

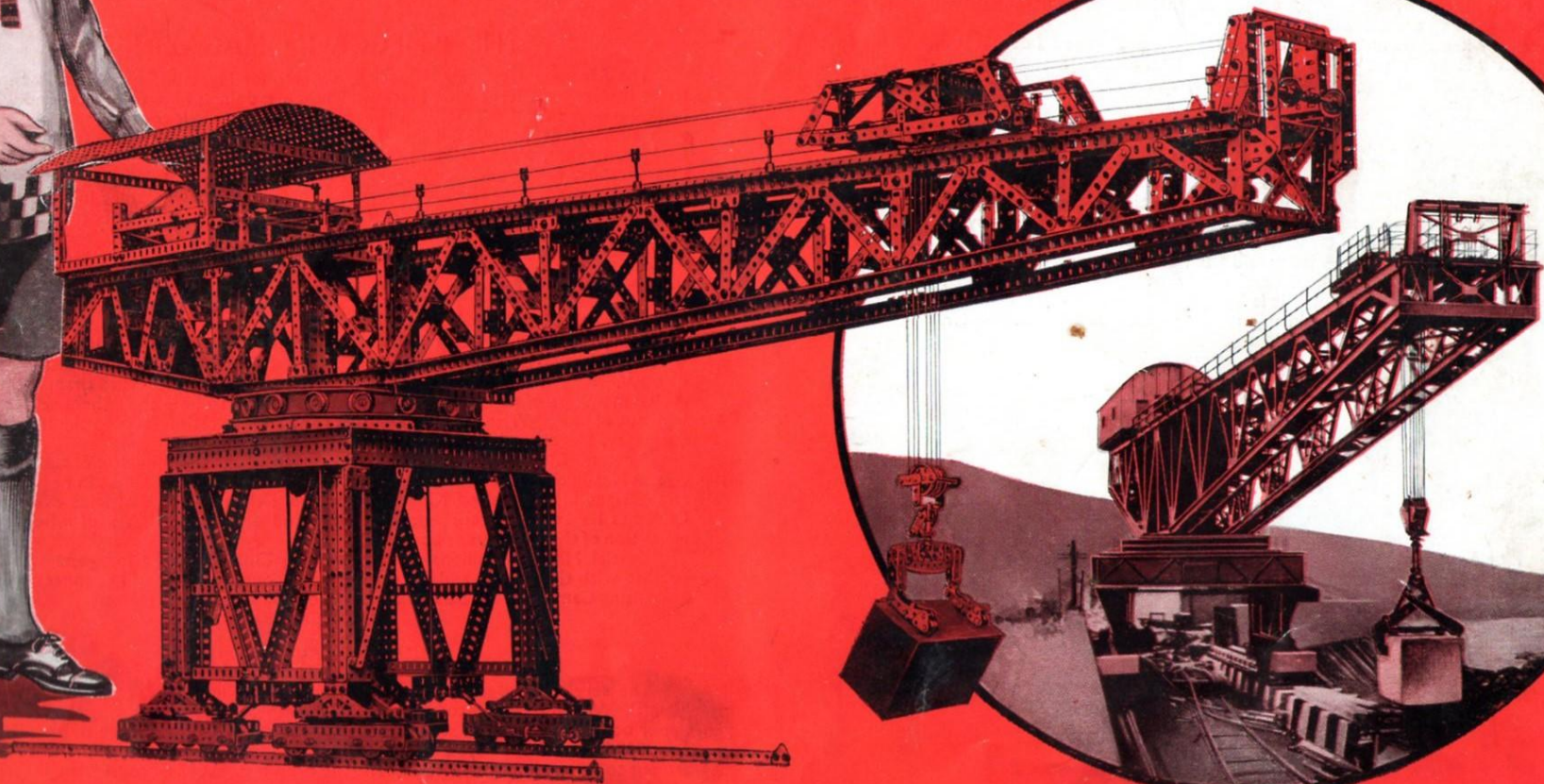
# MECCANO

HORNBY'S ORIGINAL SYSTEM — FIRST PATENTED 1901

INSTRUCTIONS FOR OUTFITS A and B

PRICE

4d.

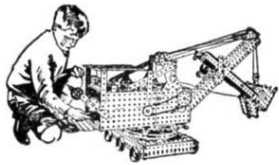


35A-B

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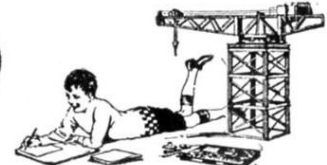
13/635/30 (U.K.)





# MECCANO

HORNBY'S ORIGINAL SYSTEM—FIRST PATENTED 1901



## MODEL-BUILDING WITH MECCANO

There is no limit to the number of models that can be built with Meccano—Cranes, Clocks, Motor Cars, Ship Coalers, Machine Tools, Locomotives—in fact everything that interests boys. A screwdriver and a spanner, both of which are provided in each Outfit, are the only tools necessary.

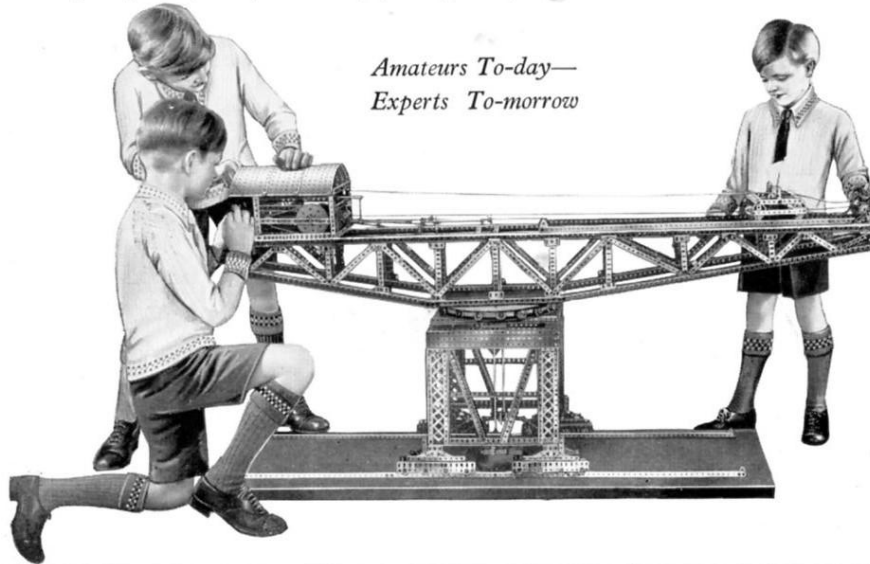
Make the simple models first—they will provide hours of fun—and then try to improve them. Every model can be made in a dozen different ways. It is important to screw up all the nuts and bolts tightly to ensure that your models will be strong and firm when they are completed.

Every keen and inventive Meccano model builder should obtain copies of the special Manuals "How to use Meccano Parts" and "Meccano Standard Mechanisms." These Manuals can be purchased from your dealer, or direct from Meccano Ltd., Binns Road, Liverpool 13.

## HOW TO BUILD UP YOUR OUTFIT

Meccano is sold in ten different Outfits, lettered A to L. All Meccano parts are of the same high quality and finish, but the larger Outfits contain a greater quantity and variety of parts, making possible the construction of more elaborate models. Each Outfit from A upwards can be converted into the one next higher by the purchase of an Accessory Outfit. Thus, Meccano Outfit A can be converted into a B by adding to it an Aa Accessory Outfit. A Ba would then convert it into a C Outfit, and so on. In this way, no matter with which Outfit you commence, you can build it up by degrees until you possess an L Outfit. It is important to remember that Meccano Parts can be bought separately at any time in any quantity from your Meccano dealer.

*Amateurs To-day—  
Experts To-morrow*



## ELECTRIC LIGHTING OF MECCANO MODELS

It is great fun to illuminate your Meccano models by electric light, and a special Meccano Lighting Set can be obtained from your dealer for this purpose. This consists of two spot lights with plain and coloured imitation glass discs, one stand lamp, two special brackets, and two pea lamps, operated from a 4-volt flashlamp battery (not included in the set). The stand lamp is used for decorative purposes, and the spot lights can be used as car headlamps, floodlights on cranes, and in countless other ways.

## THE "MECCANO MAGAZINE"

The *Meccano Magazine* is specially written for Meccano boys. It tells them of the latest Meccano models; what Meccano Clubs are doing; how to correspond with other Meccano boys; the Competitions that are running, etc. It contains splendid articles on such subjects as Railways, Famous Engineers and Inventors, Electricity, Chemistry, Bridges, Cranes, Wonderful Machinery, Aeronautics, Latest Patents, Radio, Stamps, Photography, Books and other topics of interest to boys, including suggestions from Meccano boys for new Meccano parts and correspondence columns in which the Editor replies to his readers' enquiries. The publishing date is the first of each month. If you are not already a reader of the *Meccano Magazine* write to the Editor for full particulars, or order a copy from your Meccano dealer or from any newsagent.

## THE MECCANO GUILD

Every owner of a Meccano Outfit should join the Meccano Guild. This is a world-wide organisation for boys, started at the request of boys, and as far as possible conducted by boys. Its primary object is to bring boys together and to make them feel that they are all members of a great brotherhood, each trying to help the others to get the very best out of life. Write for full particulars and an application form to the Meccano Guild Secretary, Binns Road, Liverpool 13.

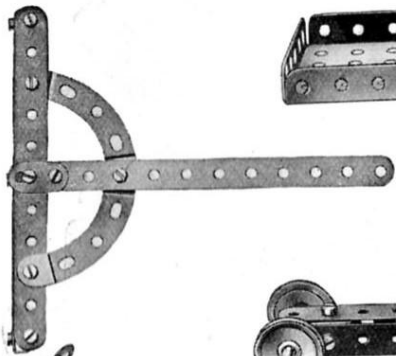
Meccano Clubs are founded and established under the guidance of the Guild Secretary at Headquarters, and at the present time there are active Clubs in nearly 250 towns and villages in the United Kingdom, and more than 100 in countries overseas. Each Club has its Leader, Secretary, Treasurer, and other officials, all of whom, with the exception of the Leader, are boys.

Special Merit Medallions are awarded to Club members for good work in connection with their Club, and Recruiting Medallions are awarded in connection with the Recruiting Campaign, full particulars of which will be sent on request.

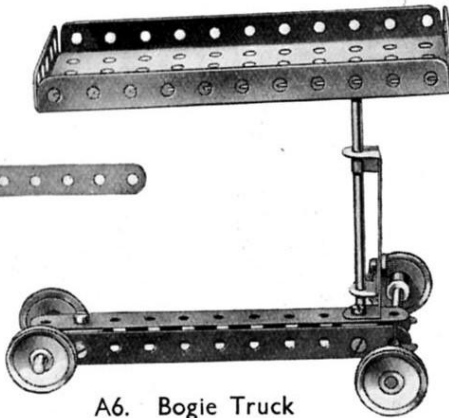
## MECCANO SERVICE

The service of Meccano does not end with selling an Outfit and an Instruction Manual. When you want to know something more about engineering than is now shown in our books, or when you strike a tough problem of any kind, write to us. We receive over 200 letters from boys every day all the year round. Although all kinds of queries are put to us on all manner of subjects, the main interest is, of course, engineering. No one has such a wonderful knowledge of engineering matters as that possessed by our staff of experts. This vast store of knowledge, gained only by many years of hard-earned experience, is at your service. *We want the Meccano boy of to-day to be the famous engineer of to-morrow.*

A1. Rake

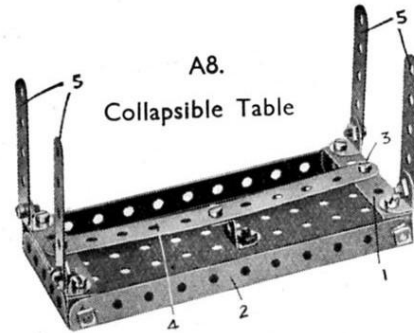


A5. Bed Table



A8.

Collapsible Table



The  $2\frac{1}{2}'' \times \frac{1}{2}''$  Double Angle Strips 1 are attached to the  $5\frac{1}{2}'' \times 2\frac{1}{2}''$  Flanged Plate 2 by lock-nutted Bolts as in Standard Mechanism No. 1A. The Bolts 3 are secured to the  $5\frac{1}{2}''$  Strip 4 and their shanks engage with the centre holes in the  $2\frac{1}{2}'' \times \frac{1}{2}''$  Double Angle Strips 1, thus maintaining the legs 5 in an upright position. When it is desired to fold up the legs 5, it is only necessary to raise the ends of the Strip 4, thus freeing the Double Angle Strips 1. The table is shown in the folded position in Fig. A8a.

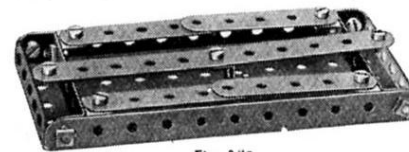
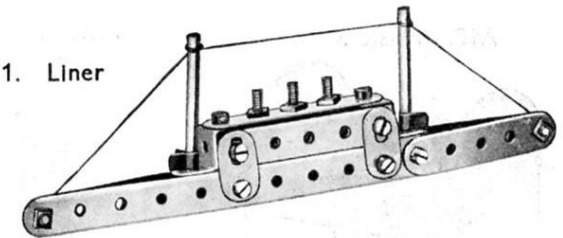
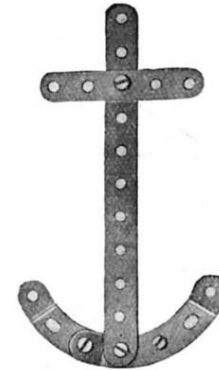


