

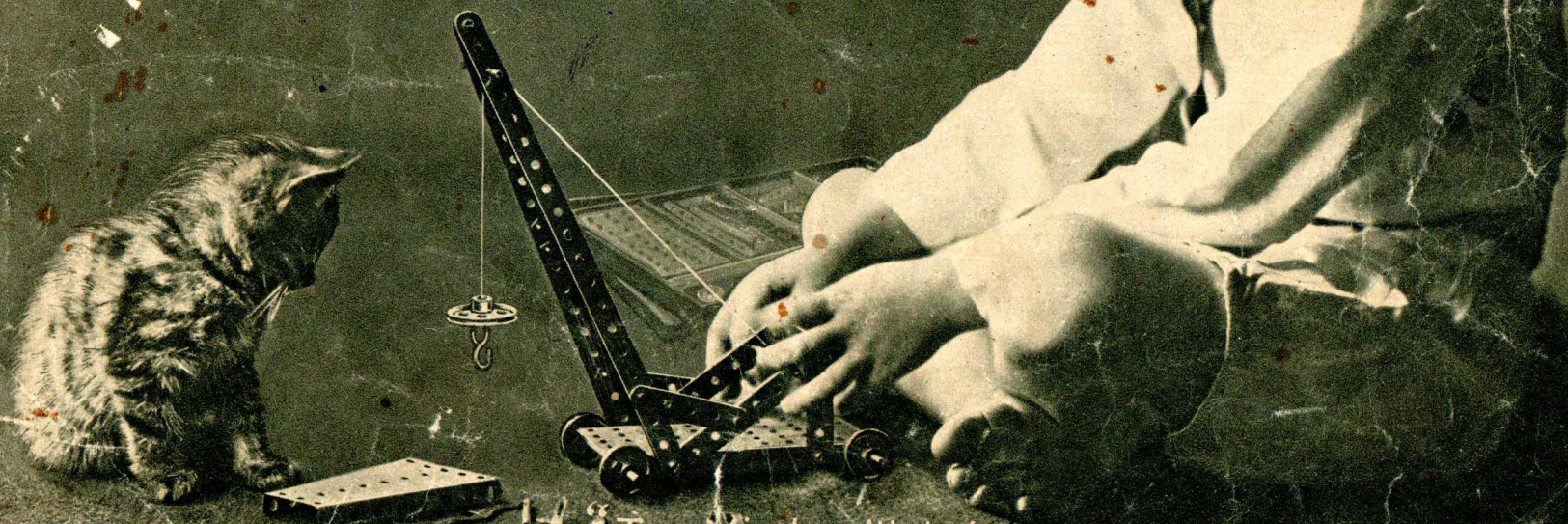
MECCANO

(PATENTED)

INSTRUCTIONS

FOR THE N^o 0 OUTFIT

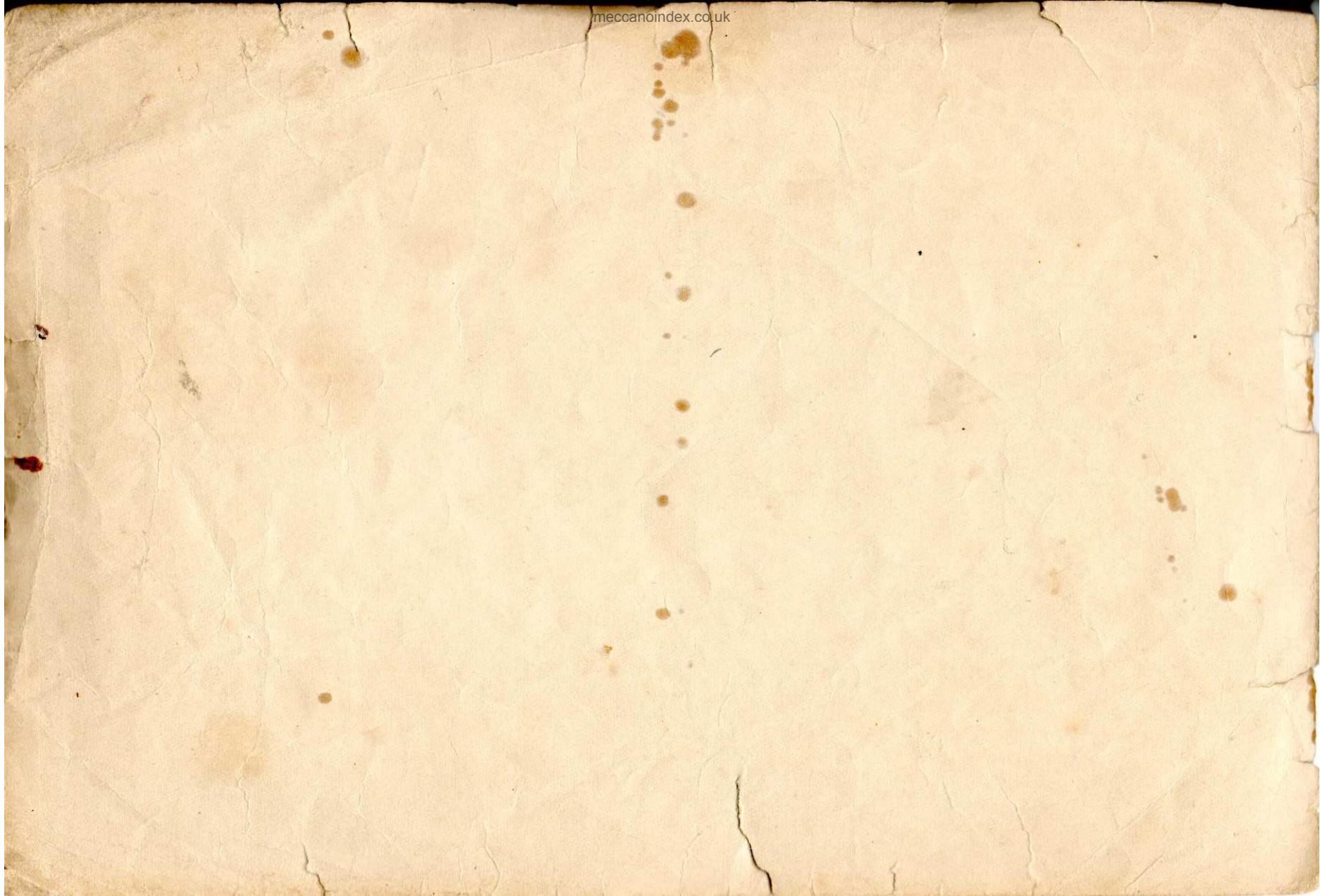
PRICE 4^d



N^o 180
MECCANO LTD. LIVERPOOL
5/5/50

Two Minds with but
a Single Thought

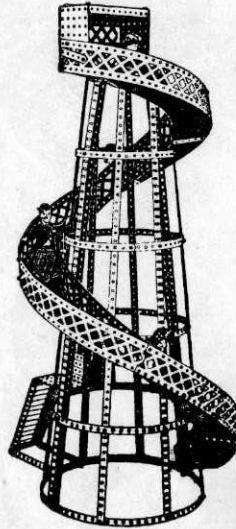
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A TALK WITH NEW MECCANO BOYS

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

Wouldn't you like to build all the splendid Meccano models which you have seen on exhibition in the toy-shops, and in our advertisements, and in the books and leaflets which we publish? Nothing could be easier; all the Meccano parts fit in with those you have in your No. 0 Outfit. This is the advantage of the 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?



