

MECCANO

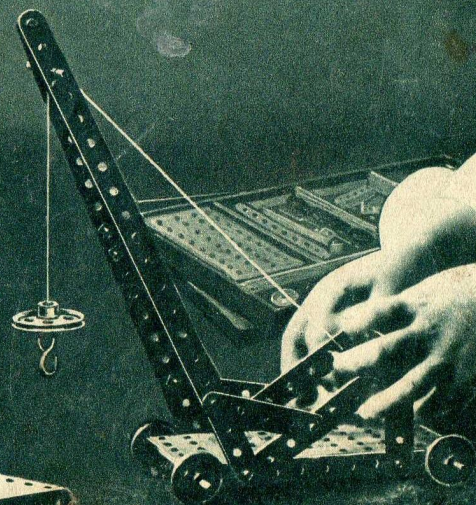
(PATENTED)

INSTRUCTIONS

FOR THE N^o 0 OUTFIT

PRICE 20⁹

CANADIAN EDITION



“Two Minds with but
a Single Thought”

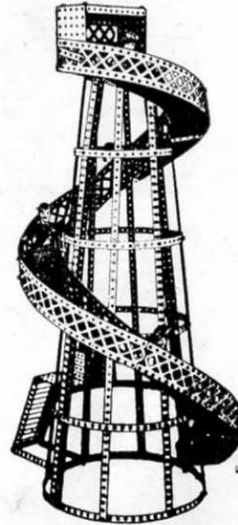
N^o 160
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A TALK WITH NEW MECCANO BOYS

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 standardisation 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 to build it as it is for an engineer or a skilled mechanic.



*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 new Supplementary Manual shows you how this model is made, and it also shows you how the Helter-Skelter is made, and the big Cranes and Bridges, and other prize models

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

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

THE NEW SUPPLEMENTARY MANUAL OF INSTRUCTIONS CONTAINS
LARGE NUMBERS OF PRIZE-WINNING MODELS.
GET YOUR COPY AT ONCE.

Money and Fame for Clever Boys

Every year there is a Meccano Grand Prize Competition, in which we offer big prizes in money, and new Meccano Outfits, to clever boys who are able to design new models. After you have built a few models, ideas for new ones will come to you, and we want you to send them in to us and get your share of the prize money. Be sure to ask your dealer for full particulars and entry forms. If you have any difficulty, send us a postcard and we will see that you get what you want.

When you ask for Meccano, see that you get it. Nothing else is "just as good"—nothing else will do the same.

**INSIST ON THE TRADE
NAME MECCANO.**



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.

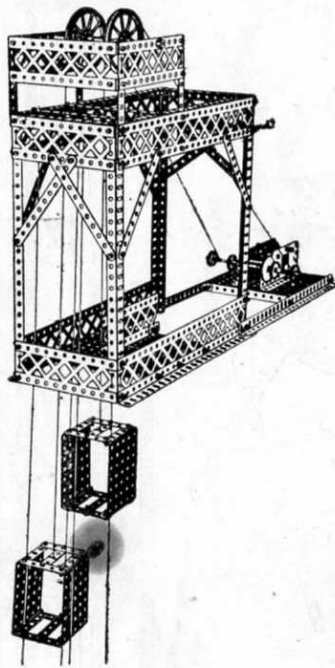
Boys! Build Bigger Models

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 our first big 140-page full 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.

ANOTHER BIG MECCANO COMPETITION HAS STARTED. GET YOUR ENTRY FORMS FOR IT.
\$1,000.00 IN PRIZES.

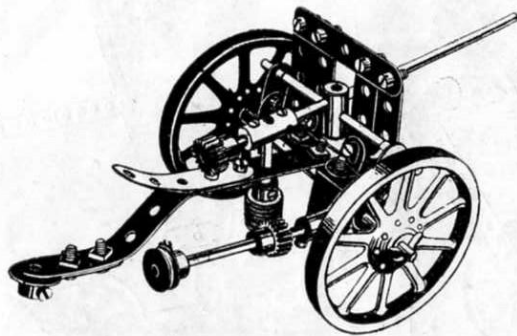
SPLENDID NEW MECCANO MODELS

These are just one or two fine new Meccano models. The new Supplementary Meccano Manual is full of good things—prize-winning models from all over the world. Get your copy at once. It is included in the No. 0A, and all regular Outfits from No. 1 upwards; or you can purchase it separately for 20 cents.



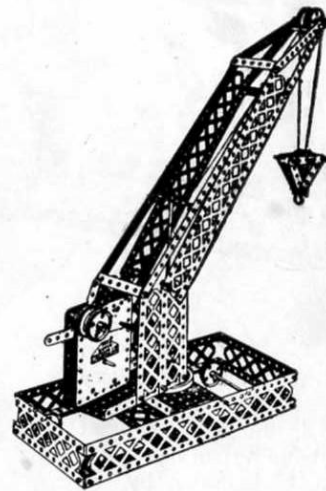
Pit Head Gear

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



Meccano Field Gun

Easy to make and furnishes endless amusement.



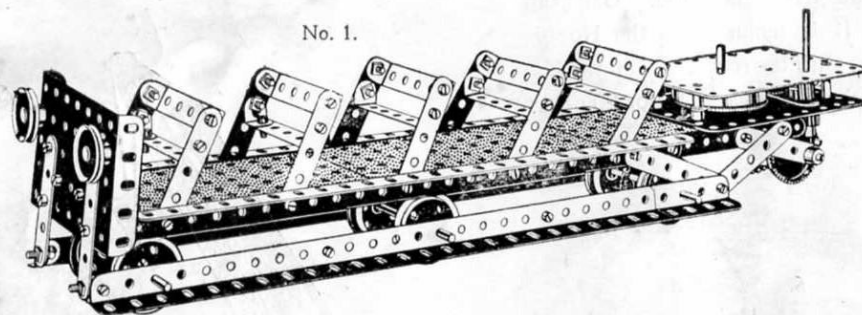
AN EXCELLENT NEW

Meccano Crane

Built true to engineering principles. Can be worked with a Meccano Clockwork or Electric Motor. Every Meccano boy should make this superb model.

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

These are a few Models taken from the new Supplementary Manual, which contains scores of others just as good.



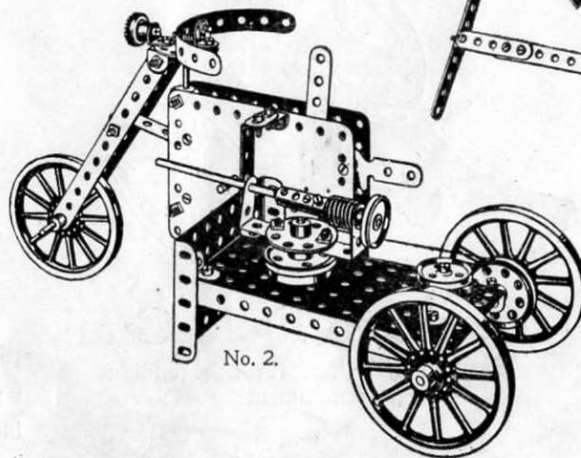
No. 1.

