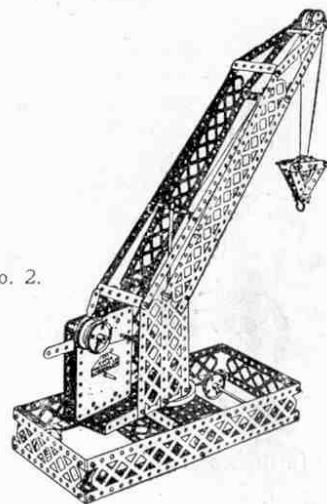
No. 2 is a beautifully designed Crane worked with a Meccano Clockwork Motor. It works perfectly.

No. 3 is a Ladies' Needlework Basket, easy to make, and most useful.

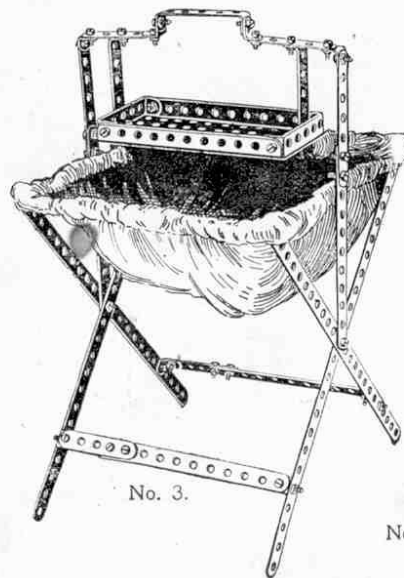
No. 4 is a type of Weighing Machine which will be familiar to every boy. It works perfectly, and can be scaled to weigh correctly.

Full instructions for building these, and hundreds of other models, will be found in the big Meccano Manual of Instructions.

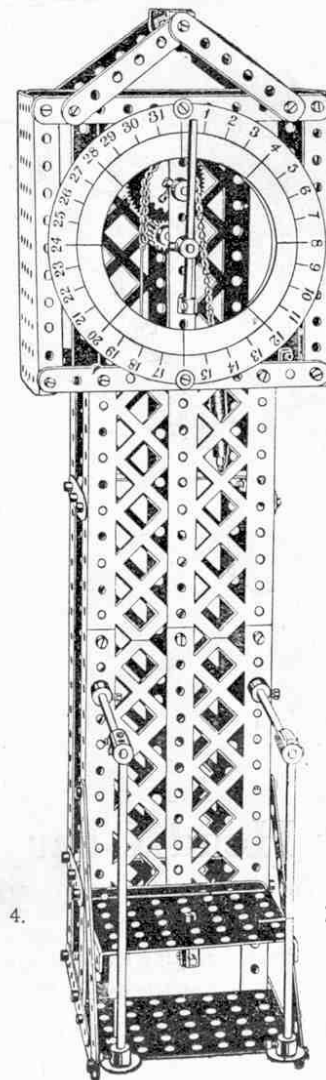
No. 2.



No. 3.



No. 4.

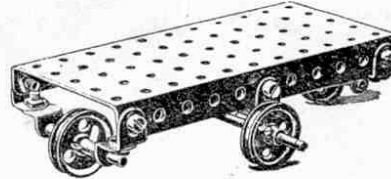
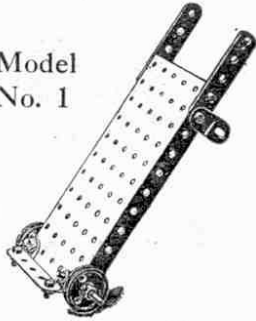


HOW TO BUILD WITH MECCANO

Follow the instructions closely at first, and build the models just as you see them. Then take each model and try to improve on our design. Every model can be made in a dozen different ways. Screw them all up tight, and you will find that you can play with the trucks and cranes and signals, &c., and do all kinds of work with them.

Trucks and Luggage Carts

Model
No. 1

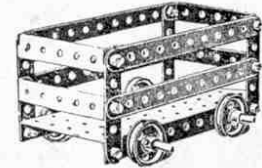


Model No. 2



Fig. 2A

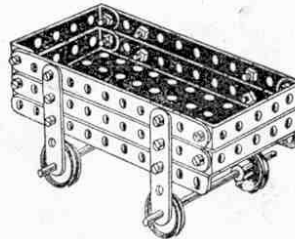
Model No. 3



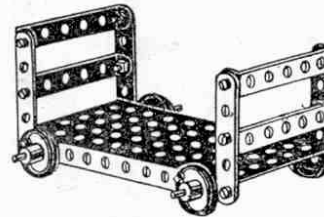
In a Revolver Truck (Model No. 2) the two end wheels are always raised just a little higher than the two centre wheels with a moderate amount of play on the axles, so that the Truck may be quickly revolved upon the centre wheels.

The bearings for the end axles are formed by connecting two angle brackets together, as shown in Fig. 2A, and bolting them in each end hole at the sides of the plate.

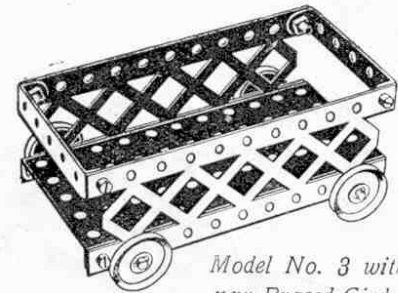
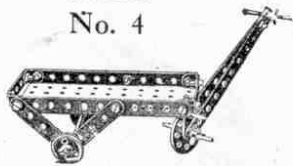
Model No. 5



Model No. 6



Model
No. 4



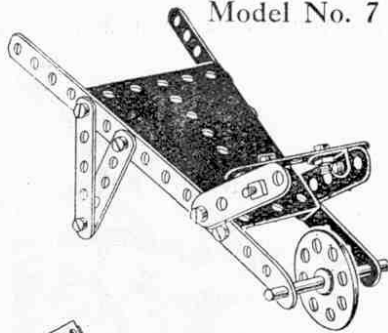
Model No. 3 with
new Braced Girder

See notice below.

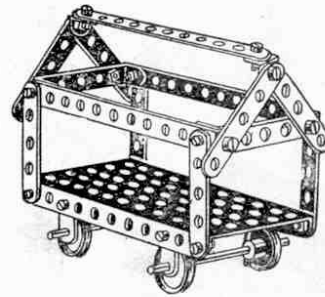
Important Notice.—The braced girder and the large wheels can be purchased separately. They are contained in the Inventor's Outfit but wherever they are shown the ordinary Meccano strips and wheels may be used instead.

