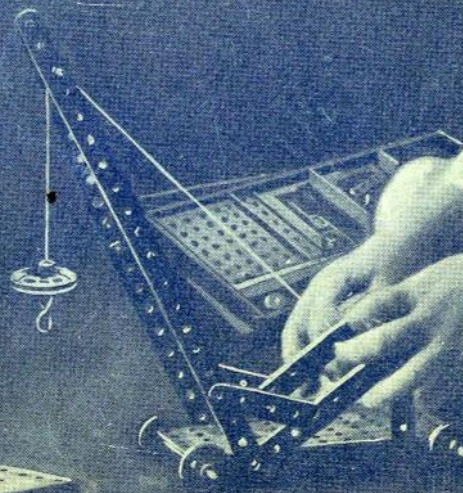


MECCANO

INSTRUCTIONS
FOR THE N° 0 OUTFIT
PRICE 15 CENTS



N° 160

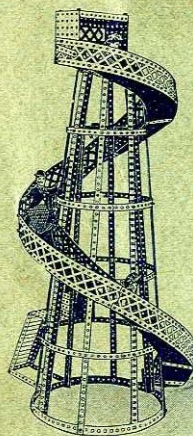
"Two Minds with but a Single Thought"

COPYRIGHT 1916
BY MECCANO LTD

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-stores, 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 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 neckwear and belts in all colors and designs, just as good as the best you can buy in the stores. 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 took big money prizes.

Remember, boys, that with a Meccano Outfit 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 FULL MECCANO MANUAL OF INSTRUCTIONS CONTAINS
HUNDREDS 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 so 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.

Address

MECCANO CO., INC.
71 West 23rd Street, NEW YORK

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

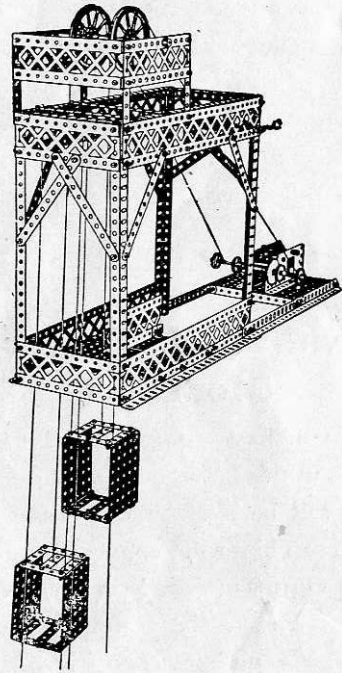
Meccano is so easy, and our instructions are so complete, that we do not believe you will have any trouble; but if there is anything you do not quite understand, or if you have any suggestions to make, do not fail to write to us.

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 realize what a wonderful hobby Meccano is.

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

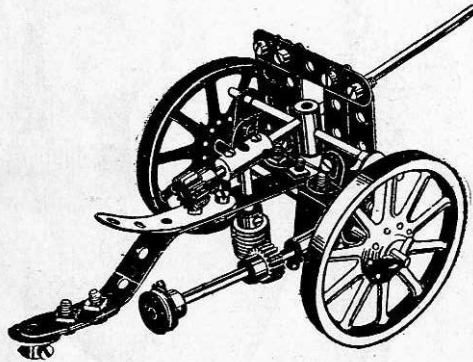
SPLENDID NEW MECCANO MODELS



Pit Head Gear

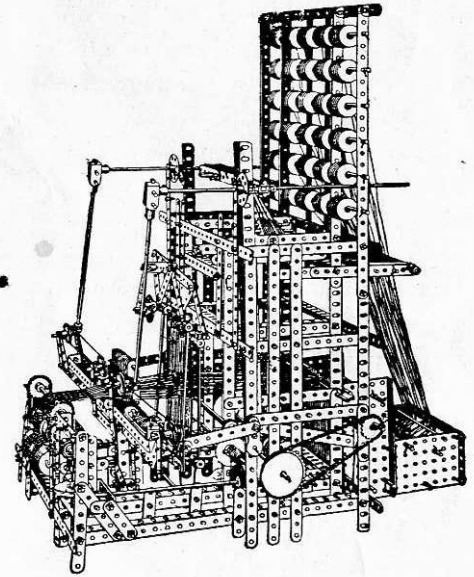
A fine toy, giving great fun. The cages work up and down, carrying loads. Note the splendid use of the Meccano braced girder.

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 is included in the No. 0A, and all regular Outfits from No. 1 upwards; or you can purchase it separately for 35 cents.



Meccano Field Gun

Easy to make and furnishes endless amusement.

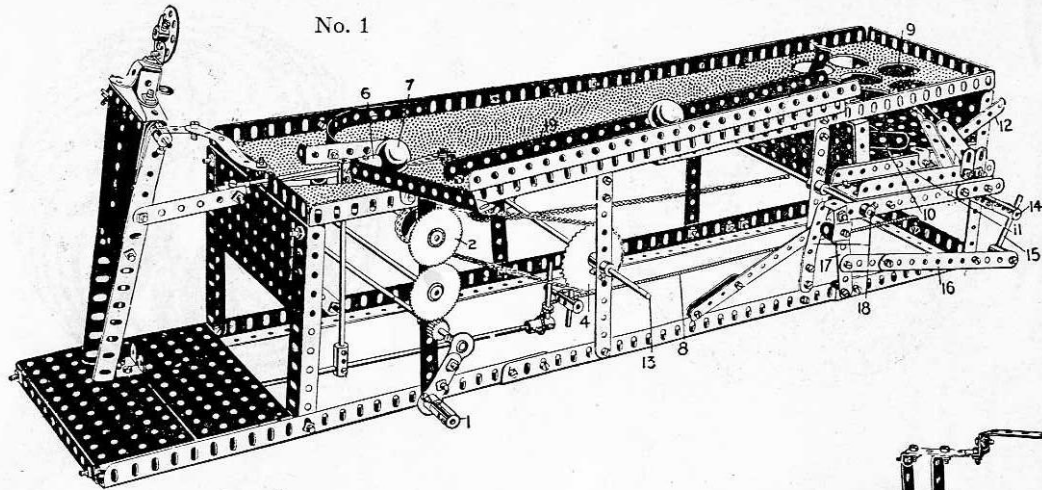


Meccano Loom

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

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

No. 1



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.

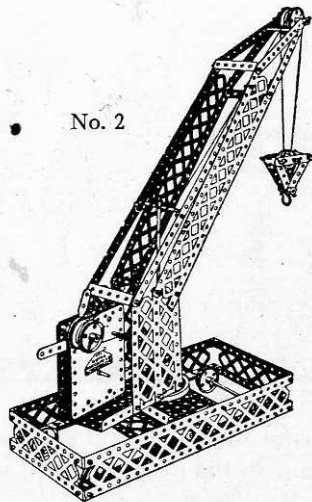
No. 2 is a beautifully designed Crane worked with a Meccano Clockwork Motor. It works perfectly.