No. 1.—Touring Tram Car. Every boy will recognize this model, and will see what great fun he can have with it. It is drawn by the Meccano Clockwork Motor.

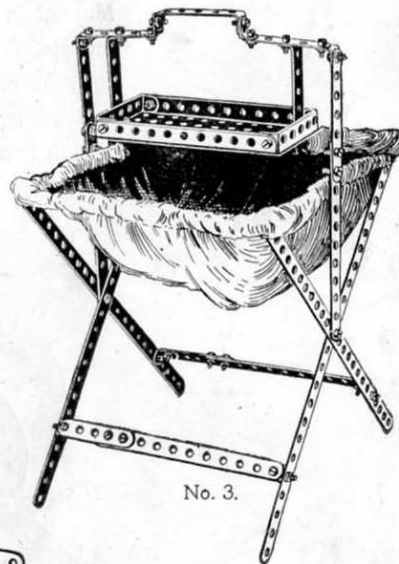
No. 2.—Armoured Motor Tricycle.

No. 3.—Ladies' Needlework Basket
Easy to make and most useful.

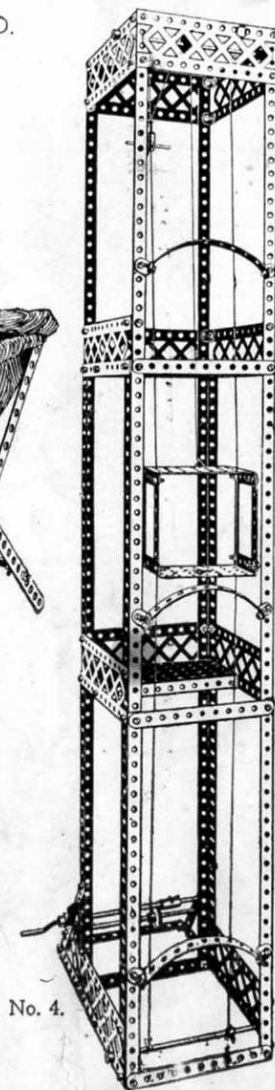
No. 4.—A new type of Meccano
Elevator.



No. 2.



No. 3.



No. 4.

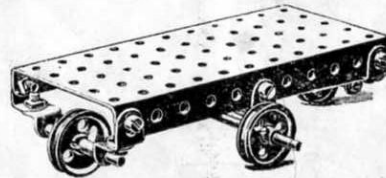
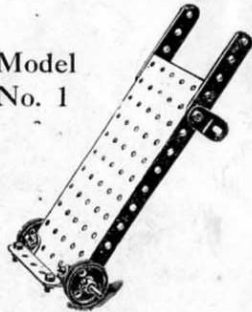
HOW TO BUILD WITH MECCANO

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.

The braced girder and the large wheels are, of course, separate parts which you can either purchase separately or in the Inventor's Outfit, but wherever they are shown the ordinary Meccano strips and wheels may be used instead.

Trucks and Luggage Carts

Model
No. 1

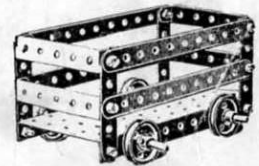


Model No. 2



Fig. 2A

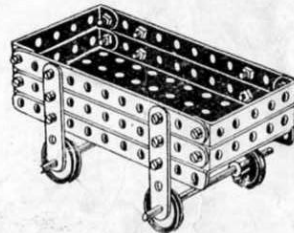
Model No. 3



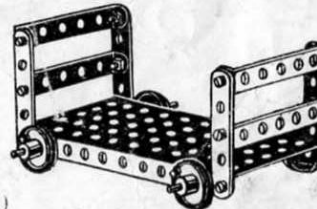
In a Revolver Truck (Model No. 2) the two end wheels are always raised just a little higher than the two centre wheels with a moderate amount of play on the axles, so that the Truck may be quickly revolved upon the centre wheels.

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.

