

# MECCANO

(PATENTED)

## INSTRUCTIONS

FOR THE NO. 0 OUTFIT

PRICE 15 CENTS

Two Minds with but  
a Single Thought

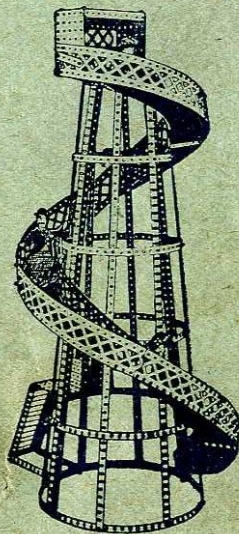
NO. 0  
MECCANO OUTFIT



# 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 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 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 FULL MECCANO MANUAL OF INSTRUCTIONS CONTAINS  
HUNDREDS OF PRIZE-WINNING MODELS.  
GET YOUR COPY AT ONCE.

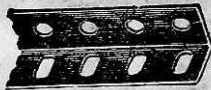


# MECCANO PRICE LIST

No. 0	Meccano Outfit	....\$1.50	No. 3X Meccano Outfit	...\$11.50	0A Accessory	.....\$1.50	Inventor's A	.....\$3.00
1	"	.... 3.00	4	"	.... 15.00	1A	"	..... 3.00
1X	"	.... 5.50	5	"	.... 20.00	2A	"	..... 3.00
2	"	.... 6.00	5X	"	.... 26.00	3A	"	..... 6.00
2X	"	.... 8.50	6	"	.... 40.00	4A	"	..... 5.00
3	"	.... 9.00				5A	"	..... 20.00
								Transformer ..... 3.25
								(110 a. c. 60 cycles)



Part No.		Cents
1.	Perf. Strip, 12½" long (½ doz.)	45
2.	" " 5½" "	25
3.	" " 3½" "	20
4.	" " 3 " "	20
5.	" " 2½" "	15
6.	" " 2 " "	15
6A.	" " 1½" "	15



7.	Angle Girders, 24½" long, each	25
7A.	" " 18½" " "	20
8.	" " 12½" " ½ doz.	60
9.	" " 5½" " "	45



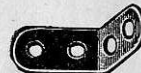
10.	Flat Brackets	..... ½ doz.	05
-----	---------------	--------------	----



11.	Double Brackets	..... each	03
-----	-----------------	------------	----



12.	Angle Brackets	..... doz.	12
-----	----------------	------------	----



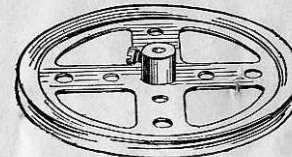
12A.	Angle Brackets, 1"	..... each	05
------	--------------------	------------	----



13.	Axle Rod, 11½" long	..... each	10
13A.	" " 8" "	..... " "	10
14.	" " 6" "	..... " "	5
15.	" " 5" "	..... " "	5
15A.	" " 4½" "	..... " "	5
16.	" " 3½" "	..... " "	5
17.	" " 2" "	..... " "	2
18A.	" " 1" "	..... " "	2



19.	Crank Handles	..... each	10
-----	---------------	------------	----

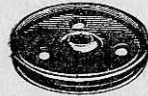


19A.	Pulley Wheel, 3" diam. with centre boss and set screw,	each	25
------	--	------	----

19B.	Wagon Wheels, 3" diam. ....	"	20
------	-----------------------------	---	----



20.	Flanged Wheel	..... each	25
-----	---------------	------------	----



- 20A. Pulley Wheel, 2" diam. with set screw ..... each 20  
 21. Pulley Wheel, 1½" diam. with set screw ..... " 20  
 22. Pulley Wheel, 1" diam. with set screw ..... " 10  
 22A. Pulley Wheel, 1" diam. without set screw ..... " 05  
 23. Pulley Wheel, ½" diam. without set screw ..... " 05  
 23A. Pulley Wheel, ½" diam. with set screw ..... " 10



24. Bush Wheel ..... each 15



25. Pinion Wheel, ¾" diam. .. each 25  
 26. " " ½" " " 15



27. Gear Wheel, 50 teeth (to gear with ¾" pinion) ..... each 30  
 27A. Gear Wheel, 56 teeth (to gear with ½" pinion) ..... " 35



28. Contrate Wheel, 1½" diam., each 50  
 29. " " ¾" " " 30



32. Worm Wheel ..... " 25



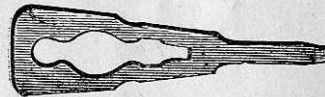
33. Pawl ..... " 05



34. Spanner ..... " 10



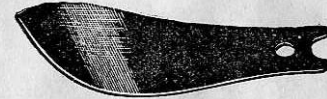
35. Spring Clip, per box ..... doz. 15



36. Screw Driver ..... each 10



37. Nuts and Bolts, per box .... doz. 15  
 37A. Nuts, per box ..... " 05  
 38. Washers ..... " 05  
 40. Hank of Cord ..... each 05



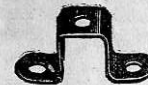
41. Propeller Blades ..... per pair 15



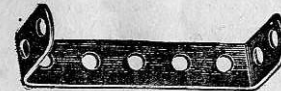
43. Spring ..... each 05



44. Cranked Bent Strip ..... " 05



45. Double Bent Strip ..... " 05



46. Large Bent Strip ..... " 05

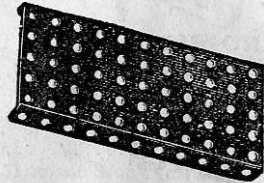




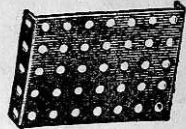
47A. Dynamometer (tension) .... each 1.50



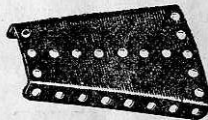
50. Eye Piece ..... " .05



52. Perf. Flanged Plate,  $5\frac{1}{2}" \times 2\frac{1}{2}"$  " 25



53. Perf. Flanged Plate,  $3\frac{1}{2}" \times 2\frac{1}{2}"$  " 20



54. Perforated Sector Plate ..... " 20

56. Manual of Instructions ..... " 35

56A. Instruction Manual, No. 2 ... " 35



57. Hook ..... " 02

57A. Hook (Scientific) ..... " 02



58. Spring Cord, per length .. each 30



59. Collar and Set Screw ..... " 05

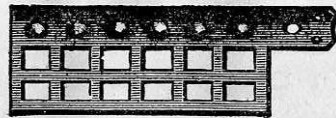


60. Bent Strip,  $2\frac{1}{2}"$  long ....  $\frac{1}{2}$  doz. 20

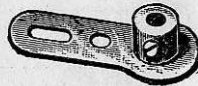
60A. Double Angle Strip,  $1\frac{1}{2}"$  long " 18