Fig. A8a

A11. Liner



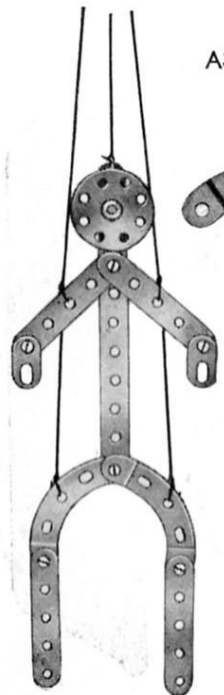
A12. Anchor



A16. Go-chair



A2. Jumping Jack



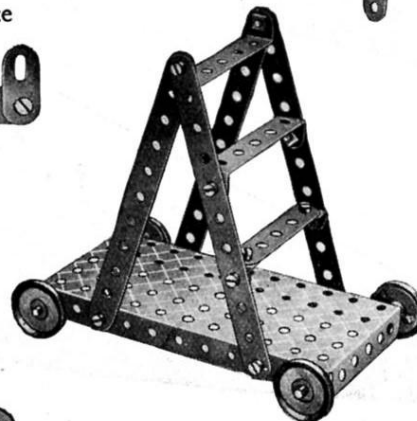
A3. Sword



A9. Dog



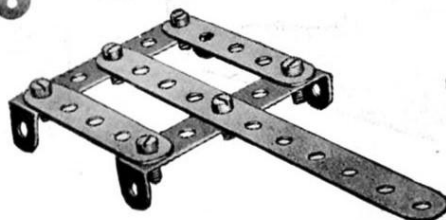
A10. Ladder on Wheels



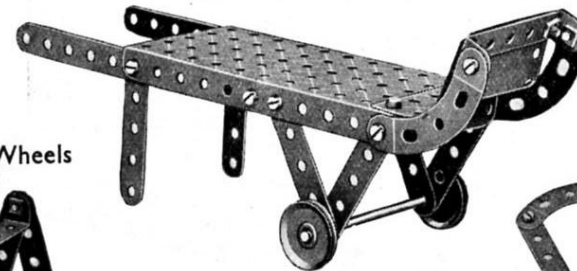
A7. Roman Balance



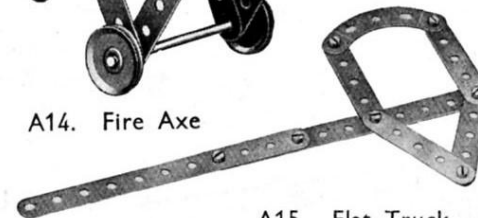
A4. Grill



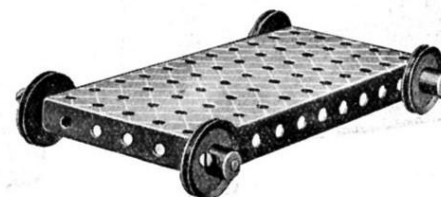
A13. Hand Truck



A14. Fire Axe



A15. Flat Truck



A17. Telegraph Pole



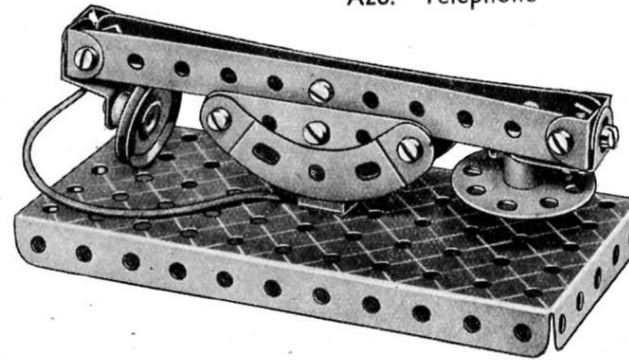
A18. Music Stool



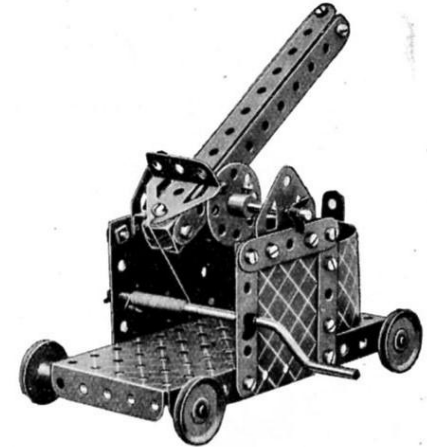
A21. Shafting Standard



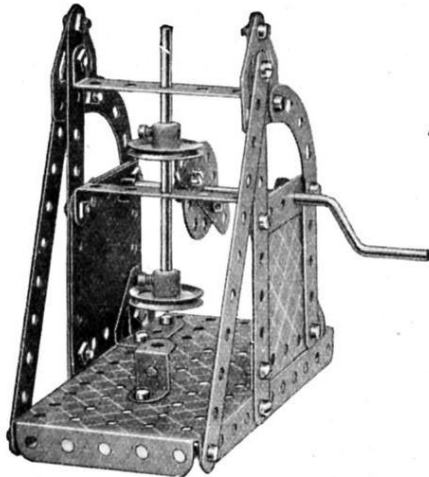
A23. Telephone



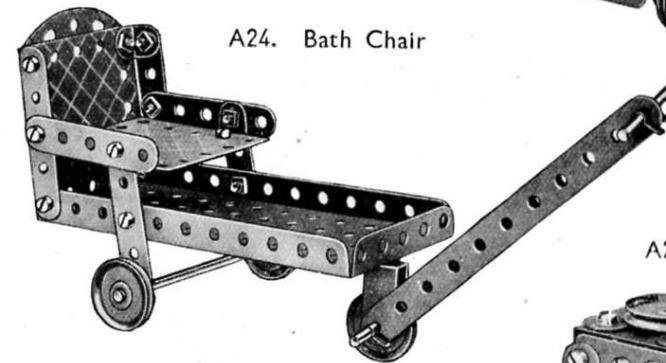
A26. Anti-aircraft Gun



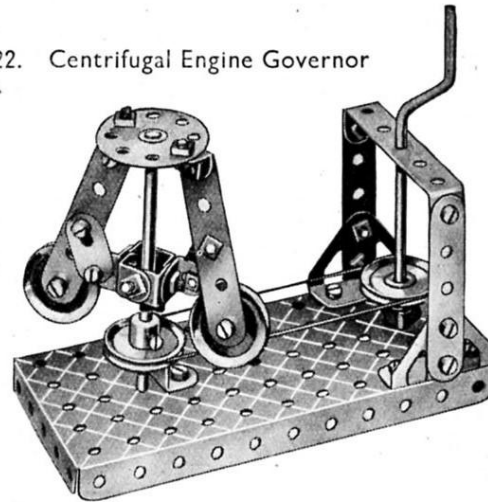
A19. Ore Crusher



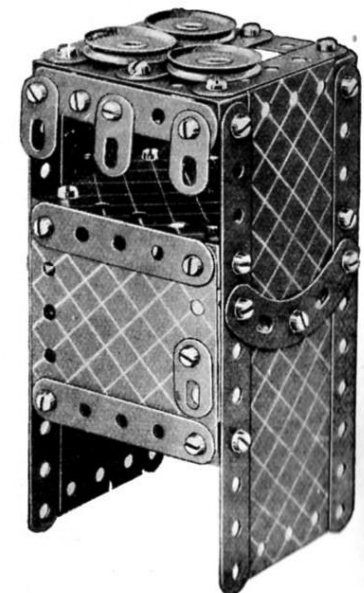
A24. Bath Chair



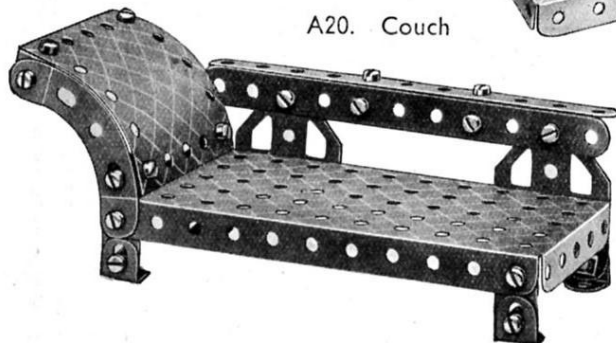
A22. Centrifugal Engine Governor



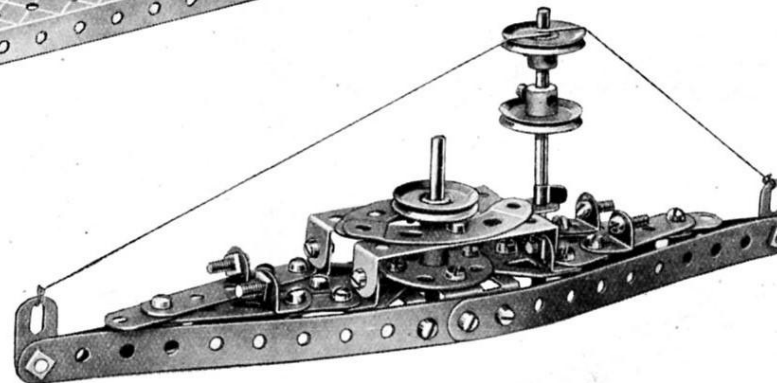
A27. Gas Stove



A20. Couch

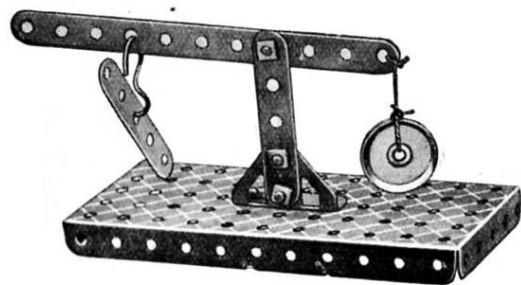


A25. Battleship

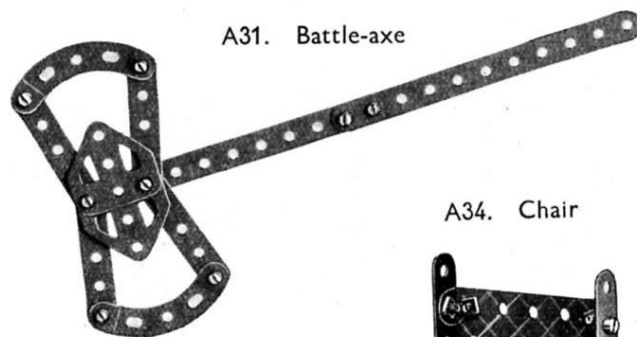




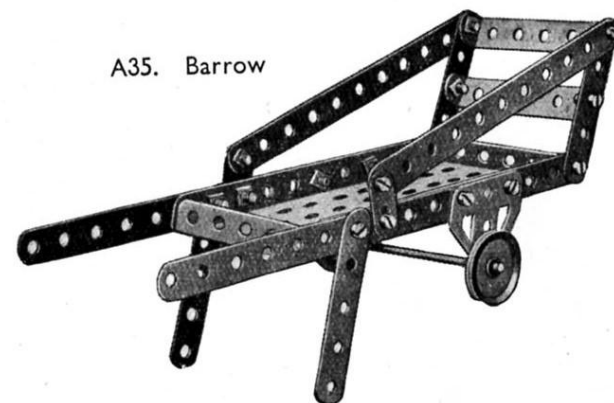
A28. Lever of the First Order



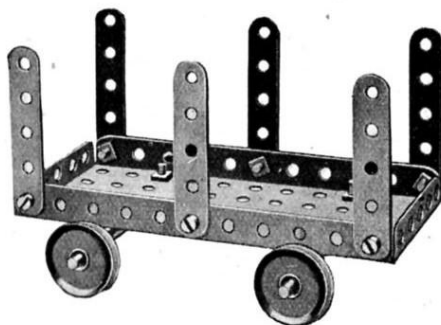
A31. Battle-axe



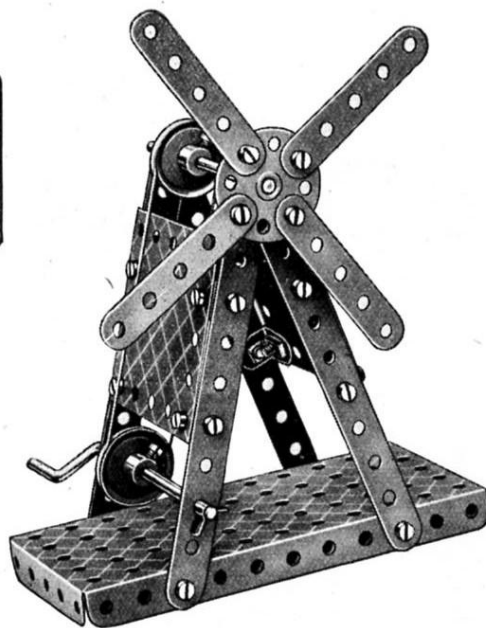
A35. Barrow



A29. Timber Truck



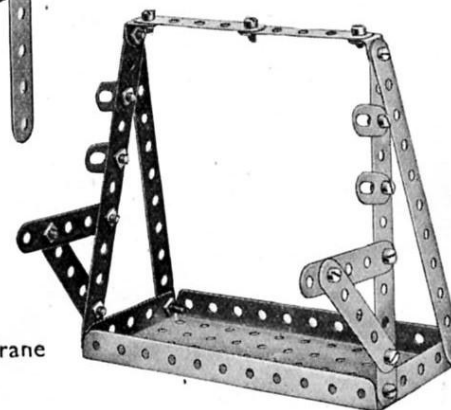
A32. Windmill



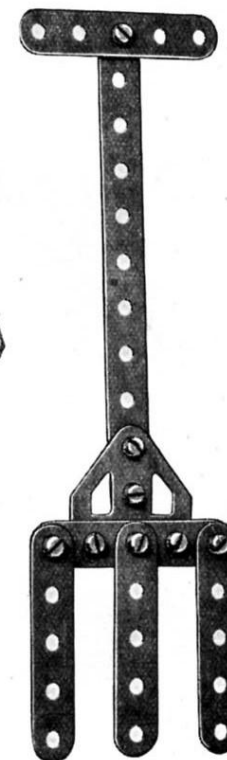
A34. Chair



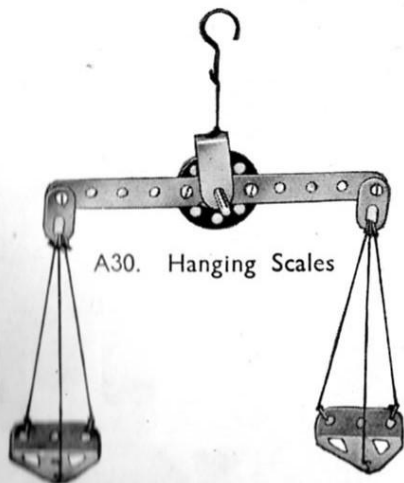
A36. Pen Rack



A38. Fork



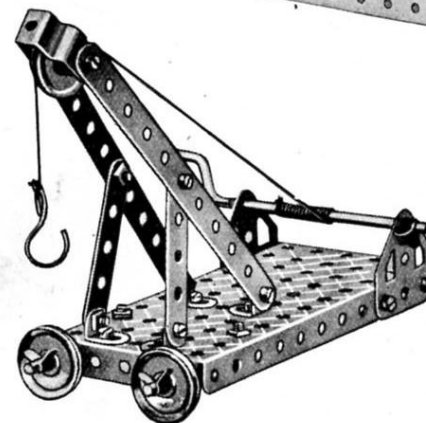
A30. Hanging Scales



A33. Flat Truck

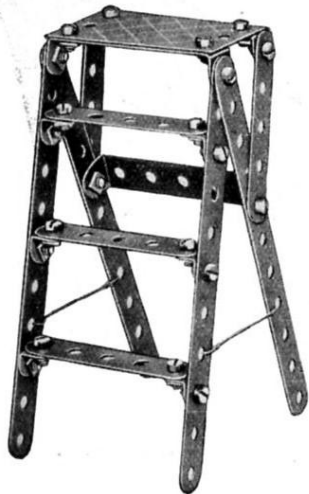


A37. Revolving Crane

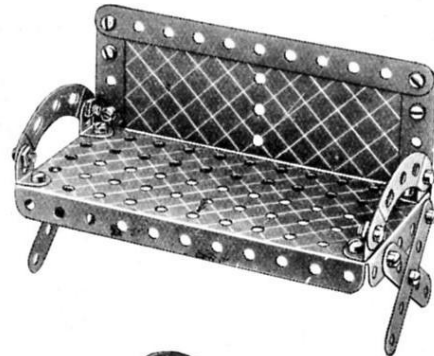


## These Models can be built with MECCANO Outfit A

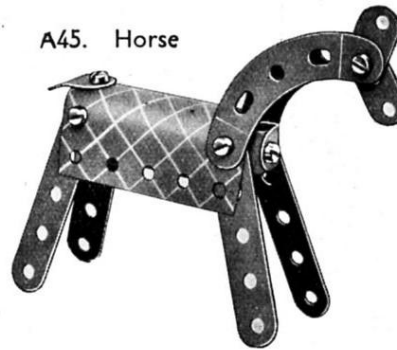
A39. Step Ladder



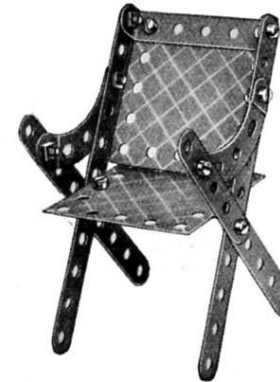
A42. Garden Seat



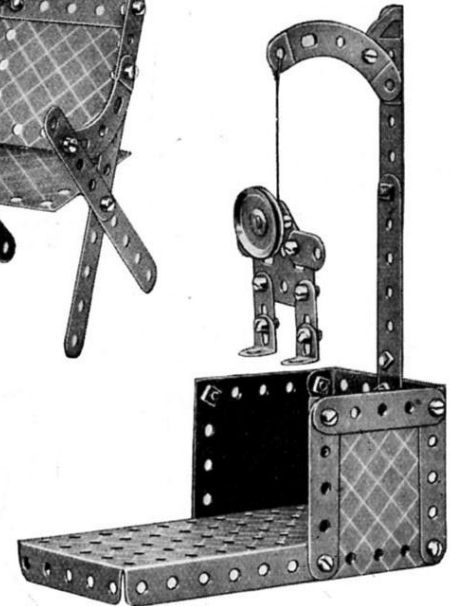
A45. Horse



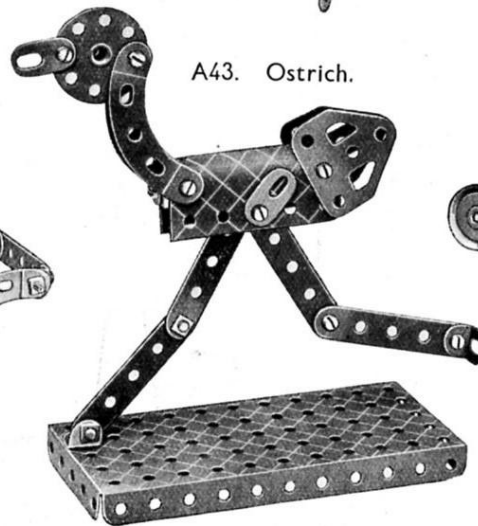
A48. Arm Chair



A49. Gallows



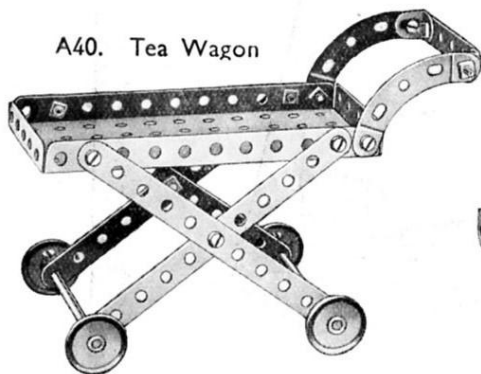
A43. Ostrich.