Trucks and Luggage Carts *(continued)*

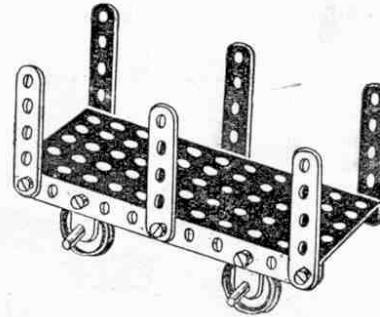
Model No. 7



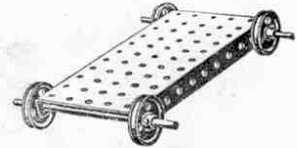
Model No. 8



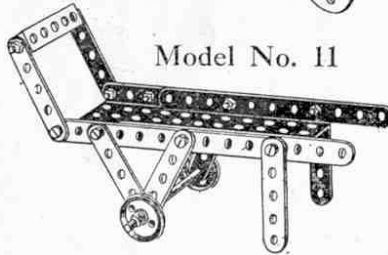
Model No. 9



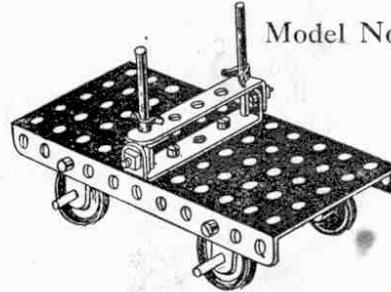
Model No. 10



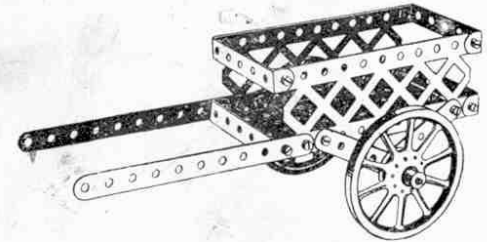
Model No. 11



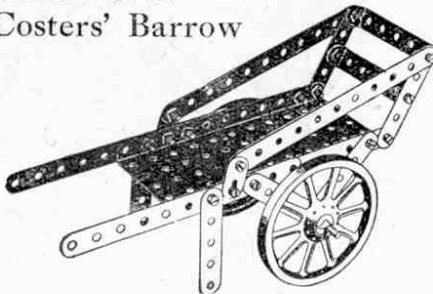
Model No. 12



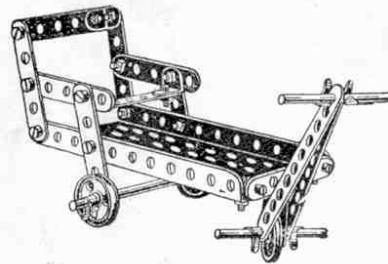
Model No. 13
See notice Page 7



Model No. 14
Costers' Barrow

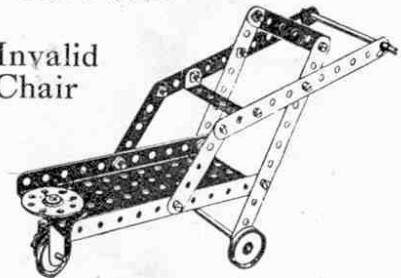


Model No. 15

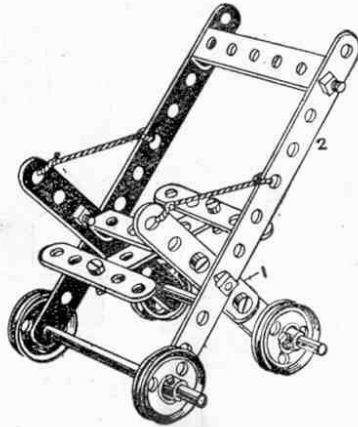


Model No. 16

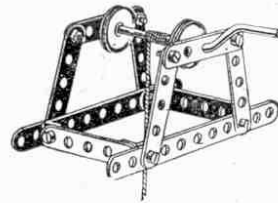
Invalid
Chair



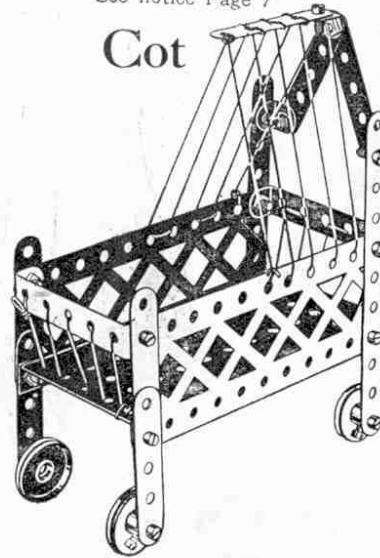
Model No. 17.
Go-Chair



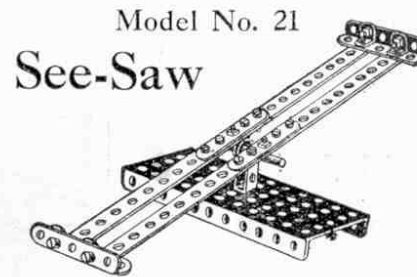
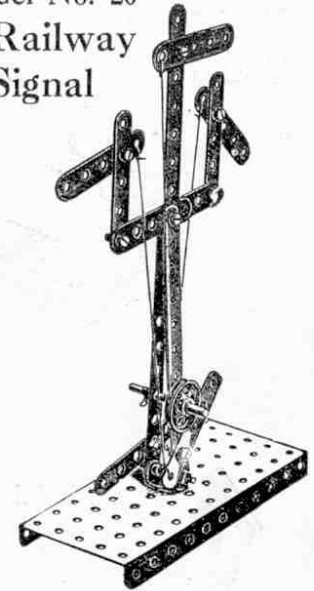
Model No. 18
Well Windlass



Model No. 19
See notice Page 7
Cot



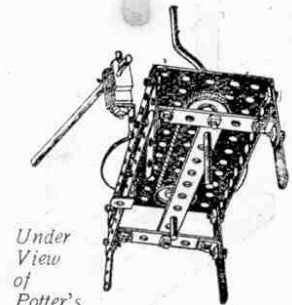
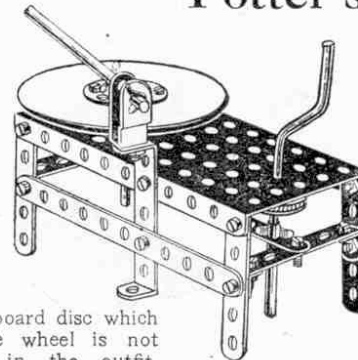
Model No. 20
Railway
Signal



Model No. 21
See-Saw

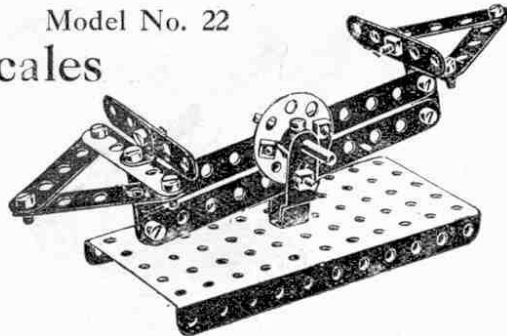
Model No. 23

Potter's Wheel



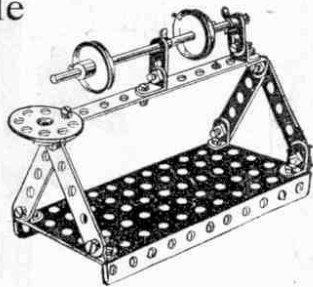
*Under
View
of
Potter's
Wheel*

Model No. 22
Scales



The cardboard disc which forms the wheel is not provided in the outfit.