60B. Bent Strip,  $3\frac{1}{2}"$  long .... " 25

60C. " "  $5\frac{1}{2}"$  " .... " 36



61. Windmill Sail ..... each 10

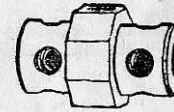


62. Crank ..... " 15

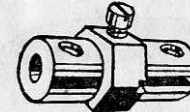
62A. Threaded Crank ..... " 15



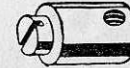
63. Coupling ..... " 15



63A. Octagonal Coupling ..... each 20



63B. Strip Coupling ..... " 20



64. Threaded Boss ..... " 06

65. Centre Fork ..... " 10

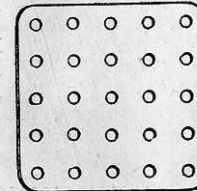
66. Weight, 50 grms. .... " 20

67. " 25 " ..... " 15

68. Wood Screws,  $\frac{1}{2}"$  ..... doz. 10

69. Set Screws ..... " 10

69A. Grub Screws ..... " 10



70. Flat Plates,  $5\frac{1}{2}" \times 2\frac{1}{2}"$  ..... each 15

72. " "  $2\frac{1}{2}" \times 2\frac{1}{2}"$  ..... " 10

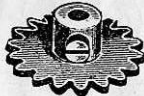




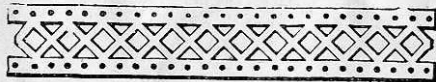
80. Screwed Rods, 5" ..... each 15  
 81. " " 2" ..... " 10  
 82. " " 1" ..... " 05



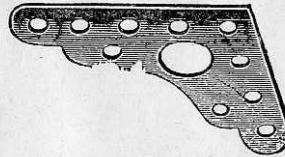
90. Curved Strip, 2½" ..... ½ doz. 25  
 94. Sprocket Chain ..... per yard 25



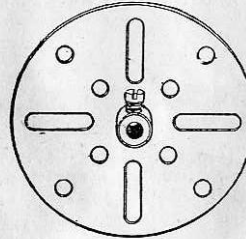
95. " Wheel, 2" ..... each 25  
 96. " " 1" ..... " 20



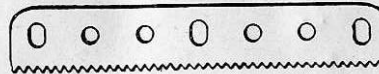
97. Braced Girder, 3½" long .. ½ doz. 20  
 98. " " 2½" " .. " 15  
 99. " " 12½" " .. " 75  
 100. " " 5½" " .. " 50  
 101. Healds for Looms ..... doz. 45  
 102. Single Bent Strip for Looms, each 05  
 103. Perforated Flat Girder Strip,  
     5½" long ..... " 10  
 104. Shuttle ..... each 50  
 105. Reed Hook ..... " 05  
 106. Roller ..... " 15  
 107. Tables for Designing Machines " 25



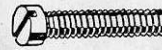
108. Architraves ..... each 09



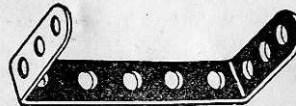
109. Face Plate ..... " 20



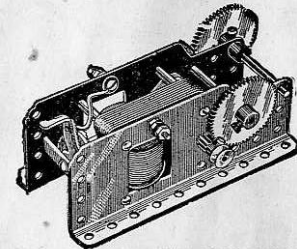
110. Rack Strip, 3½" ..... " 10



111. Bolt, ¾" ..... " 02



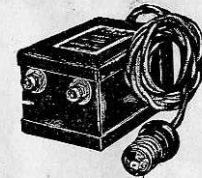
112. Double Angle Strip, 2½"x1½" " 06  
 Brushes and Springs for Electric  
 Motor ..... per pair 40



### MECCANO ELECTRIC MOTORS

The best way to operate Meccano models. Side plates are perforated with equidistant holes so that motor can be built into model.

- E1 Non-reversing ..... \$3.00  
 E2 With reverse lever and extra gears 4.50



### TRANSFORMER

For alternating current only. Specially designed for Meccano motor.

Transformer for 110 a. c. 60 cycles ... \$3.25

### SPRING MOTOR

No. 1 ..... \$3.00

Ask your dealer for outfits and parts. If he cannot supply you, send money order or stamps direct to Meccano Company, Inc., 46 West 24th St., New York City, and we will ship postage prepaid, providing order is not less than \$1.00.



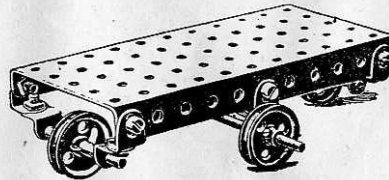
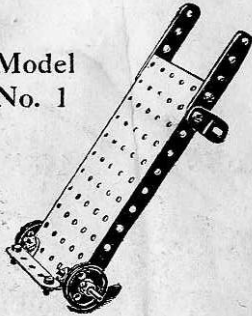
# HOW TO BUILD WITH MECCANO

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

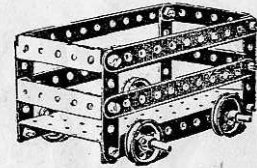


Model No. 2



Fig. 2A

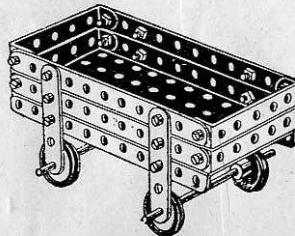
Model No. 3



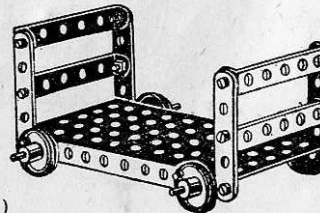
In a Revolver Truck (Model No. 2) the two end wheels are always raised just a little higher than the two centre wheels with a moderate amount of play on the axles, so that the Truck may be quickly revolved upon the centre wheels.

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

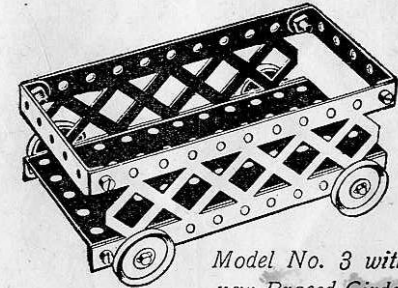
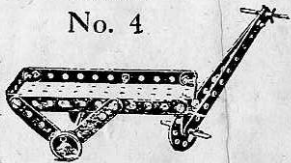


Model No. 6



(7)