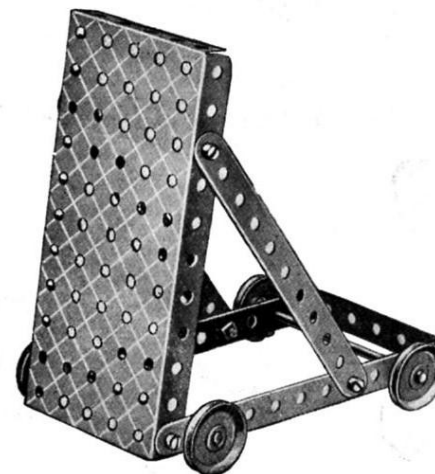
A46. Devil Wall



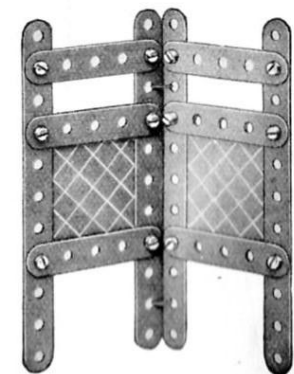
A40. Tea Wagon



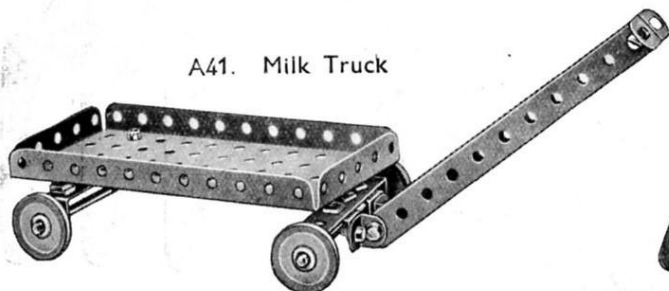
A47. Gravel Sifter



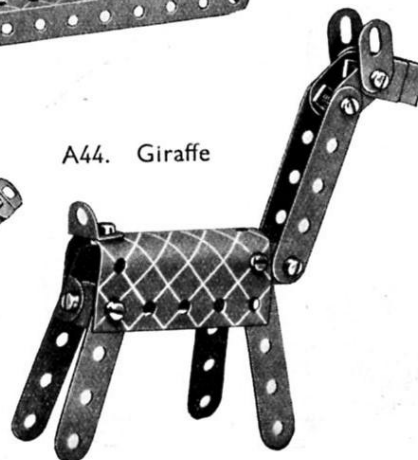
A50. Fire Screen



A41. Milk Truck

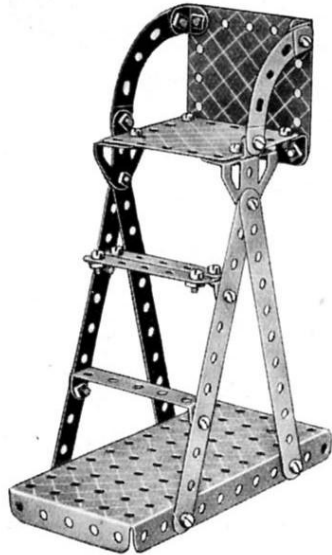


A44. Giraffe

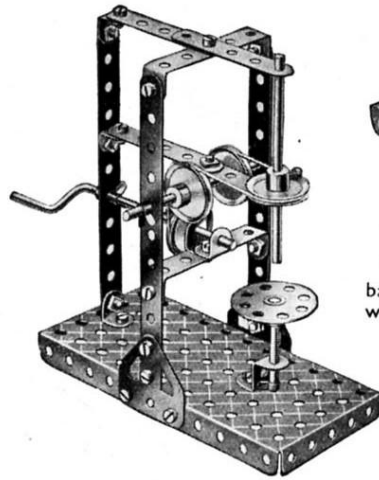




A51. Umpire's Seat

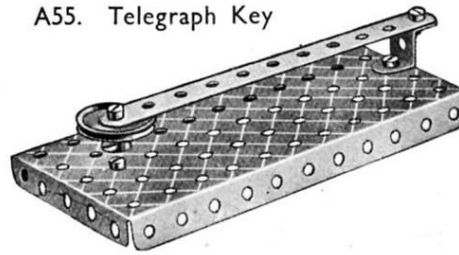


A52. Drilling Machine



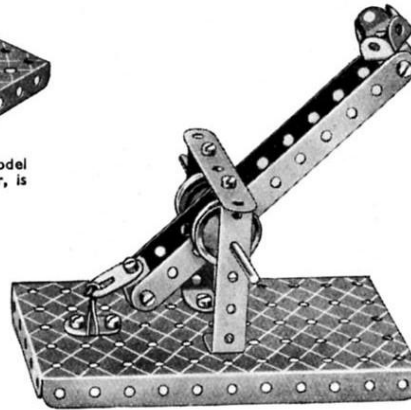
An alternative design of this model (A52M), fitted with the *Magic Motor*, is shown on page 9.

A55. Telegraph Key

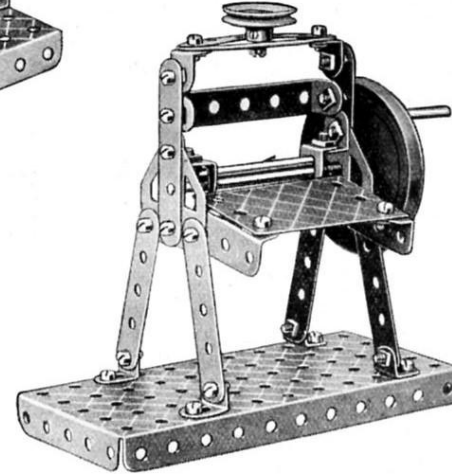


A56. Catapult

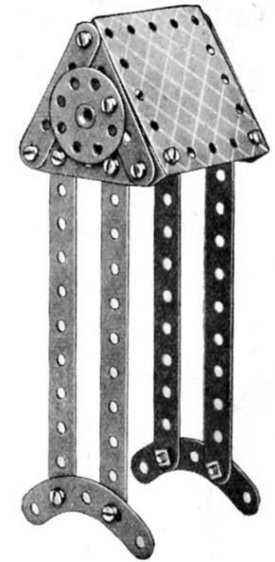
The pivoted arm is connected to the base by means of a short piece of elastic which is not provided in the Outfit.



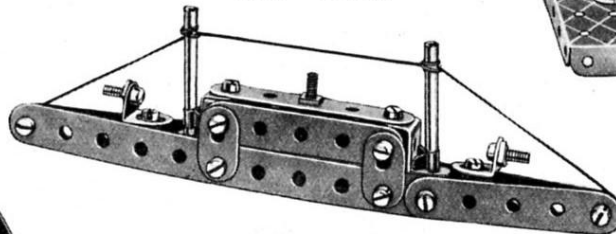
A58. Wringing Machine



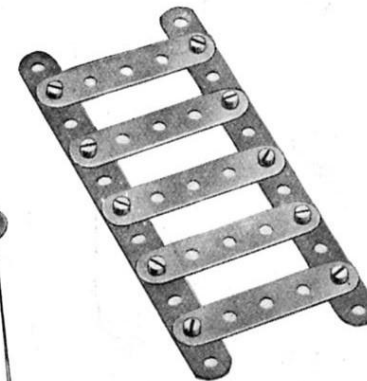
A60. Grandfather Clock



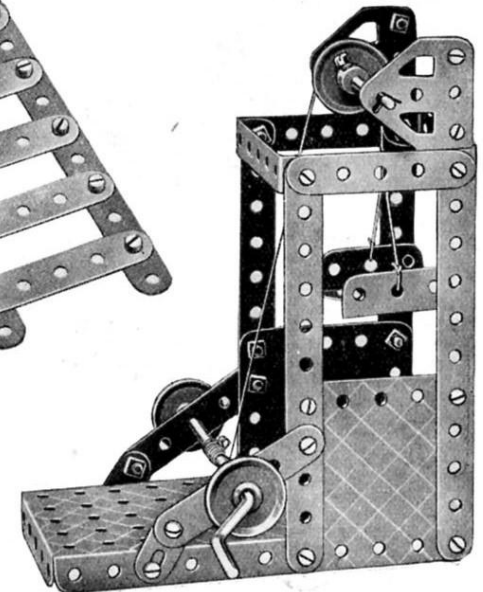
A53. Cruiser



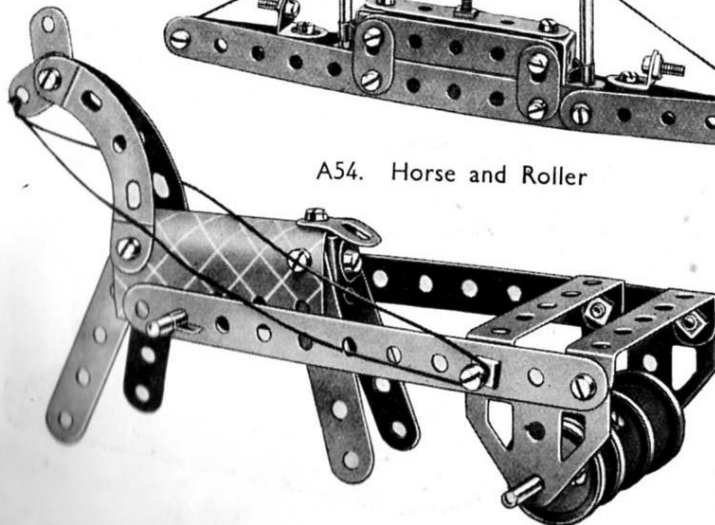
A59. Ladder



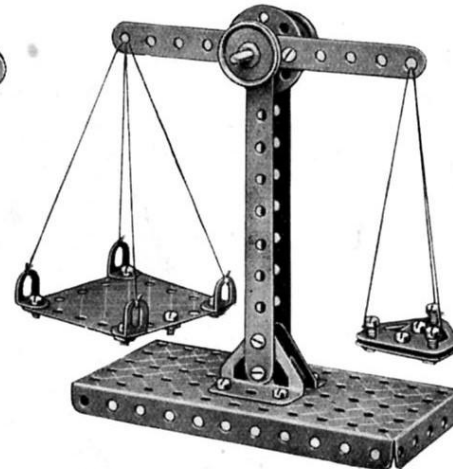
A61. Pit-head Gear



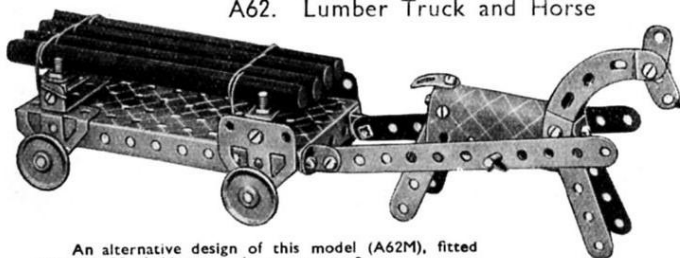
A54. Horse and Roller



A57. Scales



A62. Lumber Truck and Horse



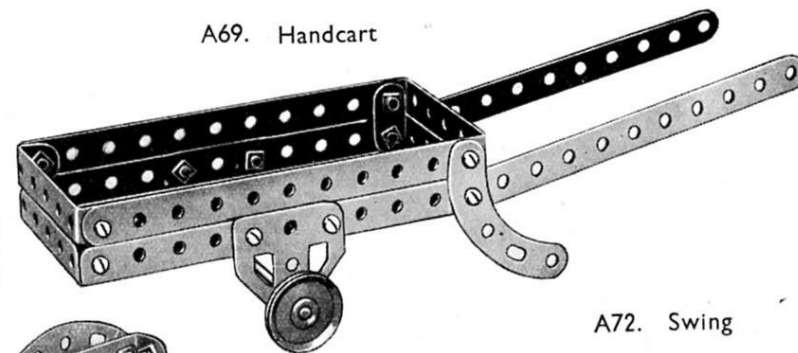
An alternative design of this model (A62M), fitted with the Magic Motor, is shown on page 9.

A67. Magic Plate

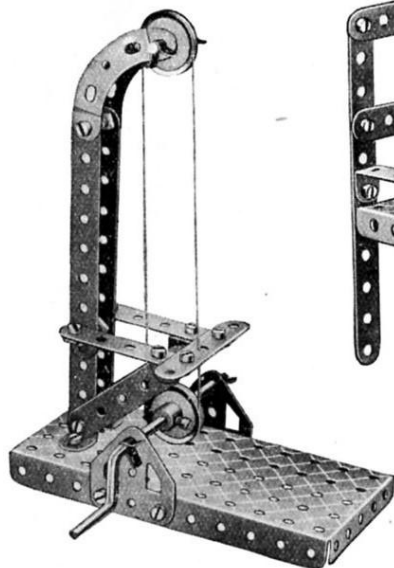
The cord is wound once round a 2" Axle Rod that is journaled in a  $\frac{1}{2}$ " Reversed Angle Bracket, which is bolted to the Plate. If the cord is held loosely the Plate will drop, but as soon as the cord is tightened the Plate becomes immovable.



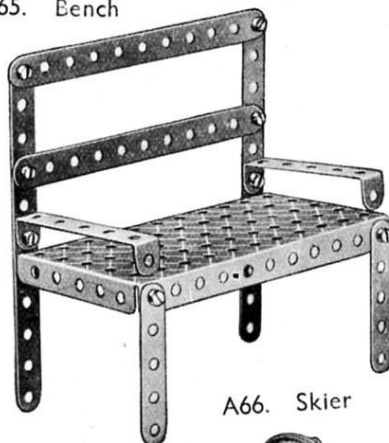
A69. Handcart



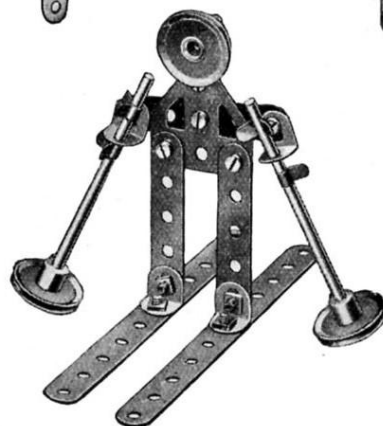
A63. Band Saw



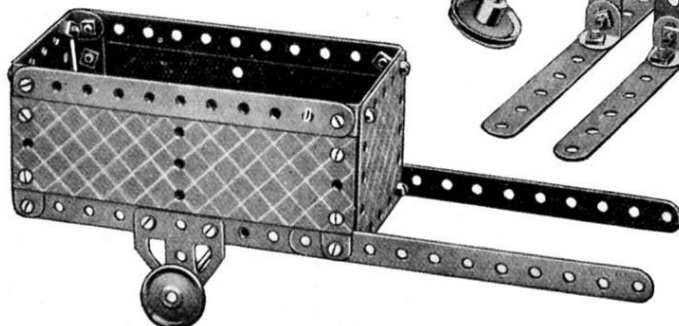
A65. Bench



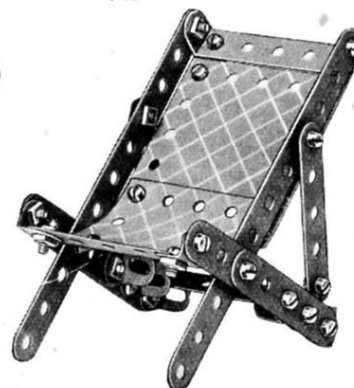
A66. Skier



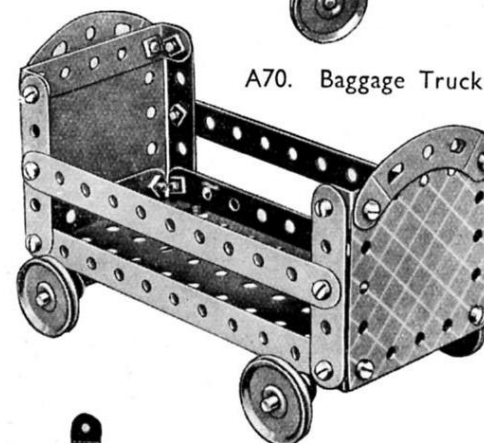
A64. Cart



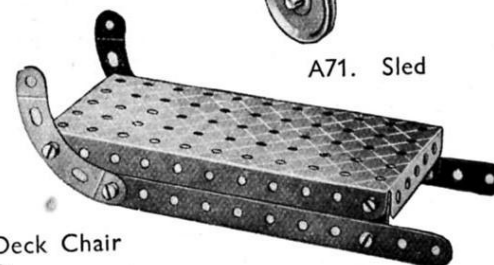
A68. Deck Chair



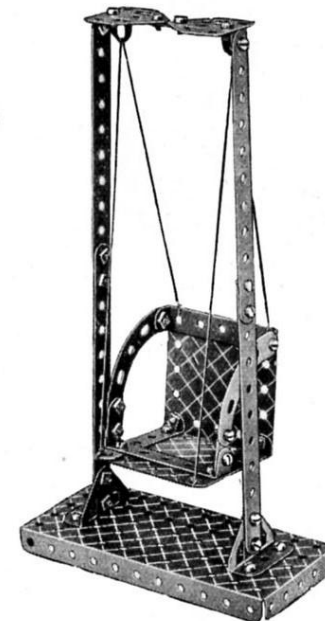
A70. Baggage Truck



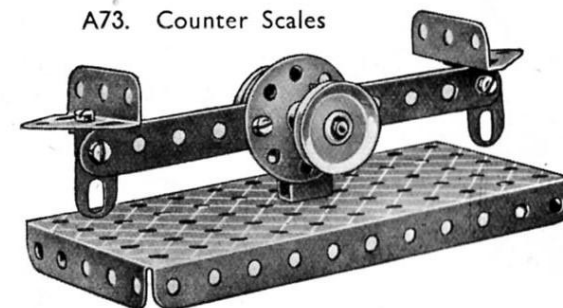
A71. Sled



A72. Swing

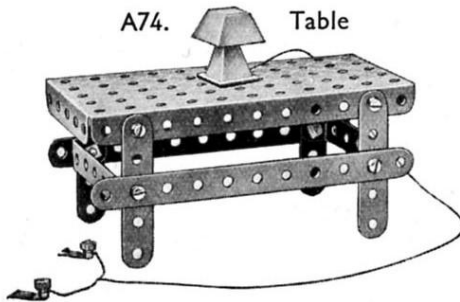


A73. Counter Scales

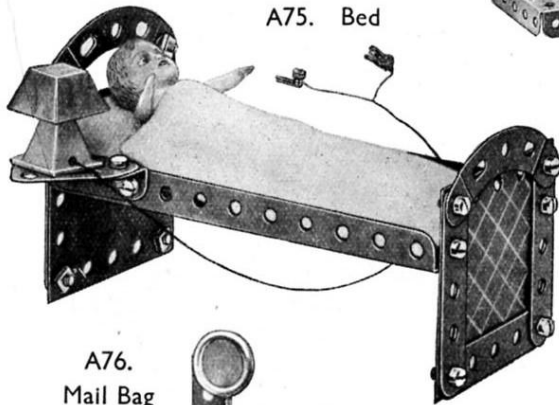
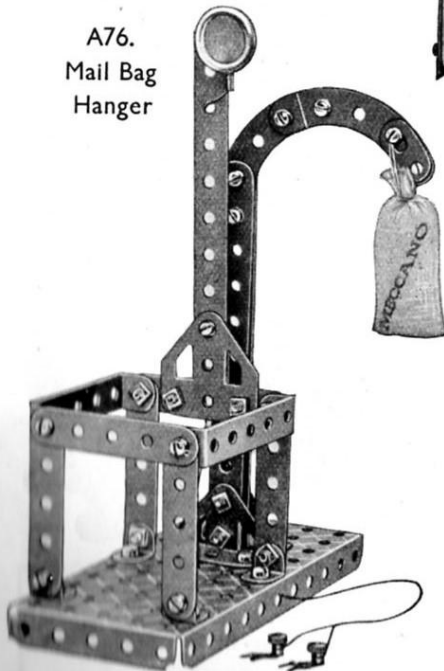
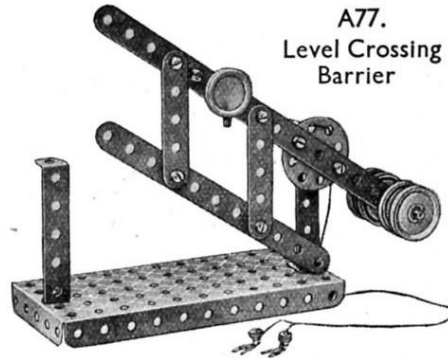
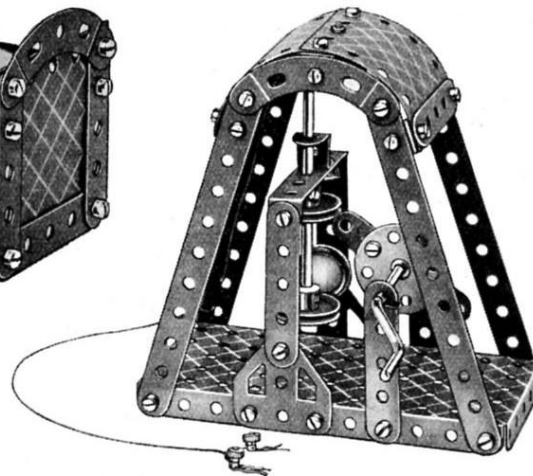