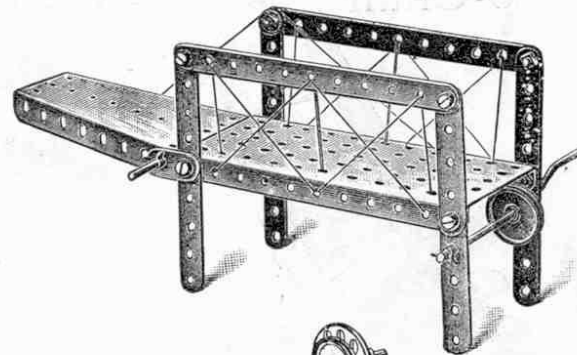
Model No. 24
Polishing
Spindle



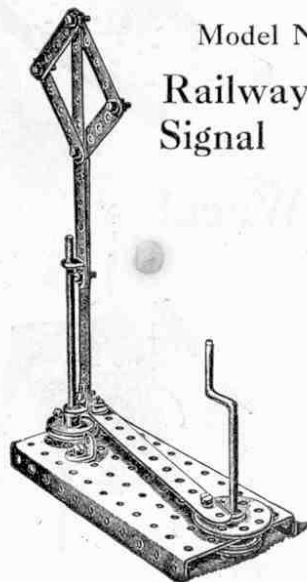
Model No. 25
Hoisting
Block



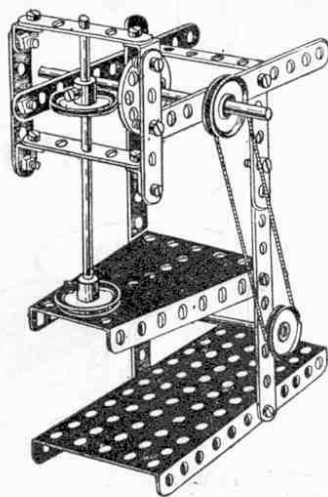
Model No. 26
Gangway



Model No. 27
Railway
Signal

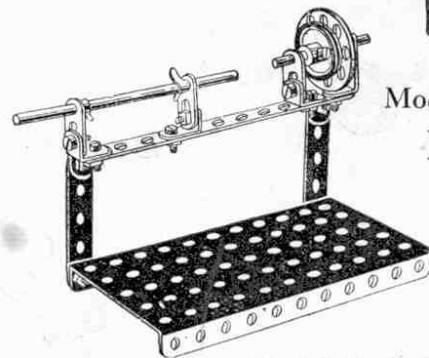


Model No. 28
Drop Stamp

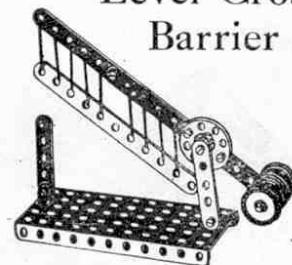


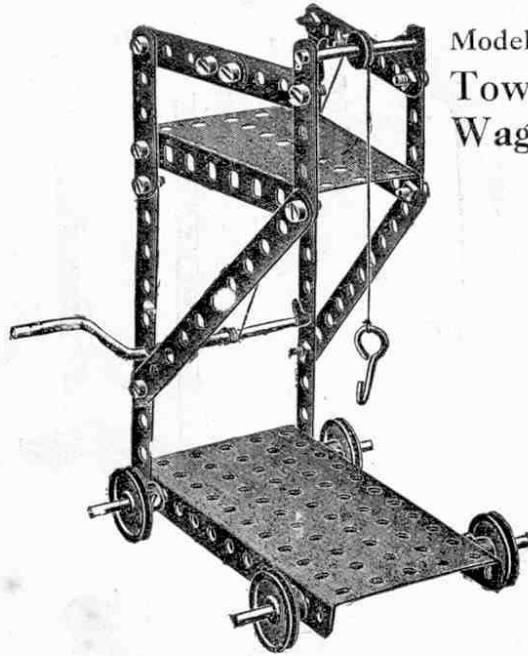
The stamp of this model is raised and dropped by a $2\frac{1}{2}$ " strip attached to a bush wheel.