Model  
No. 4

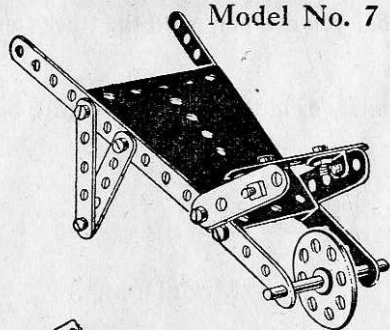


Model No. 3 with  
new Braced Girder

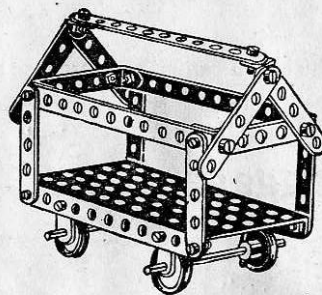


# Trucks and Luggage Carts *(continued)*

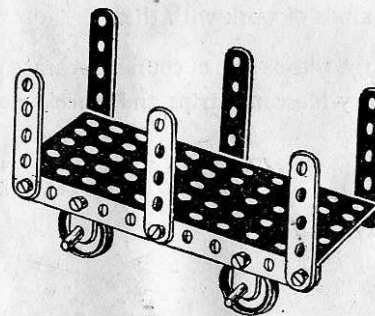
Model No. 7



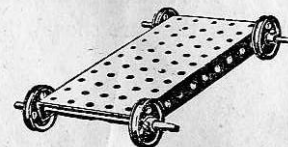
Model No. 8



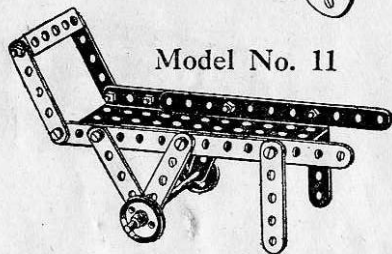
Model No. 9



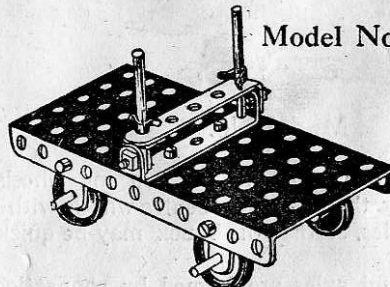
Model No. 10



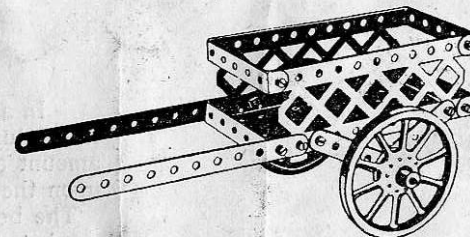
Model No. 11



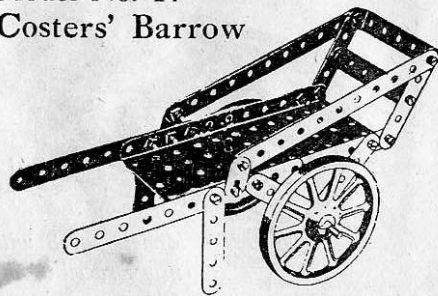
Model No. 12



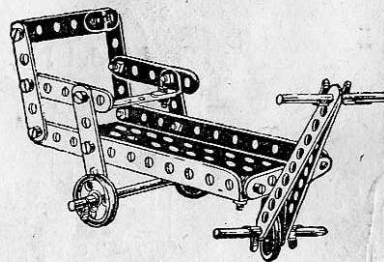
Model No. 13



Model No. 14  
Costers' Barrow

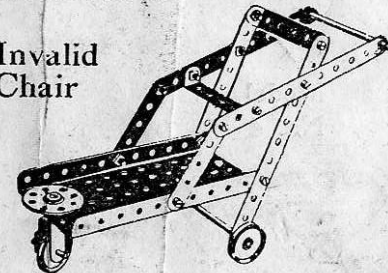


Model No. 15



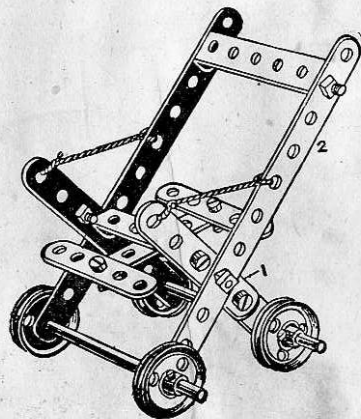
Model No. 16

Invalid  
Chair

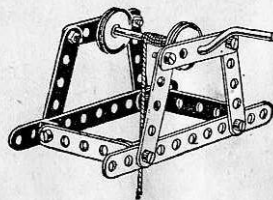




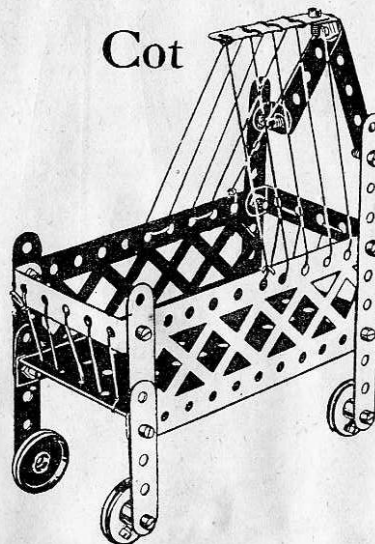
Model No. 17  
**Go Chair**



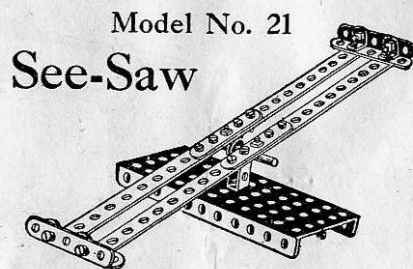
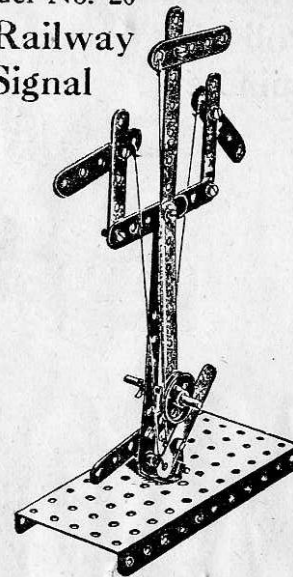
Model No. 18  
**Well Windlass**



Model No. 19  
**Cot**

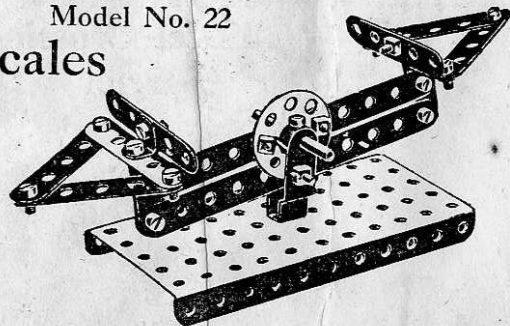


Model No. 20  
**Railway Signal**

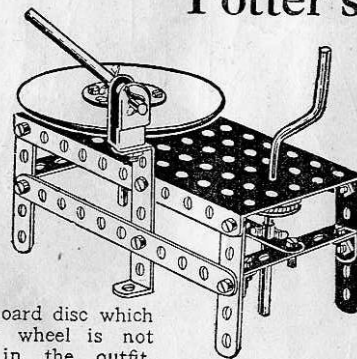


Model No. 21  
**See-Saw**

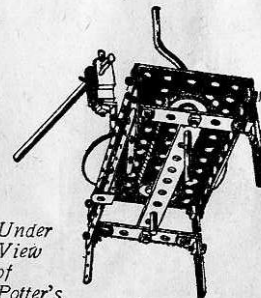
Model No. 22  
**Scales**



Model No. 23  
**Potter's Wheel**



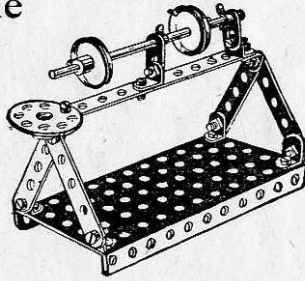
The cardboard disc which forms the wheel is not provided in the outfit.