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

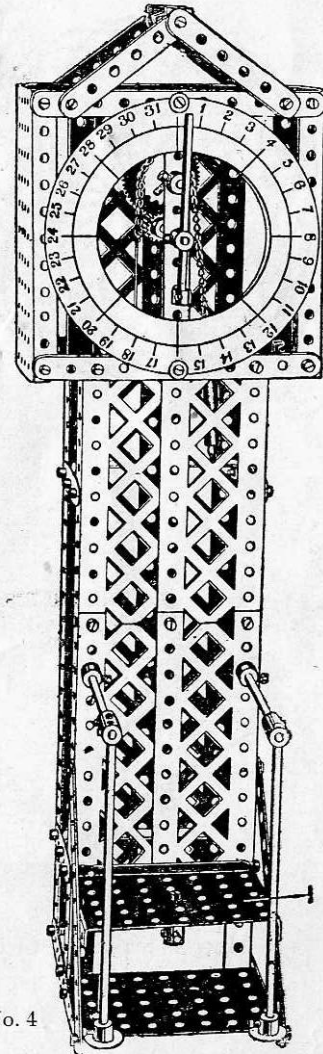
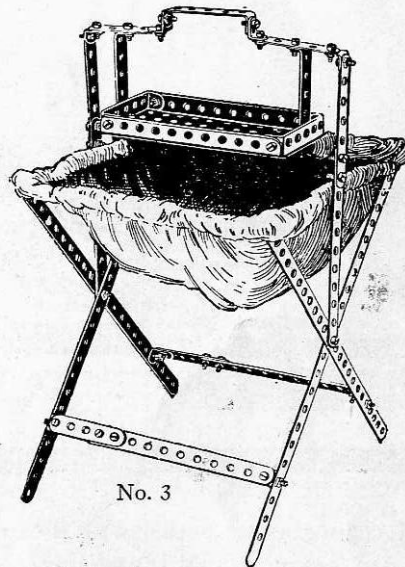
No. 4 is a type of Weighing Machine which will be familiar to every boy. It works perfectly, and can be adjusted to weigh correctly.

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

No. 2

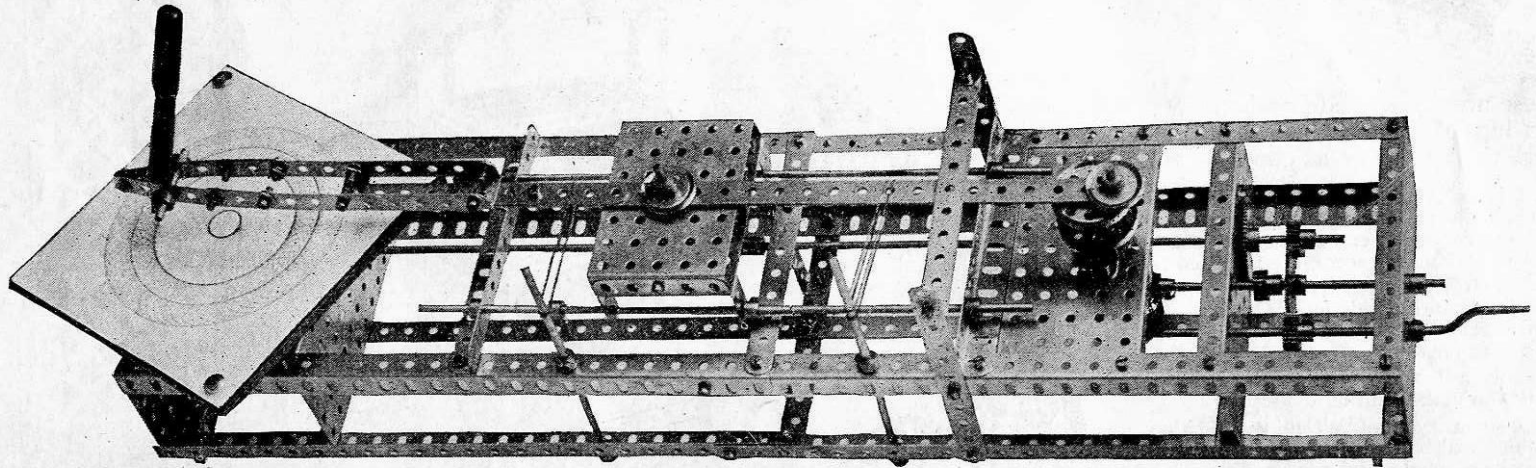
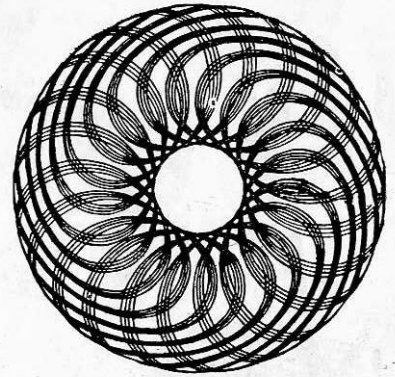
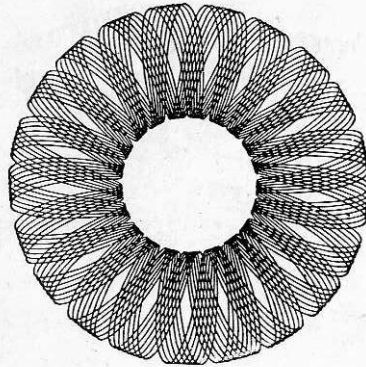
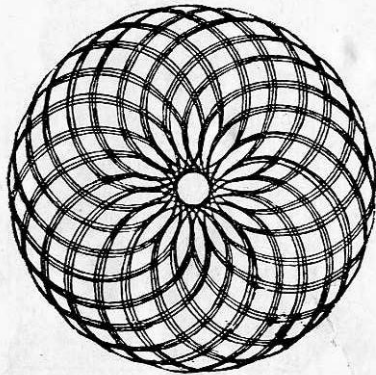


No. 3



No. 4

Meccanograph Another Fine Special Model



Here is a picture of the Meccanograph together with illustrations of the wonderful designs which the machine will draw.
Any boy can build it and there is no end to the designs it will make.

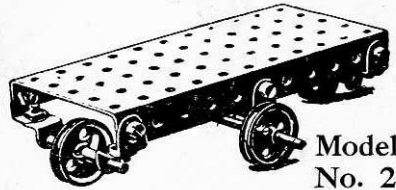
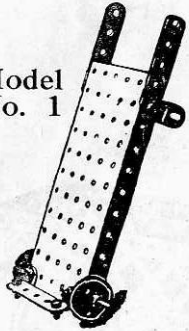
HOW TO BUILD WITH MECCANO

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 different ways. Screw them all up tightly 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 large wheels shown in some of the illustrations 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 wheels may be used instead.

Trucks and Baggage Carts

Model
No. 1

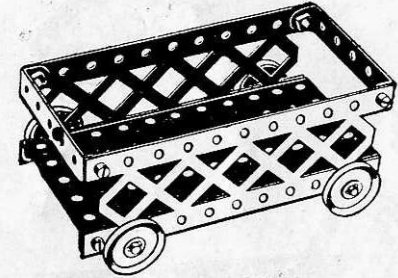
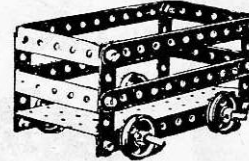


Model
No. 2



Fig. 2A

Model No. 3

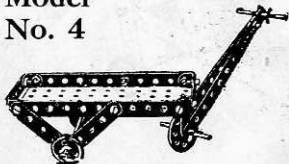


*Model No. 3 with
new Braced Girder*

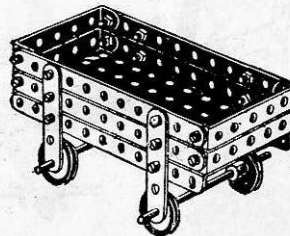
In a Revolver Truck Model No. 2 the two end wheels are always raised just a little higher than the two centre wheels with a moderate amount of play on the axles, so that the Truck may be quickly revolved upon the centre wheels.

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.