Model No. 29
Lathe

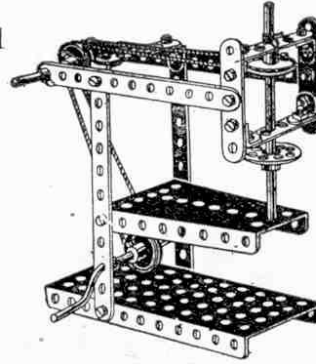


Model No. 30
Level Crossing
Barrier

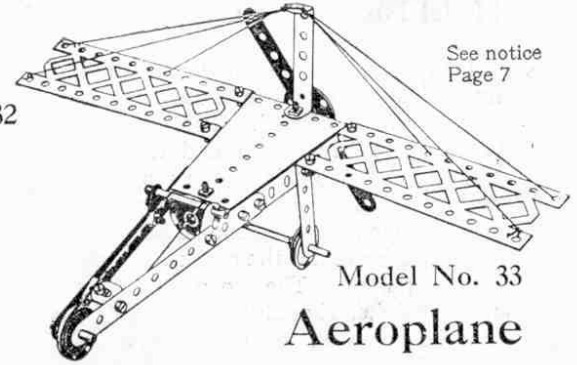




Model No. 31
**Tower
Wagon**

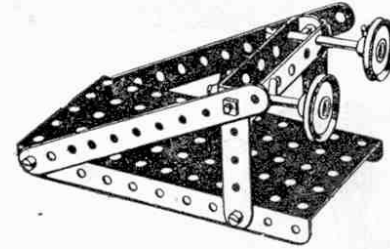


Model No. 32
**Drilling
Machine**

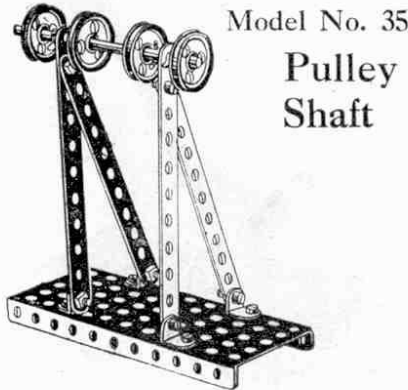


See notice
Page 7

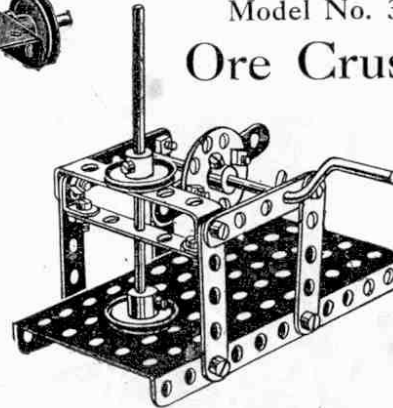
Model No. 33
Aeroplane



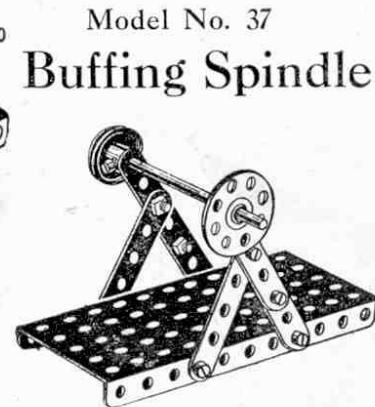
Model No. 34
Buffers



Model No. 35
**Pulley
Shaft**



Model No. 36
Ore Crusher



Model No. 37
Buffing Spindle

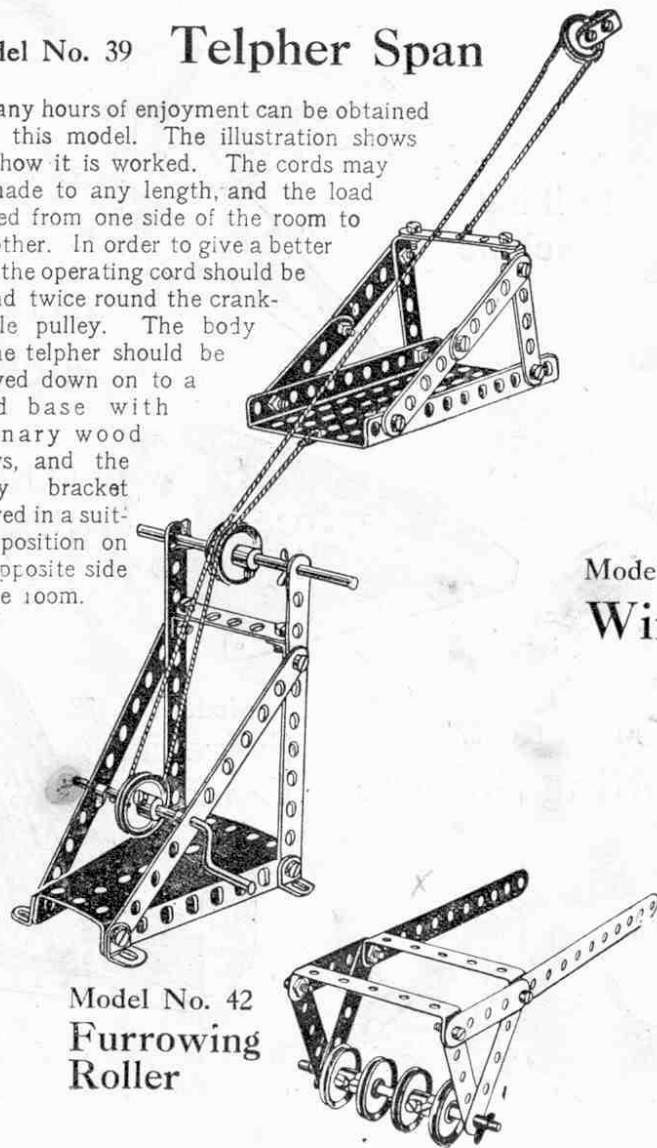


Model No. 38
**Swivelling
Crane**

The sector plate of the Crane in
this model is pivoted to the base.

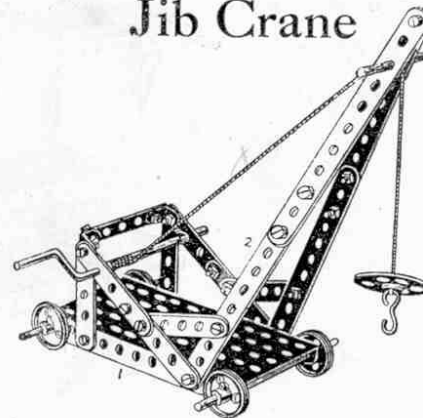
Model No. 39 Telpher Span

Many hours of enjoyment can be obtained from this model. The illustration shows just 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 telpher should be screwed down on to a solid base with ordinary wood screws, and the pulley bracket screwed in a suitable position on the opposite side of the room.