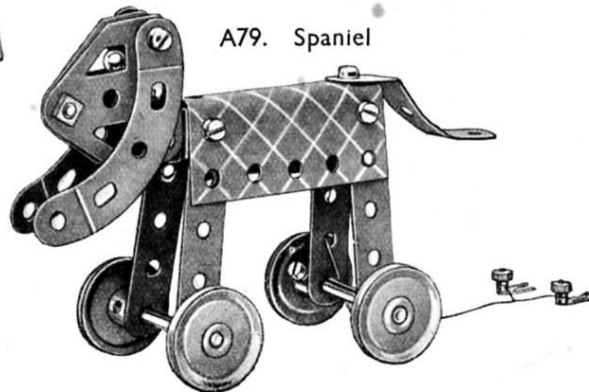
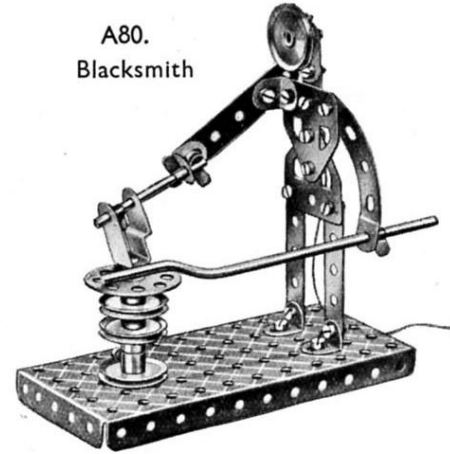
A74. Table



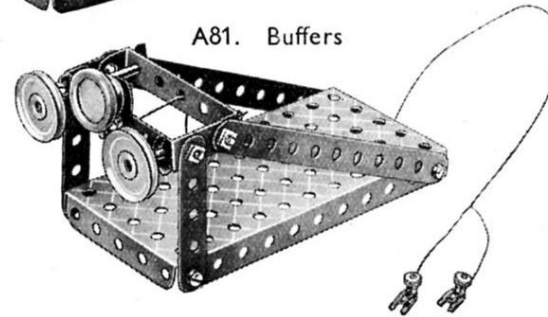
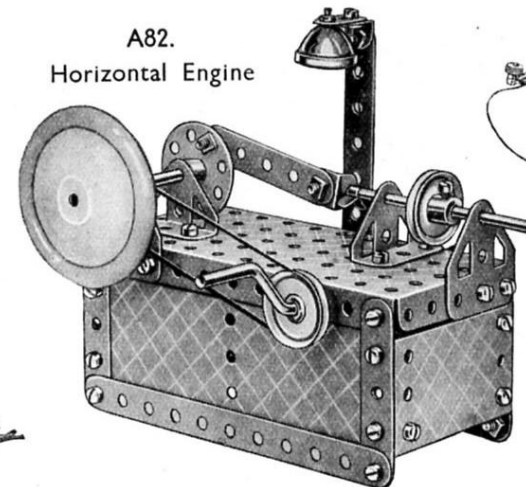
A75. Bed

A76.  
Mail Bag  
HangerA77.  
Level Crossing  
BarrierA78.  
Stamping Mill

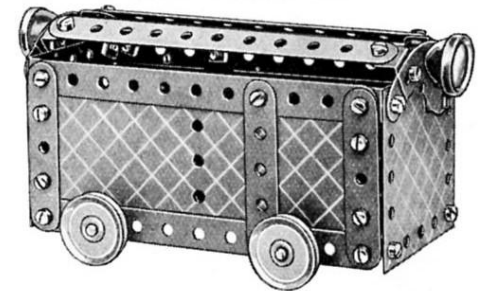
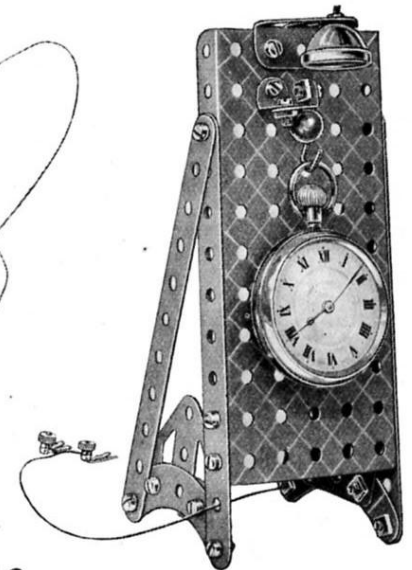
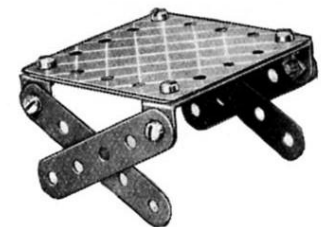
A79. Spaniel

A80.  
Blacksmith

A81. Buffers

A82.  
Horizontal Engine

A83. Pullman Car

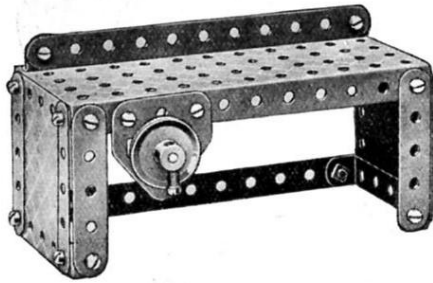
A84.  
Watch StandA85.  
Coffee Table

An alternative design of this model (A82M), fitted with the Magic Motor, is shown on page 9.

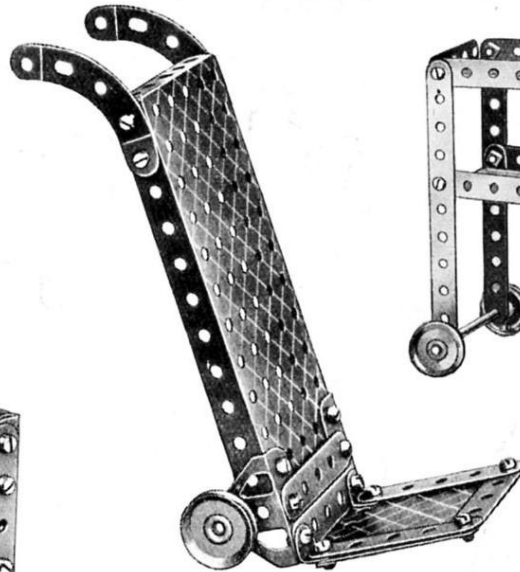
This page shows examples of the use of the Meccano Lighting Set, described on page 2 of cover

These Models can be built with **MECCANO Outfit A**

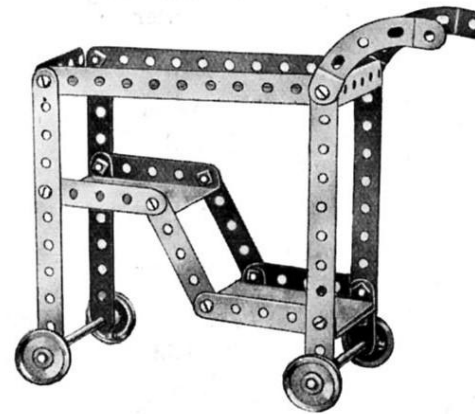
A86. Joiner's Bench



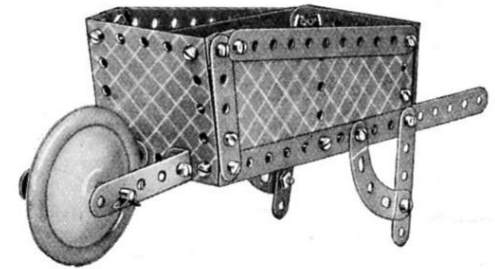
A89. Porter's Trolley



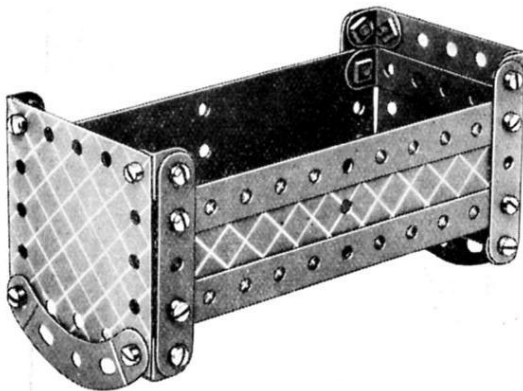
A91. Dinner Wagon



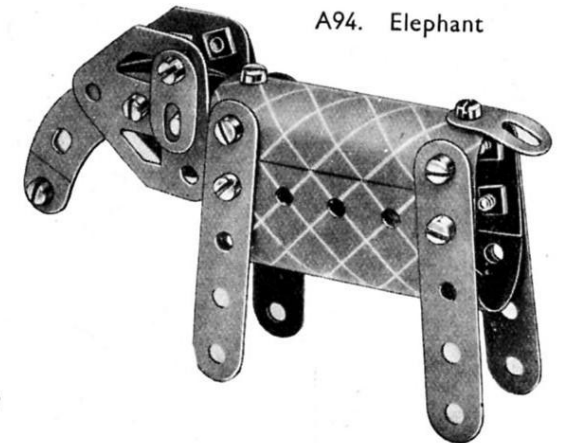
A93. Wheelbarrow



A87. Cot



A94. Elephant



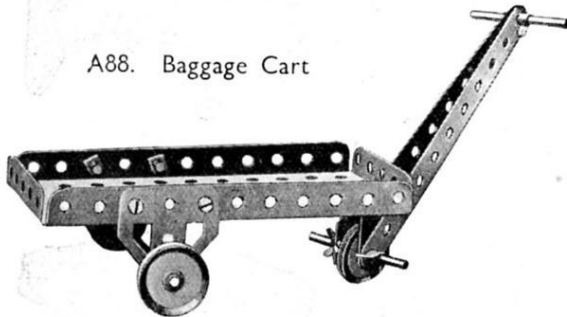
A92. Top



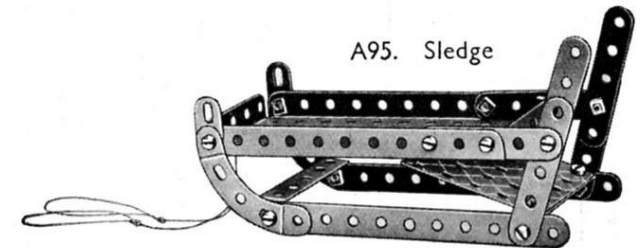
A90. Calf



A88. Baggage Cart



A95. Sledge

**HOW TO CONTINUE**

When you have built the A Outfit Models illustrated, and fitted a number of them with the Meccano *Magic* Motor (see opposite page), your next step is to purchase an Aa Accessory Outfit. This converts your A Outfit into a B and enables you to build bigger and better models.



The greatest thrill in Meccano model-building is experienced when a model is set to work by means of a Meccano Motor. The illustrations below show how the new Meccano *Magic Motor* can be fitted without any difficulty to Outfit A Models of various types. Fit the model you have just built with one of these wonderful Motors, and enjoy the fun of watching it work just like the real thing. Models A52M, A62M and A82M are more elaborate variations of Manual models A52, A62 and A82. Try your hand at re-designing other models in a similar manner, and become a real inventor.

### A96. BREAKDOWN CRANE

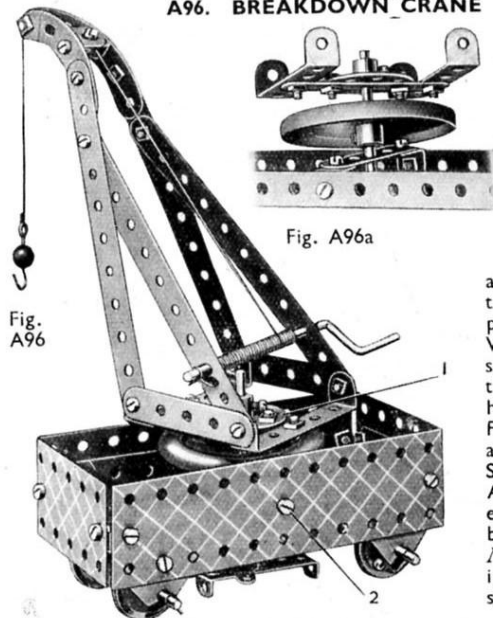


Fig. A96

Fig. A96a

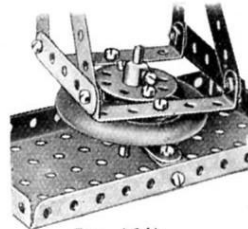


Fig. A96b

The crane swivels on an Axle Rod secured in the Bush Wheel 1 and passed through a Road Wheel before being inserted in a  $2\frac{1}{2}$ " Strip and through the centre hole of a  $5\frac{1}{2}$ "  $\times$   $2\frac{1}{2}$ " Flanged Plate. The arrangement of the  $2\frac{1}{2}$ " Strip can be seen in Fig. A96b, the Angle Brackets being fixed by the bolts 2 (Fig. A96). The *Magic Motor* is mounted in the same manner as shown in Fig. A62Ma.

### A97. TRIP HAMMER

The hammer is pivoted at 1 on two Angle Brackets that are bolted through the slots to the centre hole of the  $5\frac{1}{2}$ " Strip. A 2" Axle Rod passes through the Angle Brackets and is supported in Trunnions bolted to the Plate.

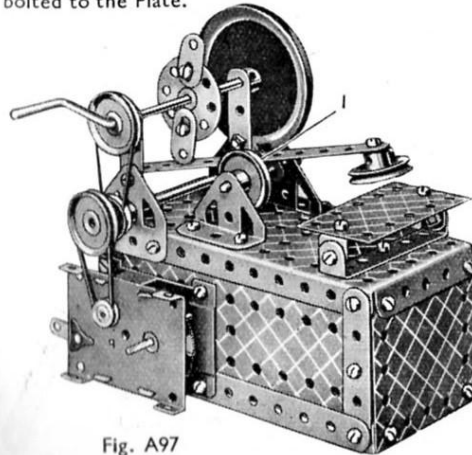


Fig. A97

### A52M. DRILLING MACHINE

The drill Rod is journaled at the top in a Flat Bracket bolted to two Angle Brackets, and at its lower end in two Angle Brackets 1 that are bolted to a Strip attached to the vertical member of the drill. The drill table is supported by a  $2\frac{1}{2}$ "  $\times$   $\frac{1}{2}$ " Double Angle Strip 2. A Spring Clip retains the free Pulley 3 in place.

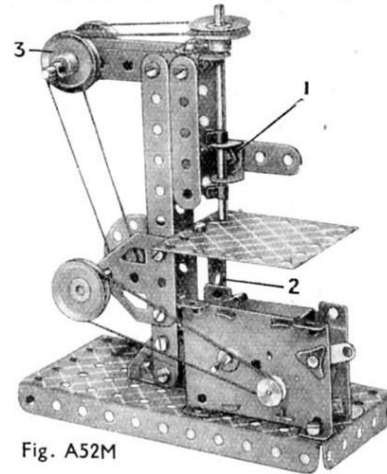


Fig. A52M

### A82M. HORIZONTAL ENGINE

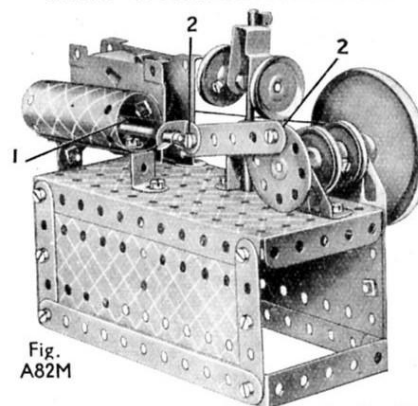


Fig. A82M

The cylinder is composed of a  $2\frac{1}{2}$ "  $\times$   $2\frac{1}{2}$ " Flexible Plate and a  $2\frac{1}{2}$ "  $\times$   $1\frac{1}{2}$ " Flexible Plate, and two Angle Brackets are bolted inside the cylinder to serve as guides for the piston rod. One of the Brackets is seen at 1. The bolts 2 are locknotted (see page 29), to form pivots.

### A62M. LUMBER TRUCK AND HORSE

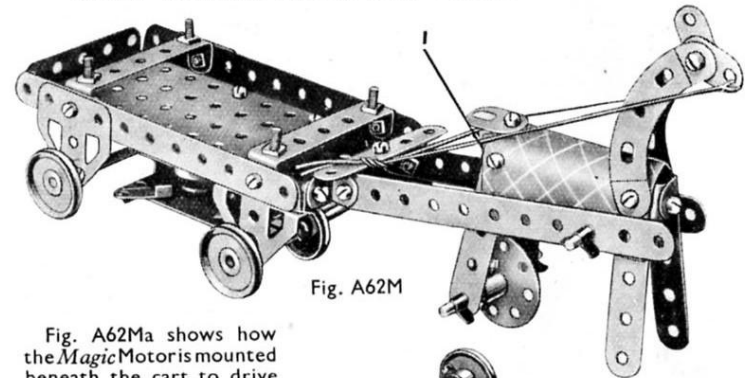


Fig. A62M

Fig. A62Ma shows how the *Magic Motor* is mounted beneath the cart to drive the front Wheels. The Pulley supplied with the Motor is mounted on the front Axle, and the rubber band should be fitted as shown. Two Angle Brackets secure the front legs of the horse, and this construction is duplicated at 1 for the hind legs. The forelegs are kept off the ground by means of the reins.