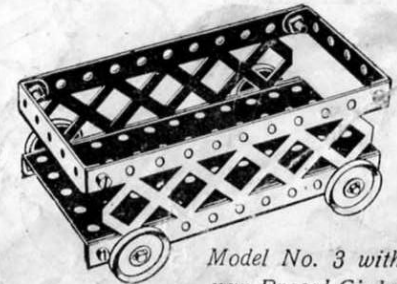
Model No. 5



Model No. 6



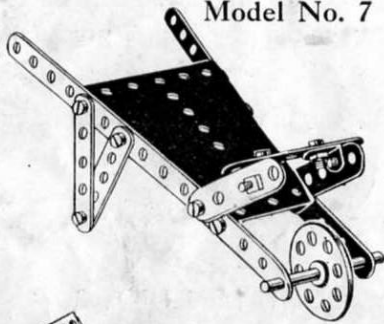
Model
No. 4



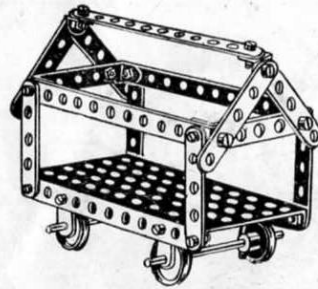
Model No. 3 with
new Braced Girder

Trucks and Luggage Carts *(continued)*

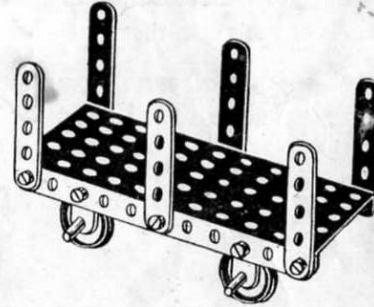
Model No. 7



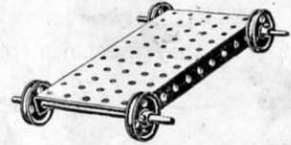
Model No. 8



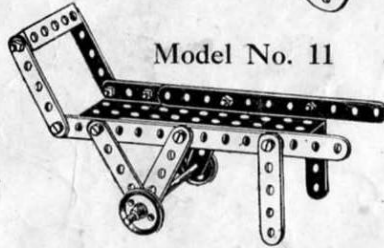
Model No. 9



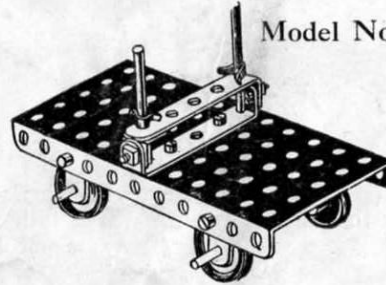
Model No. 10



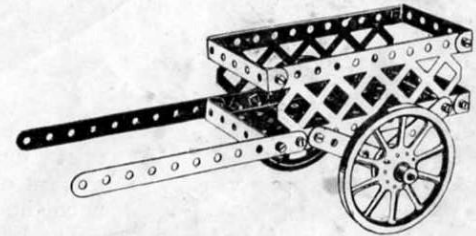
Model No. 11



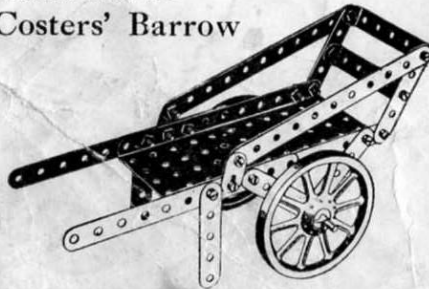
Model No. 12



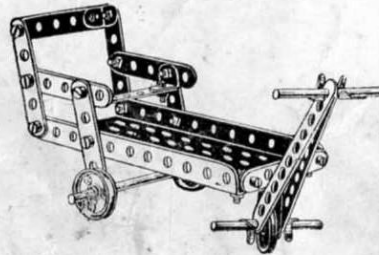
Model No. 13



Model No. 14
Costers' Barrow

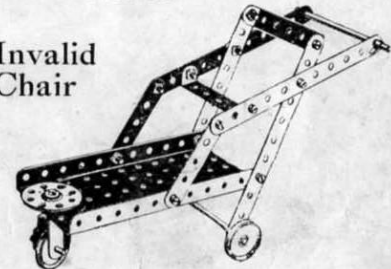


Model No. 15



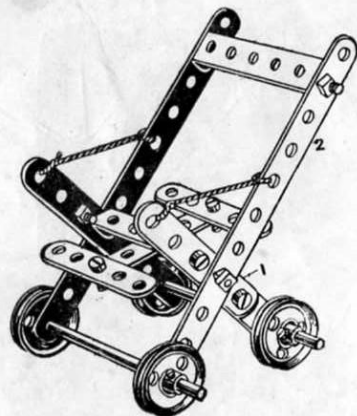
Model No. 16

Invalid
Chair



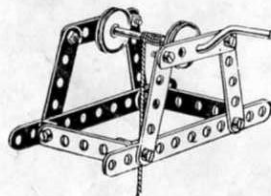
Model No. 17

Go Chair



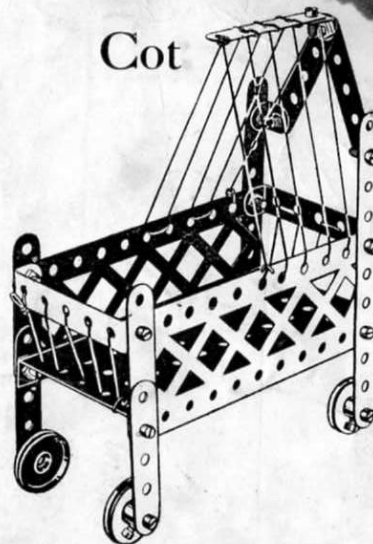
Model No. 18

Well Windlass



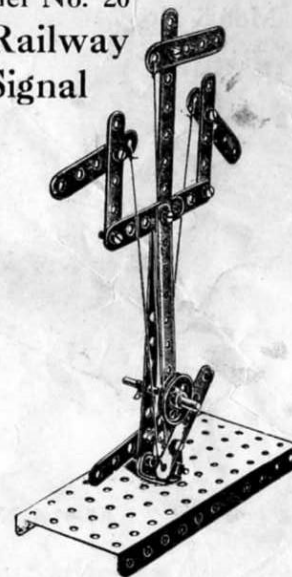
Model No. 19

Cot



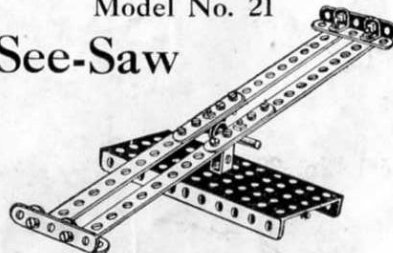
Model No. 20

Railway Signal



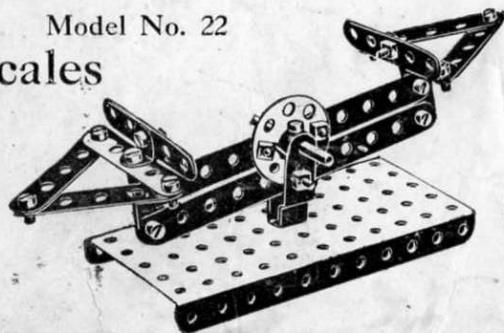
Model No. 21

See-Saw



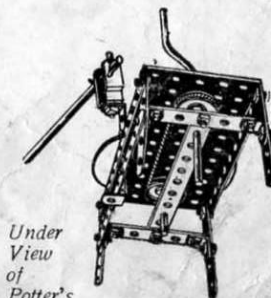
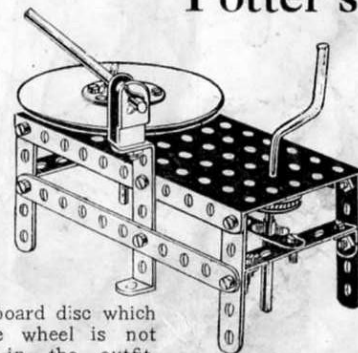
Model No. 22