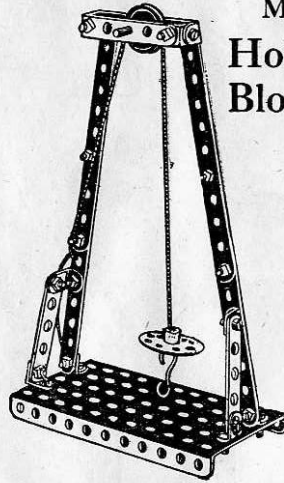
*Under View of Potter's Wheel*



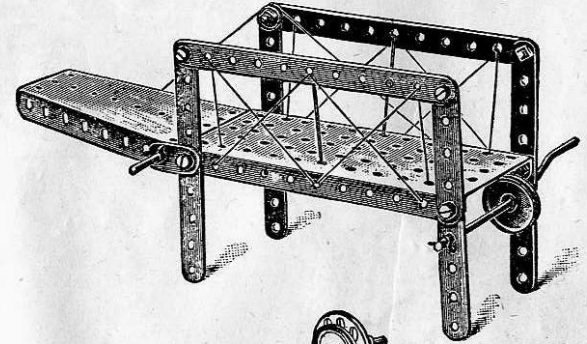
Model No. 24  
Polishing  
Spindle



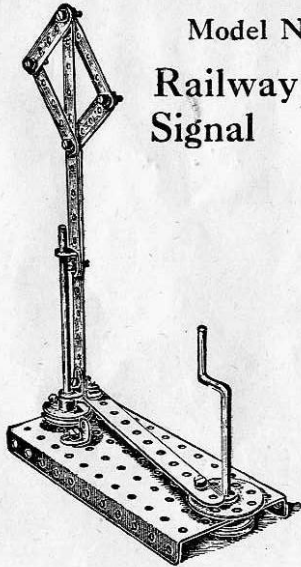
Model No. 25  
Hoisting  
Block



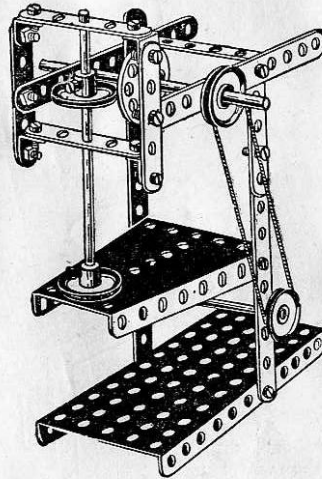
Model No. 26  
Gangway



Model No. 27  
Railway  
Signal

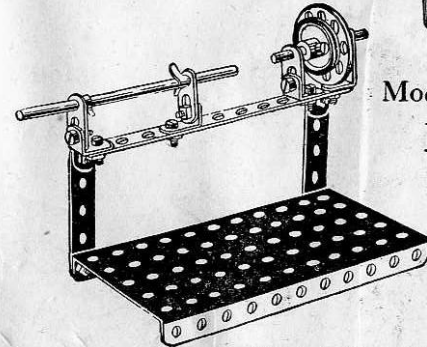


Model No. 28  
Drop Stamp

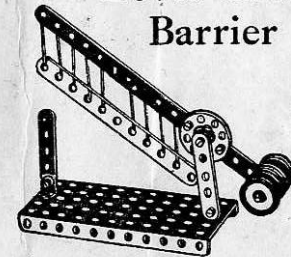


The stamp of this model is raised and dropped by a  $2\frac{1}{2}$ " strip attached to a bush wheel.