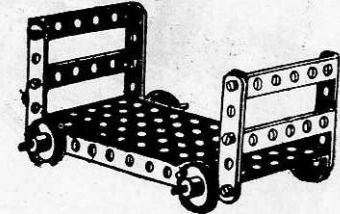
Model
No. 4



Model
No. 5

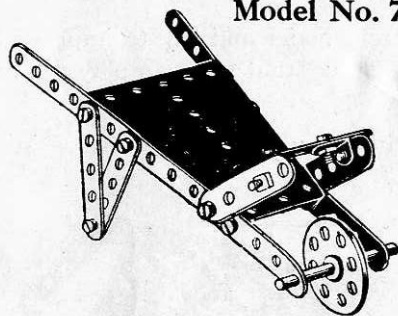


Model No. 6

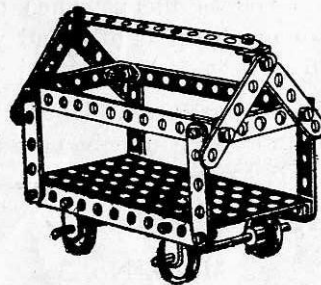


Trucks and Baggage Carts

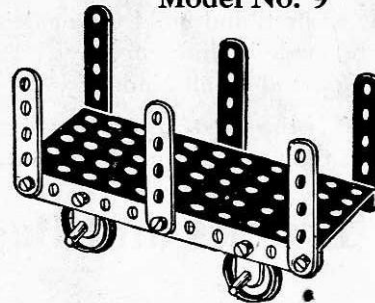
Model No. 7



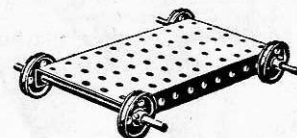
Model No. 8



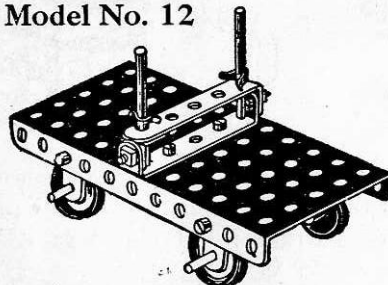
Model No. 9



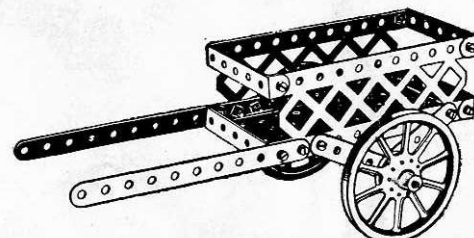
Model No. 10



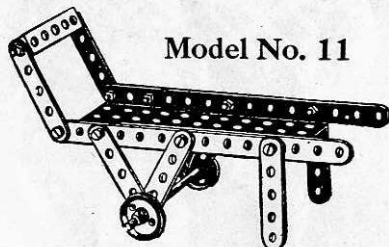
Model No. 12



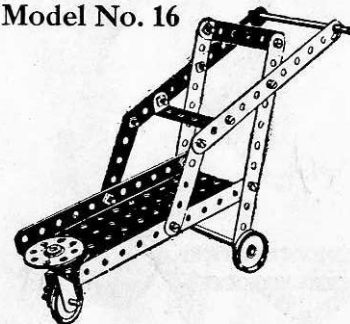
*Model No. 13



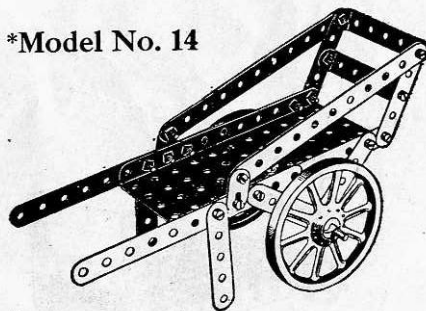
Model No. 11



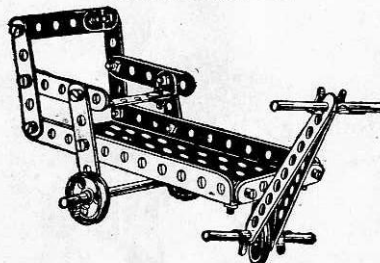
Model No. 16



*Model No. 14

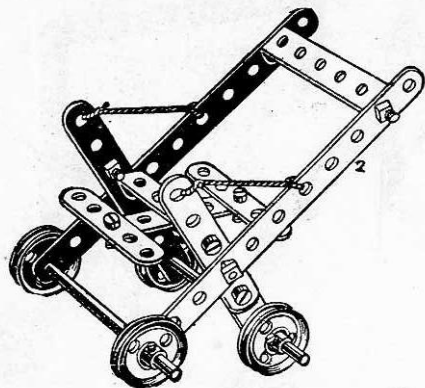


Model No. 15

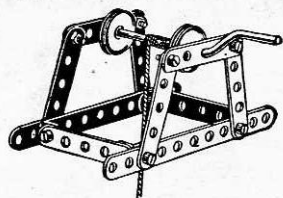


*See note, page 7.

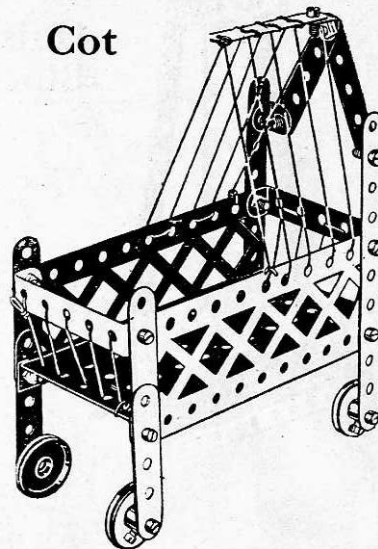
Model No. 17
Go Chair



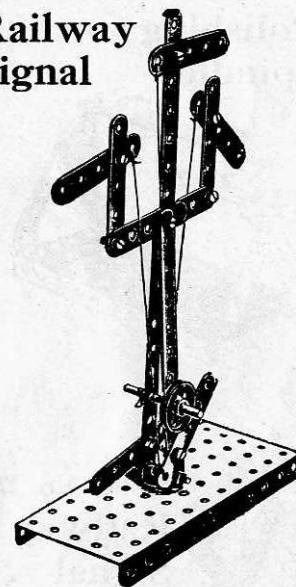
Model No. 18
Well Windlass



Model No. 19
Cot

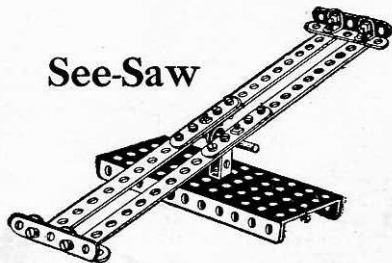


Model No. 20
Railway Signal

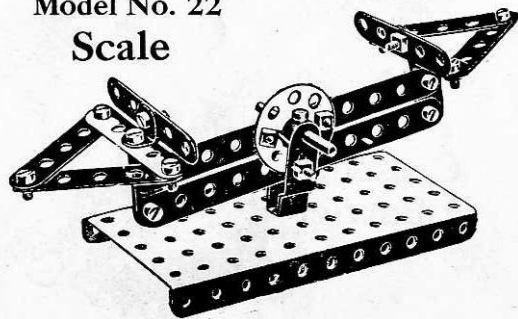


Model No. 21

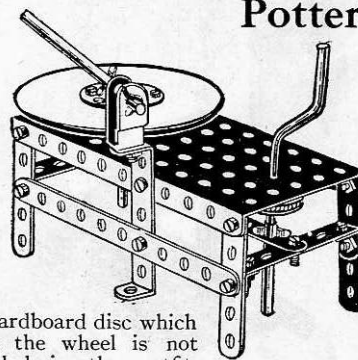
See-Saw



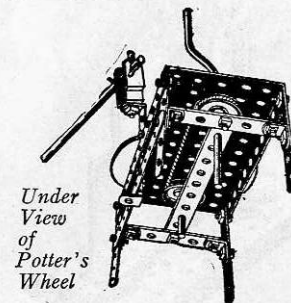
Model No. 22
Scale



Model No. 23
Potter's Wheel

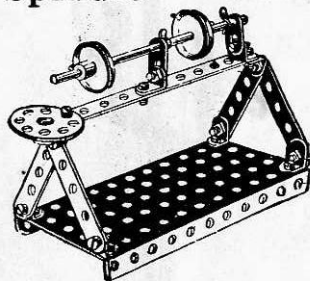


The cardboard disc which forms the wheel is not provided in the outfit.