Scales



Model No. 23

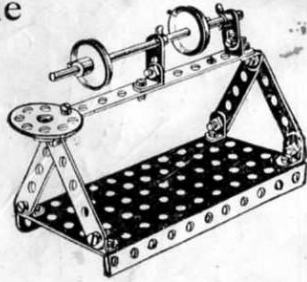
Potter's Wheel



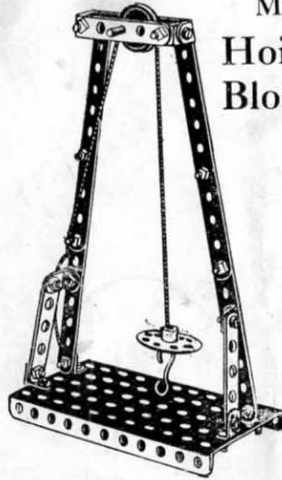
Under View of Potter's Wheel

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

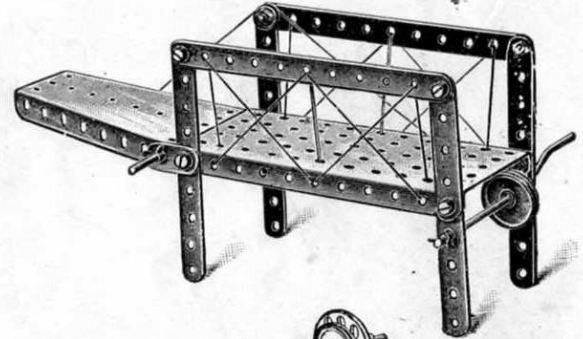
Model No. 24
Polishing
Spindle



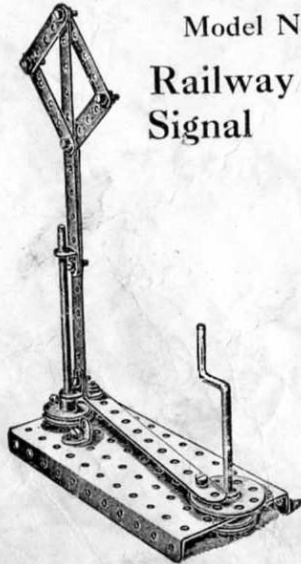
Model No. 25
Hoisting
Block



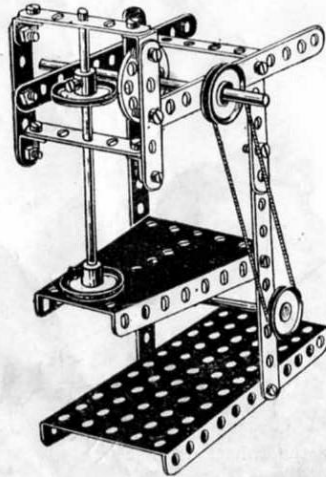
Model No. 26
Gangway



Model No. 27
Railway
Signal

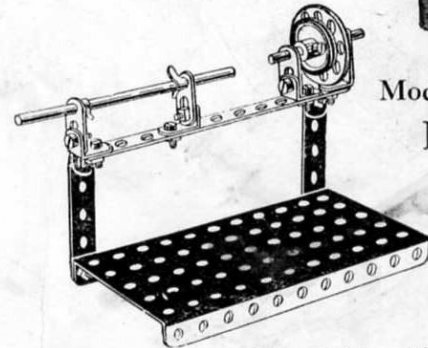


Model No. 28
Drop Stamp

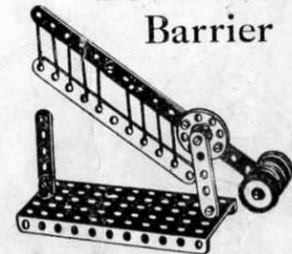


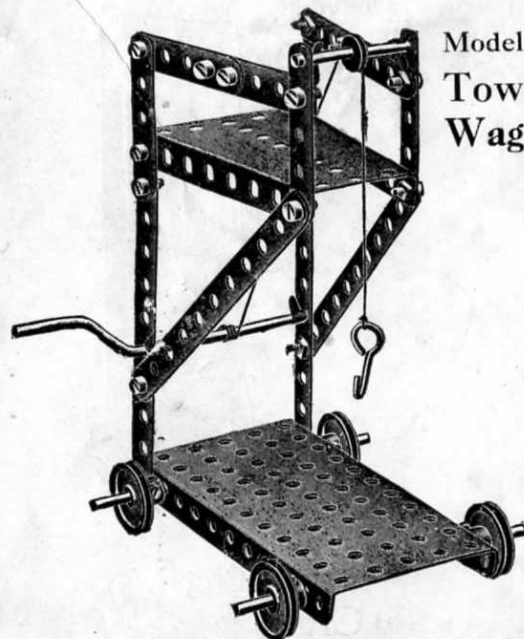
The stamp of this model is raised and dropped by a $2\frac{1}{2}$ " strip attached to a bush wheel.

Model No. 29
Lathe

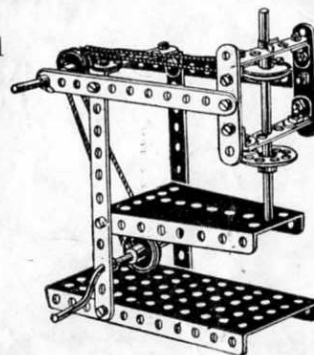


Model No. 30
Level Crossing
Barrier

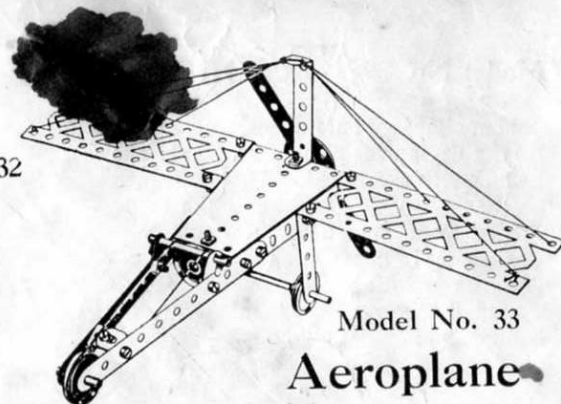




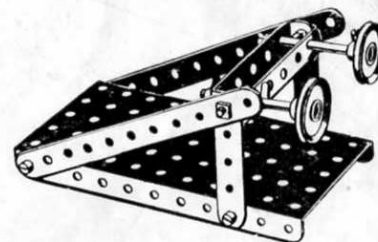
Model No. 31
Tower
Wagon



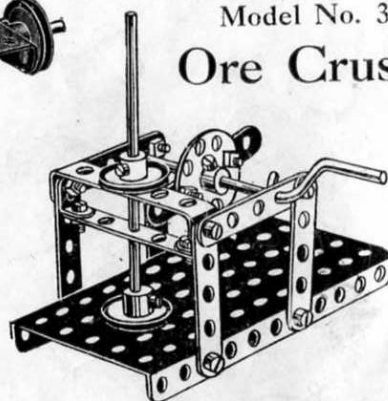
Model No. 32
Drilling
Machine



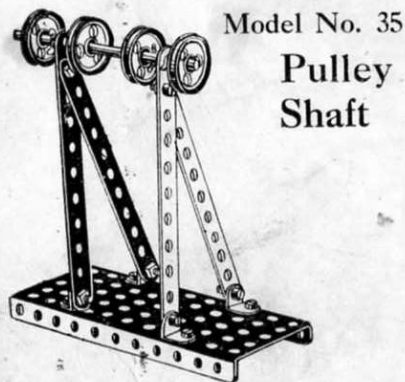
Model No. 33
Aeroplane



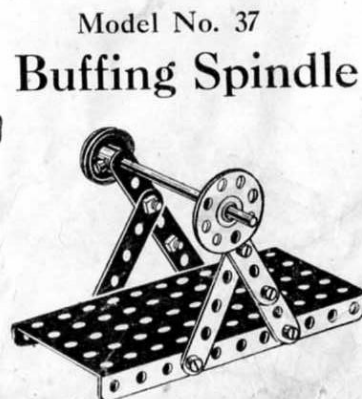
Model No. 34
Buffers



Model No. 36
Ore Crusher



Model No. 35
Pulley
Shaft



Model No. 37
Buffing Spindle

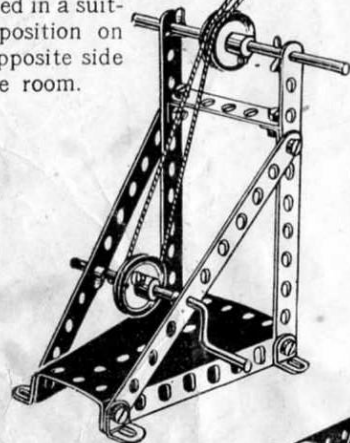
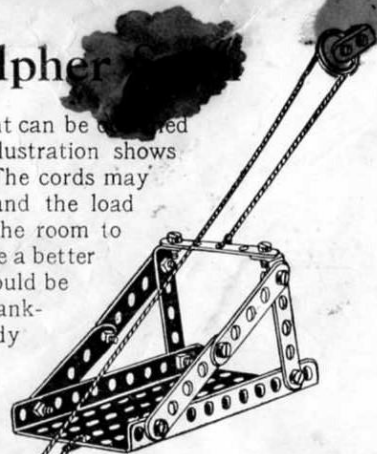


Model No. 38
Swivelling
Crane

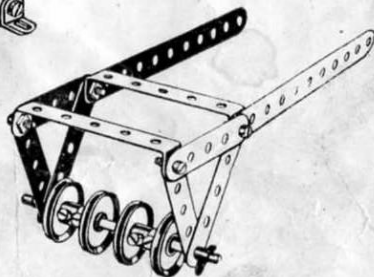
The sector plate of the Crane in this model is pivoted to the base.