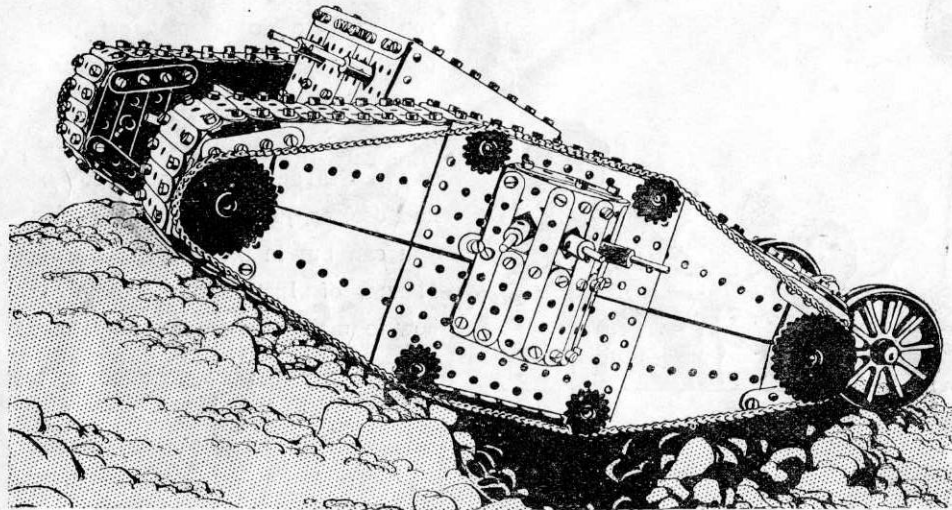
That is what the Meccano system does—the *genius and skill and knowledge are in the parts*, and all you have to do is to screw them together. And when you have made a model such as the loom, you can do something with it. You can weave ties and belts in all colours and designs, just as good as the best 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.

**YOU can build this Model
of the wonderful British
Tank with 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.

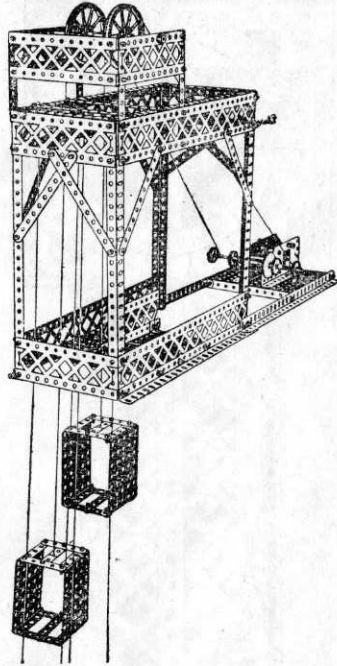
Boys! Build Bigger Models

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 a big Manual of Instructions. You will be able to build scores of new and fascinating models, and will then realise what a wonderful hobby Meccano is.

The Meccano Magazine

This is a splendid Magazine, which is published for Meccano users. You will miss a lot of fun and pleasure if you do not become a regular reader. It contains articles on Meccano topics; essays by Meccano boys; tips to model-builders; replies to boys' queries by the Editor; announcements of new prize competitions which are running all the time, and which enable you to win valuable prizes; lists of prize-winners; and all kinds of useful information for boys. Write to the Editor, and he will send you your first copy FREE. If you wish to receive the Meccano Magazine regularly, you should send 2d. in stamps to cover postage on the next four issues. A double subscription of 4d. will, of course, ensure your receiving the next eight issues. Address your letters to the Editor, Meccano Works, Binns Road, Liverpool.

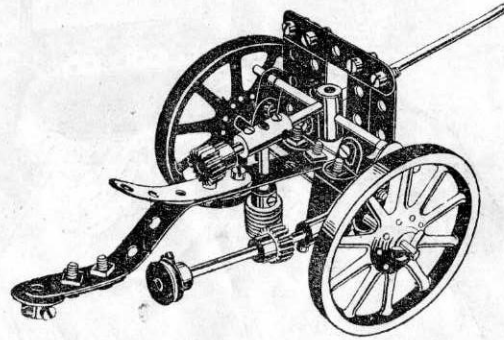
SPLENDID NEW MECCANO MODELS



Pit Head Gear

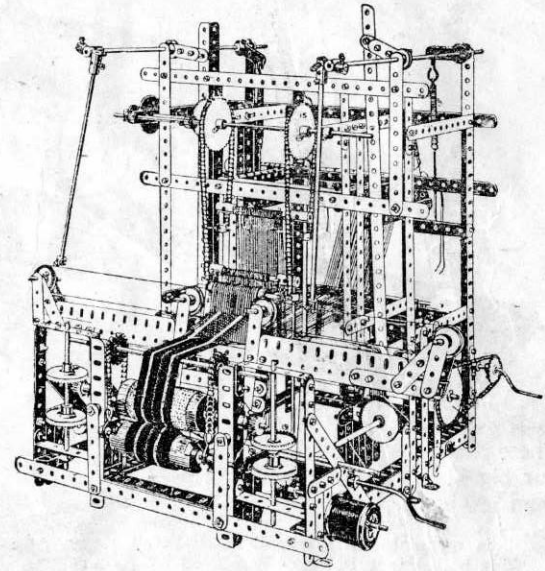
A fine toy, giving great fun. The cages work up and down, carrying loads. Note the splendid use of the Meccano braced girder

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 costs 2/6 or 2/9 post paid.



Meccano Field Gun

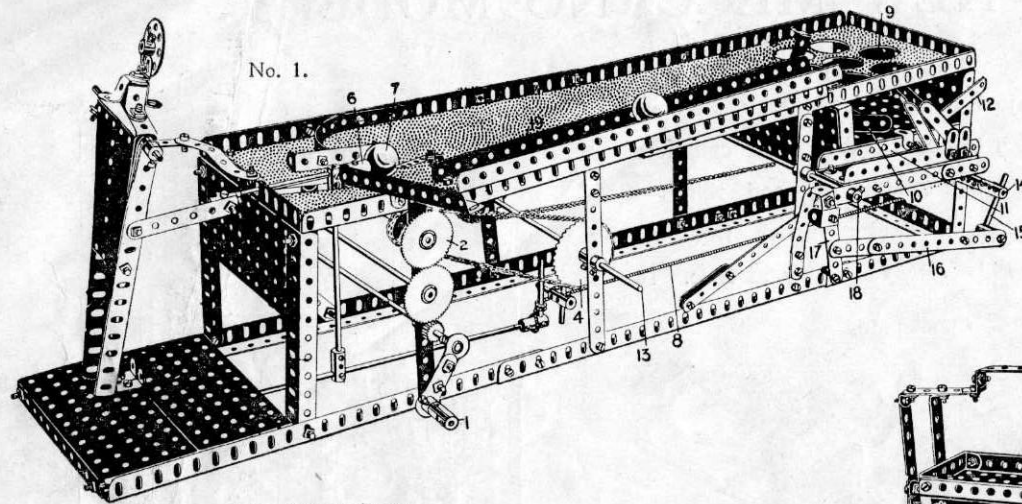
Easy to make and furnishes endless amusement



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.