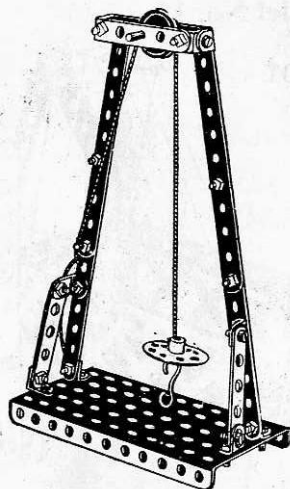


Under View of Potter's Wheel

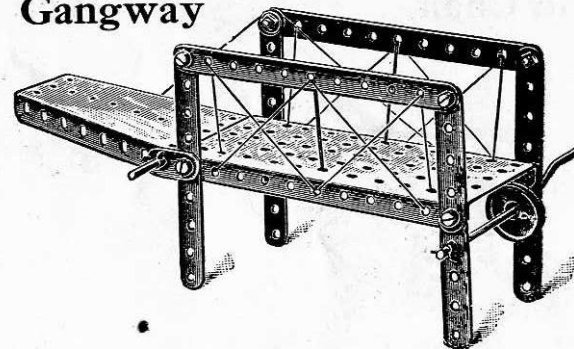
Model No. 24
Polishing
Spindle



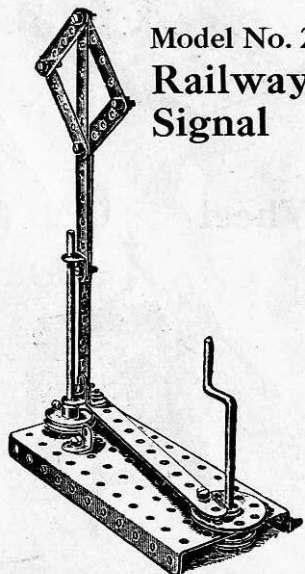
Model No. 25
Hoisting
Block



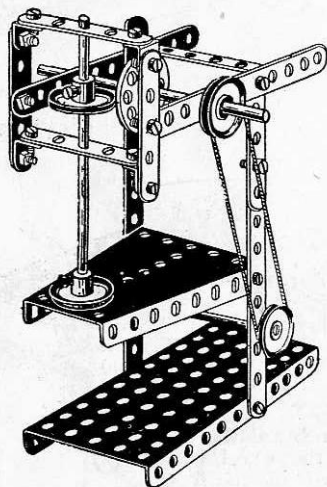
Model No. 26
Gangway



Model No. 27
Railway
Signal

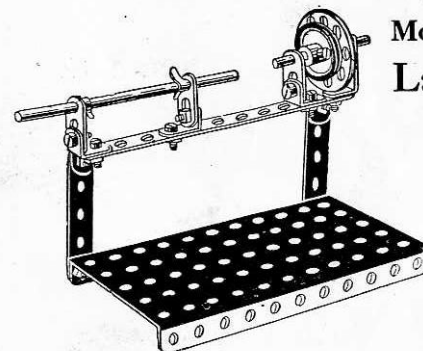


Model No. 28
Drop Stamp

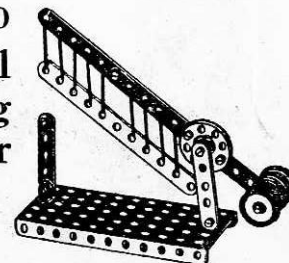


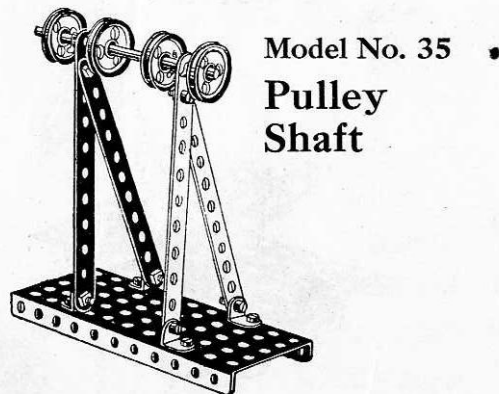
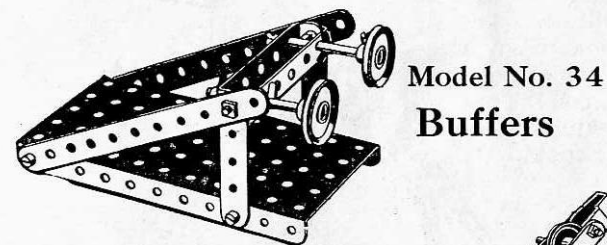
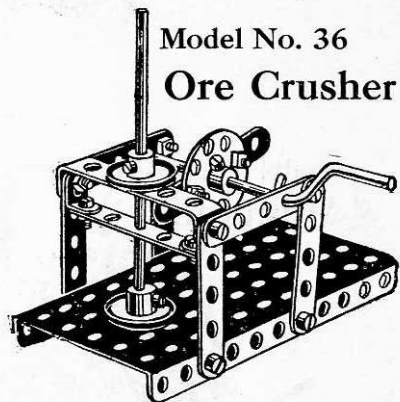
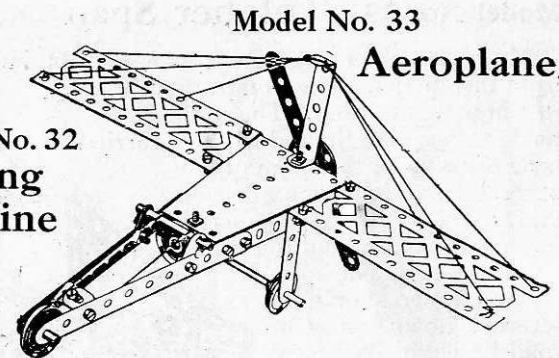
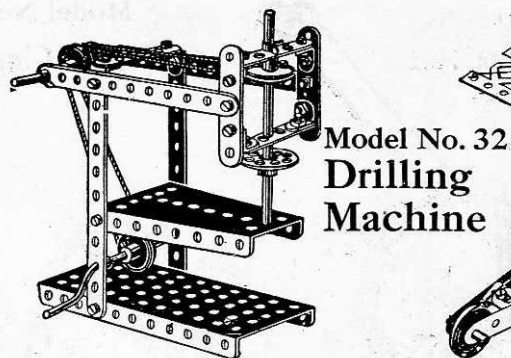
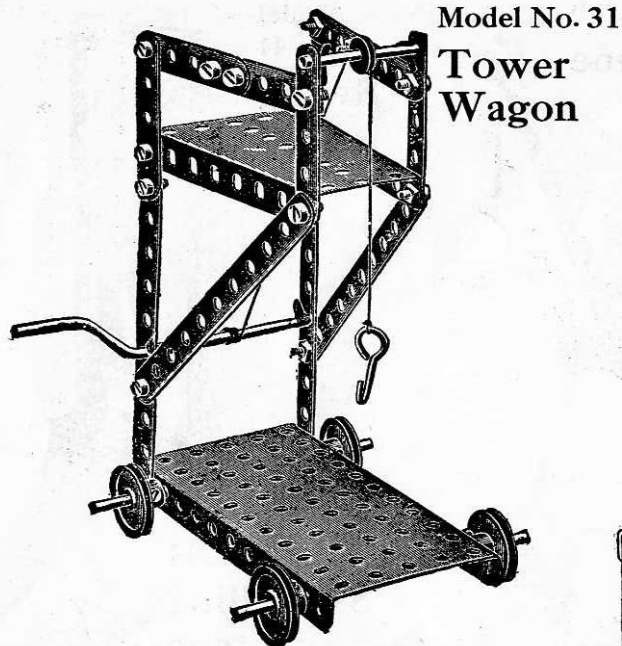
The stamp of this model is raised and dropped by a $2\frac{1}{2}$ " strip attached to a bush wheel.