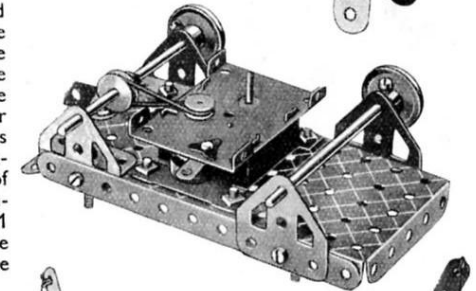


Fig. A62Ma

### A98. ROUNDABOUT

Fig. A98a shows how the bearing for the vertical Rod is formed. The Rod is driven from the *Magic Motor* by means of a rubber band passed round the 1" Pulley and round the Motor Pulley as can be seen in Fig. A98.

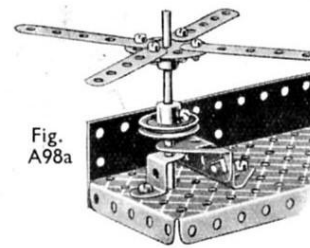


Fig. A98a

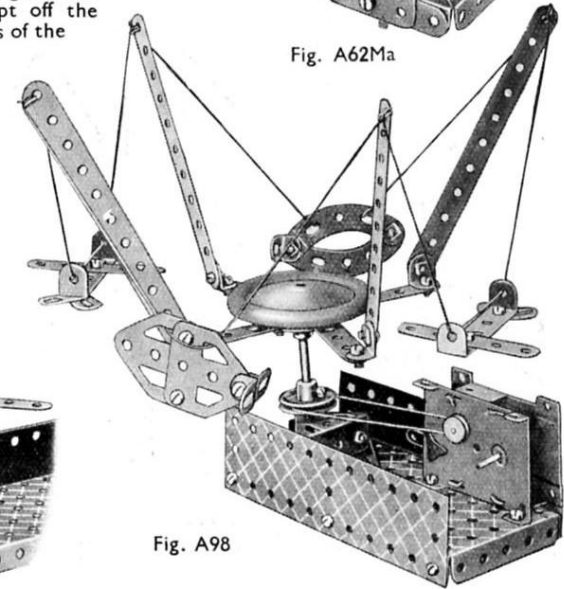
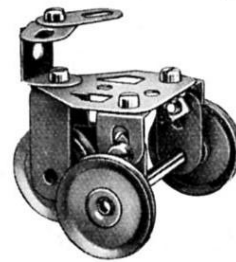


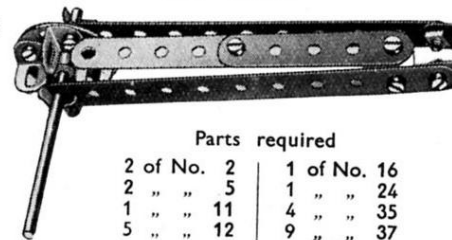
Fig. A98

**B1. Man and Boy**

Parts required	
4 of No.	2
2 " "	5
5 " "	10
1 " "	11
8 " "	12
1 " "	22
1 " "	24
25 " "	34
1 " "	52
2 " "	54a
1 " "	90a
2 " "	111c
2 " "	125
1 " "	126a

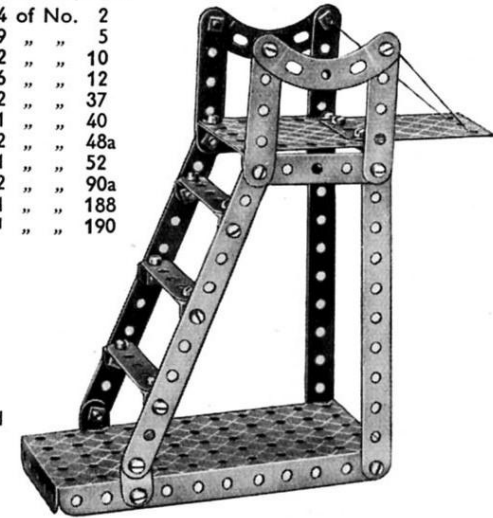
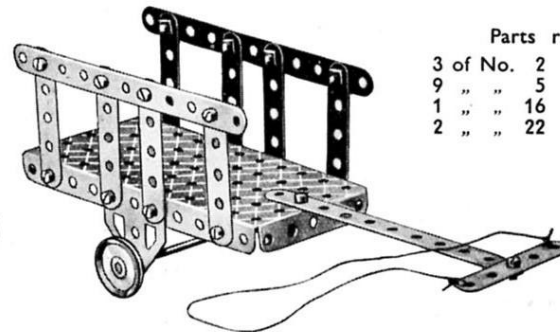
**B4. Tricycle**

Parts required	
4 of No.	10
1 " "	11
2 " "	12
1 " "	17
3 " "	22
6 " "	37
1 " "	45
1 " "	111c
1 " "	126a

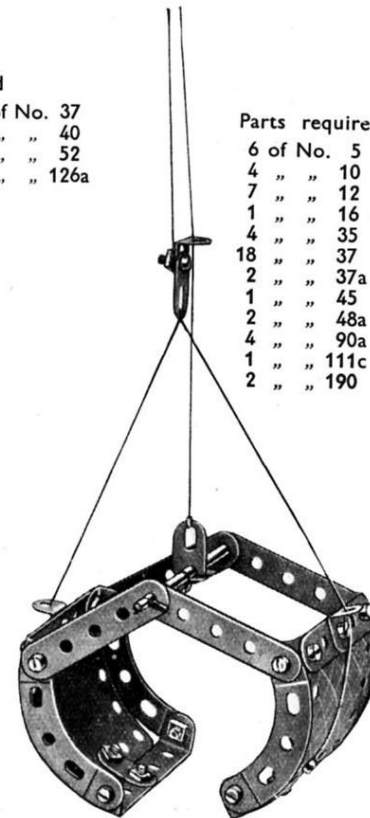
**B7. Rattle**

Parts required	
2 of No.	2
2 " "	5
1 " "	11
5 " "	12
1 of No.	16
1 " "	24
4 " "	35
9 " "	37

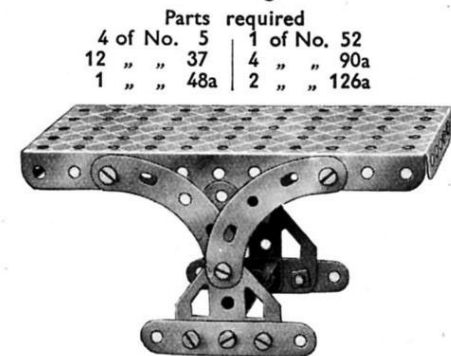
Parts required	
4 of No.	2
9 " "	5
2 " "	10
6 " "	12
32 " "	37
1 " "	40
2 " "	48a
1 " "	52
2 " "	90a
1 " "	188
1 " "	190

**B9. High Diving Board****B5. Bullock Cart**

Parts required	
3 of No.	2
9 " "	5
1 " "	16
2 " "	22
18 of No.	37
1 " "	40
1 " "	52
2 " "	126a

**B8. Crane Grab**

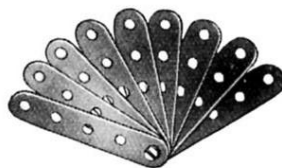
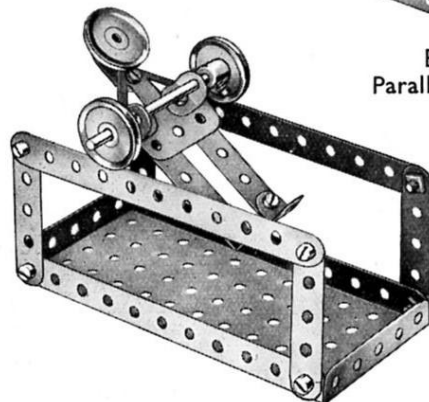
Parts required	
6 of No.	5
4 " "	10
7 " "	12
1 " "	16
4 " "	35
18 " "	37
2 " "	37a
1 " "	45
2 " "	48a
4 " "	90a
1 " "	111c
2 " "	190

**B10. Drafting Table**

Parts required	
4 of No.	5
12 " "	37
1 " "	48a
1 of No.	52
4 " "	90a
2 " "	126a

**B2. Fan**

Parts required	
9 of No.	5
1 " "	37a
1 " "	111c

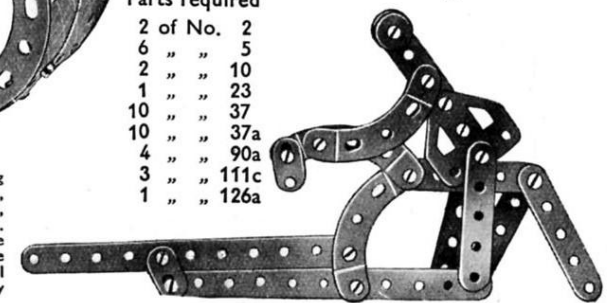
**B3. Parallel Bars**

Parts required	
2 of No.	2
6 " "	5
1 " "	10
4 " "	12
1 " "	16
3 " "	22
2 " "	35
13 " "	37
1 " "	52
1 " "	111c
1 " "	126a

**B6. Walking Man**

Parts required	
5 of No.	5
3 " "	10
2 " "	12
1 " "	22
5 " "	37
1 " "	37a
3 " "	90a
2 " "	111c

The  $\frac{3}{8}$ " Bolts used for connecting the  $\frac{5}{16}$ " Strips, the horse's legs, and the rider's legs and arms, are all locknuted (see page 29). The lower  $\frac{5}{16}$ " Strip should be held rigidly and the upper only jerked forward; the horse will then throw its rider completely over its head

**B11. Bucking Broncho**

Parts required	
2 of No.	2
6 " "	5
2 " "	10
1 " "	23
10 " "	37
10 " "	37a
4 " "	90a
3 " "	111c
1 " "	126a



**B12. Catapult**

Parts required  
4 of No. 37  
4 " " 90a  
A short length  
of elastic

**B13. Coster's Barrow**

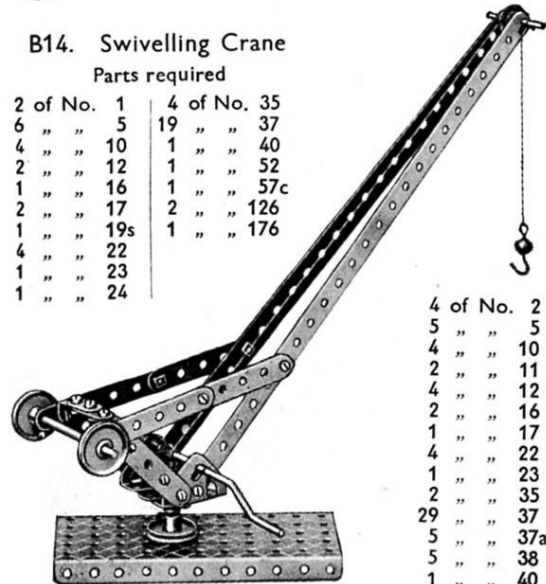
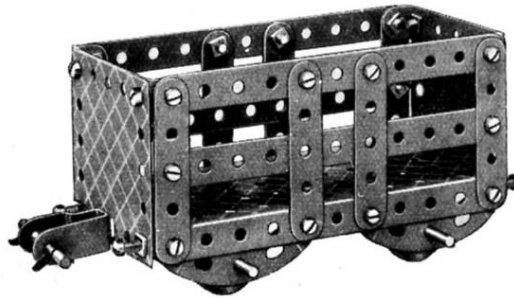
Parts required

2 of No. 2	13 of No. 37
4 " " 5	1 " " 45
2 " " 10	2 " " 48a
1 " " 11	1 " " 52
2 " " 12	
1 " " 17	
1 " " 24	

**B14. Swivelling Crane**

Parts required

2 of No. 1	4 of No. 35
6 " " 5	19 " " 37
4 " " 10	1 " " 40
2 " " 12	1 " " 52
1 " " 16	1 " " 57c
2 " " 17	2 " " 126
1 " " 19s	1 " " 176
4 " " 22	
1 " " 23	
1 " " 24	

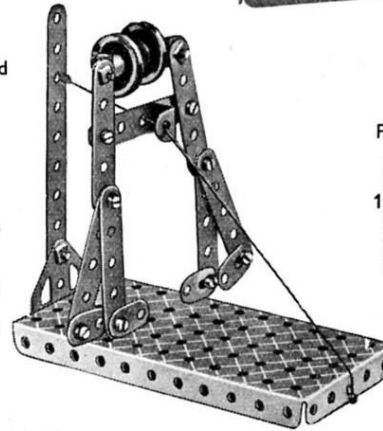
**B15. Cattle Truck**

4 of No. 2	9 of No. 37a
8 " " 5	1 " " 45
2 " " 16	2 " " 48a
1 " " 18a	1 " " 52
4 " " 22	4 " " 90a
2 " " 35	4 " " 111c
25 " " 37	2 " " 190

**B16. Wrestlers**

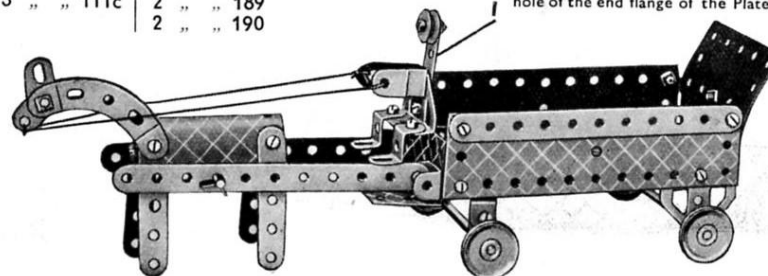
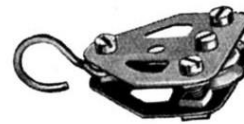
Parts required

1 of No. 2	
7 " " 5	
4 " " 10	
2 " " 12	
2 " " 22	
13 " " 37	
6 " " 37a	
1 " " 40	
1 " " 52	
4 " " 111c	
1 " " 125	
1 " " 126a	



Parts required

1 of No. 44	2 of No. 125
1 " " 48a	1 " " 126
1 " " 52	2 " " 126a
2 " " 90a	2 " " 188
3 " " 111c	2 " " 189
	2 " " 190

**B18. Single Sheave Pulley Block**

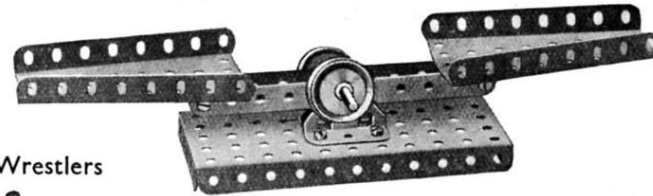
Parts required

1 of No. 23	
11 " " 37a	
1 " " 57c	
4 " " 111c	
2 " " 126a	

**B19. Scales**

Parts required

2 of No. 2	2 of No. 22	1 of No. 52
2 " " 11	10 " " 37	2 " " 54a
1 " " 17	4 " " 38	2 " " 126



The fun is greatly increased if this model is fitted with a Meccano Magic Motor. Examples of the uses of the Motor are shown on pages 9, 24 and 25.