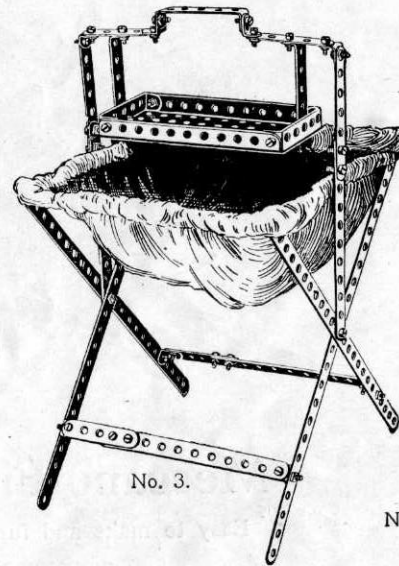
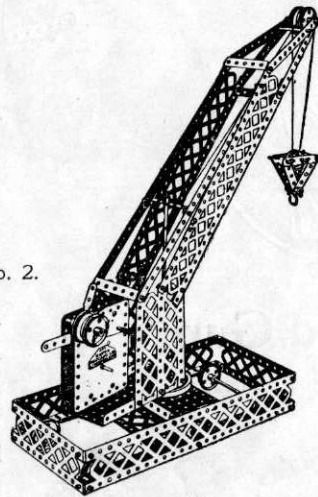
No. 2 is a beautifully designed Crane worked with a Meccano Clockwork Motor. It works perfectly.

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

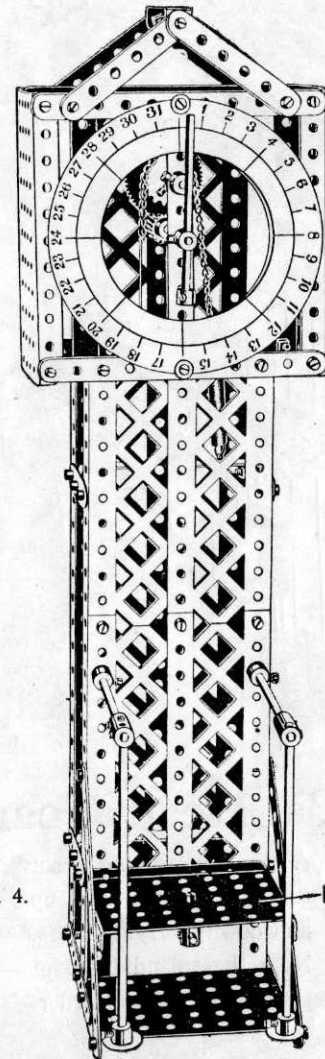
No. 4 is a type of Weighing Machine which will be familiar to every boy. It works perfectly, and can be scaled to weigh correctly.

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.

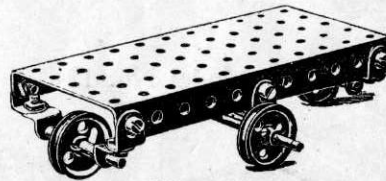
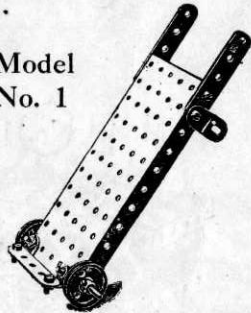
HOW TO BUILD WITH MECCANO

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

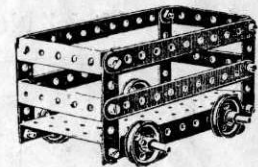


Model No. 2



Fig. 2A

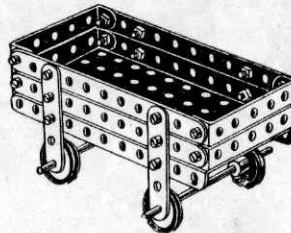
Model No. 3



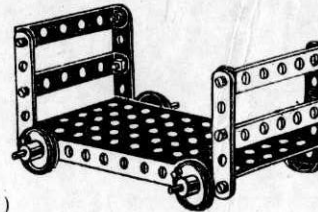
In a Revolver Truck (Model No. 2) the two end wheels are always raised just a little higher than the two centre wheels with a moderate amount of play on the axles, so that the Truck may be quickly revolved upon the centre wheels.

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.

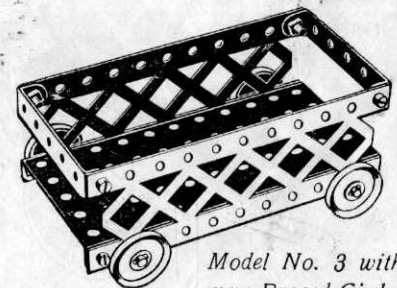
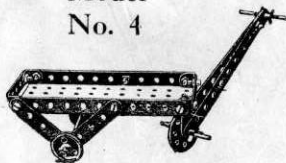
Model No. 5