Model No. 39 Telpher

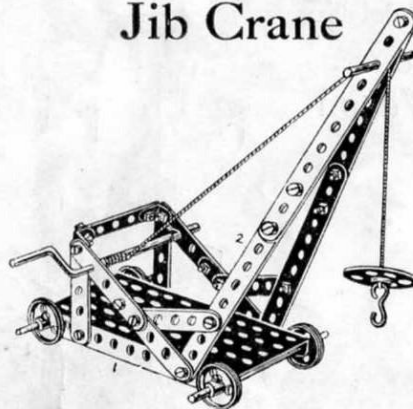
Many hours of enjoyment can be derived from this model. The illustration shows just how it is worked. The cords may be made to any length, and the load carried from one side of the room to the other. In order to give a better grip, the operating cord should be wound twice round the crank-handle pulley.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



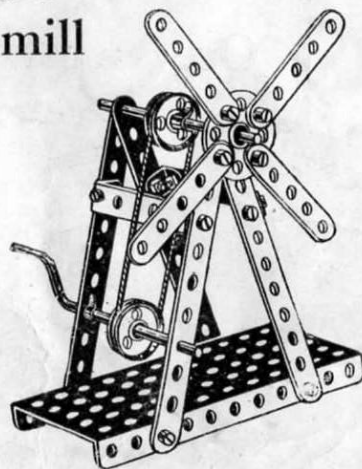
Model No. 42
Furrowing
Roller



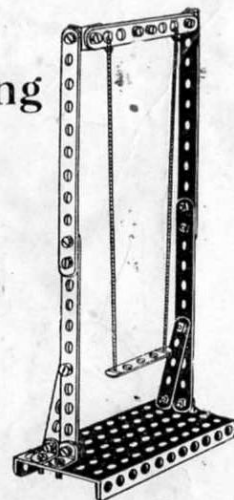
Model No. 40 Jib Crane



Model No. 43 Windmill



Model No. 41 Swing



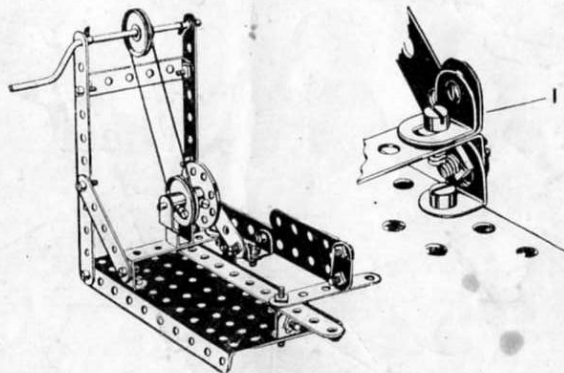
Model No. 44 Swivelling Crane



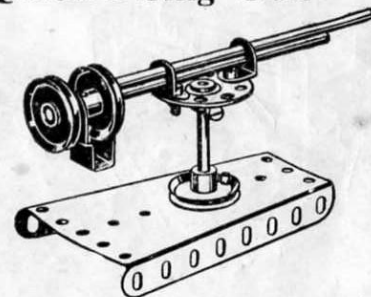
Model No. 45
**Anti-Aircraft
Gun**



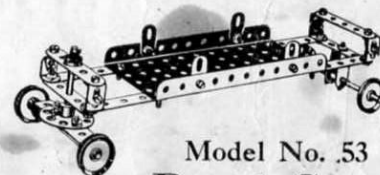
Model No. 46
Sawing Machine



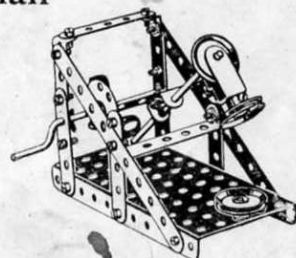
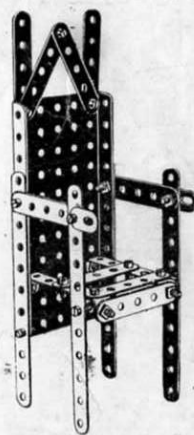
Model No. 47
Quick-Firing Gun