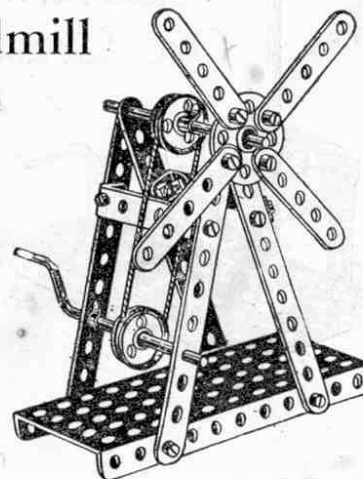


Model No. 42
Furrowing
Roller

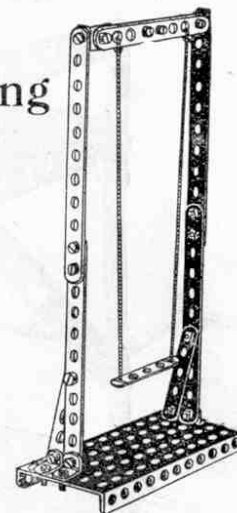
Model No. 40 Jib Crane



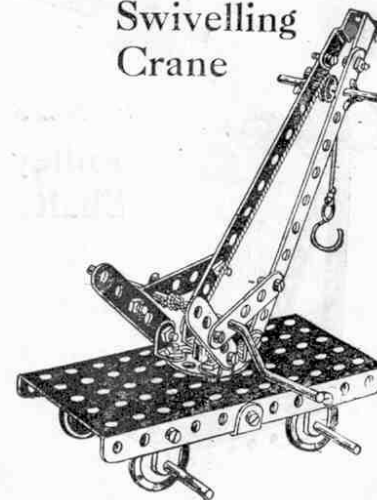
Model No. 43 Windmill



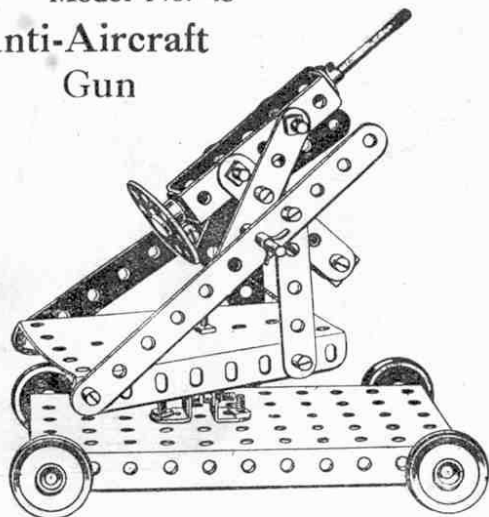
Model No. 41 Swing



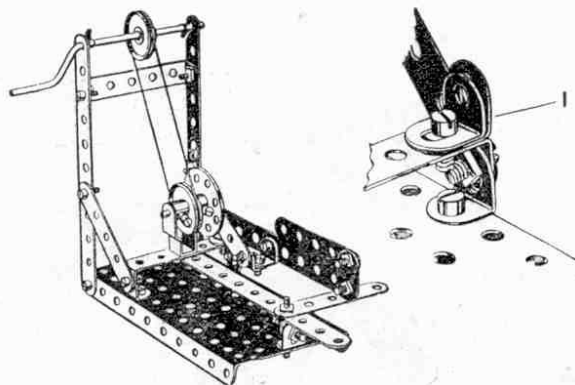
Model No. 44 Swivelling Crane



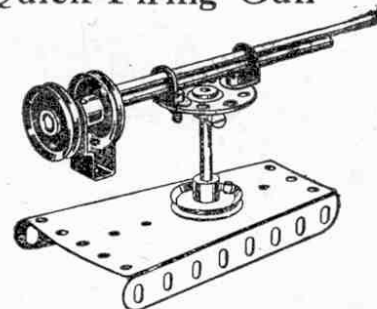
Model No. 45
Anti-Aircraft
Gun



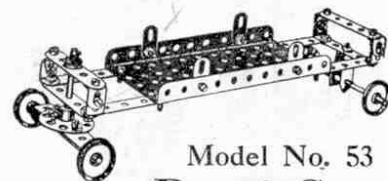
Model No. 46
Sawing Machine



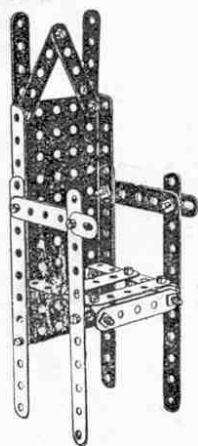
Model No. 47
Quick-Firing Gun



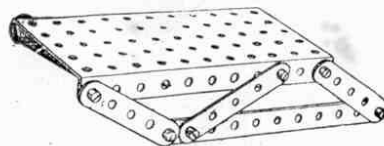
Model No. 51
Boiler Truck



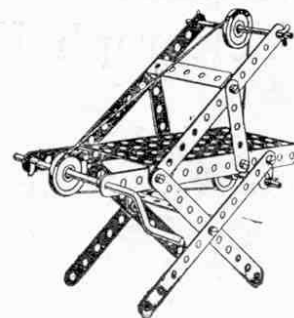
Model No. 48
Coronation Chair



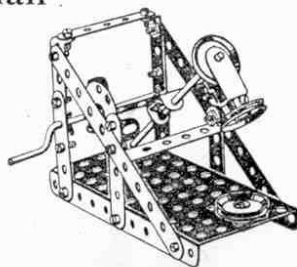
Model No. 50
Sleigh



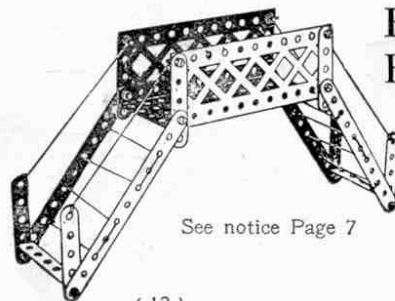
Model No. 53
Band Saw



Model No. 49
Mechanical
Hammer



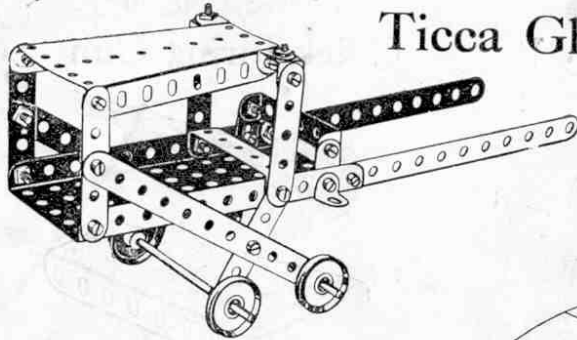
Model No. 52
High Level
Bridge



See notice Page 7

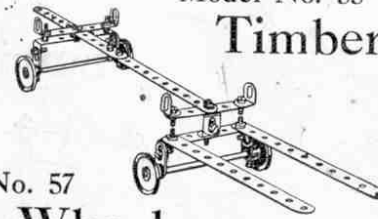
Model No. 54

Ticca Gharry



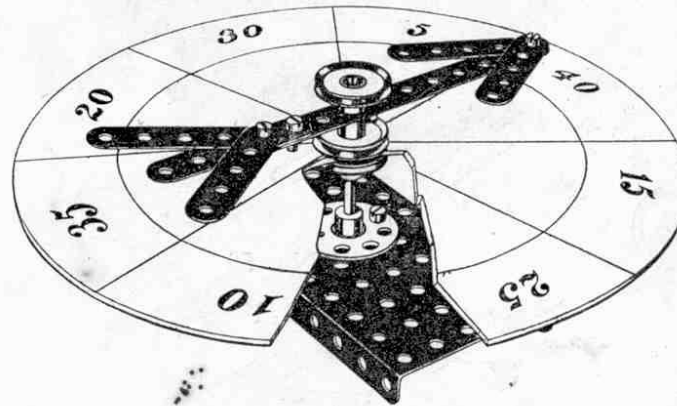
Model No. 55

Timber Drag



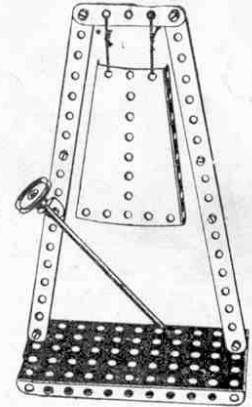
Model No. 57

Roulette Wheel



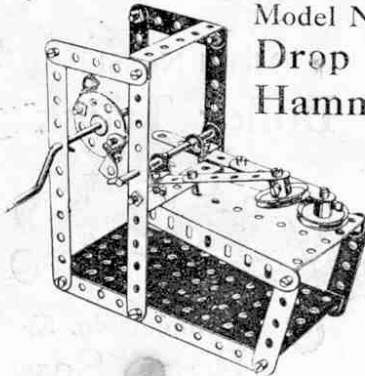
Model No. 58

Gong



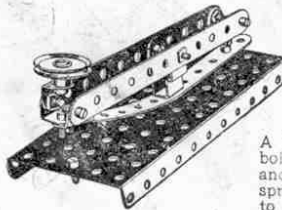
Model No. 56

Drop Hammer



Model No. 59

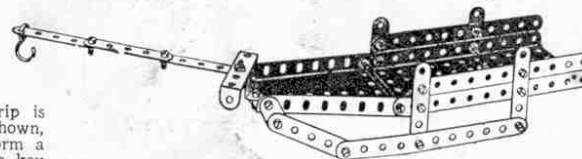
Telegraph Key



A 5in. perforated strip is bolted to the plate as shown, and is bent up to form a spring to return the key to its original position.