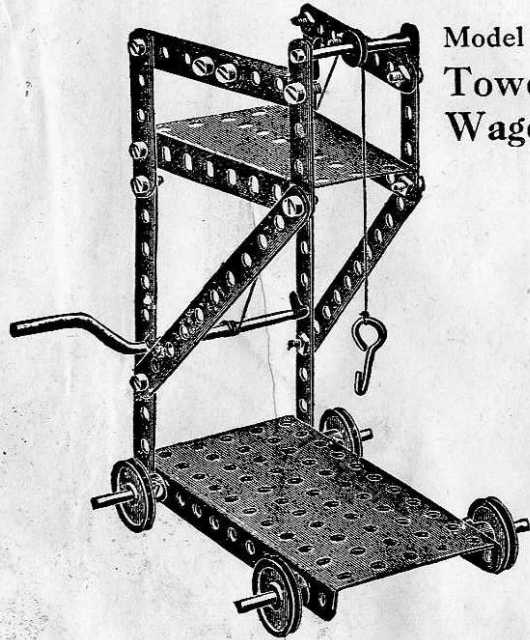
Model No. 29  
Lathe



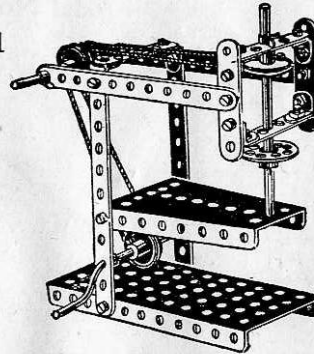
Model No. 30  
Level Crossing  
Barrier



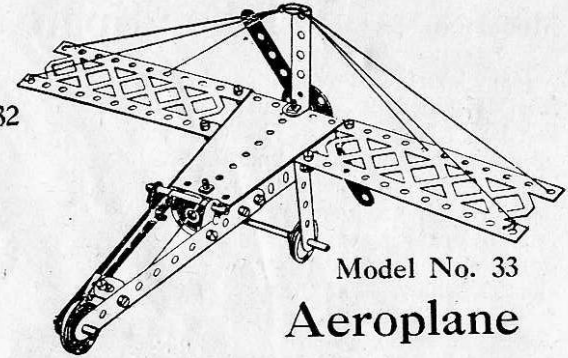




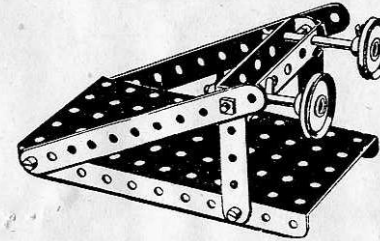
Model No. 31  
Tower  
Wagon



Model No. 32  
Drilling  
Machine

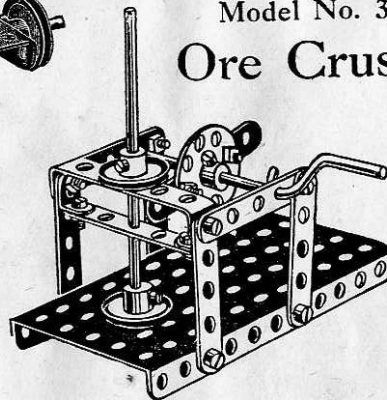


Model No. 33  
Aeroplane

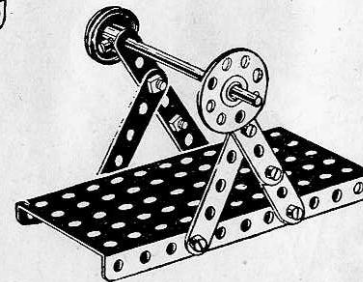


Model No. 34  
Buffers

Model No. 36  
Ore Crusher



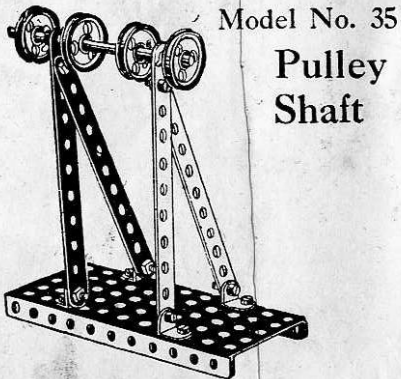
Model No. 37  
Buffing Spindle



Model No. 38  
Swivelling  
Crane



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

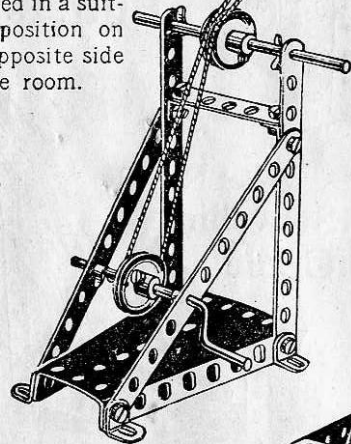


Model No. 35  
Pulley  
Shaft

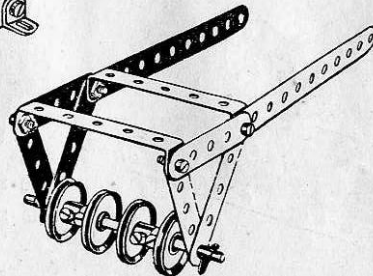


## Model No. 39 Telpher Span

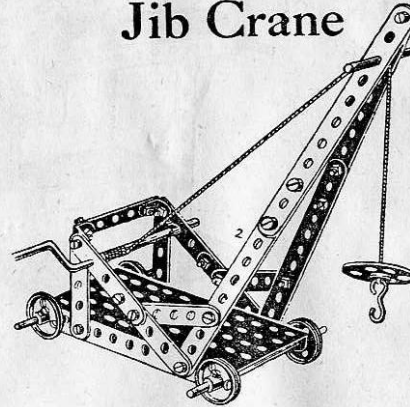
Many hours of enjoyment can be obtained from this model. The illustration shows just how it is worked. The cords may be made to any length, and the load carried from one side of the room to the other. In order to give a better grip, the operating cord should be wound twice round the crank-handle pulley.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



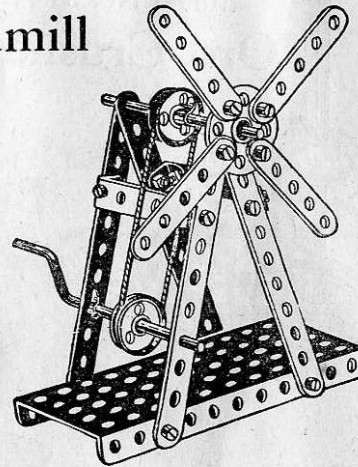
Model No. 42  
Furrowing  
Roller



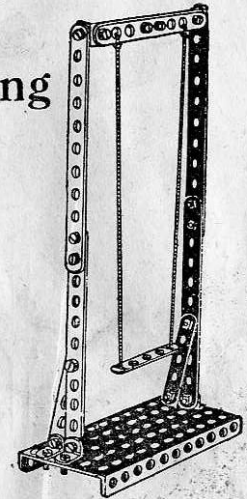
## Model No. 40 Jib Crane



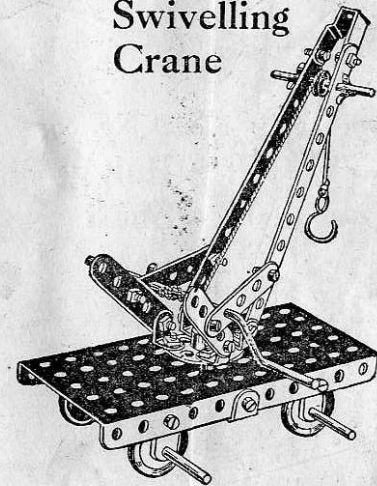
## Model No. 43 Windmill



## Model No. 41 Swing

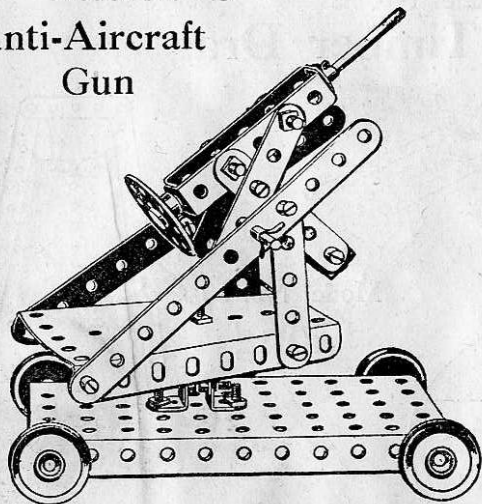


## Model No. 44 Swivelling Crane

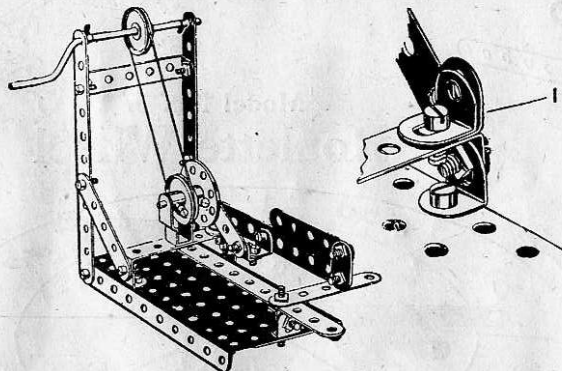




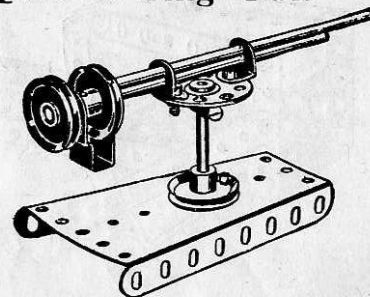
Model No. 45  
**Anti-Aircraft  
Gun**



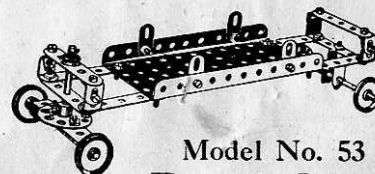
Model No. 46  
**Sawing Machine**



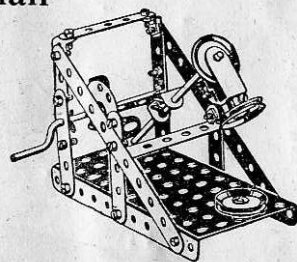
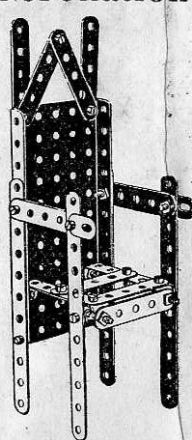
Model No. 47  
**Quick-Firing Gun**