Model No. 6



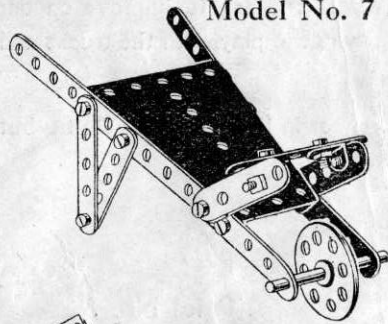
Model
No. 4



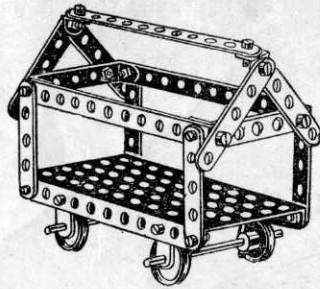
Model No. 3 with
new Braced Girder

Trucks and Luggage Carts *(continued)*

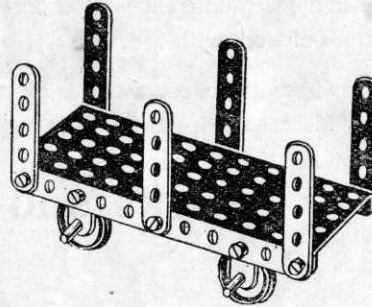
Model No. 7



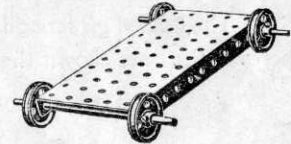
Model No. 8



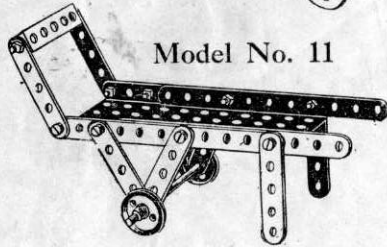
Model No. 9



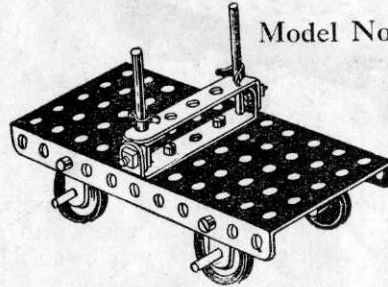
Model No. 10



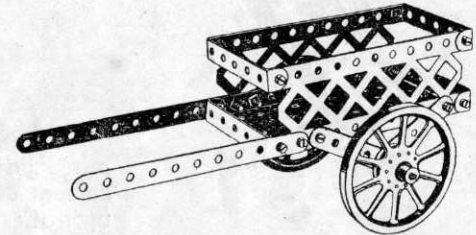
Model No. 11



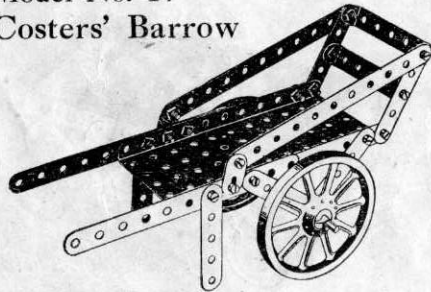
Model No. 12



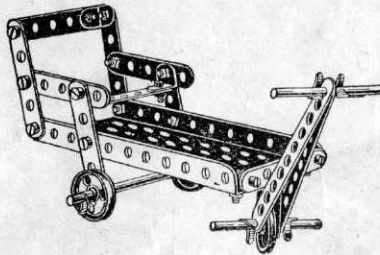
Model No. 13



Model No. 14
Costers' Barrow

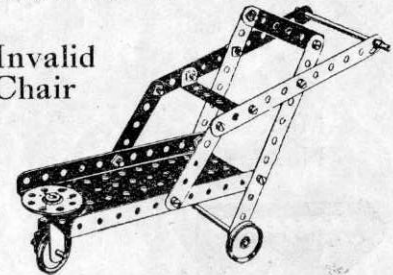


Model No. 15

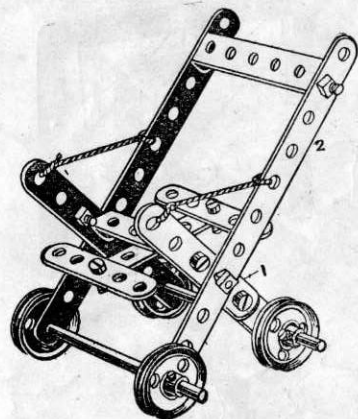


Model No. 16

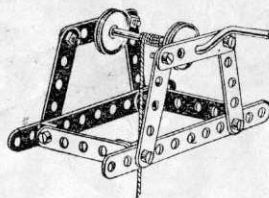
Invalid
Chair



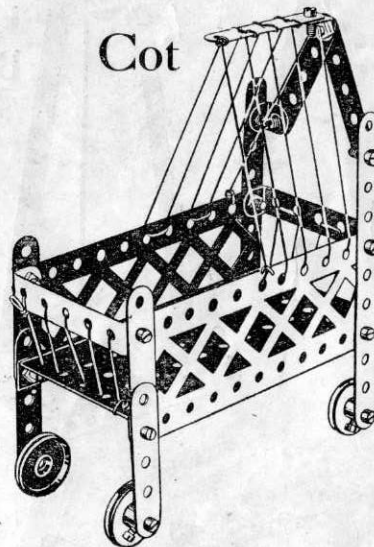
Model No. 17
Go Chair



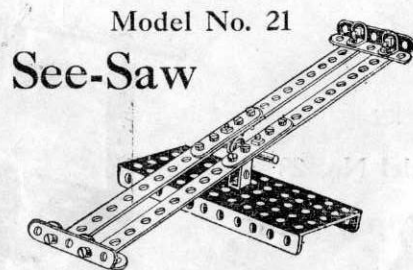
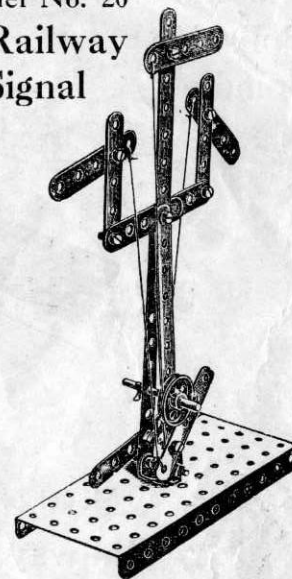
Model No. 18
Well Windlass



Model No. 19
Cot

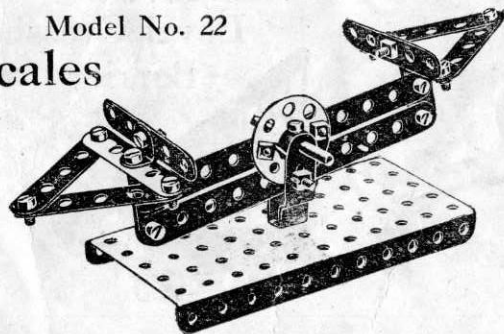


Model No. 20
Railway Signal

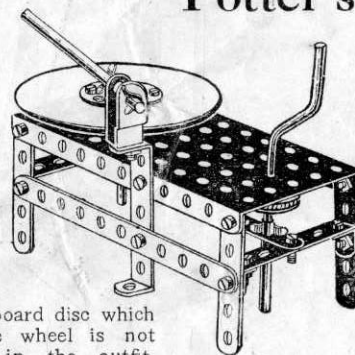


Model No. 21
See-Saw

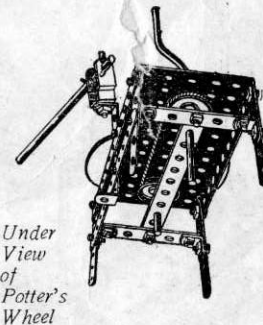
Model No. 22
Scales



Model No. 23
Potter's Wheel

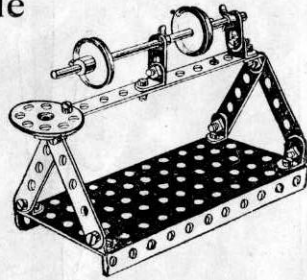


The cardboard disc which forms the wheel is not provided in the outfit.