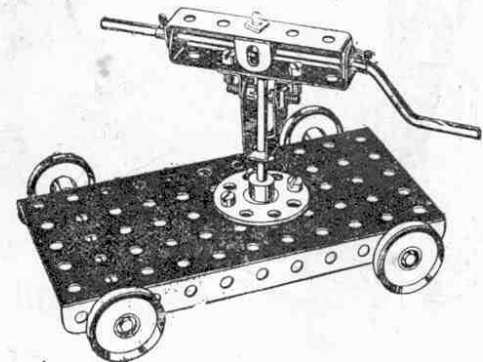
Model No. 60

Sleigh

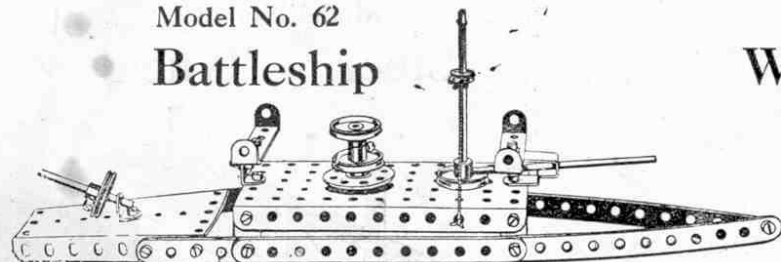


(14)