Model No. 51  
**Boiler Truck**

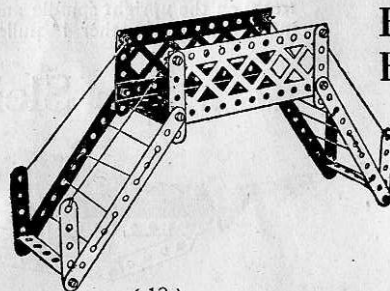
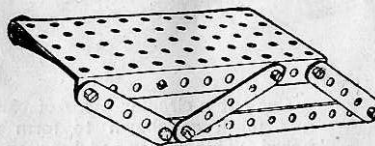


Model No. 48  
**Coronation Chair**



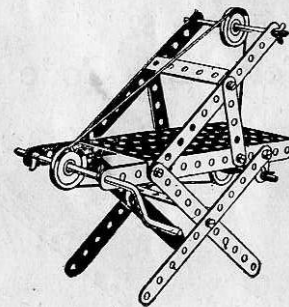
Model No. 49  
**Mechanical  
Hammer**

Model No. 50  
**Sleigh**



Model No. 52  
**High Level  
Bridge**

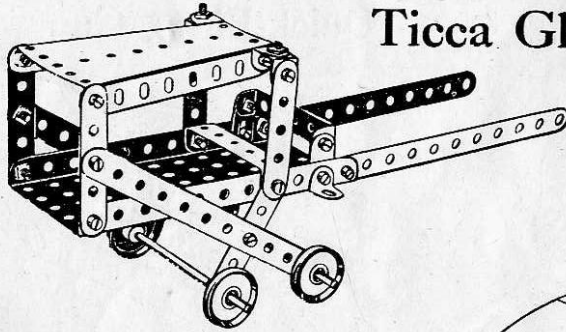
Model No. 53  
**Band Saw**





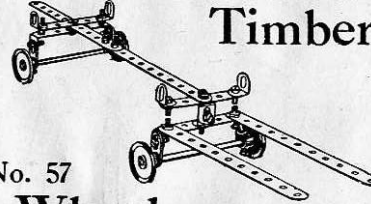
Model No. 54

## Ticca Gharry



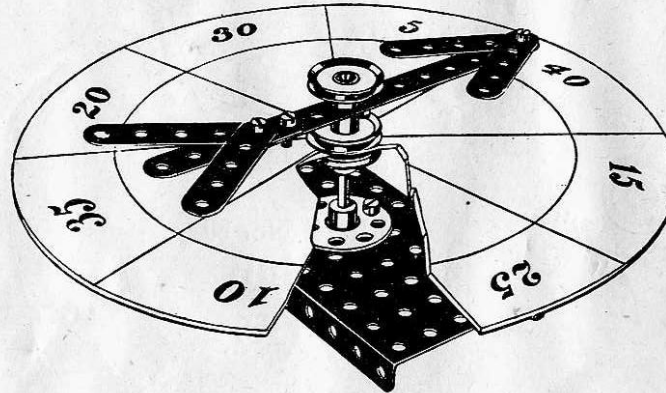
Model No. 55

## Timber Drag



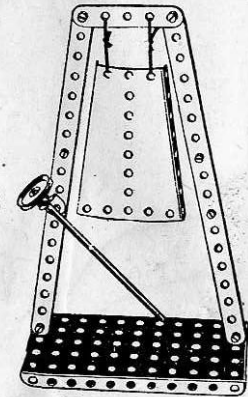
Model No. 57

## Roulette Wheel



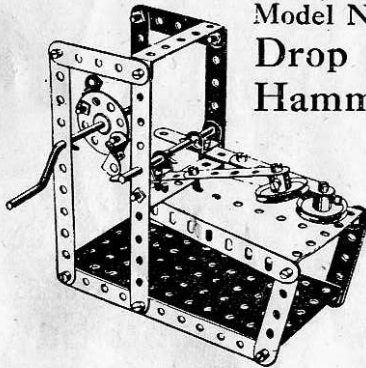
Model No. 58

## Gong



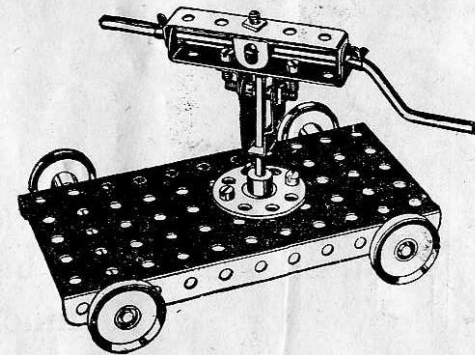
Model No. 56

## Drop Hammer



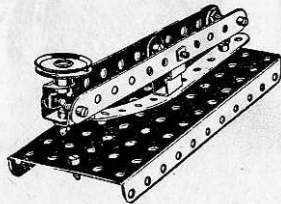
Model No. 61

## Rock Drill



Model No. 59

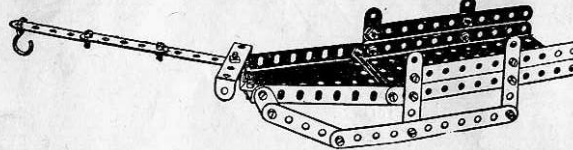
## Telegraph Code Key



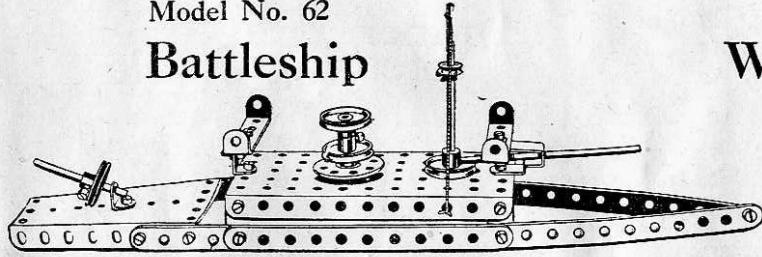
Cut out a circular piece of cardboard and mark as shown to form scoring board. This is clamped between two 1" pulley wheels. The pointer revolves freely on the upright spindle and is held in position by another 1" pulley wheel.