Model No. 29
Lathe



Model No. 30
Level
Crossing
Barrier

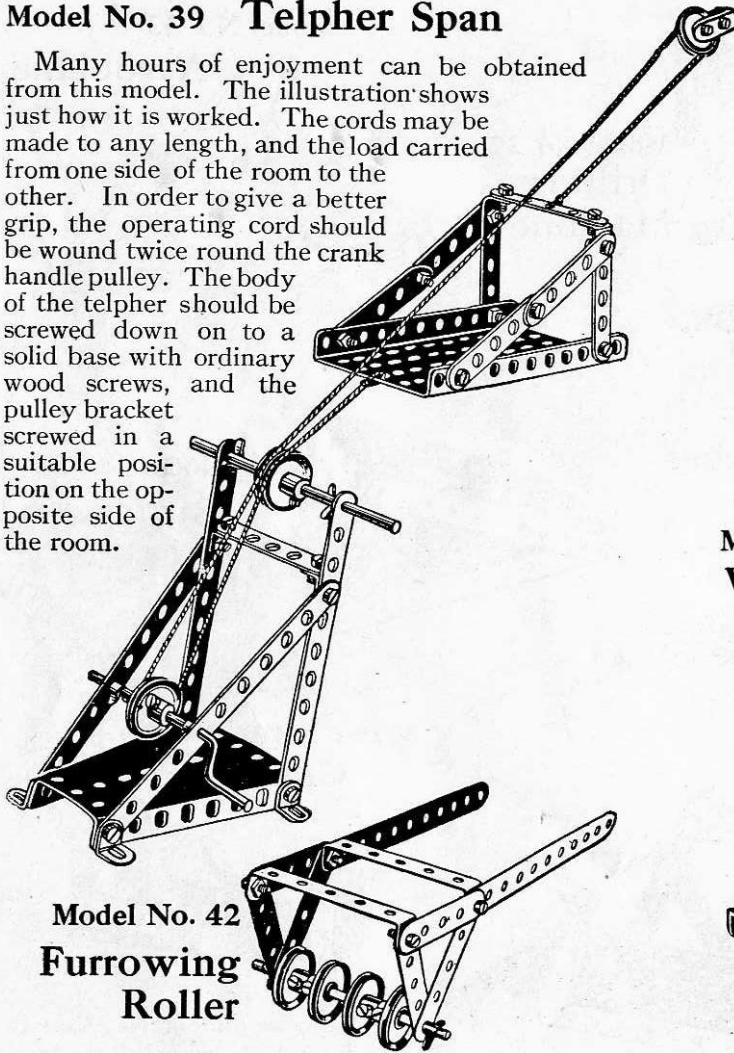




The sector plate of the Crane in this model is pivoted to the base.