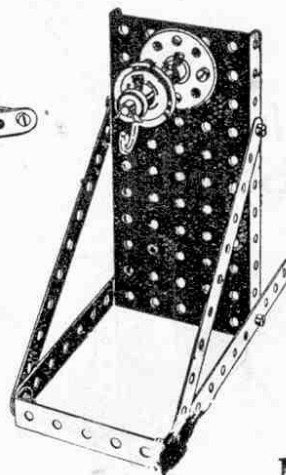
Model No. 61
Rock Drill



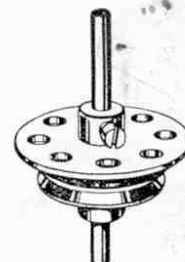
Model No. 62
Battleship



Model No. 63
Watch Stand



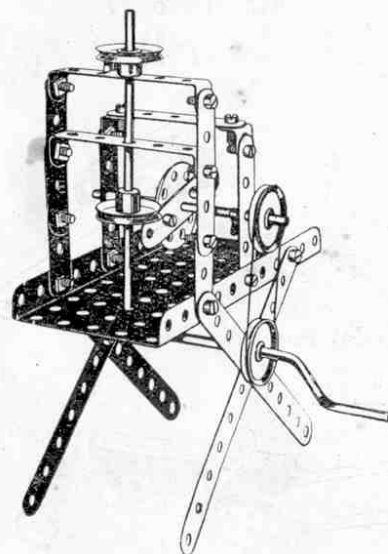
Model No. 64
Spinning Top



Model
No. 65
**Mail Bag
Hanger**



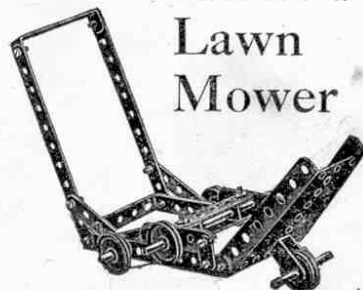
Model No. 66
**Stamping
Machine**



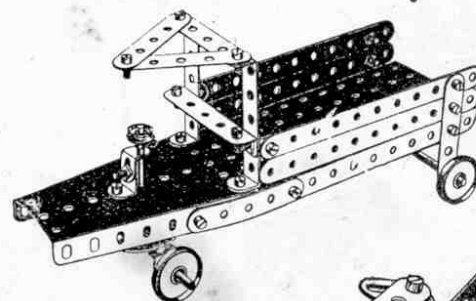
Model
No. 67
**Rocking
Chair**



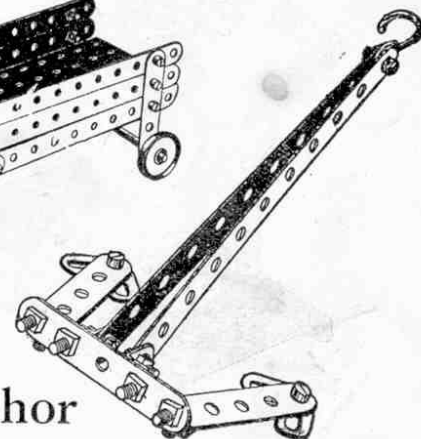
Model No. 69
**Lawn
Mower**



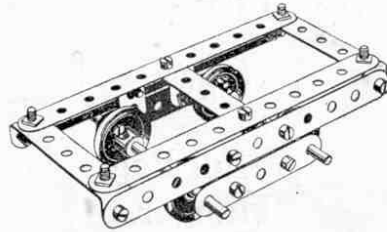
Model No. 68
Motor Lorry



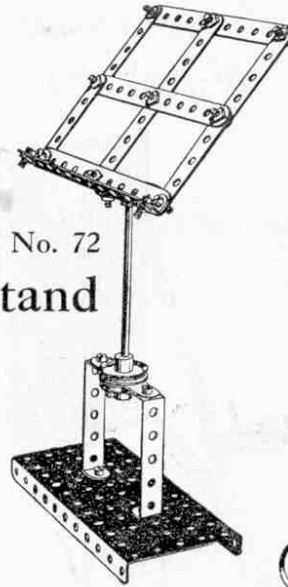
Model
No. 70
Anchor



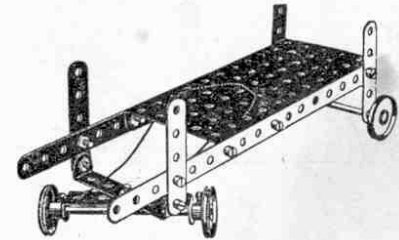
Model No. 71 **Bogey Car**



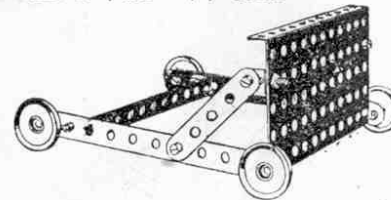
Model No. 72
Music Stand



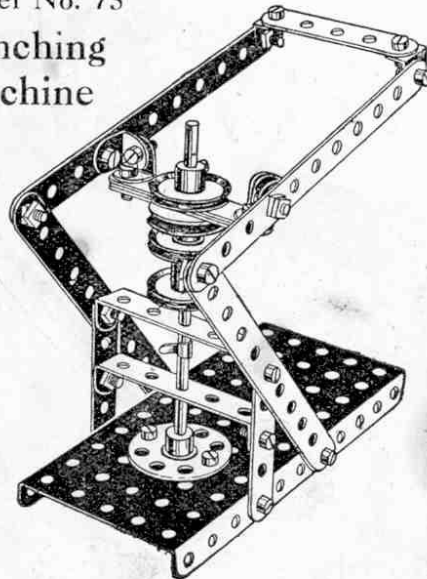
Model No. 73
Steering Truck



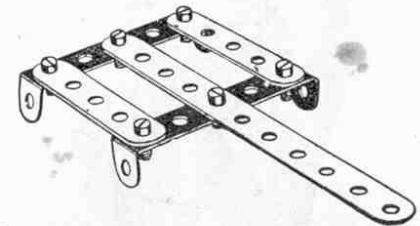
Model No. 74
Devil Wall



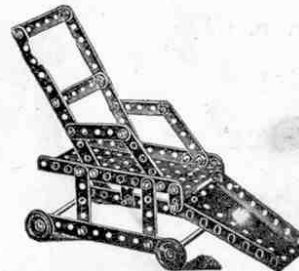
Model No. 75
Punching Machine



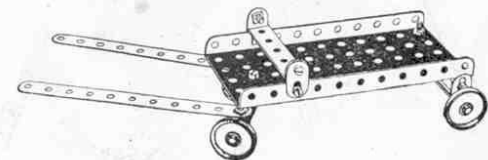
Model No. 77
Grill



Model No. 76
Invalid Chair



Model No. 78
Lurry



MECCANO

HORNBY'S ORIGINAL SYSTEM PATENTED 1901

Patents and Designs, Great Britain.

671,790	577,272	683,011	4,564/15
671,534	577,207	154,130	4,183/14
671,484	680,416	153,234	3,869/14
671,485	682,209	145,357	22,962/13
671,212	682,208	139,125	20,535/13
648,958	682,934	116,370	21,117/12

PATENTED THROUGHOUT THE WORLD

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 be stopped by the deficiencies of his non-mechanical system.

Prices of Meccano Accessory Parts.

No.		s.	d.	No.		s.	d.	No.		s.	d.
1.	Perforated Strips, 12 $\frac{1}{2}$ " long	1	3	33.	Pawls (complete)	0	5	6.	Screwed Rods, 6"	0	7
1A.	" " 9 $\frac{1}{2}$ "	1	0	33A.	Pivot Bolts with Nuts	0	2	80.	" " 5"	0	6
2.	" " 5 $\frac{1}{2}$ "	0	9	34.	Spanners	0	3	80A.	" " 3 $\frac{1}{2}$ "	0	5
2A.	" " 4 $\frac{1}{2}$ "	0	7	35.	Spring Clips	0	6	80B.	" " 4 $\frac{1}{2}$ "	0	6
3.	" " 3 $\frac{1}{2}$ "	0	5	36.	Screw Drivers	0	3	81.	" " 2"	0	3
4.	" " 3"	0	4	36A.	(Special)	1	9	82.	" " 1"	0	2
5.	" " 2 $\frac{1}{2}$ "	0	4	37.	Nuts and Bolts	0	6	89.	Curved Strips, 5 $\frac{1}{2}$ "	0	2
6.	" " 2"	0	4	37A.	Nuts	0	3	90.	" " 2 $\frac{1}{2}$ "	0	1
6A.	" " 1 $\frac{1}{2}$ "	0	3	37B.	Bolts	0	4	94.	Sprocket Chain	per yard	1
7.	Angle Girders, 24 $\frac{1}{2}$ " long	0	9	38.	Washers	0	2	95.	Sprocket Wheels, 2" diam.	each	0
7A.	" " 18 $\frac{1}{2}$ "	0	7	40.	Hanks of Cord	2 for	0	95A.	" " 1 $\frac{1}{2}$ "	each	0
8.	" " 12 $\frac{1}{2}$ "	2	3	41.	Propeller Blades	per pair	0	96.	" " 1"	each	0
8A.	" " 9 $\frac{1}{2}$ "	1	9	43.	Springs	each	0	96A.	" " 1"	each	0
9.	" " 5 $\frac{1}{2}$ "	1	3	44.	Cranked Bent Strips	each	0	97.	Braced Girders, 3 $\frac{1}{2}$ " long	1 doz.	0
9A.	" " 4 $\frac{1}{2}$ "	1	0	45.	Double Bent Strips	each	0	98.	" " 2 $\frac{1}{2}$ "	each	0
9B.	" " 3 $\frac{1}{2}$ "	0	10	46.	Double Angle Strips, 2 $\frac{1}{2}$ " x 1"	each	0	99.	" " 12 $\frac{1}{2}$ "	each	1
9C.	" " 3"	0	9	50.	Eye Pieces	each	0	99A.	" " 9 $\frac{1}{2}$ "	each	1
9D.	" " 2 $\frac{1}{2}$ "	0	8	52.	Perforated Flanged Plates, 5 $\frac{1}{2}$ " x 2 $\frac{1}{2}$ "	each	0	100.	" " 5 $\frac{1}{2}$ "	each	1
9E.	" " 2"	0	7	52A.	Flat Plates	5 $\frac{1}{2}$ " x 3 $\frac{1}{2}$ "	0	101.	Healds	for Looms	doz.
9F.	" " 1 $\frac{1}{2}$ "	0	6	53.	Perforated Flanged Plates, 3 $\frac{1}{2}$ " x 2 $\frac{1}{2}$ "	each	0	102.	Single Bent Strips	each	0
10.	Flat Brackets	1	0	53A.	Flat Plates	4 $\frac{1}{2}$ " x 2 $\frac{1}{2}$ "	0	103.	Flat Girders, 5 $\frac{1}{2}$ " long	each	0
11.	Double Brackets	each	0	54.	Perforated Flanged Sector Plates	each	0	103A.	" " 9 $\frac{1}{2}$ "	each	0
12.	Angle Brackets	doz.	0	55.	Perforated Strips, slotted, 5 $\frac{1}{2}$ "	each	0	103B.	" " 12 $\frac{1}{2}$ "	each	0
12A.	Angle Brackets, 1"	each	0	56.	Instruction Manuals, No. 1	2	6	104.	Shuttles	for Looms	4
13.	Axle Rods, 11 $\frac{1}{2}$ " long	each	0	56A.	Instruction Manuals, No. 2	1	3	105.	Reed Hooks	each	0
13A.	" " 8"	each	0	57.	Hooks	each	0	<i>Rollers for Looms.</i>			
14.	" " 6"	each	0	57A.	(scientific)	per length	0	106.	Cloth Rollers	each	1
15.	" " 5"	each	0	58.	Spring Cord	per length	0	106A.	Sand	each	1
15A.	" " 4 $\frac{1}{2}$ "	each	0	59.	Collars with Set Screws	each	0	107.	Tables for Designing Machines	each	1
16.	" " 3 $\frac{1}{2}$ "	each	0	60.	Double Angle Strips, 2 $\frac{1}{2}$ " x 1"	each	0	108.	Archwaves	each	0
16A.	" " 2 $\frac{1}{2}$ "	each	0	60A.	" " 1 $\frac{1}{2}$ " x 1"	each	0	109.	Face Plates, 2 $\frac{1}{2}$ " diameter	each	0
17.	" " 2"	each	0	60B.	" " 3 $\frac{1}{2}$ " x 2 $\frac{1}{2}$ "	each	0	110.	Rack Strips, 3 $\frac{1}{2}$ "	each	0
18.	" " 1"	each	0	60C.	" " 5 $\frac{1}{2}$ " x 2 $\frac{1}{2}$ "	each	0	111.	Bolts, 3"	each	0
19.	Crank Handles	each	0	60D.	" " 4 $\frac{1}{2}$ " x 2 $\frac{1}{2}$ "	each	0	111A.	Bolts, 1"	2 for	0
19A.	Wheels, 3" diam. with set screws	each	0	61.	Windmill Sails	each	0	112.	Double Angle Strips, 2 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ "	each	0
20.	Flanged Wheels	each	0	62.	Cranks	each	0	112A.	" " 3" x 1 $\frac{1}{2}$ "	each	0
<i>Pulley Wheels.</i>				62A.	Threaded Cranks	each	0	113.	Girder Frames	each	0
19B.	3" diam. with centre boss and set screw	each	1	63.	Couplings	each	0	114.	Hinges	per pair	0
20A.	2"	each	0	63A.	Octagonal Couplings	each	0	115.	Threaded Pins	each	0
21.	1 $\frac{1}{2}$ " diam. with centre boss and set screw	each	0	63B.	Strip Couplings	each	0	120.	Buffers	each	0
22.	1"	each	0	63C.	Threaded Couplings	each	0	121.	Train Couplings	each	0
22A.	1" " without	each	0	64.	Threaded Bosses	each	0	122.	Miniature Loaded Sacks	each	0
23.	1" " with	each	0	65.	Centre Forks	each	0	123.	Cone Pulleys	each	1
23A.	1" " with	each	0	66.	Weights, 50 grammes	each	0	124.	Reversed Angle Brackets, 1"	1 doz.	0
24.	Bush Wheels	each	0	67.	" 25	each	0	125.	" " 1"	each	0
25.	Pinion Wheels 1 $\frac{1}{2}$ " diam.	each	1	68.	Woodscrews, 1"	doz.	0	126.	Trunnions	each	0
26.	" " 1"	each	0	69.	Set Screws	each	0	126A.	Flat Trunnions	each	0
<i>Gear Wheels.</i>				69A.	Grub Screws	each	0	127.	Simple Bell Cranks	each	0
27.	50 teeth to gear with 1 $\frac{1}{2}$ " pinion	each	0	70.	Flat Plates, 5 $\frac{1}{2}$ " x 2 $\frac{1}{2}$ "	each	0	128.	Boss Bell Cranks	each	0
27A.	56	each	1	72.	" " 2 $\frac{1}{2}$ " x 2 $\frac{1}{2}$ "	each	0	129.	Rack Segments, 3" diam.	each	0
28.	Contrate Wheels, 1 $\frac{1}{2}$ " diam.	each	1	76.	Triangular Plates, 2 $\frac{1}{2}$ "	each	0	130.	Triple Throw Eccentrics	each	1
29.	" " 1"	each	1	77.	" " 1 $\frac{1}{2}$ "	each	0	131.	Dredger Buckets	each	0
30.	Revel Gears	each	1	78.	Screwed Rods 11 $\frac{1}{2}$ "	each	1	132.	Flywheels, 2 $\frac{1}{2}$ " diam.	each	2
31.	Gear Wheels, 1", 40 teeth	each	1	79.	" " 8"	each	0	133.	Corner Brackets	each	0
32.	Worm Wheels	each	0					134.	Crank Shafts, 1" stroke	each	0