**B20. Card Table**

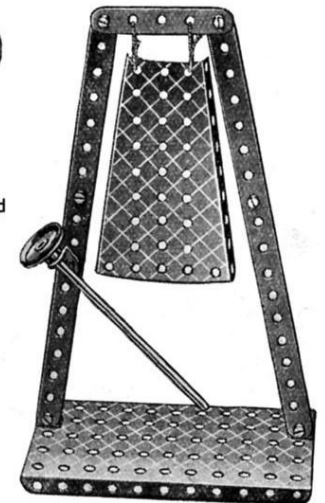
Parts required

4 of No. 5	
2 " " 12	
10 " " 37	
1 " " 48a	
4 " " 90a	
1 " " 190	



Parts required

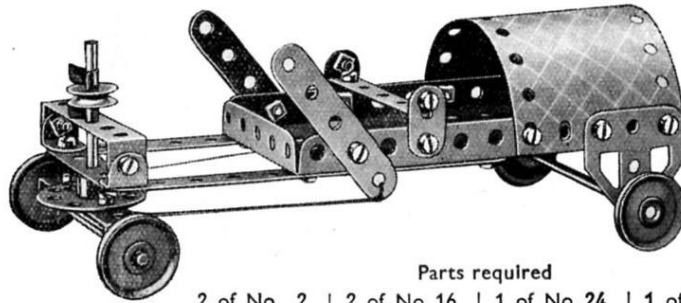
4 of No. 2	28 of No. 37
8 " " 5	1 " " 37a
6 " " 12	1 " " 40
2 " " 16	1 " " 45
1 " " 19s	2 " " 48a
4 " " 22	1 " " 52
1 " " 24	2 " " 126a
6 " " 35	1 " " 190

**B22. Gong**

Parts required

4 of No. 2	
1 " " 5	
3 " " 12	
1 " " 16	
1 " " 22	
9 " " 37	
1 " " 40	
1 " " 52	
1 " " 54a	

B23. Coaster



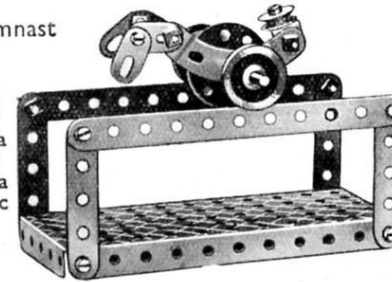
Parts required

2 of No. 2	2 of No. 16	1 of No. 24	1 of No. 40
4 " " 5	1 " " 17	2 " " 35	2 " " 48a
2 " " 10	4 " " 22	24 " " 37	1 " " 52
4 " " 12	1 " " 23	2 " " 37a	2 " " 126a
			1 " " 191

B26. Gymnast

Parts required

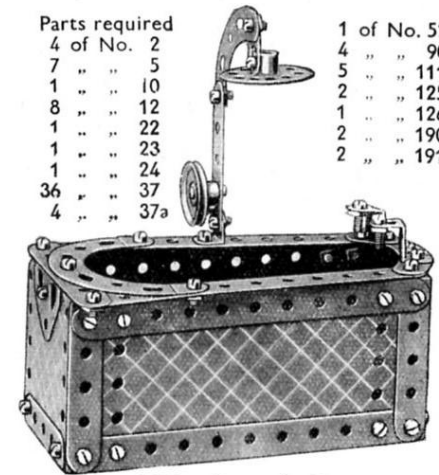
2 of No. 2	1 of No. 24
4 " " 5	13 " " 37
4 " " 10	1 " " 37a
1 " " 12	1 " " 52
1 " " 16	1 " " 90a
2 " " 22	1 " " 111c
1 " " 23	



B29. Bath with Shower

Parts required

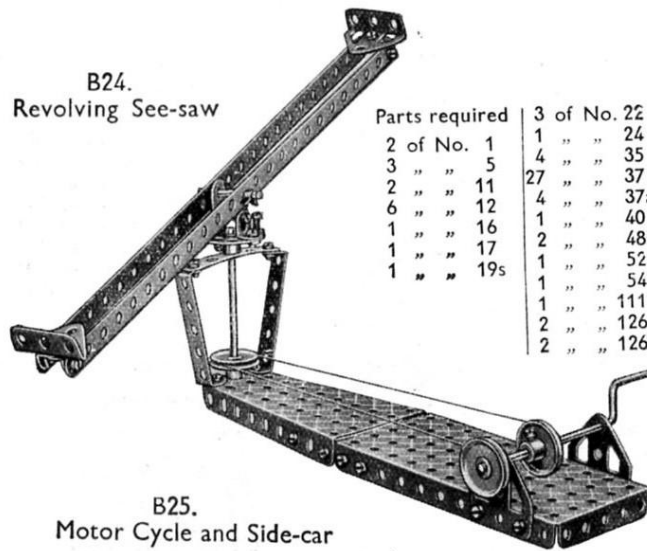
4 of No. 2	1 of No. 52
7 " " 5	4 " " 90a
1 " " 10	5 " " 111c
8 " " 12	2 " " 125
1 " " 22	1 " " 126
1 " " 23	2 " " 190
1 " " 24	2 " " 191
1 " " 37	
36 " " 37a	
4 " " 37a	



B24. Revolving See-saw

Parts required

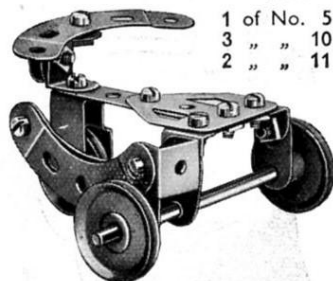
3 of No. 22
2 of No. 1
3 " " 5
2 " " 11
6 " " 12
1 " " 16
1 " " 17
1 " " 19s
1 " " 24
4 " " 35
27 " " 37
4 " " 37a
1 " " 40
2 " " 48a
1 " " 52
1 " " 54a
1 " " 111c
2 " " 126
2 " " 126a



B25. Motor Cycle and Side-car

Parts required

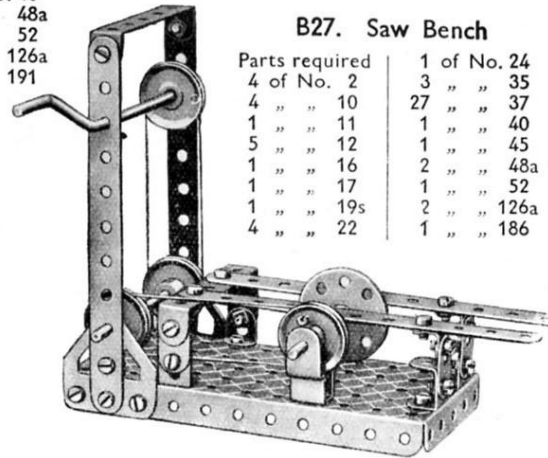
1 of No. 5	2 of No. 12
3 " " 10	1 " " 16
2 " " 11	3 " " 22
	1 " " 23
	10 " " 37
	2 " " 37a
	1 " " 44
	3 " " 90a
	2 " " 111c
	1 " " 126a



B27. Saw Bench

Parts required

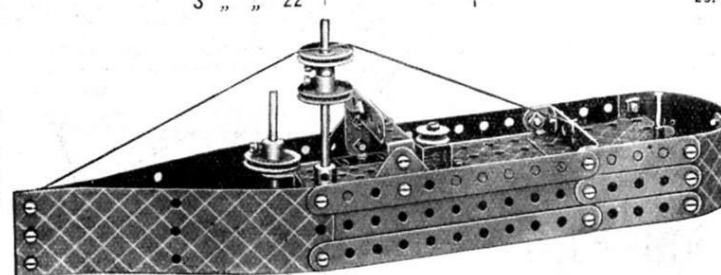
4 of No. 2	1 of No. 24
4 " " 10	3 " " 35
1 " " 11	27 " " 37
5 " " 12	1 " " 40
1 " " 16	1 " " 45
1 " " 17	2 " " 48a
1 " " 19s	1 " " 52
4 " " 22	2 " " 126a
	1 " " 186



B28. Battleship

Parts required

4 of No. 2	1 of No. 23	1 of No. 52
9 " " 5	1 " " 24	4 " " 111c
4 " " 10	5 " " 35	2 " " 125
1 " " 11	36 " " 37	2 " " 126
5 " " 12	4 " " 37a	2 " " 188
1 " " 16	1 " " 40	2 " " 189
2 " " 17	2 " " 48a	1 " " 190
3 " " 22		

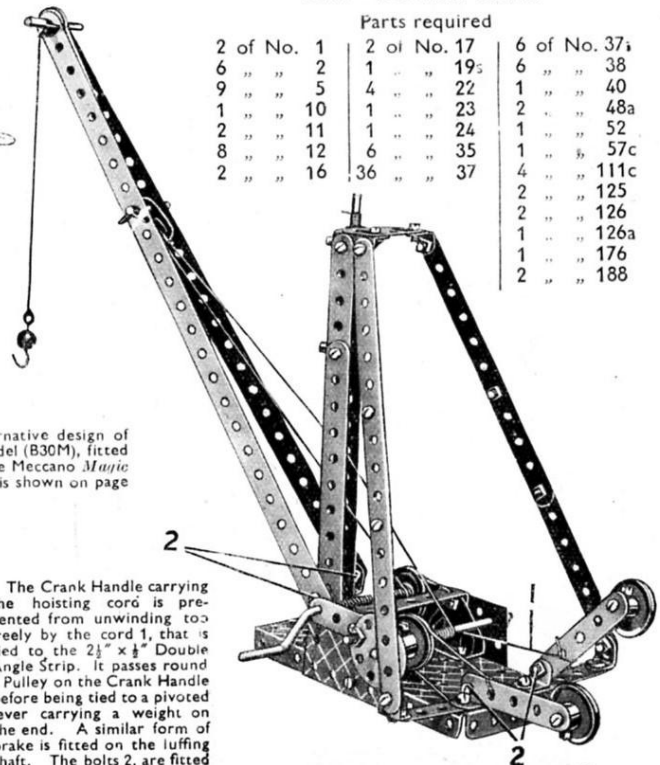


An alternative design of this model (B30M), fitted with the Meccano Magic Motor, is shown on page 25.

B30. Derrick Crane

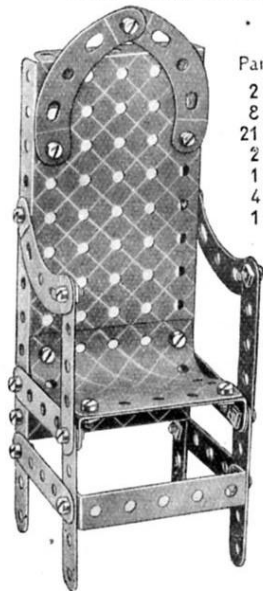
Parts required

2 of No. 1	2 of No. 17	6 of No. 37a
6 " " 2	1 " " 19s	6 " " 38
9 " " 5	4 " " 22	1 " " 40
1 " " 10	1 " " 23	2 " " 48a
2 " " 11	1 " " 24	1 " " 52
8 " " 12	6 " " 35	4 " " 57c
2 " " 16	36 " " 37	1 " " 111c
		2 " " 125
		2 " " 126
		1 " " 126a
		1 " " 176
		2 " " 188



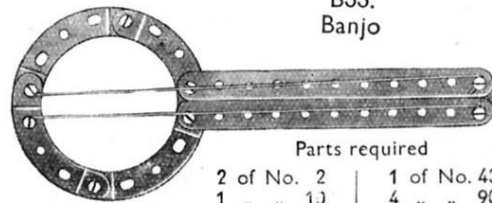
The Crank Handle carrying the hoisting cord is prevented from unwinding too freely by the cord 1, that is tied to the  $2\frac{1}{2} \times \frac{1}{2}$ " Double Angle Strip. It passes round a Pulley on the Crank Handle before being tied to a pivoted lever carrying a weight on the end. A similar form of brake is fitted on the luffing shaft. The bolts 2, are fitted with locknuts (see page 29).

B31. Arm Chair



Parts required	
2 of No. 2	5
21 " " 37	48a
2 " " 48a	52
1 " " 52	90a
4 " " 90a	190

B33. Banjo



Parts required	
2 of No. 2	1 of No. 40
1 " " 13	4 " " 90a
8 " " 37	

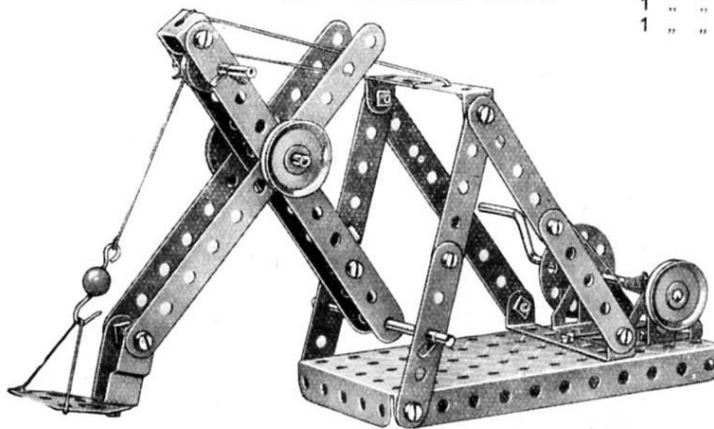
B36. Rocking Horse



Parts required	
9 of No. 5	10
4 " " 12	23
1 " " 37	37a
8 " " 37a	40
1 " " 40	90a
4 " " 90a	111c
5 " " 111c	126a
1 " " 126a	190

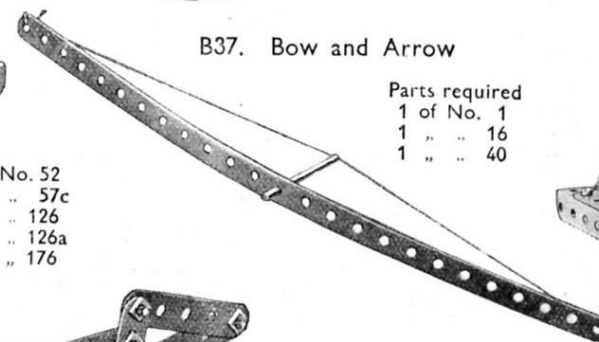
Parts required	
4 of No. 2	5
8 " " 12	37
33 " " 37	40
1 " " 40	48a
2 " " 48a	52
1 " " 52	90a
2 " " 90a	126
2 " " 126	190
2 " " 190	191

B34. Mechanical Shovel



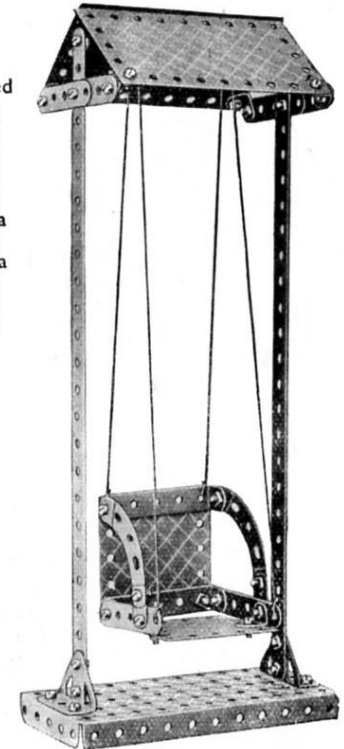
Parts required	
4 of No. 2	1 of No. 17
8 " " 5	1 " " 19s
2 " " 11	3 " " 22
1 " " 16	1 " " 23
	1 " " 24
	5 of No. 35
	20 " " 37
	1 " " 40
	1 " " 45
	2 " " 48a
	1 of No. 52
	1 " " 57c
	2 " " 126
	1 " " 126a
	1 " " 176

B37. Bow and Arrow



Parts required	
1 of No. 1	16
1 " " 16	40
1 " " 40	

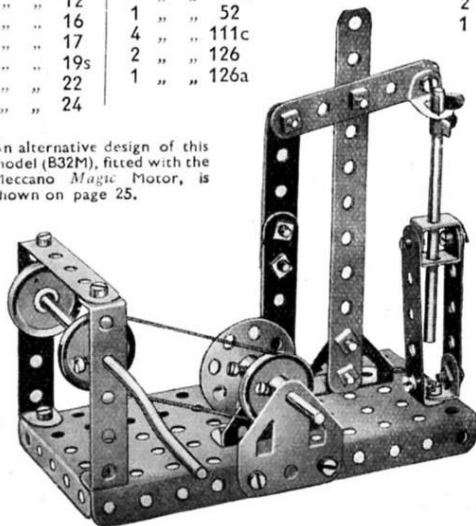
B38. Swing



B32. Pump

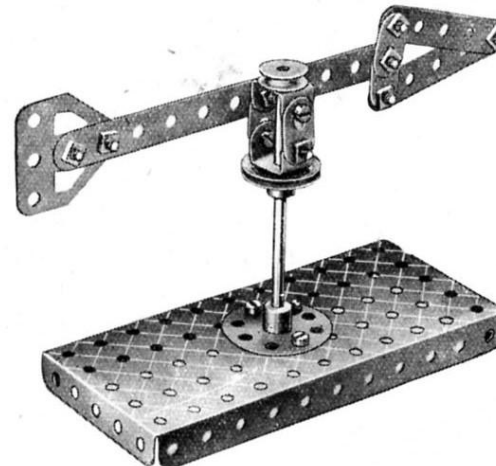
Parts required	
1 of No. 2	19 " " 37
6 " " 5	8 " " 37a
2 " " 11	1 " " 40
3 " " 12	2 " " 48a
1 " " 16	1 " " 52
1 " " 17	4 " " 111c
1 " " 19s	2 " " 126
3 " " 22	1 " " 126a
1 " " 24	

An alternative design of this model (B32M), fitted with the Meccano Magic Motor, is shown on page 25.