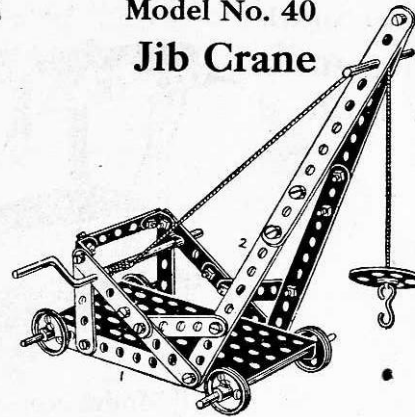
Model No. 39 Telpher Span

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

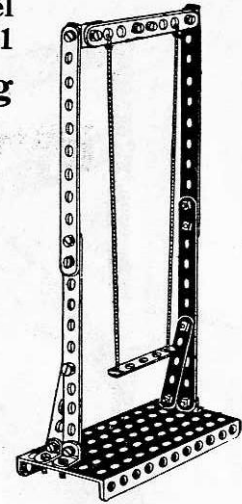
Model No. 40 Jib Crane



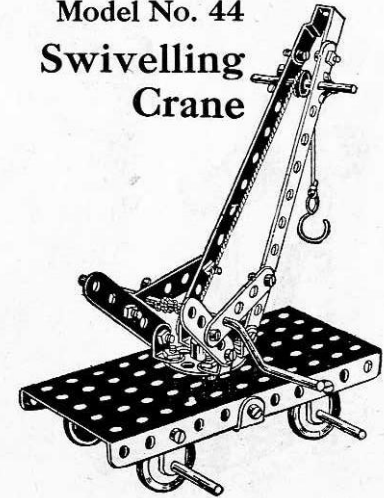
Model No. 43 Windmill



Model No. 41 Swing



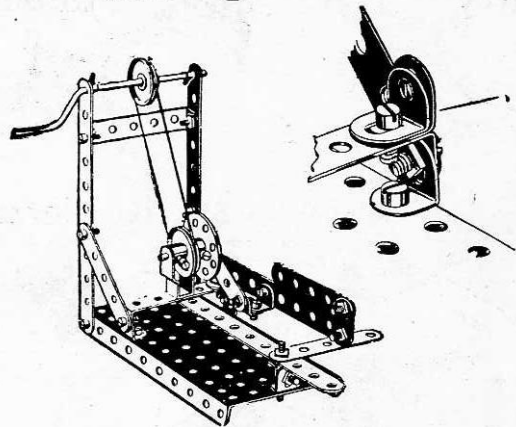
Model No. 44 Swivelling Crane



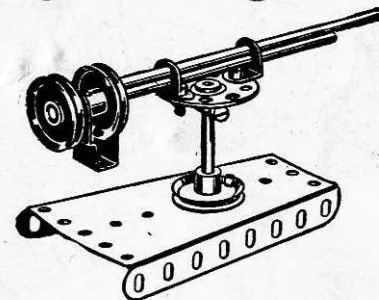
**Model No. 45
Anti-Aircraft
Gun**



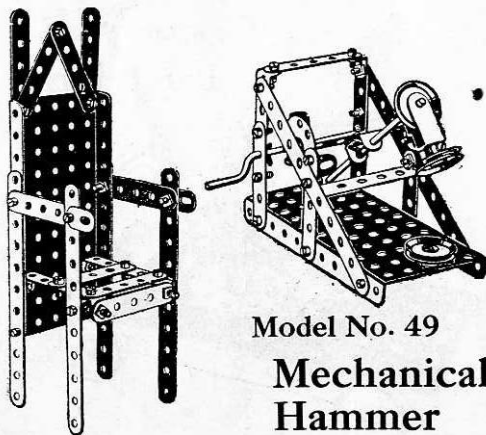
**Model No. 46
Sawing Machine**



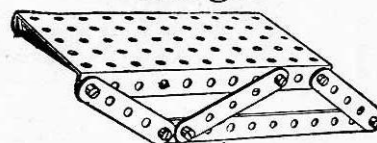
**Model No. 47
Quick-Firing Gun**



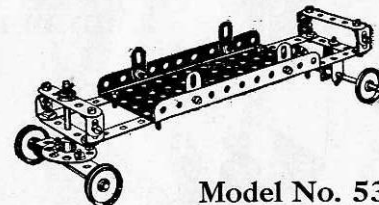
**Model No. 48
Coronation Chair**



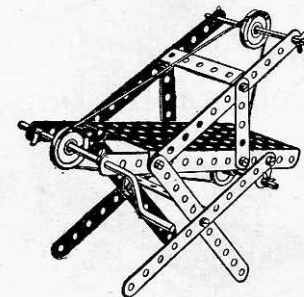
**Model No. 50
Sleigh**



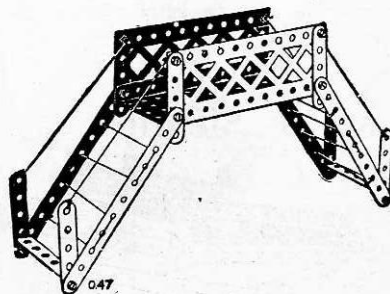
**Model No. 51
Boiler Truck**



**Model No. 53
Band Saw**



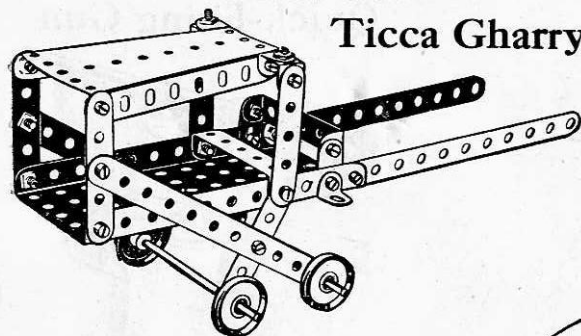
**Model No. 52
High Level
Bridge**



**Model No. 49
Mechanical
Hammer**

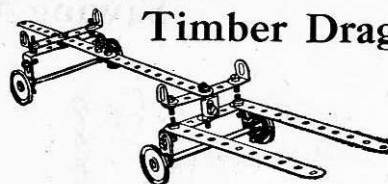
Model No. 54

Ticca Gharry

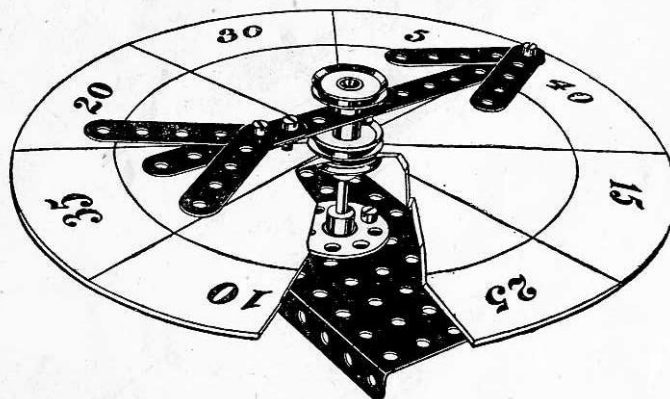


Model No. 55

Timber Drag

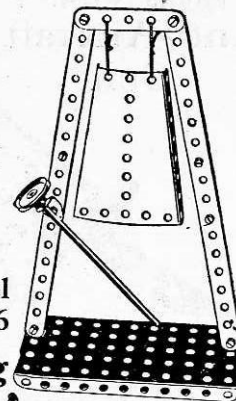


Model No. 57 **Roulette**



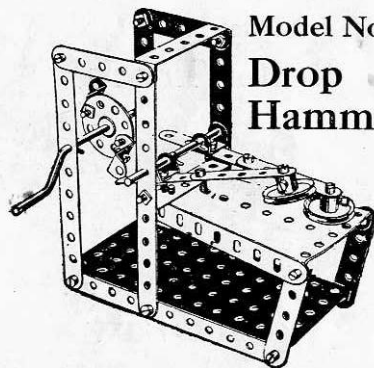
Cut out a circular piece of cardboard and mark as shown to form scoring board. This is clamped between two 1" pulley wheels. The pointer revolves freely on the upright spindle and is held in position by another 1" pulley wheel.