Model No. 51
Boiler Truck

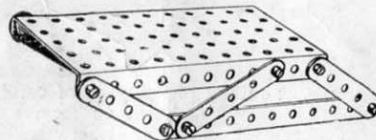


Model No. 48
Coronation Chair

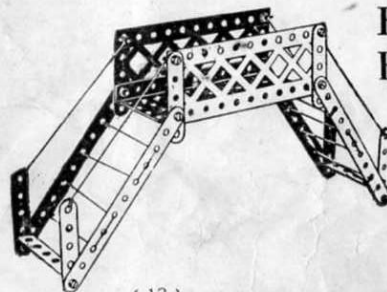


Model No. 49
**Mechanical
Hammer**

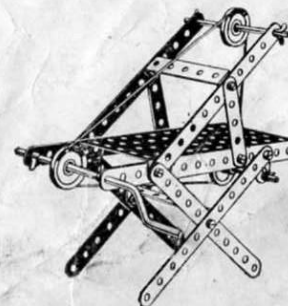
Model No. 50
Sleigh



Model No. 52
**High Level
Bridge**

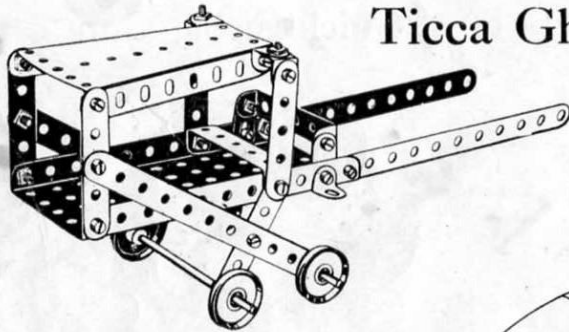


Model No. 53
Band Saw



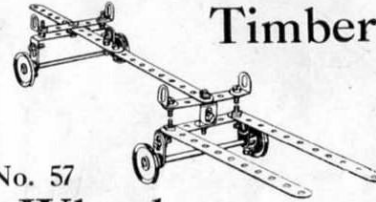
Model No. 54

Ticca Gharry



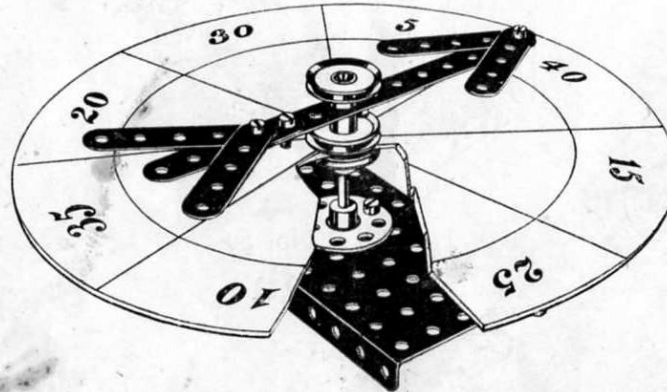
Model No. 55

Timber Drag



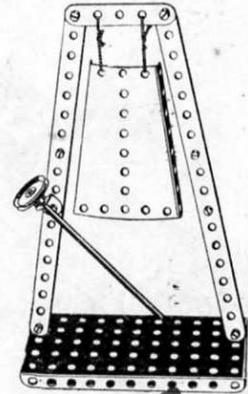
Model No. 57

Roulette Wheel



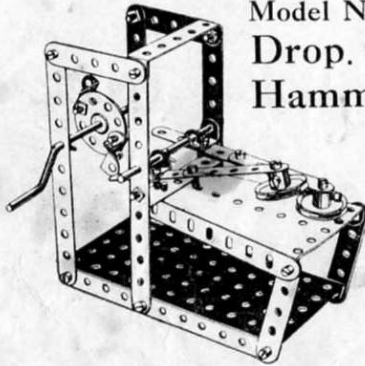
Model No. 58

Gong



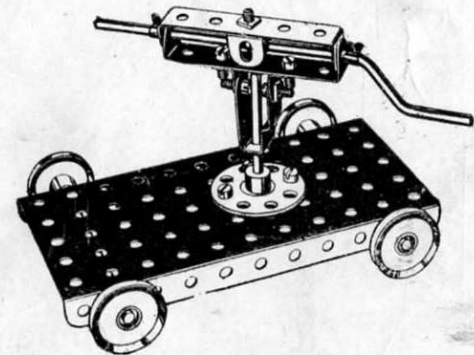
Model No. 56

Drop Hammer



Model No. 61

Rock Drill



Model No. 59

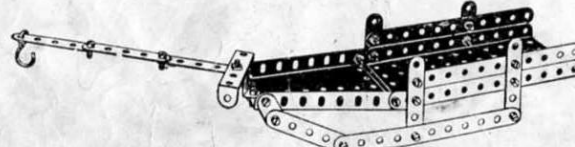
Telegraph Code Key



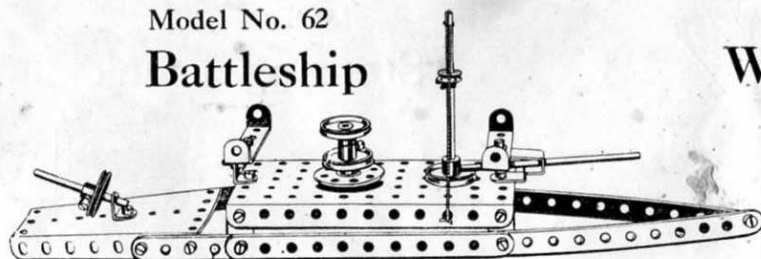
Cut out a circular piece of cardboard and mark as shown to form scoring board. This is clamped between two 1" pulley wheels. The pointer revolves freely on the upright spindle and is held in position by another 1" pulley wheel.

Model No. 60

Sleigh

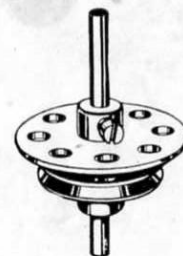
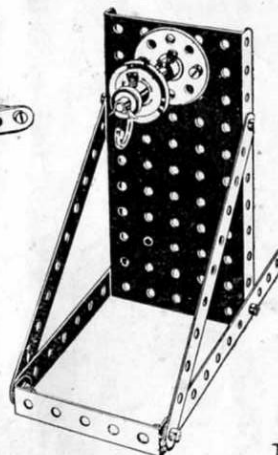