Contents of No. 0 Outfit.

No.	Quantity	No.	Quantity	No.	Quantity
2.	5 $\frac{1}{2}$ " Perforated Strips	22.	1" Pulley Wheels with set screws	44.	Cranked Bent Strip
5.	2 $\frac{1}{2}$ "	23.	1" Pulley Wheel without set screw	52.	Perforated Flanged Plate, 5 $\frac{1}{2}$ " x 2 $\frac{1}{2}$ "
10.	Flat Brackets	24.	Bush Wheel	54.	Perforated Sector Plate
12.	Angle Brackets	35.	Spring Clips		Manual of Instructions, No. 0
15A.	4 $\frac{1}{2}$ " Rods	36.	Combined Screwdriver and Spanner	57.	Hook
17.	2" Rods	37.	Nuts and Bolts	60.	2 $\frac{1}{2}$ " Bent Strips
19.	Small Crank Handle	40.	Hank of Cord		

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.

Price List

No. 0.	Meccano Outfit ...	...	...	...	...	...	6/-
No. 1.	" "	...	...	...	...	...	10/-
No. 2.	" "	...	...	...	...	...	20/-
No. 3.	" "	...	...	...	...	...	30/-
No. 4.	" "	...	...	...	...	...	50/-
No. 5.	" "	...	...	...	...	Packed in neat and well-made cardboard box	70/-
Do.	" Presentation Outfit					Packed in superior oak cabinet with lock and key	100/-
No. 6.	" "	"			Ditto	ditto	180/-
No. 0A.	Meccano Accessory Outfit	(containing sufficient parts to convert a Meccano No. 0 Outfit into a No. 1)	...	...	...	...	5/-
No. 1A.	" "	(containing sufficient parts to convert a No. 1 Outfit into a No. 2)	...	...	...	...	11/-
No. 2A.	" "	(containing sufficient parts to convert a No. 2 Outfit into a No. 3)	...	...	...	...	12/-
No. 3A.	" "	(containing sufficient parts to convert a No. 3 Outfit into a No. 4)	...	...	...	...	22/-
No. 4A.	" "	(containing sufficient parts to convert a No. 4 Outfit into a No. 5)	...	...	...	...	17/6
No. 5A.	" "	(containing sufficient parts to convert a No. 5 Outfit into a No. 6)	...	...	...	...	65/-
		Packed in neat and well-made cardboard box					
Do.	" "	Packed in superior oak cabinet with lock and key					95/-
	Meccano Inventors' Accessory Outfit A	...	...	...	...	...	10/-
"	" " " " B	...	...	...	...	...	25/-