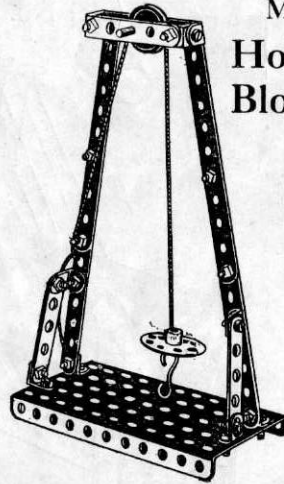


Under View of Potter's Wheel

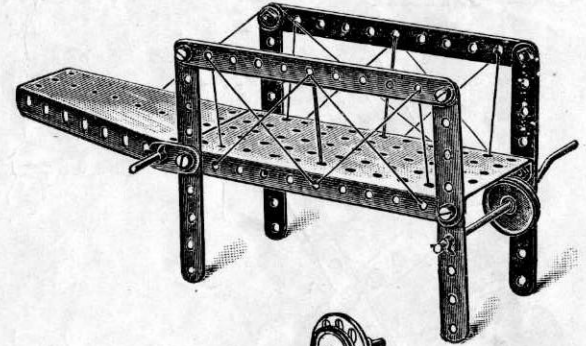
Model No. 24
**Polishing
Spindle**



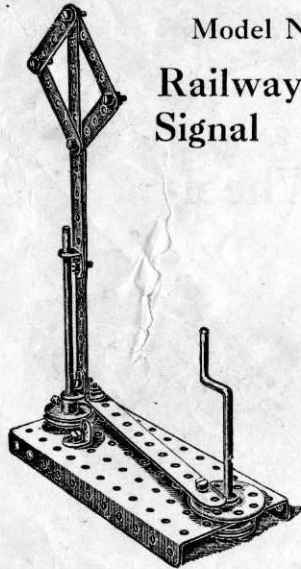
Model No. 25
**Hoisting
Block**



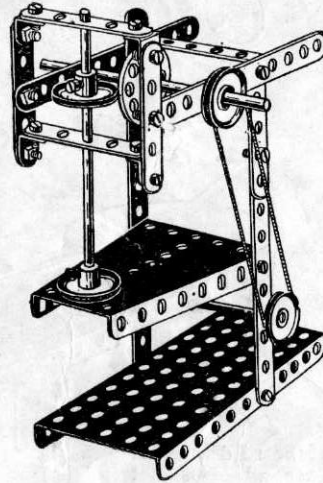
Model No. 26
Gangway



Model No. 27
**Railway
Signal**

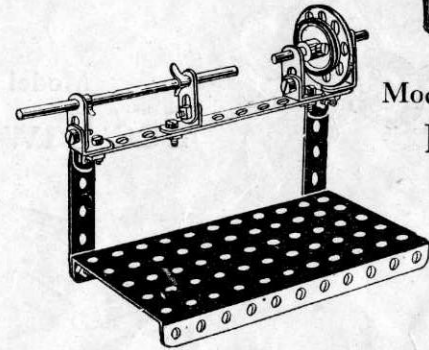


Model No. 28
Drop Stamp

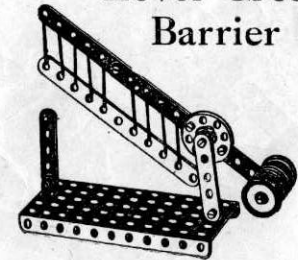


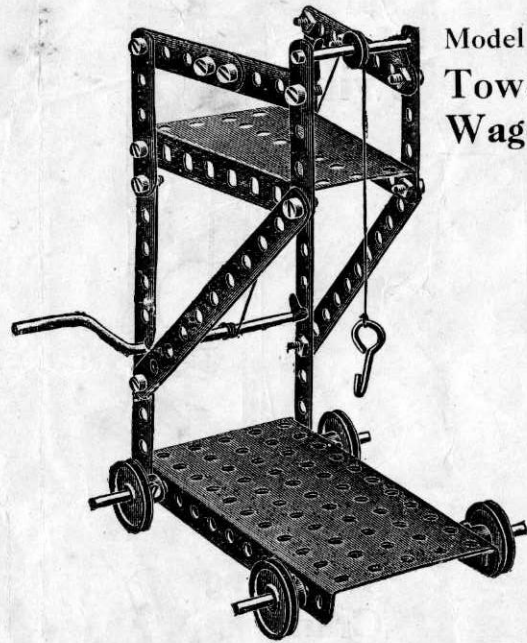
The stamp of this model is raised and dropped by a $2\frac{1}{2}$ " strip attached to a bush wheel.