Model No. 60

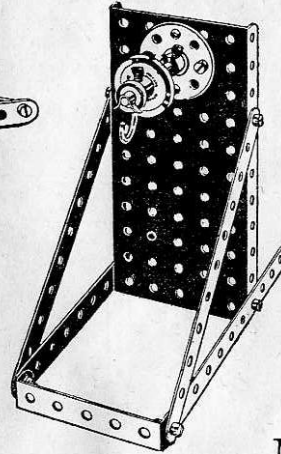
## Sleigh



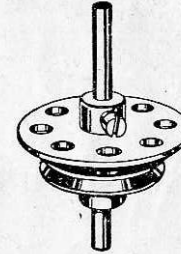
Model No. 62  
**Battleship**



Model No. 63  
**Watch Stand**



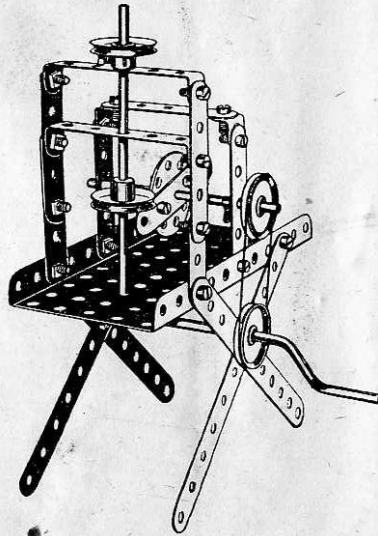
Model No. 64  
**Spinning Top**



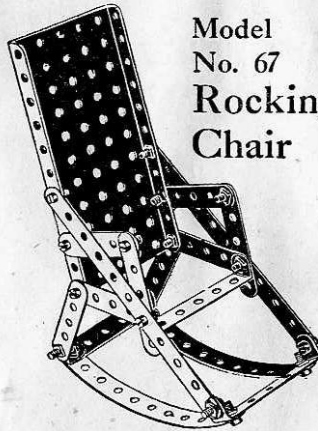
Model  
No. 65  
**Mail Bag  
Hanger**



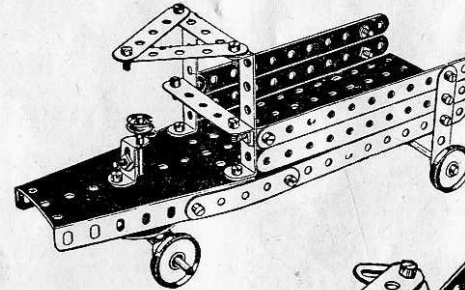
Model No. 66  
**Stamping  
Machine**



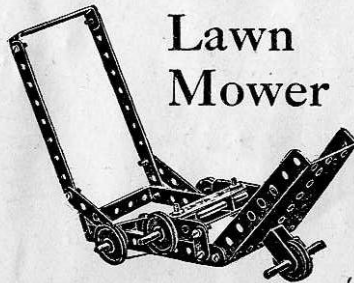
Model  
No. 67  
**Rocking  
Chair**



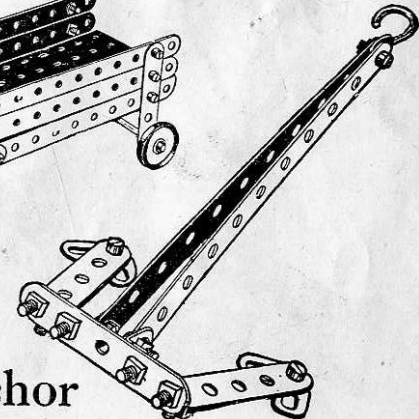
Model No. 68  
**Motor Lurry**



Model No. 69  
**Lawn  
Mower**

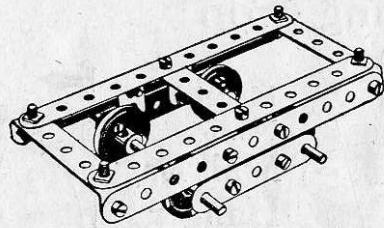


Model  
No. 70  
**Anchor**

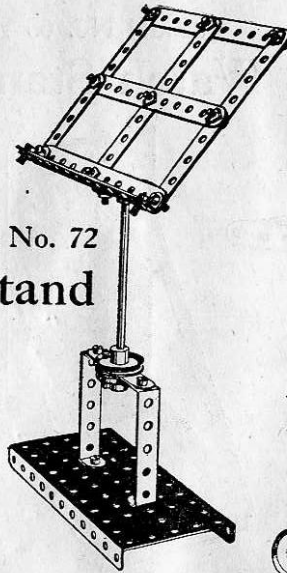




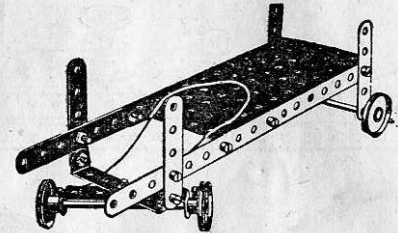
Model No. 71 **Bogey Car**



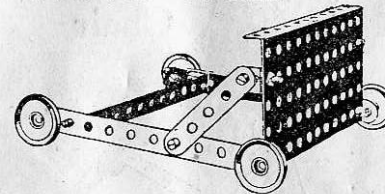
Model No. 72  
**Music Stand**



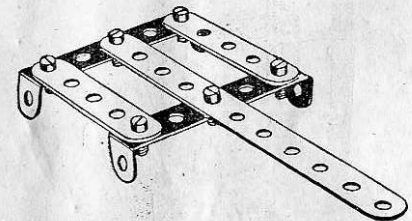
Model No. 73  
**Steering Truck**



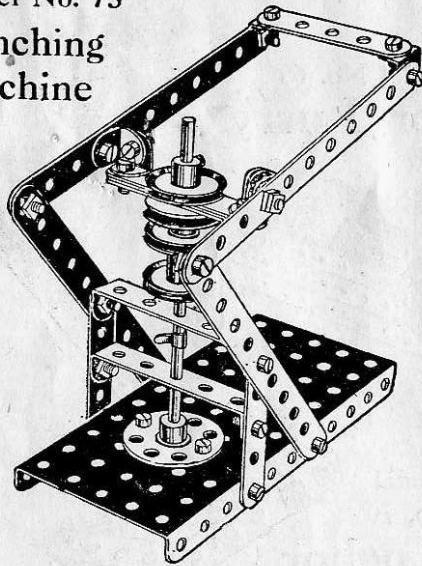
Model No. 74  
**Devil Wall**



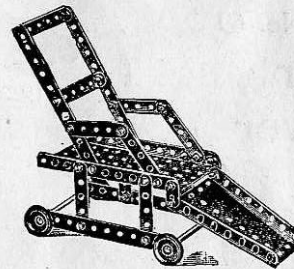
Model No. 77  
**Grill**



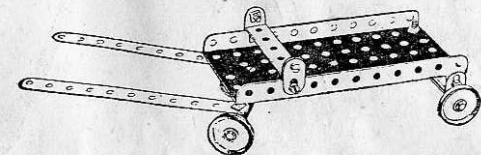
Model No. 75  
**Punching Machine**



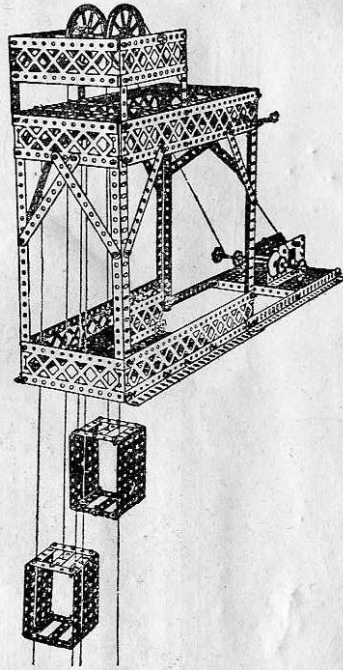
Model No. 76  
**Invalid Chair**



Model No. 78  
**Lurry**



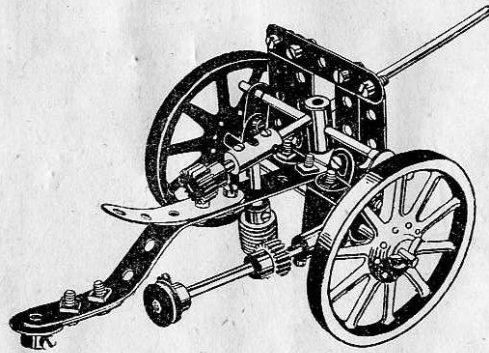
# SPLENDID NEW MECCANO MODELS



## Pit Head Gear

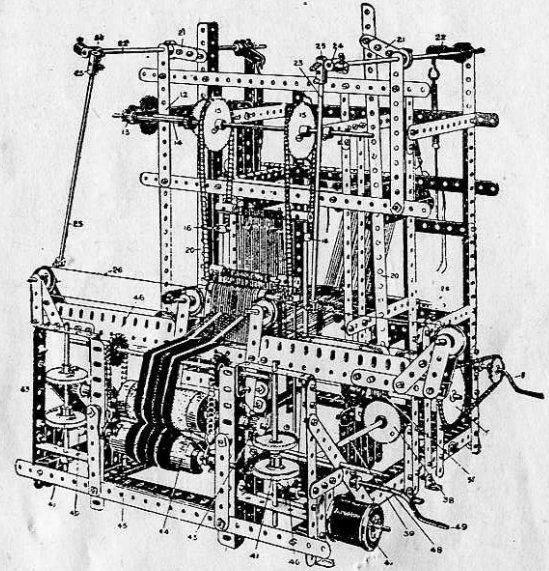
A fine toy, giving great fun. The cages work up and down, carrying loads. Note the splendid use of the Meccano braced girder.

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.

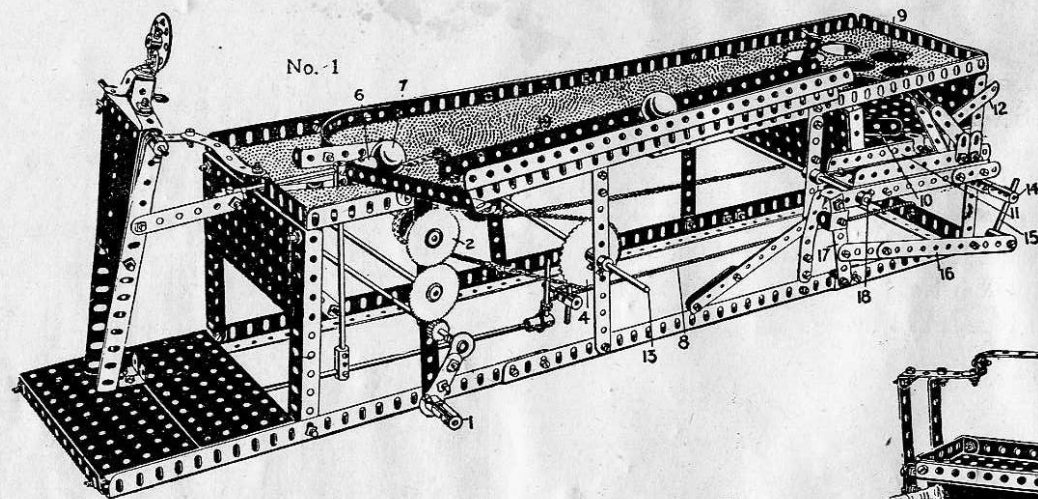


## Meccano Loom

The mechanism is fully automatic, and it is only necessary to turn the handle to weave 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. 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 BUILD