Model No. 62
Battleship



Model No. 63
Watch Stand

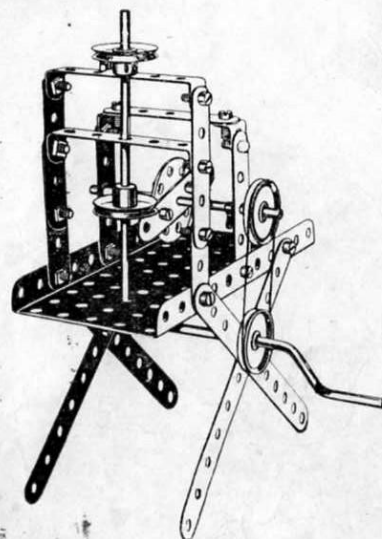
Model No. 64
Spinning Top



Model
No. 65
**Mail Bag
Hanger**



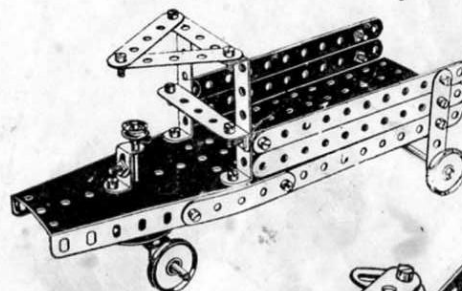
Model No. 66
**Stamping
Machine**



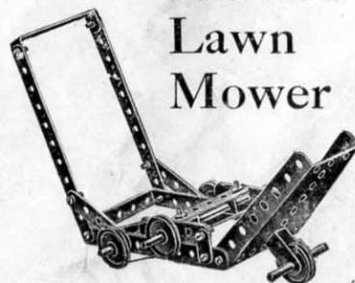
Model
No. 67
**Rocking
Chair**



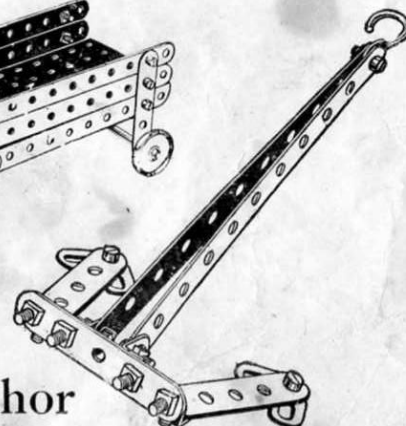
Model No. 68
Motor Lurry



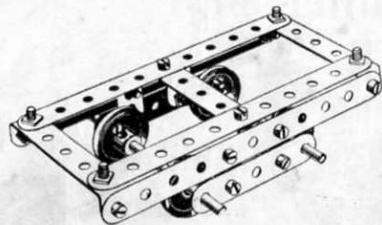
Model No. 69
**Lawn
Mower**



Model
No. 70
Anchor



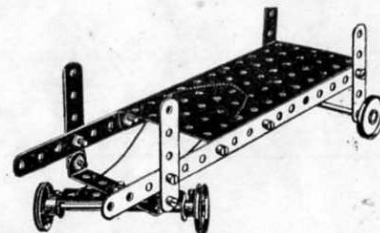
Model No. 71 **Bogey Car**



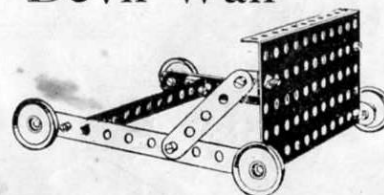
Model No. 72
Music Stand



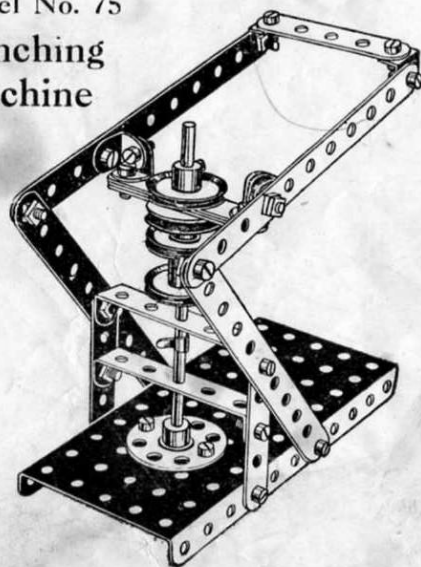
Model No. 73
Steering Truck



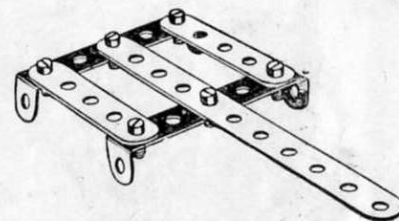
Model No. 74
Devil Wall



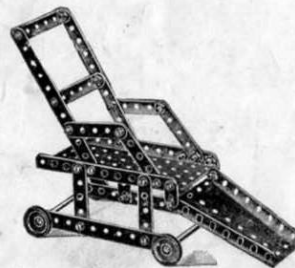
Model No. 75
Punching Machine



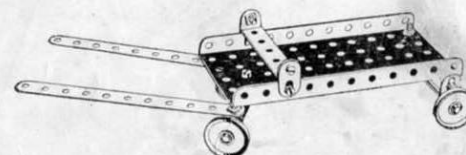
Model No. 77
Grill



Model No. 76
Invalid Chair



Model No. 78
Lurry



MECCANO

HORNBY'S ORIGINAL SYSTEM PATENTED 1901

Patents and Designs, Great Britain.

22,962-13

577,272

2085-11

3869-14

20,535-13

577,207

4183-14

4564-15

21,117-12

648,958

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 the corresponding engineering elements would do in actual practice. No other system of model construction could, therefore, be correct. Other toys which attempt the same object by other methods must avail themselves of other 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.		Cents.
1.	Perforated Strips, 12½" long .. ½ doz.	30
2.	" " 5½" " .. "	18
3.	" " 3½" " .. "	15
4.	" " 3" " .. "	15
5.	" " 2½" " .. "	10
6.	" " 2" " .. "	10
8.	Angle Girders, 12½" long .. "	45
9.	" " 5½" " .. "	30
10.	Flat Brackets	5
11.	Double Brackets each	3
12.	Angle Brackets doz.	10
13.	Silver Steel Axle Rods, 11½" long, each	5
13A.	Axle Rods, 8" long	5
14.	" " 6" "	3
15.	" " 5" "	3
15A.	" " 4½" "	3
16.	" " 3½" "	3
17.	" " 2" "	2
18A.	" " 1" "	2
19.	Crank Handles	5
19A.	Wheels 3" diam.	10
20.	Flanged and Grooved Wheels.. ..	20

Pulley Wheels.

20A.	2" diam., with set screw .. each	15
21.	1½" " " "	15
22.	1" " " "	10

No.	Pulley Wheels.—con.	Cents.
22A.	1" diam., without set screw .. each	5
23.	1½" " " "	5
23A.	1½" " with " "	10
24.	Bush Wheels	15
25.	Pinion Wheels, ¾" diam.	15
26.	" " ½" "	10
27.	Gear Wheels, 50 teeth to gear with ¾" pinion each	25
27A.	Gear Wheels, 56 teeth to gear with ½" pinion each	30
28.	Contrate Wheels, 1½" diam.	40
29.	" " 1" "	25
32.	Worm Wheels	20
33.	Pawls	5
34.	Spanners	10
35.	Spring Clips per box (doz.)	10
36.	Screw Drivers each	10
37.	Nuts and Bolts per box (doz.)	10
37A.	Nuts	5
38.	Washers doz.	5
40.	Hanks of Cord each	3
41.	Propeller Blades per pair	15
43.	Springs each	5
44.	Cranked Bent Strips	5
45.	Double Bent Strips	5
46.	Large Bent Strips	5

No.		Cents.
47A.	Dynamometers (tension) .. each	75
50.	Eye Piece	5
52.	Perforated Flanged Plates, 5½" × 2½" ea.	20
53.	" " 3½" × 2½" ea.	15
54.	Perforated Sector Plates .. each	15
56.	Manual of Instructions	25
56A.	Meccanograph Manual of Instructions	25
56B.	Supplementary Manual of Instructions	20
57.	Hooks	1
58.	Spring Cords, per length	20
59.	Collars and Set Screws	5
60.	Bent Strips, 2½" long .. per ½ doz.	15
61.	Windmill Sails each	5
62.	Cranks	10
63.	Couplings	10
65.	Centre Forks	5
94.	Sprocket Chains, per yard	15
95.	Sprocket Wheels, 2" diam.	20
96.	" " 1" "	15
99.	Braced Girders, 12½" long .. ½ doz.	50
100.	" " 5½" "	35
101.	Healds for Looms, doz.	30
S1.	Spring Motor	\$2.00
E1.	Electric Motor	\$1.50
E2.	" "	\$3.00

Contents of No. 0 Outfit.