Model
No. 56
Gong



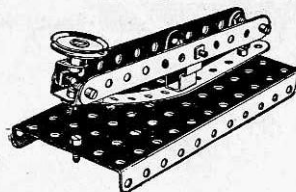
Model No. 58

**Drop
Hammer**

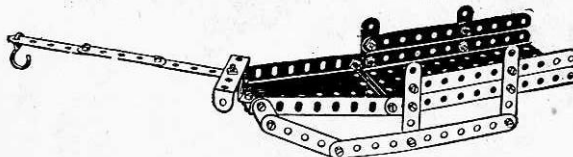


Model No. 59

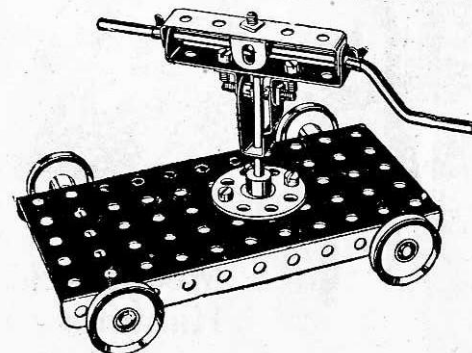
Telegraph Code Key



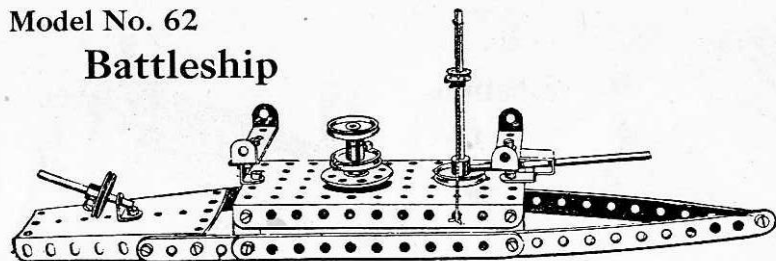
Model No. 60 **Sleigh**



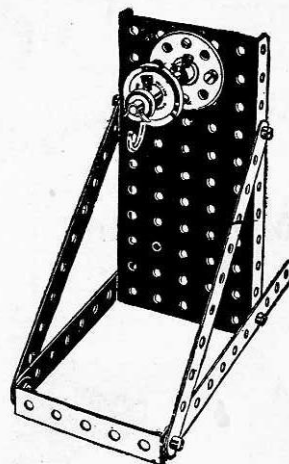
Model No. 61
Rock Drill



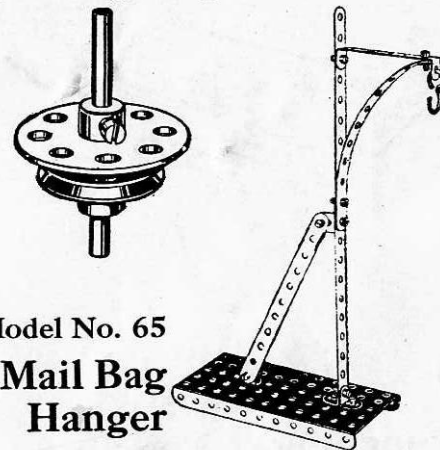
Model No. 62
Battleship



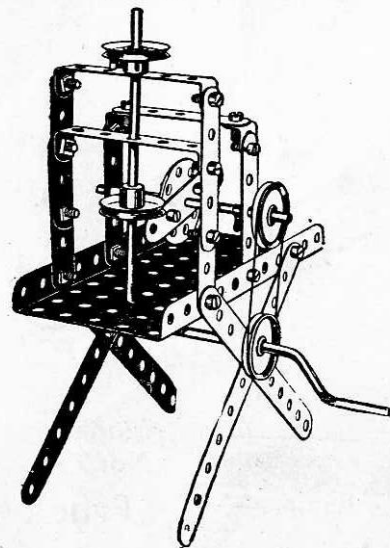
Model No. 63
Watch Stand



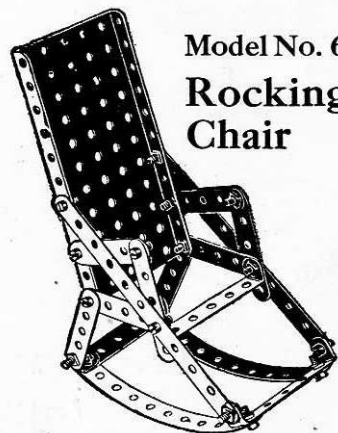
Model No. 64
Spinning Top



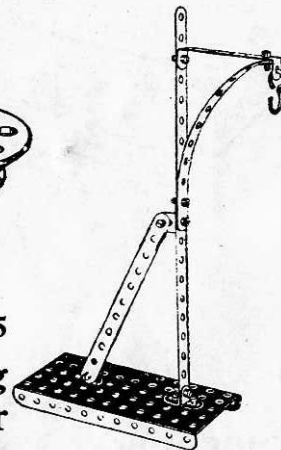
Model No. 66
Stamping Machine



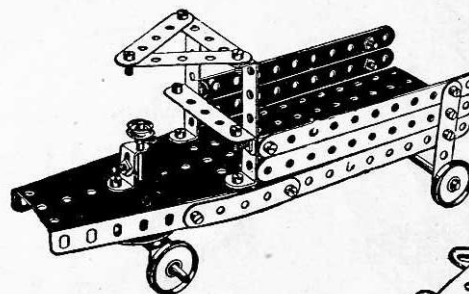
Model No. 67
Rocking Chair



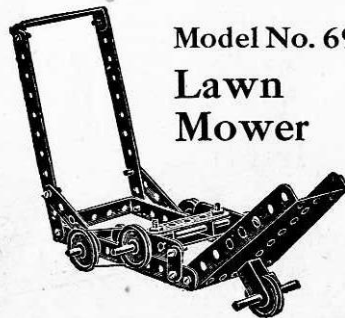
Model No. 65
Mail Bag Hanger



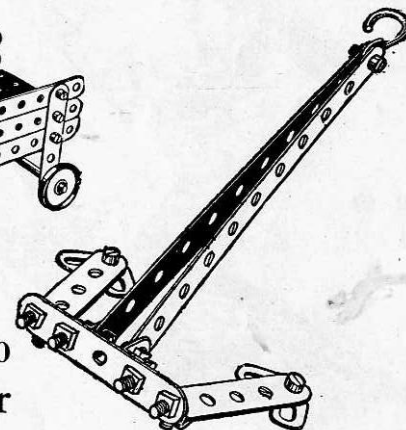
Model No. 68 **Motor Lorry**



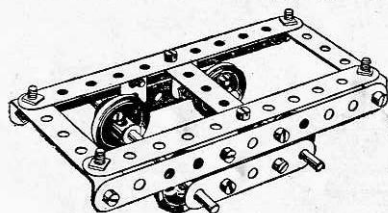
Model No. 69
Lawn Mower



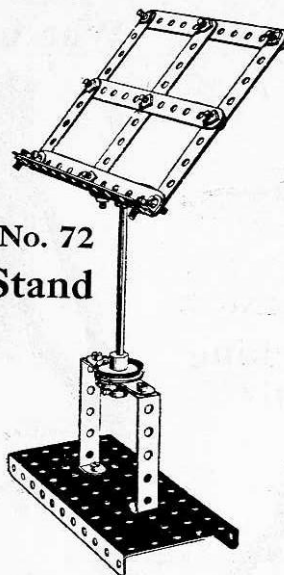
Model No. 70
Anchor



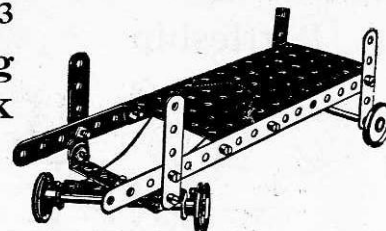
Model No. 71 Bogey Car



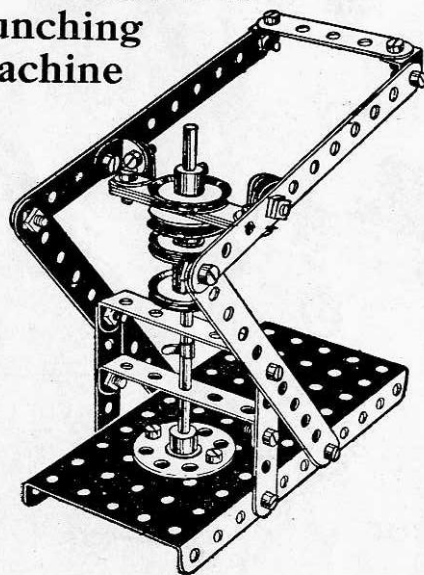
**Model No. 72
Music Stand**



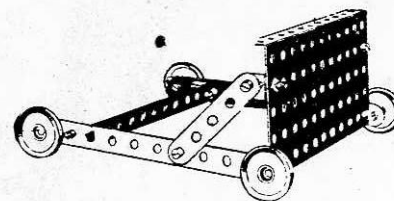
**Model No. 73
Steering
Truck**



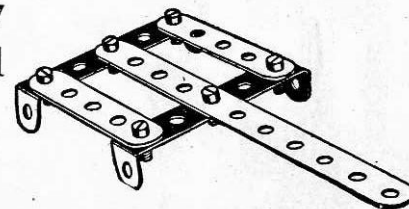
**Model No. 75
Punching
Machine**



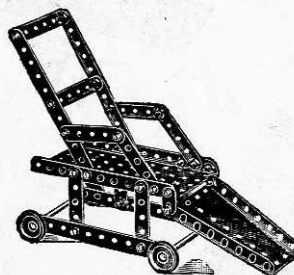
**Model No. 74
Devil
Wall**



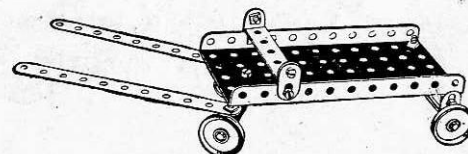
**Model No. 77
Grill**



**Model No. 76
Invalid Chair**



**Model
No. 78
Truck**



MECCANO

REGISTERED

FRANK HORNBY'S ORIGINAL SYSTEM FIRST PATENTED 1901

American Patents and Designs

810,148	January	16, 1906
1,079,245	November	18, 1913
1,161,131	November	23, 1915
1,166,688	January	4, 1916
49,308	July	4, 1916

Canadian Patents and Designs

151,243	October	21, 1913
156,296	June	16, 1914
158,101	September	29, 1914

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	No.	Cents	No.	Cents
1. Perforated Strips, 12½" long ..	½ doz. 30	22A. 1" diam., without set screw ..	each 05	52. Perforated Flanged Plate, 5½" x 2½" ..	each 20
2. " " 5½" " ..	" 18	23. ½" " " " " " ..	" 05	53. " " " " 3½" x 2½" ..	" 15
3. " " 3½" " ..	" 15	23A. ½" " with " " " " ..	" 10	54. Perforated Sector Plate ..	" 15
4. " " 3" " ..	" 15	24. Bush Wheels ..	" 15	56. Manual of Instructions ..	" 35
5. " " 2½" " ..	" 10	25. Pinion Wheels, ¾" diam. 24 teeth ..	" 15	56A. Meccanograph Manual of Instructions ..	" 25
6. " " 2" " ..	" 10	26. " " ½" " 20 teeth ..	" 10	57. Hooks ..	" 01
8. Angle Girders, 12½" long ..	" 45	27. Gear Wheels, 50 teeth to gear with ¾" pinion ..	" 25	58. Spring Cords, per length ..	" 20
9. " " 5½" " ..	" 30	27A. Gear Wheels, 56 teeth to gear with ½" pinion ..	" 30	59. Collars and Set Screws ..	" 05
10. Flat Brackets ..	" 05	28. Contrate Wheels, 1½" diam. ..	" 40	60. Bent Strips, 2½" long ..	per ½ doz. 15
11. Double Brackets ..	each 03	29. " " ¾" " ..	" 25	61. Windmill Sail ..	each 05
12. Angle Brackets ..	doz. 10	32. Worm Wheels ..	" 20	62. Crank ..	" 10
13. Silver Steel Axle Rod, 11½" long ..	each 05	33. Pawls ..	" 05	63. Coupling ..	" 10
13A. Axle Rods, 8" long ..	" 05	34. Spanners ..	" 10	65. Centre Fork ..	" 05
14. " " 6" " ..	" 03	35. Spring Clips ..	per box (doz.) 10	94. Sprocket Chain, per yard ..	" 15
15. " " 5" " ..	" 03	36. Screw Drivers ..	each 10	95. Sprocket Wheel, 2" diam. ..	" 20
15A. " " 4½" " ..	" 03	37. Nuts and Bolts ..	per box (doz.) 10	96. " " 1" " ..	" 15
16. " " 3½" " ..	" 03	37A. Nuts.. ..	" 05	99. Braced Girders, 12½" long ..	½ doz. 50
17. " " 2" " ..	" 02	38. Washers ..	doz. 05	100. " " 5½" " ..	" 35
18A. " " 1" " ..	" 02	40. Hanks of Cord.. ..	each 03	101. Healds ..	for Looms, doz. 30
19. Crank Handles ..	" 05	41. Propeller Blades ..	per pair 15	102. Single Bent Strip ..	each 05
19A. Wheels, 3" diam. ..	" 25	43. Spring ..	each 05	103. Perforated Flat Girder Strip, 5½" long ..	" 05
20. Flanged and Grooved Wheels ..	" 20	44. Cranked Bent Strip ..	" 05	104. Shuttle ..	" 50
Pulley Wheels		45. Double Bent Strip ..	" 05	105. Reed Hook ..	" 05
20A. 2" diam., with set screw ..	" 20	46. Large Bent Strip ..	" 05	106. Roller ..	" 10
21. 1½" " " " ..	" 15	47A. Dynameters (tension) ..	" 1.50	S1. Spring Motor ..	" 2.50
22. 1" " " " ..	" 10	50. Eye Piece ..	" 05	E1. Electric Motor ..	" 1.50
				E2. " " " " ..	" 3.00