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

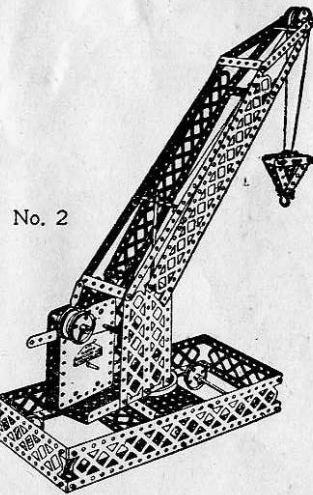
No. 1 is an Automatic Bagatelle Player. The balls are automatically played by the figure at the end of the table, and, after making the score, are returned to the player.

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

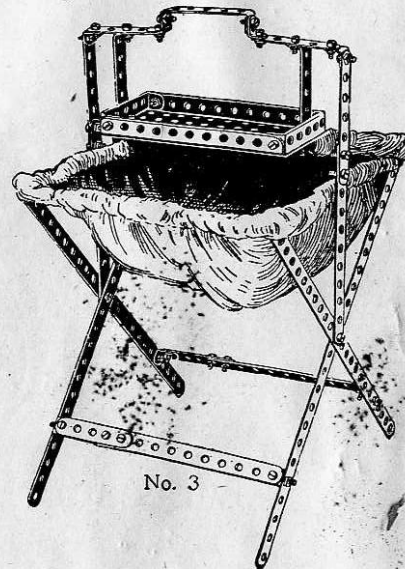
No. 3 is a Ladies' Needlework Basket, easy to make, and most useful.

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.

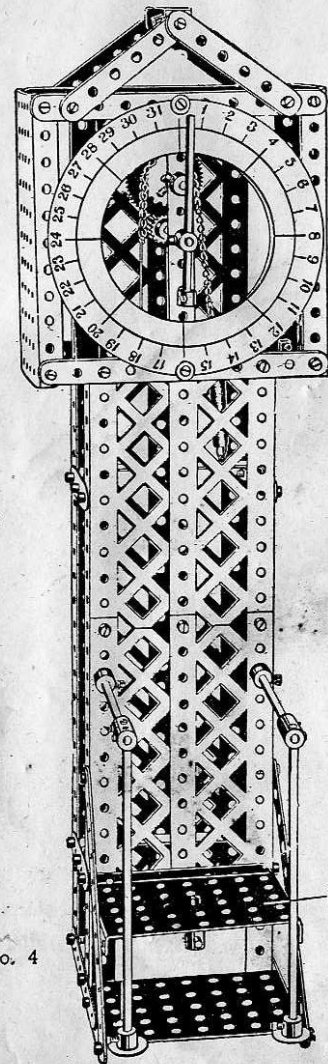
Full instructions for building these, and hundreds of other models, will be found in the big Meccano Manual of Instructions.



No. 2



No. 3



No. 4



## 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 40-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.



# MECCANO

REGISTERED

## 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, 1915

## 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

**I**T IS important to remember that when a boy is playing with MECCANO he is using engineering parts in miniature, and that these parts act in precisely the same way as 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.

## CONTENTS OF No. 0 OUTFIT

No.	Quantity	No.	Quantity
2. 5½" " " .. .. .	4	35. Spring Clips .. .. .	4
5. 2½" " " .. .. .	9	36. Combined Screwdriver .. .. .	1
10. Flat Brackets .. .. .	4	37. Nuts and Bolts .. .. .	25
12. Angle Brackets .. .. .	8	40. Hank Cord .. .. .	1
15A. 4½" Rods .. .. .	2	44. Cranked Bent Strip .. .. .	1
17. 2" Rods .. .. .	2	52. Perforated Flanged Plate, 5½"x2½" .. .. .	1
19. Small Crank Handle .. .. .	1	54. Perforated Sector Plate .. .. .	1
22. 1" Pulley Wheels (fast) .. .. .	4	56. No. 0 Manual of Instructions .. .. .	1
23. ½" Pulley Wheel .. .. .	1	57. Hook .. .. .	1
24. Bush Wheel .. .. .	1	60. 2½" Bent Strip .. .. .	2