Model No. 29
Lathe

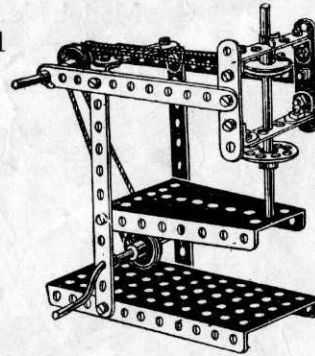


Model No. 30
**Level Crossing
Barrier**

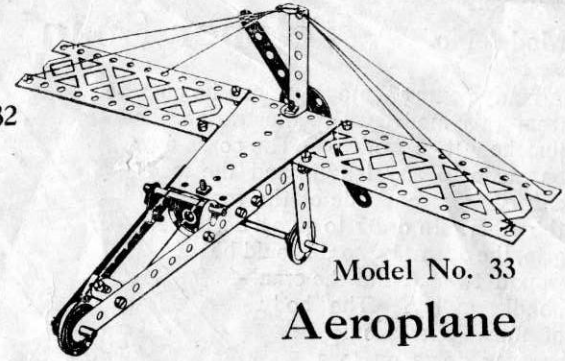




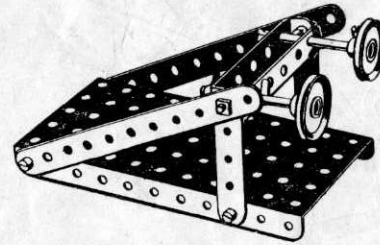
Model No. 31
**Tower
Wagon**



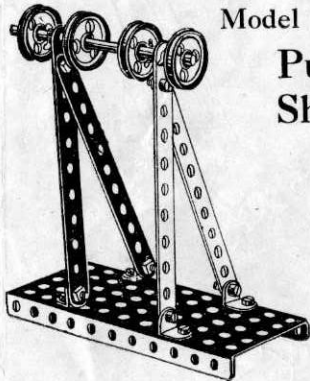
Model No. 32
**Drilling
Machine**



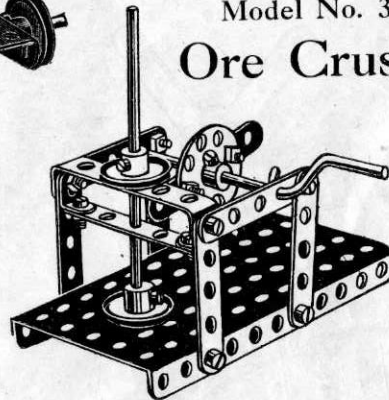
Model No. 33
Aeroplane



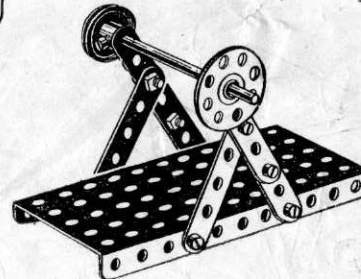
Model No. 34
Buffers



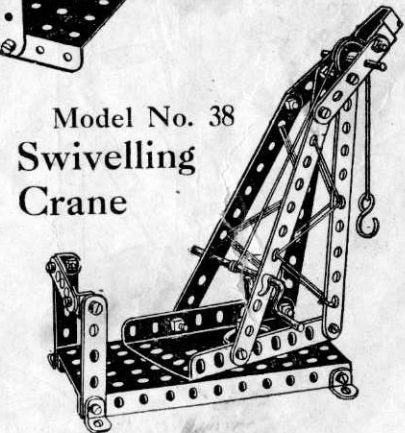
Model No. 35
**Pulley
Shaft**



Model No. 36
Ore Crusher



Model No. 37
Buffing Spindle

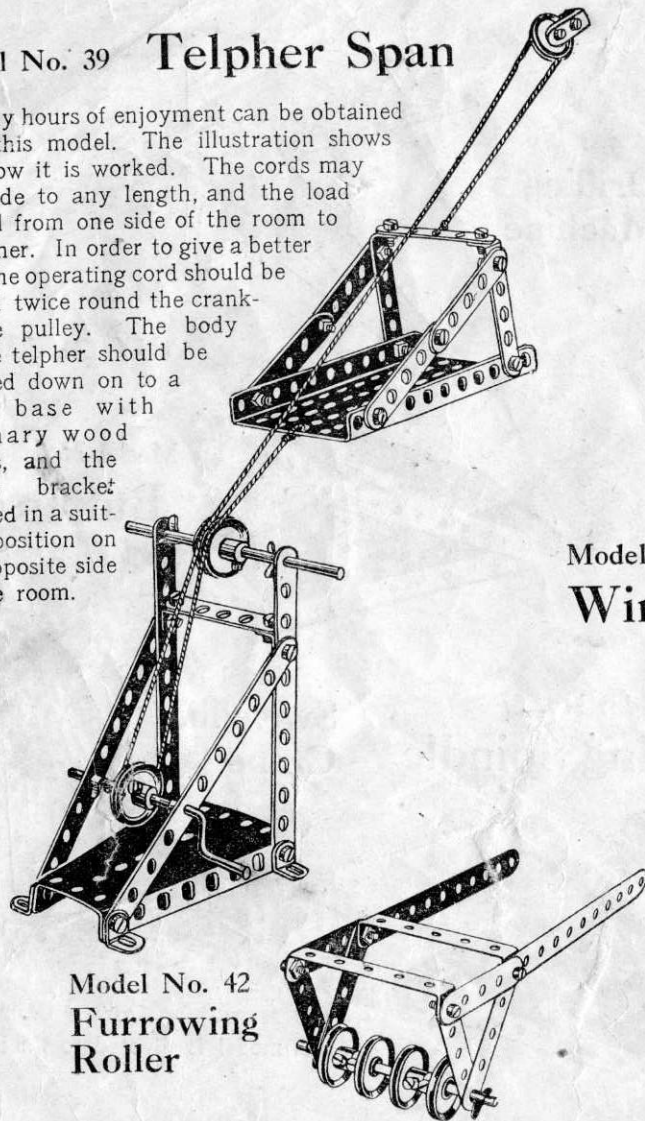


Model No. 38
**Swivelling
Crane**

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

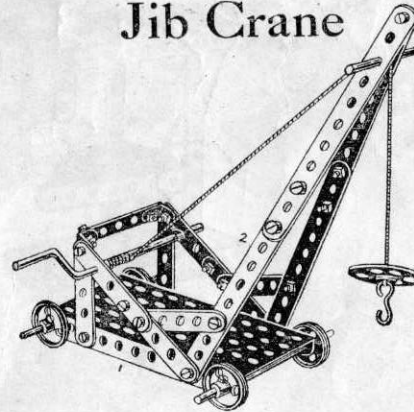
Model No. 39 Telpher Span

Many hours of enjoyment can be obtained from this model. The illustration shows just how it is worked. The cords may be made to any length, and the load carried from one side of the room to the other. In order to give a better grip, the operating cord should be wound twice round the crank-handle pulley. The body of the telpher should be screwed down on to a solid base with ordinary wood screws, and the pulley bracket screwed in a suitable position on the opposite side of the room.

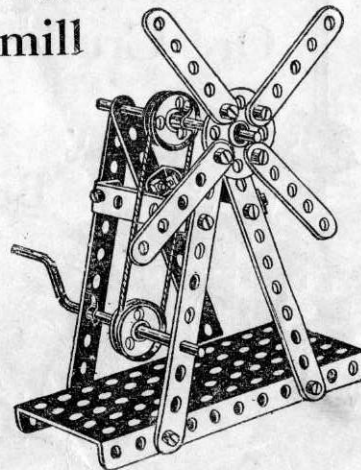


Model No. 42
Furrowing
Roller

Model No. 40 Jib Crane

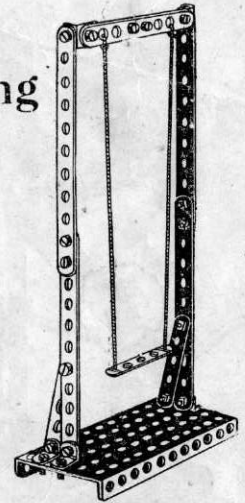


Model No. 43 Windmill

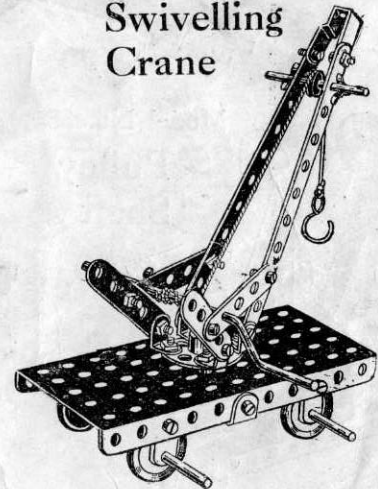


(12)