SEE REVISED PRICE LIST

January 1st, 1917

Revised Price List

No. 0.	Meccano Outfit	..	..	..	..	..	..	\$1.50
No. 1.	.. ..	..	..	..	..	..	..	3.00
No. 1X.	.. ..	..	..	..	..	..	..	4.50
No. 2.	.. ..	..	..	..	..	..	..	6.00
No. 2X.	.. ..	..	..	..	..	..	..	7.50
No. 3.	.. ..	..	..	..	..	..	..	9.00
No. 3X.	.. ..	..	..	..	..	..	..	12.00
No. 4.	.. ..	..	..	..	..	..	..	15.00
No. 5.	.. ..	Packed in neat and well-made cardboard box				..	..	20.00
Do.	..	Presentation Outfit	..	..	..	..	..	25.00
		Packed in well-made wood box with lock and key						
No. 6.	.. ..	..	Ditto	Ditto	..	..	..	45.00
No. 0A.	Meccano Accessory Outfit	(containing sufficient parts to convert a Meccano No. 0 into a No. 1 Outfit)				..	..	\$1.50
No. 1A.	.. ..	(containing sufficient parts to convert a No. 1 into a No. 2 Outfit)				..	..	3.00
No. 2A.	.. ..	(containing sufficient parts to convert a No. 2 into a No. 3 Outfit)				..	..	3.00
No. 3A.	.. ..	(containing sufficient parts to convert a No. 3 into a No. 4 Outfit)				..	..	6.00
No. 4A.	.. ..	(containing sufficient parts to convert a No. 4 into a No. 5 Outfit)				..	..	5.00
		Packed in neat and well-made cardboard box						
No. 5A.	.. ..	(containing sufficient parts to convert a No. 5 into a No. 6 Outfit)				..	..	20.00
		Packed in neat and well-made cardboard box						
Do.	.. ..	Packed in well-made wood box with lock and key				..	..	25.00
Meccano Inventors' Accessory Outfit		..	..	..	..	..	..	3.00

N. B.—Accessory Outfits do not contain motors

Prices of Meccano Accessory Parts

No.	Cents	No.	Cents	No.	Cents
1. Perforated Strips, 12½" long .. ½ doz.	45	23A. Pulley Wheels, ½" diam., with set screw each	10	52. Perforated Flanged Plate, 5½" x 2½" each	25
2. " " 5½" " .. " "	25	24. Bush Wheels "	15	53. Perforated Flanged Plate, 3½" x 2½" "	20
3. " " 3½" " .. " "	20	25. Pinion Wheels, ¾" diam., 25 teeth ..	25	54. Perforated Sector Plate "	20
4. " " 3" " .. " "	20	26. " " ½" " 20 teeth ..	15	56. Manual of Instructions "	35
5. " " 2½" " .. " "	15	27. Gear Wheels, 50 teeth to gear with ¾" pinion "	30	56A. Meccanograph Manual of Instructions "	25
6. " " 2" " .. " "	15	27A. Gear Wheels, 56 teeth to gear with ½" pinion "	35	57. Hooks "	01
8. Angle Girders, 12½" long "	60	28. Contrate Wheels, 1½" diam. "	50	57A. Hook (Scientific) "	01
9. " " 5½" " "	45	29. " " ¾" " "	30	58. Spring Cords, per length "	30
10. Flat Brackets "	05	32. Worm Wheels "	25	59. Collars and Set Screws "	05
11. Double Brackets each	03	33. Pawls "	05	60. Bent Strips, 2½" long per ½ doz.	20
12. Angle Brackets doz.	10	34. Spanners "	10	61. Windmill Sail each	10
13. Silver Steel Axle Rod, 11½" long each	10	35. Spring Clips per box (doz.)	15	62. Crank "	15
13A. Axle Rods, 8" long "	10	36. Screw Drivers each	10	63. Coupling "	15
14. " " 6" " "	05	37. Nuts and Bolts per box (doz.)	12	65. Centre Fork "	10
15. " " 5" " "	05	37A. Nuts "	05	94. Sprocket Chain, per yard "	25
15A. " " 4½" " "	05	38. Washers doz.	05	95. Sprocket Wheel, 2" diam. each	25
16. " " 3½" " "	05	40. Hanks of Cord each	03	96. " " 1" " "	20
17. " " 2" " "	02	41. Propeller Blades per pair	15	99. Braced Girders, 12½" long per ½ doz.	75
18A. " " 1" " "	02	43. Spring each	05	100. " " 5½" " " " " "	50
19. Crank Handles "	10	44. Cranked Bent Strip "	05	101. Healds for Looms doz.	45
19A. Pulley Wheels, 3" with set screw ..	25	45. Double Bent Strip "	05	102. Single Bent Strip for Looms each	05
20. Flanged and Grooved Wheels "	25	46. Large Bent Strip "	05	103. Perforated Flat Girder Strip, 5½" long "	10
20A. Pulley Wheels, 2" diam., with set screw "	20	47. Dynamometer, tension and compression (combined) "	2.50	104. Shuttle "	50
21. Pulley Wheels, 1½" diam., with set screw "	20	47A. Dynamometer (tension) "	1.50	105. Reed Hook "	05
22. Pulley Wheels, 1" diam., with set screw "	10	49. Disc Weights, 20 grms. "	15	106. Roller "	10
22A. Pulley Wheels, 1" diam., without set screw "	05	49A. " " 25 " "	15	S1. Spring Motor "	3.00
23. Pulley Wheels, ½" diam., without set screw "	03	49B. " " 50 " "	20	E1. Electric Motor "	2.00
		50. Eye Piece "	05	E2. " " "	4.00
				Transformer "	2.00

Contents of No. 0 Outfit

[illegible]

No. 0.	Meccano Outfit							\$1.00
No. 1.	" "							2.00
No. 1X.	" "							3.00
No. 2.	" "							4.00
No. 2X.	" "							5.00
No. 3.	" "							6.00
No. 3X.	" "							7.50
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 wood box with lock and key						
No. 6.	" "	Ditto Ditto						36.00
<hr/>								
No. 0A.	Meccano Accessory Outfit	(containing sufficient parts to convert a Meccano No. 0 into a No. 1 Outfit)						\$1.00
No. 1A.	" "	(containing sufficient parts to convert a No. 1 into a No. 2 Outfit) ..						2.00
No. 2A.	" "	(containing sufficient parts to convert a No. 2 into a No. 3 Outfit) ..						2.00
No. 3A.	" "	(containing sufficient parts to convert a No. 3 into a No. 4 Outfit) ..						4.00
No. 4A.	" "	(containing sufficient parts to convert a No. 4 into a No. 5 Outfit) ..						4.00
		Packed in neat and well-made cardboard box						
No. 5A.	" "	(containing sufficient parts to convert a No. 5 into a No. 6 Outfit) ..						13.00
		Packed in neat and well-made cardboard box						
Do.	" "	Packed in well-made wood box with lock and key						18.00
Meccano Inventors' Accessory Outfit								2.00