No.		Quantity
2.	5½" perforated strips	4
5.	2½" " "	9
10.	Flat brackets	4
12.	Angle brackets	8
15A.	4½" rods	2
17.	2" rods	2
19.	Small crank handle	1
22.	1" pulley wheels (fast)	4
23.	¾" pulley wheel	1
24.	Bush wheel	1

No.		Quantity
35.	Spring clips	4
36.	Combined screwdriver	1
37.	Nuts and bolts	25
40.	Hank cord	1
44.	Cranked bent strip	1
52.	Perforated flanged plate, 5½ × 2½	1
54.	Perforated sector plate	1
56.	Manual of instructions	1
57.	Hook	1
60.	2½" bent strip	2

Price List

No. 0.	Meccano Outfit ...	...	...	...	...	...	\$1.00
No. 1.	" "	...	...	...	...	...	\$2.00
No. 2.	" "	...	...	...	...	...	\$4.00
No. 3.	" "	...	...	...	...	...	\$6.00
No. 4.	" "	...	...	...	...	...	\$10.00
No. 5.	" "	Packed in neat and well-made cardboard box				...	\$14.00
Do.	"	Presentation Outfit ...	...	...	...	...	\$18.00
		Packed in well-made walnut stained box with lock and key.					
No. 6.	" "	" "	Ditto	ditto	...	...	\$36.00

No. 0A.	Meccano Accessory Outfit	(containing sufficient parts to convert a Meccano No. 0 Outfit into a No. 1)	\$1.00
No. 1A.	" "	(containing sufficient parts to convert a No. 1 Outfit into a No. 2)	\$2.00
No. 2A.	" "	(containing sufficient parts to convert a No. 2 Outfit into a No. 3)	\$2.00
No. 3A.	" "	(containing sufficient parts to convert a No. 3 Outfit into a No. 4)	\$4.00
No. 4A.	" "	(containing sufficient parts to convert a No. 4 Outfit into a No. 5)	\$4.00
No. 5A.	" "	(containing sufficient parts to convert a No. 5 Outfit into a No. 6)	\$13.00
		Packed in neat and well-made cardboard box	
Do.	" "	" "	Packed in well-made walnut stained box with lock and key
Meccano Inventors' Accessory Outfit			\$2.00

CANADA.

No.		Dollars
0.	Meccano Outfit	1.50
1.	" " " " " "	3.00
2.	" " " " " "	6.00
3.	" " " " " "	9.00
4.	" " " " " "	15.00
5.	" " " in Cloth-bound Box	20.00
6.	" " " " " "	40.00
<hr/>		
0A.	Accessory Outfit	1.50
	Converts No. 0 into a No. 1 Outfit	
1A.	" " " " " "	3.00
	Converts No. 1 into a No. 2 Outfit	
2A.	" " " " " "	3.00
	Converts No. 2 into a No. 3 Outfit	
3A.	" " " " " "	6.00
	Converts No. 3 into a No. 4 Outfit	
4A.	" " " " " "	5.00
	Converts No. 4 into a No. 5 Outfit	
5A.	" " " " " (Carton) ...	20.00
	Converts No. 5 into a No. 6 Outfit	
	Inventors' Outfit	3.00

MECCANO LTD.

719/5

Meccano Price List

No.		Cents.
1.	Perforated Strips, 12 $\frac{1}{2}$ " long...	1 doz. 45
2.	" " " 5 $\frac{1}{2}$ " " " " "	" 25
3.	" " " 3 $\frac{1}{2}$ " " " " "	" 20
4.	" " " 3" " " " "	" 20
5.	" " " 2 $\frac{1}{2}$ " " " " "	" 15
6.	" " " 2" " " " "	" 15
8.	Angle Girders 12 $\frac{1}{2}$ " " " " "	" 60
9.	" " 5 $\frac{1}{2}$ " " " " "	" 45
10.	Flat Brackets	" 05
11.	Double Brackets	each 03
12.	Angle Brackets	doz. 10
13.	Silver Steel Axle Rod, 11 $\frac{1}{2}$ " long	each 10
13A.	Axle Rods, 8" long	" 10
14.	" " 6" " " " "	" 05
15.	" " 5" " " " "	" 05
15A.	" " 4 $\frac{1}{2}$ " " " " "	" 05
16.	" " 3 $\frac{1}{2}$ " " " " "	" 05
17.	" " 2" " " " "	" 02
18A.	" " 1" " " " "	" 02
19.	Crank Handles... ..	" 10
19A.	Pulley Wheels, 3" with set screw	" 25
20.	Flanged Wheels	" 25
20A.	Pulley Wheels, 2" diam., with set screw	" 20
21.	" " 1 $\frac{1}{2}$ " " " " "	" 20
22.	" " 1" " " " "	" 10
22A.	" " 1" " without "	" 05
23.	" " $\frac{1}{2}$ " " " " "	" 03
23A.	" " $\frac{1}{2}$ " " with "	" 10
24.	Bush Wheels	" 15
25.	Pinion Wheels, 3" diam., 25 teeth	" 25
26.	" " $\frac{1}{2}$ " " 20 " "	" 15
27.	Gear Wheels, 50 teeth to gear with	" 30
	$\frac{3}{4}$ " pinion	" 30
27A.	Gear Wheels, 56 teeth to gear with	" 35
	$\frac{1}{2}$ " pinion	" 50
28.	Contrate Wheels, 1 $\frac{1}{2}$ " diam. ...	" 30
29.	" " " $\frac{3}{4}$ " " " " "	" 25
32.	Worm Wheels	" 05
33.	Pawls	" 10
34.	Spanners	" 15
35.	Spring Clips	per box (doz.) 10
36.	Screw Drivers	each 12
37.	Nuts and Bolts	per box (doz.) 12
37A.	Nuts	" 05

JAN., 1919

No.		Cents.
38.	Washers	doz. 05
40.	Hanks of Cord	each 03
41.	Propeller Blades	per pair 15
43.	Spring	each 05
44.	Cranked Bent Strip	" 05
45.	Double Bent Strip	" 05
46.	Large Bent Strip	" 05
47.	Dynamometer, tension and compres-	
	sion (combined)	" 2.50
47A.	Dynamometer (tension)	" 1.50
49.	Disc Weights, 20 grms.	" 15
49A.	" " 25 " " " "	" 15
49B.	" " 50 " " " "	" 20
50.	Eye Piece	" 05
52.	Perforated Flanged Plate, 5 $\frac{1}{2}$ " x 2 $\frac{1}{2}$ "	" 25
53.	" " 3 $\frac{1}{2}$ " x 2 $\frac{1}{2}$ "	" 20
54.	" " Sector Plate	" 20
56.	Manual of Instructions	" 35
56A.	Meccanograph Manual of Instructions	" 25
57.	Hooks	" 01
57A.	Hook (Scientific)	" 01
58.	Spring Cords, per length	" 30
59.	Collars and Set Screws	" 05
60.	Bent Strips, 2 $\frac{1}{2}$ " long	per $\frac{1}{2}$ doz. 20
61.	Windmill Sail	each 10
62.	Crank	" 15
63.	Coupling... ..	" 15
65.	Centre Fork	" 10
94.	Sprocket Chain, per yard	" 25
95.	" " Wheel, 2" diam.	" 25
96.	" " 1" " " " "	" 20
99.	Braced Girders, 12 $\frac{1}{2}$ " long ...	per $\frac{1}{2}$ doz. 75
100.	" " 5 $\frac{1}{2}$ " " " " "	" 50
101.	Healds for Looms	doz. 45
102.	Single Bent Strip for Looms ...	each 05
103.	Perforated Flat Girder Strip, 5 $\frac{1}{2}$ " long	" 10
104.	Shuttle	" 50
105.	Reed Hook	" 05
106.	Roller	" 10
S1.	Spring Motor	" 3.00
E1.	Electric Motor	" 2.50
E2.	" " " " " "	" 4.50
	Transformer	" 3.00

LIVERPOOL, Eng.