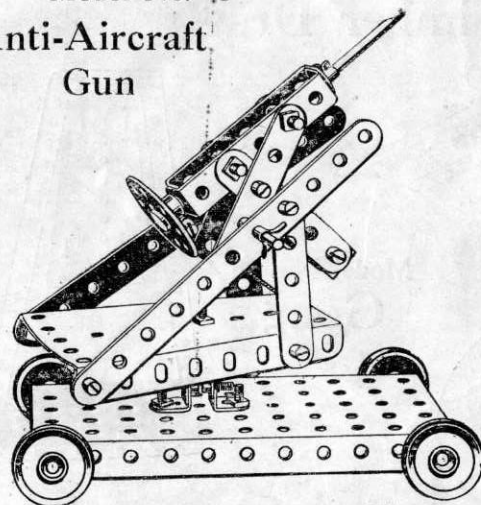
Model No. 41 Swing



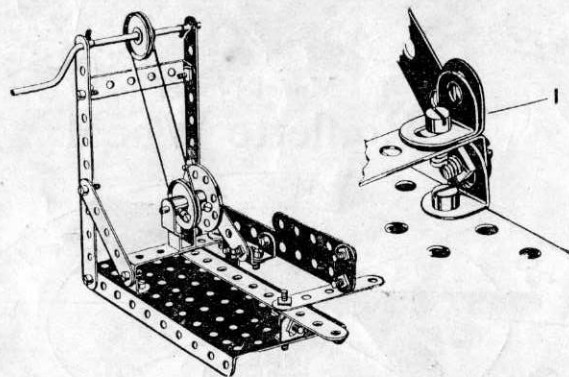
Model No. 44 Swivelling Crane



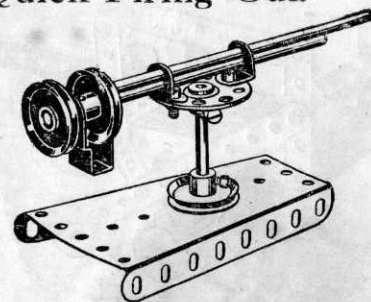
Model No. 45
**Anti-Aircraft
Gun**



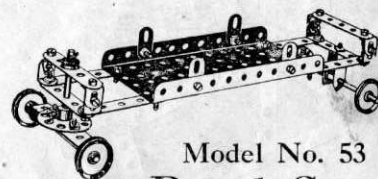
Model No. 46
Sawing Machine



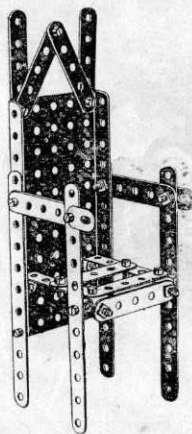
Model No. 47
Quick-Firing Gun



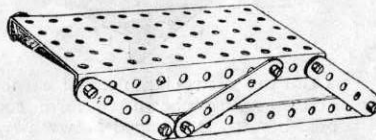
Model No. 51
Boiler Truck



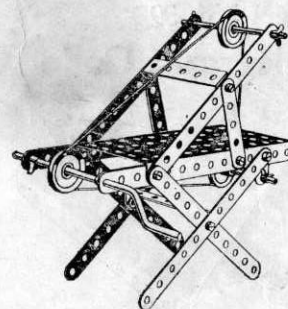
Model No. 48
Coronation Chair



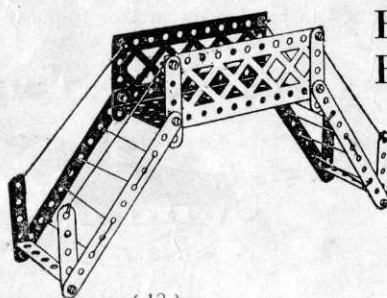
Model No. 50
Sleigh



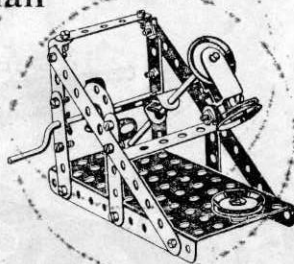
Model No. 53
Band Saw



Model No. 52
**High Level
Bridge**

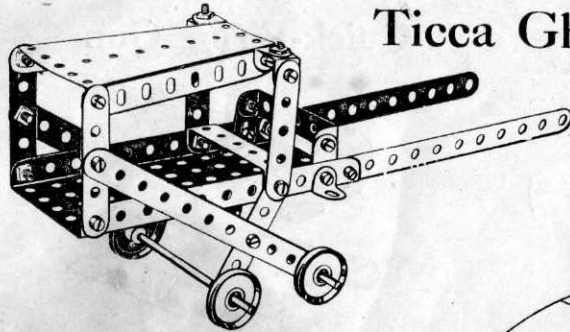


Model No. 49
**Mechanical
Hammer**



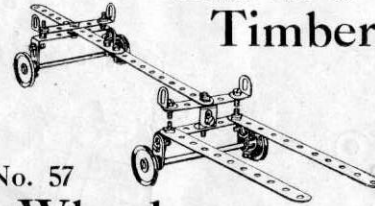
Model No. 54

Ticca Gharry



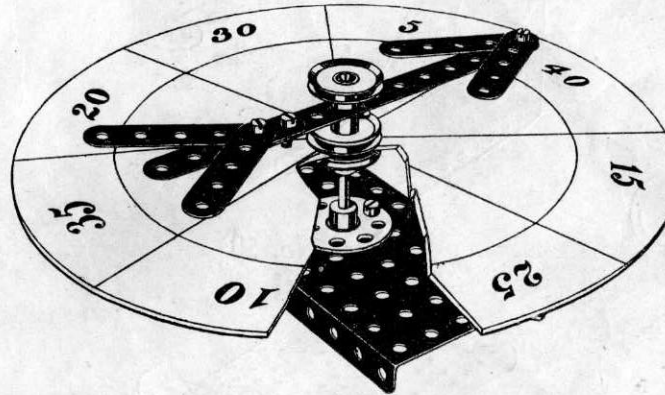
Model No. 55

Timber Drag



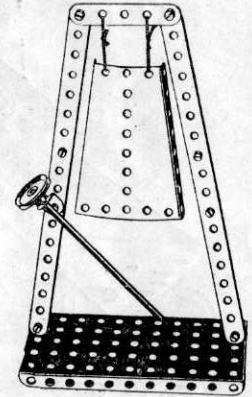
Model No. 57

Roulette Wheel



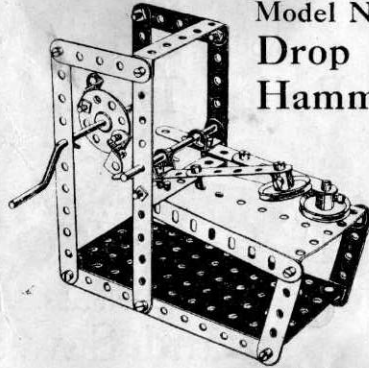
Model No. 58

Gong



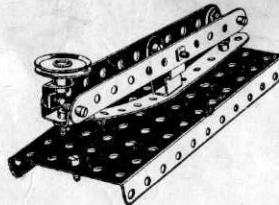
Model No. 56

Drop Hammer



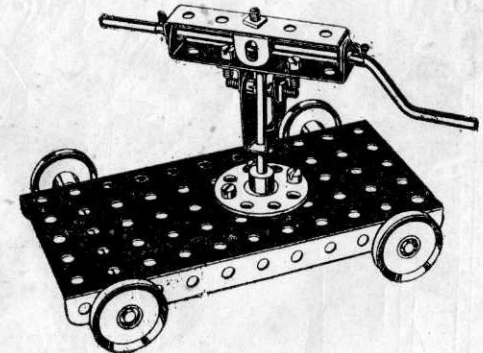
Model No. 59

Telegraph Code Key



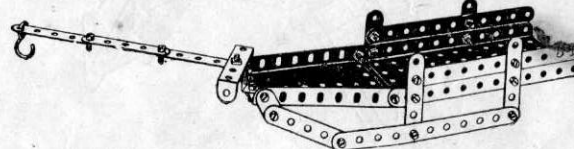
Model No. 61

Rock Drill

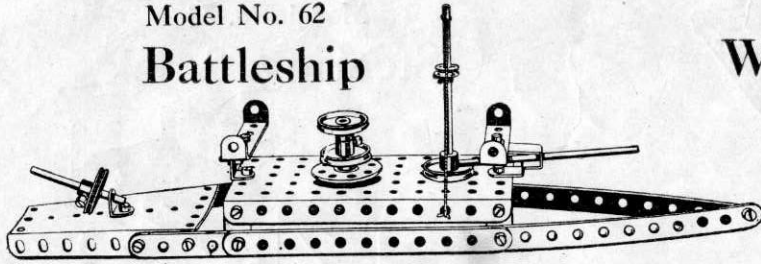


Cut out a circular piece of cardboard and mark as shown to form scoring board. This is clamped between two 1" pulley wheels. The pointer revolves freely on the upright spindle and is held in position by another 1" pulley wheel.