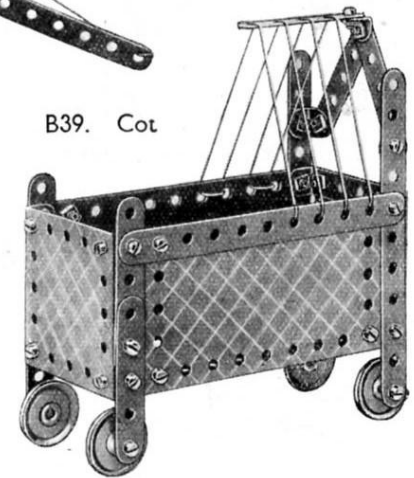


B35. Weather Vane

Parts required	
1 of No. 2	5
2 " " 5	10
4 " " 10	11
2 " " 11	16
1 " " 16	22
1 " " 22	23
1 " " 23	24
1 " " 24	37
12 " " 37	52
1 " " 52	126a
1 " " 126a	

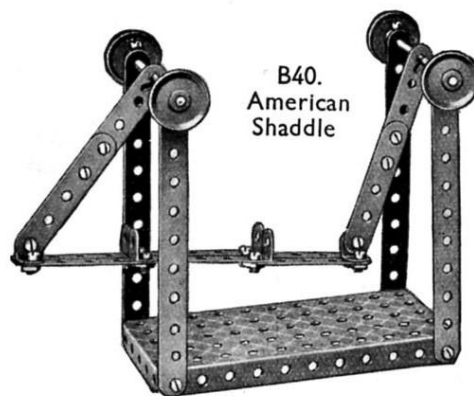


B39. Cot



Parts required	
4 of No. 2	5
7 " " 5	12
3 " " 12	22
4 " " 22	37
30 " " 37	40
1 " " 40	48a
2 " " 48a	52
1 " " 52	111c
4 " " 111c	190
2 " " 190	191
2 " " 191	



B40.  
American  
Shackle

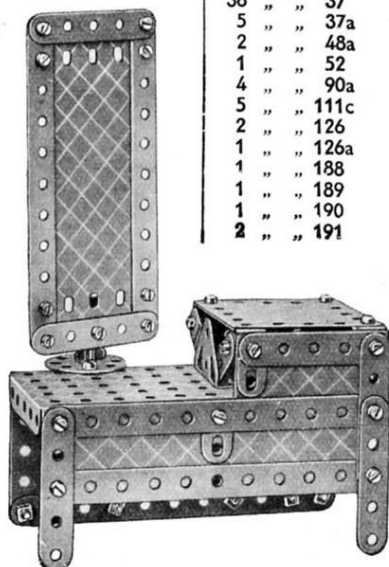
Parts required	
4 of No. 2	
8 " " 5	
1 " " 11	
6 " " 12	
1 " " 16	
1 " " 19s	
2 " " 22	
1 " " 24	
2 " " 35	
33 " " 37	
1 " " 40	
1 " " 52	
2 " " 125	
2 " " 190	
2 " " 191	

Parts required	
2 of No. 12	18 of No. 37
4 of No. 2	2 " " 37a
9 " " 5	2 " " 48a
4 " " 10	1 " " 52
2 " " 35	

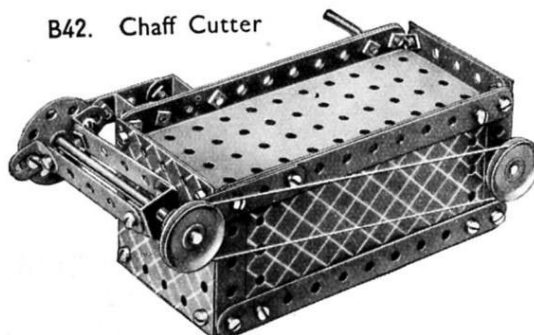
B41.  
Modern Dressing Table

## Parts required

4 of No. 2	4 of No. 12
9 " " 5	1 " " 17
4 " " 10	1 " " 24
1 " " 11	2 " " 35
	36 " " 37
	5 " " 37a
	2 " " 48a
	1 " " 52
	4 " " 90a
	5 " " 111c
	2 " " 126
	1 " " 126a
	1 " " 188
	1 " " 189
	1 " " 190
	2 " " 191

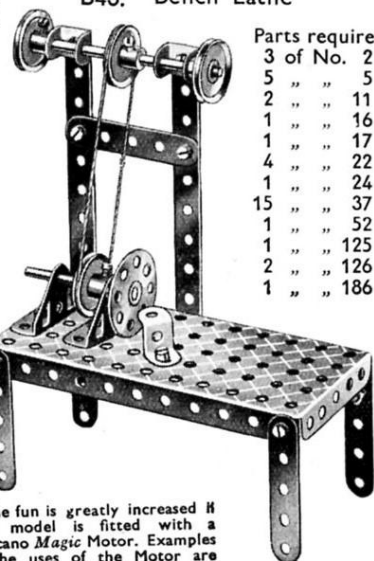


B42. Chaff Cutter



Parts required	
2 of No. 2	
9 " " 5	
2 " " 17	
2 " " 22	
1 " " 23	
2 " " 35	
21 " " 37	
2 " " 37a	
5 " " 38	
1 " " 40	
1 " " 52a	
1 " " 54a	
1 " " 111c	
1 " " 125	
2 " " 126	

B43. Bench Lathe



Parts required	
3 of No. 2	
5 " " 5	
2 " " 11	
1 " " 16	
1 " " 17	
4 " " 22	
1 " " 24	
15 " " 37	
1 " " 52	
1 " " 125	
2 " " 126	
1 " " 186	

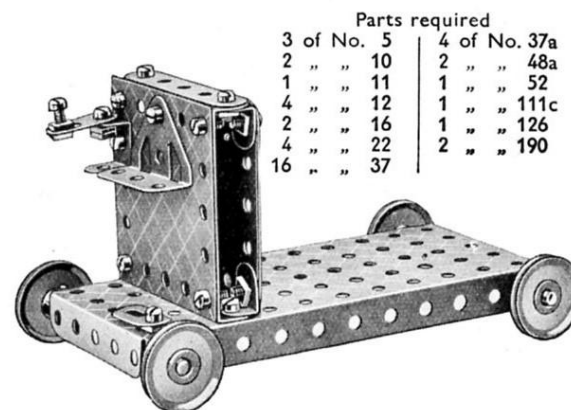
The fun is greatly increased if this model is fitted with a Meccano Magic Motor. Examples of the uses of the Motor are shown on pages 9, 24 and 25.

B44. Motor Boat

Parts required	
2 of No. 2	1 of No. 23
2 " " 5	7 " " 37
3 " " 10	1 " " 37a
1 " " 11	1 " " 111c



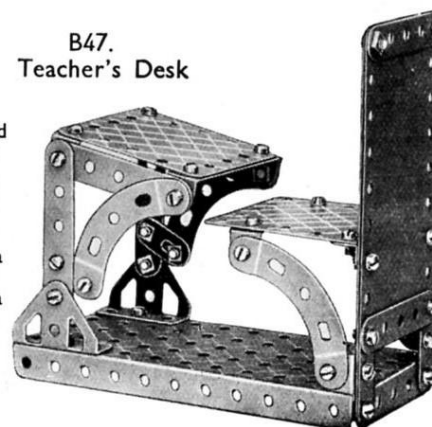
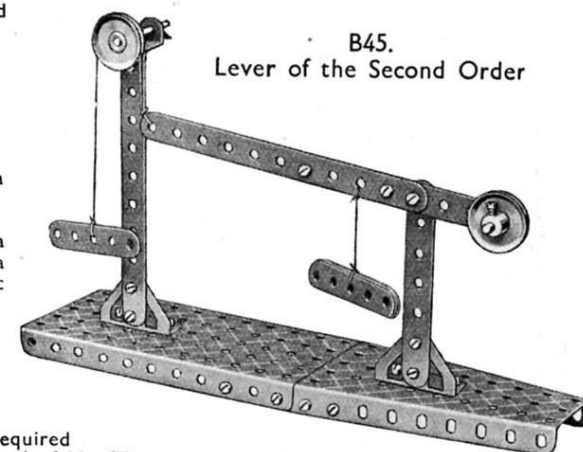
B46. Electric Trolley



Parts required	
3 of No. 5	4 of No. 37a
2 " " 10	2 " " 48a
1 " " 11	1 " " 52
4 " " 12	1 " " 111c
2 " " 16	1 " " 126
4 " " 22	2 " " 190
16 " " 37	

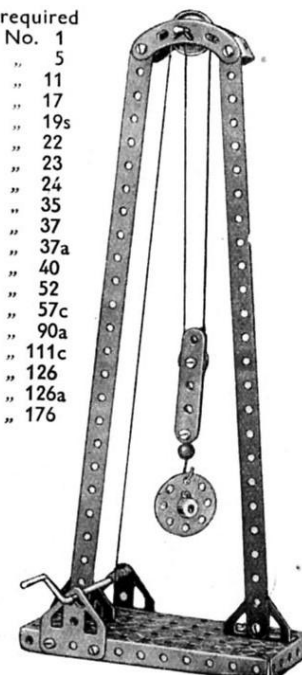
B47.  
Teacher's Desk

Parts required	
2 of No. 2	
9 " " 5	
2 " " 10	
6 " " 12	
34 " " 37	
2 " " 48a	
1 " " 52	
4 " " 90a	
2 " " 126	
2 " " 190	
1 " " 191	

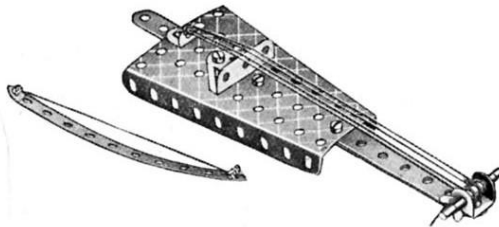
B45.  
Lever of the Second Order

B48. Pulley Block

Parts required	
2 of No. 1	
2 " " 5	
1 " " 11	
1 " " 17	
1 " " 19s	
1 " " 22	
1 " " 23	
1 " " 24	
4 " " 35	
14 " " 37	
2 " " 37a	
1 " " 40	
1 " " 52	
1 " " 57c	
2 " " 90a	
2 " " 111c	
2 " " 126	
2 " " 126a	
1 " " 176	



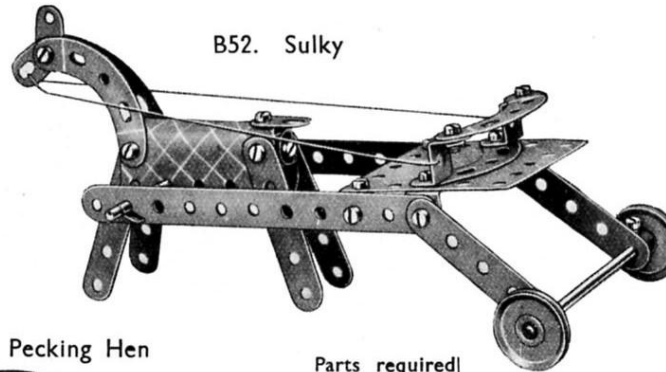
B49. Violin and Bow



## Parts required

4 of No.	2
1 "	11
1 "	12
1 "	17
2 "	35
5 "	37
1 "	40
1 "	54a
1 "	126

B52. Sully



## Parts required

2 of No.	2	2 of No.	22	1 of No.	48a
6 "	5	4 "	35	4 "	90a
3 "	10	17 "	37	1 "	111c
6 "	12	1 "	37a	2 "	125
2 "	16	1 "	40	2 "	190

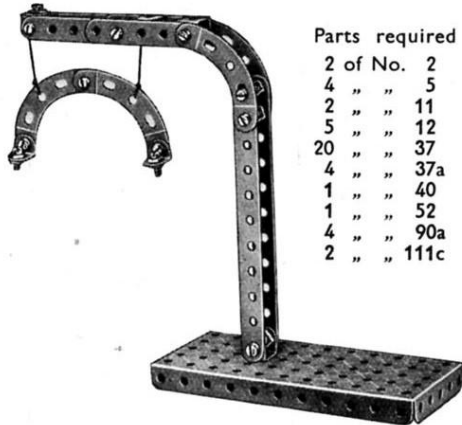
## Parts required

9 of No.	5
4 "	10
8 "	12
26 "	37
2 "	37a
2 "	48a
4 "	90a
2 "	111c
2 "	190

B56. Rocking Chair



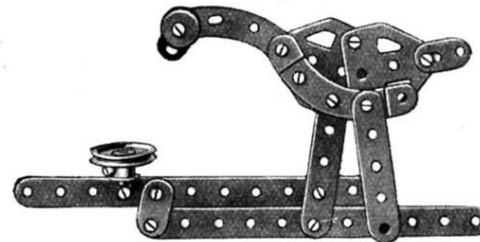
B50. Loading Gauge



## Parts required

2 of No.	2
4 "	5
2 "	11
5 "	12
20 "	37
4 "	37a
1 "	40
1 "	52
4 "	90a
2 "	111c

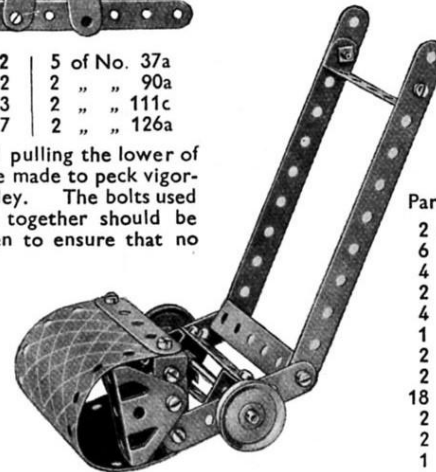
B53. Pecking Hen



Parts required	1 of No. 12	5 of No. 37a
2 of No. 2	1 " " 22	2 " " 90a
2 " " 5	1 " " 23	2 " " 111c
3 " " 10	11 " " 37	2 " " 126a

By alternately pushing and pulling the lower of the 5½" Strips, the hen can be made to peck vigorously at the "bowl," a 1" Pulley. The bolts used for securing the 5½" Strips together should be locknuttred, care being taken to ensure that no "side play" is permitted.

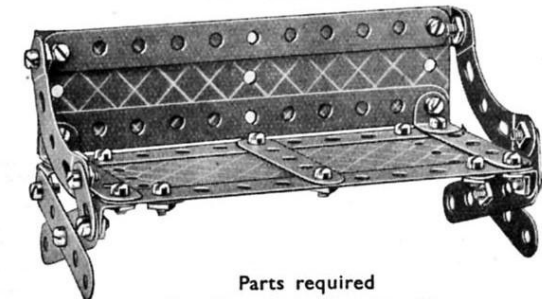
B54. Grass Cutter



## Parts required

2 of No.	2
6 "	5
4 "	10
2 "	11
4 "	12
1 "	16
2 "	22
2 "	35
18 "	37
2 "	48a
2 "	126
1 "	191

B57. Station Seat



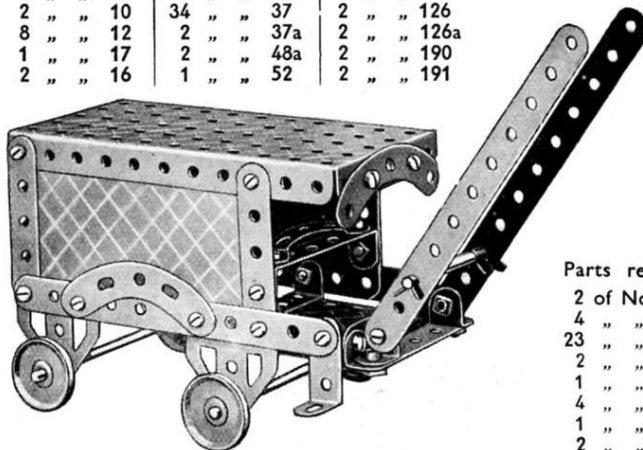
## Parts required

4 of No.	2	24 of No.	37
9 "	5	2 "	90a
2 "	10	1 "	189
8 "	12	1 "	191

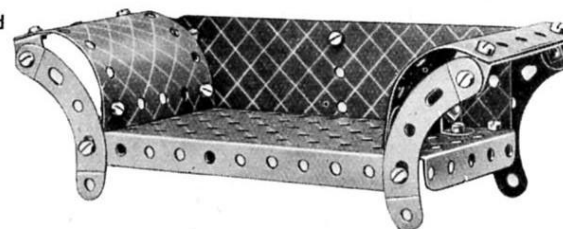
B51. Bread Van

## Parts required

4 of No.	2	4 of No.	22	4 of No.	90a
8 "	5	4 "	35	1 "	125
2 "	10	34 "	37	2 "	126
8 "	12	2 "	37a	2 "	126a
1 "	17	2 "	48a	2 "	190
2 "	16	1 "	52	2 "	191



B55. Couch



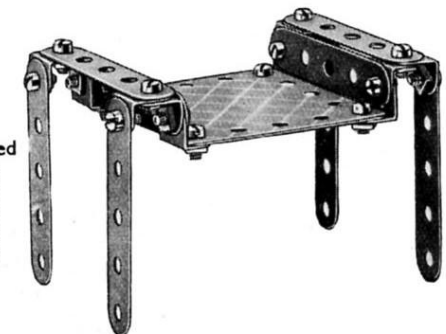
## Parts required

2 of No.	2
4 "	12
23 "	37
2 "	48a
1 "	52
4 "	90a
1 "	189
2 "	190

## Parts required

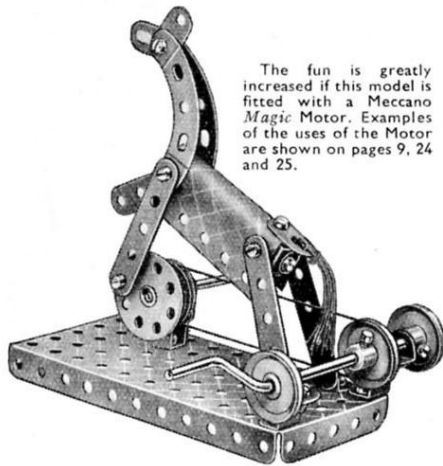
9 of No.	5
8 "	12
16 "	37
2 "	125
1 "	190

B58. Stool for Dressing Table



An alternative design of this model (B51M), fitted with the Meccano Magic Motor, is shown on page 25.

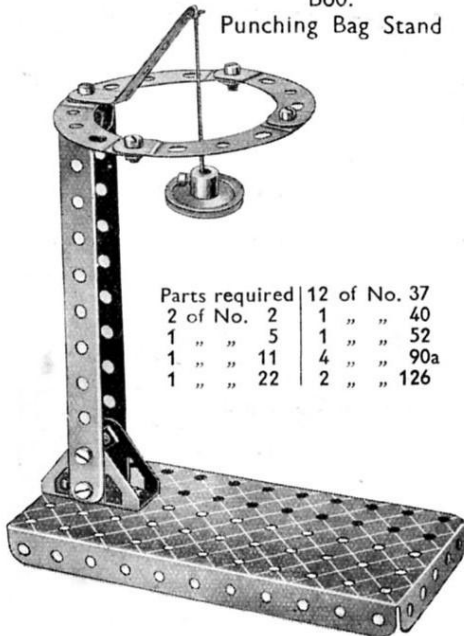
B59. Prancing Horse



The fun is greatly increased if this model is fitted with a Meccano Magic Motor. Examples of the uses of the Motor are shown on pages 9, 24 and 25.