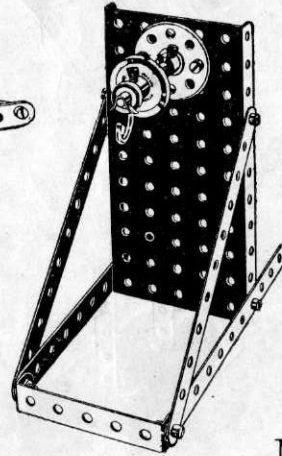
Model No. 60 Sleigh



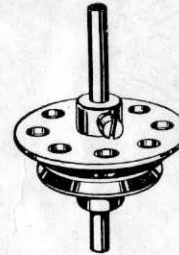
Model No. 62
Battleship



Model No. 63
Watch Stand



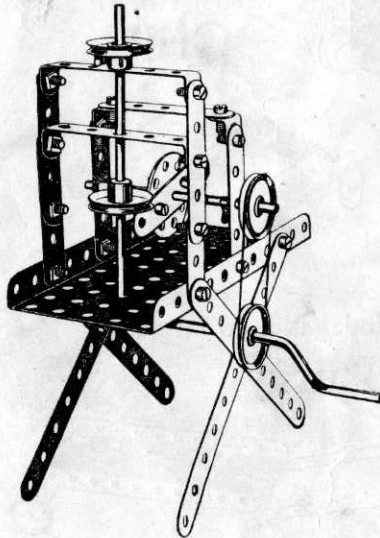
Model No. 64
Spinning Top



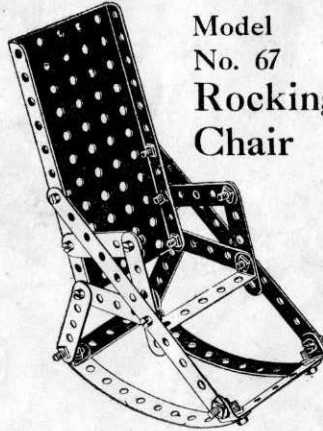
Model
No. 65
**Mail Bag
Hanger**



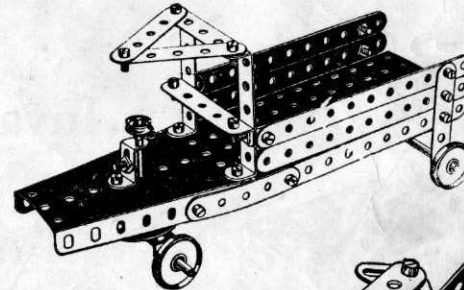
Model No. 66
**Stamping
Machine**



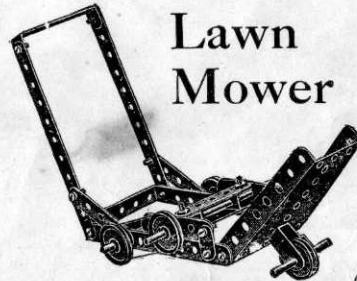
Model
No. 67
**Rocking
Chair**



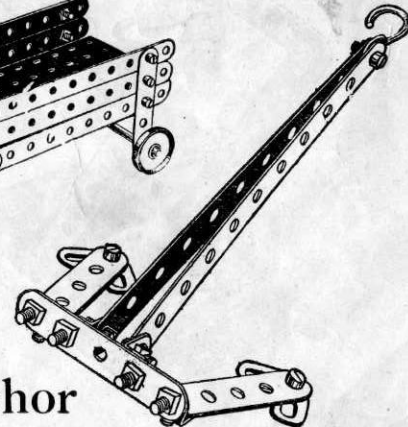
Model No. 68
Motor Lurry



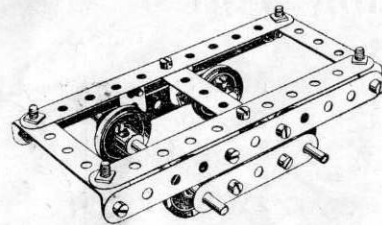
Model No. 69
**Lawn
Mower**



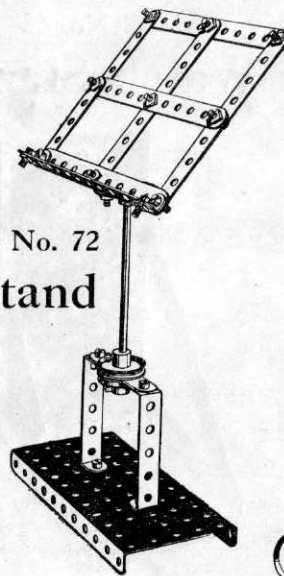
Model
No. 70
Anchor



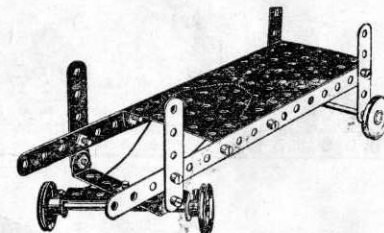
Model No. 71 **Bogey Car**



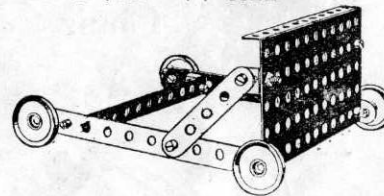
Model No. 72
Music Stand



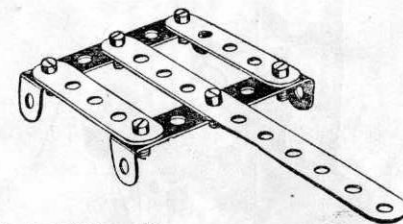
Model No. 73
Steering Truck



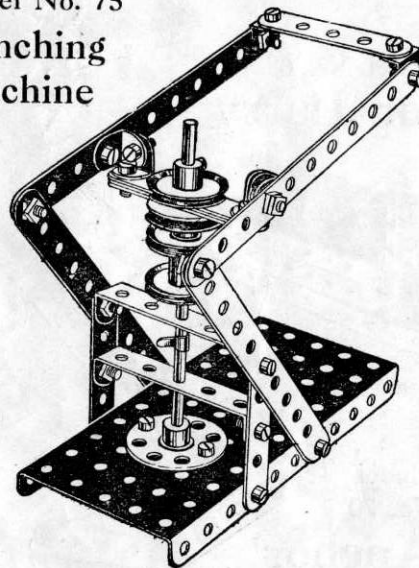
Model No. 74
Devil Wall



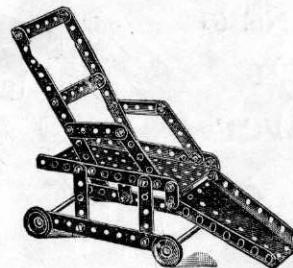
Model No. 77
Grill



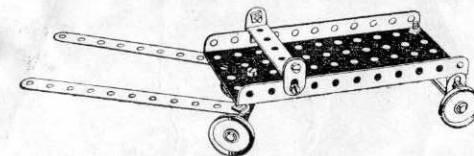
Model No. 75
Punching Machine



Model No. 76
Invalid Chair



Model No. 78
Lurry



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.

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