Parts required	4 of No. 22	1 of No. 52
4 of No. 5	1 " " 24	2 " " 90a
3 " " 10	14 " " 37	4 " " 111c
8 " " 12	8 " " 37a	2 " " 125
1 " " 17	1 " " 40	1 " " 186
1 " " 19s	1 " " 44	1 " " 190

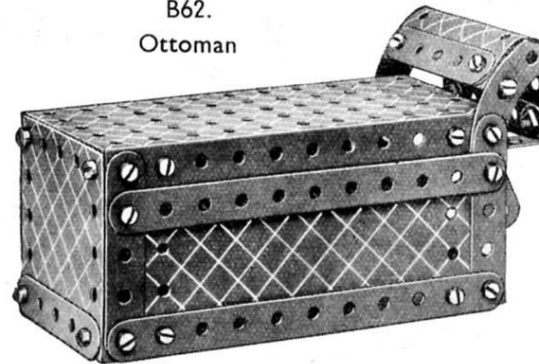
B60. Punching Bag Stand



Parts required	12 of No. 37
2 of No. 2	1 " " 40
1 " " 5	1 " " 52
1 " " 11	4 " " 90a
1 " " 22	2 " " 126

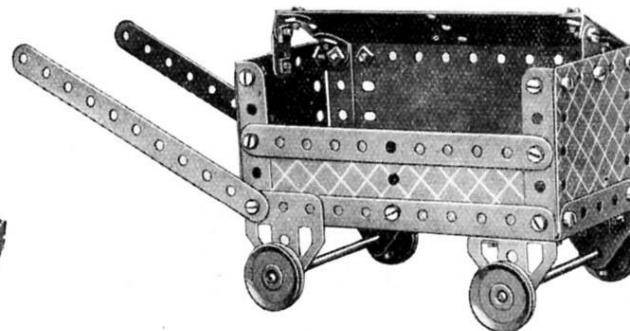
Parts required	
4 of No. 2	
8 " " 5	
4 " " 10	
8 " " 12	
2 " " 16	
1 " " 17	
4 " " 22	
1 " " 23	
4 " " 35	
35 " " 37	
4 " " 37a	
1 " " 40	
2 " " 48a	
1 " " 52	
2 " " 90a	
2 " " 111c	
2 " " 125	
2 " " 126	
2 " " 126a	
1 " " 190	
1 " " 191	

B62. Ottoman



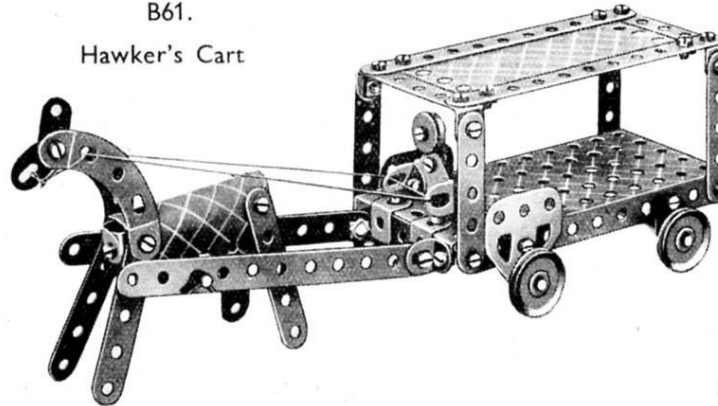
Parts required	
4 of No. 2	
7 " " 5	
2 " " 10	
2 " " 11	
4 " " 12	
34 " " 37	
1 " " 48a	
1 " " 52	
2 " " 90a	
2 " " 190	
2 " " 191	

B63. Ash Cart



Parts required	
4 of No. 2	
4 " " 5	
2 " " 10	
4 " " 12	
2 " " 16	
4 " " 22	
34 " " 37	
2 " " 37a	
2 " " 48a	
1 " " 52	
2 " " 111c	
2 " " 126	
2 " " 126a	
2 " " 189	
2 " " 190	
1 " " 191	

B61. Hawker's Cart



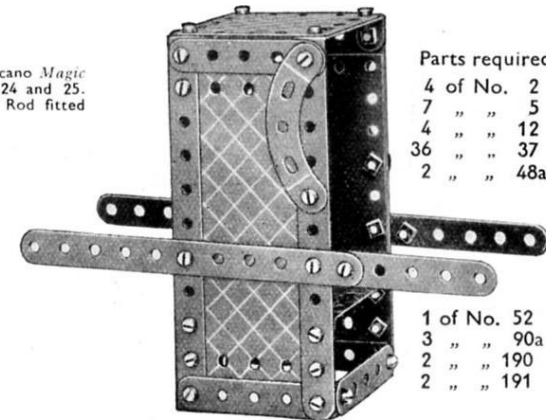
The fun is greatly increased if this model is fitted with a Meccano Magic Motor. For examples of the uses of the Motor see pages 9, 24 and 25. If the Motor is fitted, a Bush Wheel should be mounted on a 2" Rod fitted between the hind legs of the horse.

B64. Shepherd's Crook

Parts required	
2 of No. 1	
7 " " 37	
4 " " 90a	



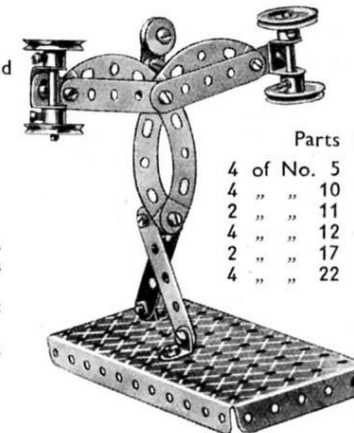
B65. Sedan Chair



Parts required	
4 of No. 2	
7 " " 5	
4 " " 12	
36 " " 37	
2 " " 48a	

Parts required	
1 of No. 52	
3 " " 90a	
2 " " 190	
2 " " 191	

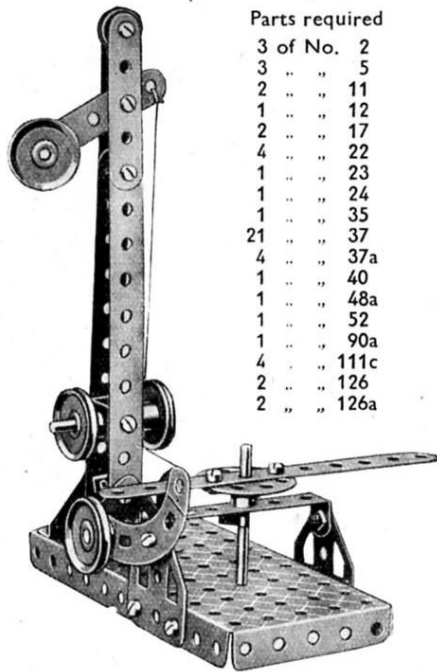
B66. Strong Man



Parts required	
4 of No. 5	1 of No. 23
4 " " 10	12 " " 37
2 " " 11	2 " " 37a
4 " " 12	1 " " 52
2 " " 17	4 " " 90a
4 " " 22	2 " " 111c



B67. Automatic Signals

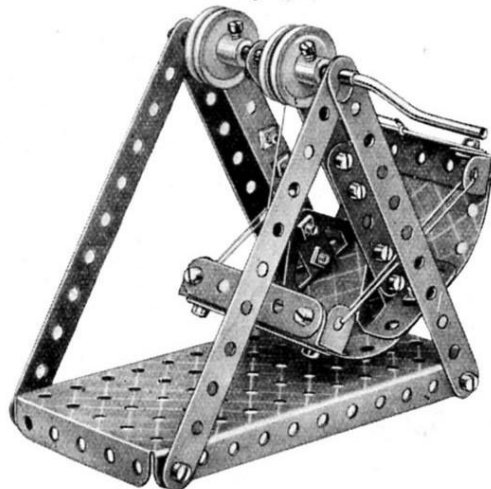


## Parts required

3 of No.	2
3 "	5
2 "	11
1 "	12
2 "	17
4 "	22
1 "	23
1 "	24
1 "	35
21 "	37
4 "	37a
1 "	40
1 "	48a
1 "	52
1 "	90a
4 "	111c
2 "	126
2 "	126a

The weighted Curved Strip is locknotted (see page 29) to the Flat Trunnion. When the horizontal  $5\frac{1}{2}$ " Strip is tripped by the locomotive the signal is raised to "danger" until the mechanism is re-set.

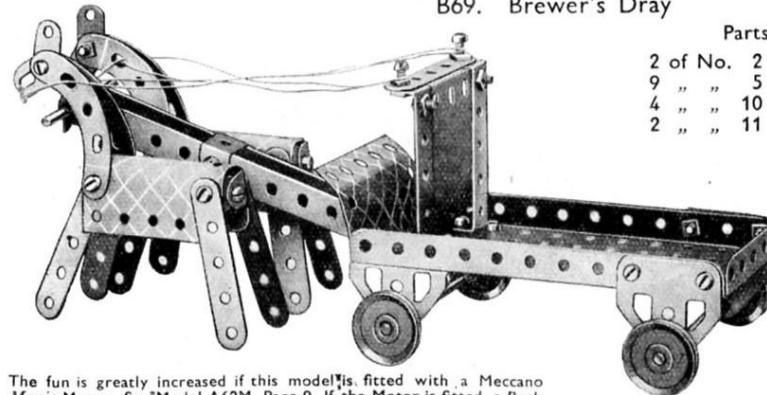
B68. Swinging Boat



## Parts required

4 of No.	2
8 "	5
1 "	10
4 "	12
1 "	19s
4 "	22
6 "	35
22 "	37
4 "	37a
1 "	40
2 "	48a
1 "	52
2 "	126
1 "	191

B69. Brewer's Dray

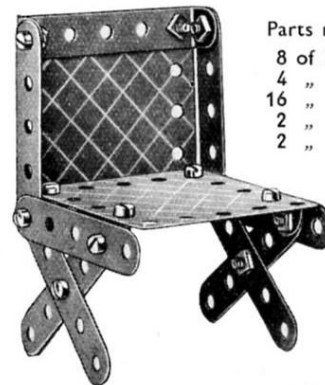


The fun is greatly increased if this model is fitted with a Meccano Magic Motor. See Model A62M, Page 9. If the Motor is fitted, a Bush Wheel should be mounted on a 2in. Rod fitted between the inner hind legs of the two horses.

## Parts required

2 of No.	2	8 of No.	12
9 "	5	2 "	16
4 "	10	2 "	17
2 "	11	4 "	22
		6 "	35
		29 "	37
		8 "	37a
		1 "	40
		2 "	48a
		1 "	52
		4 "	90a
		4 "	111c
		2 "	126
		2 "	126a
		2 "	190
		1 "	191

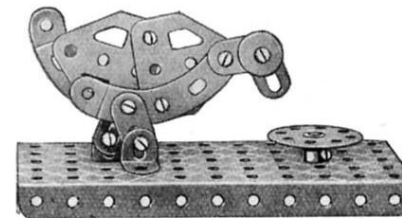
B70. Chair



## Parts required

8 of No.	5
4 "	12
16 "	37
2 "	48a
2 "	190

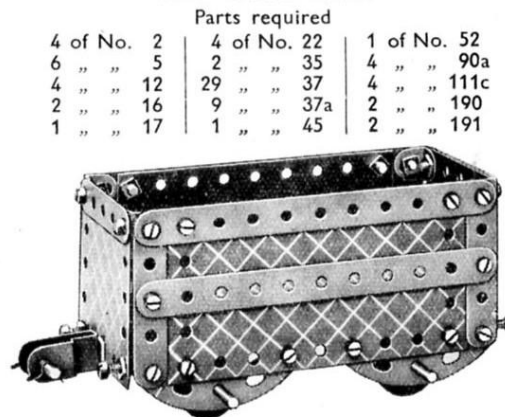
B71. Goose



## Parts required

4 of No.	10	2 of No.	37a
2 "	12	1 "	52
1 "	23	2 "	90a
1 "	24	3 "	111c
6 "	37	2 "	126a

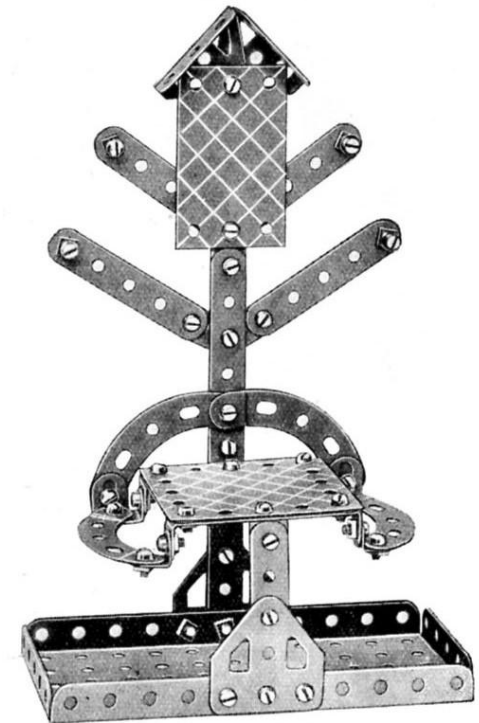
B72. Cattle Truck



## Parts required

4 of No.	2	4 of No.	22	1 of No.	52
6 "	5	2 "	35	4 "	90a
4 "	12	29 "	37	4 "	111c
2 "	16	9 "	37a	2 "	190
1 "	17	1 "	45	2 "	191

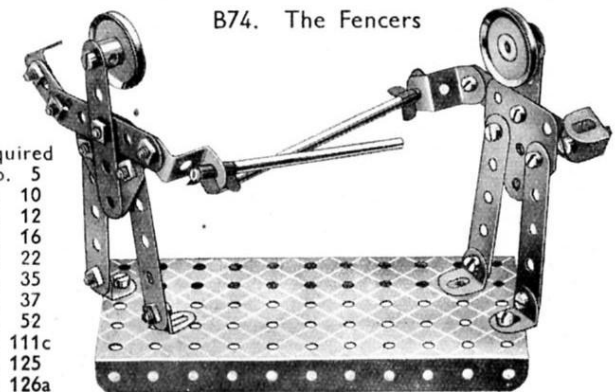
B73. Hat Rack



## Parts required

2 of No.	2	8 of No.	37a	2 of No.	126
9 "	5	2 "	48a	2 "	126a
2 "	10	1 "	52	1 "	188
8 "	12	4 "	90a	1 "	190
34 "	37	4 "	111c		

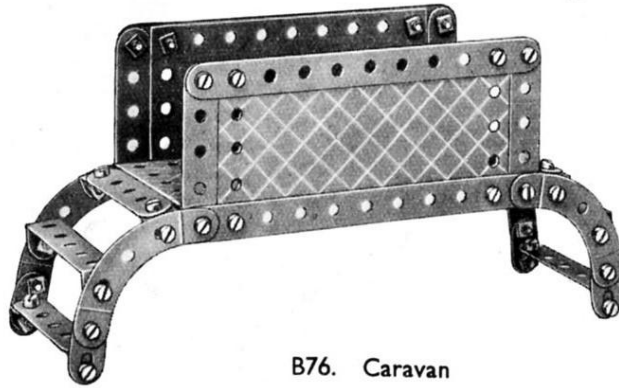
B74. The Fencers



## Parts required

8 of No.	5
2 "	10
6 "	12
2 "	16
2 "	22
4 "	35
18 "	37
1 "	52
2 "	111c
2 "	125
2 "	126a

B75. Footbridge

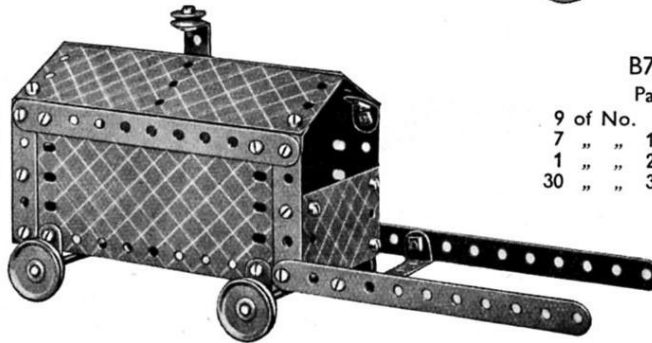


## Parts required

4 of No.	2
8 "	5
4 "	10
8 "	12
36 "	37
4 "	37a
2 "	48a
1 "	52
4 "	90a
4 "	111c
2 "	191

B76. Caravan

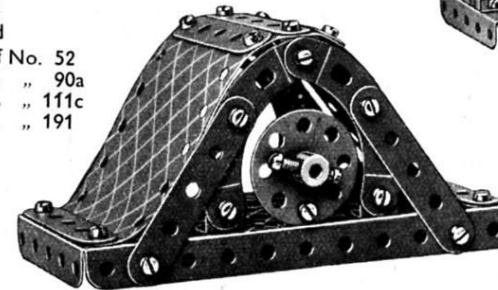
Parts required	
4 of No.	2
4 "	5
4 "	10
8 "	12
2 "	16
4 "	22
1 "	23
35 "	37
5 of No.	37a
1 "	48a
1 "	52
1 "	111c
1 "	125
2 "	188
2 "	189
2 "	191



B79. Clock

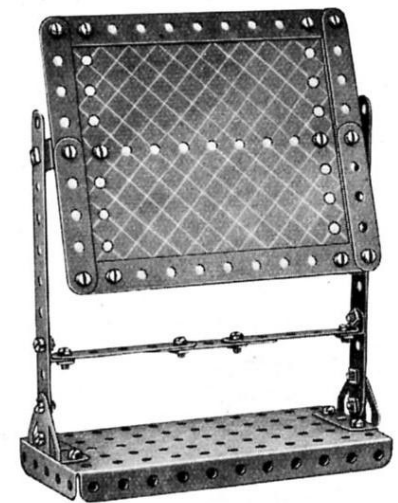
## Parts required

9 of No.	5	1 of No.	52
7 "	12	4 "	90a
1 "	24	2 "	111c
30 "	37	2 "	191



The fun is greatly increased if this model is fitted with a Meccano Magic Motor. The method of incorporating the Motor is shown on page 9 (Model A62M).

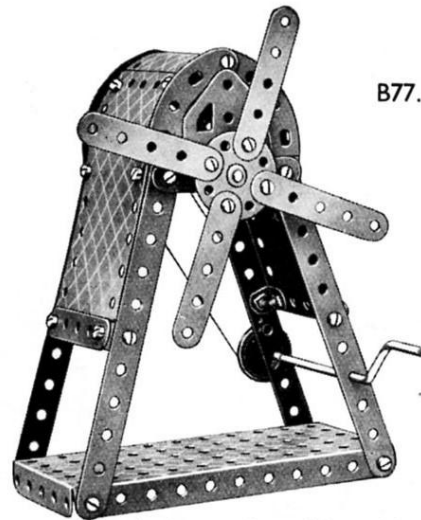
B81. School Blackboard



## Parts required

4 of No.	2
7 "	5
2 "	10
4 "	12
28 "	37
2 "	37a
1 "	52
2 "	126
2 "	191

B77. Windmill

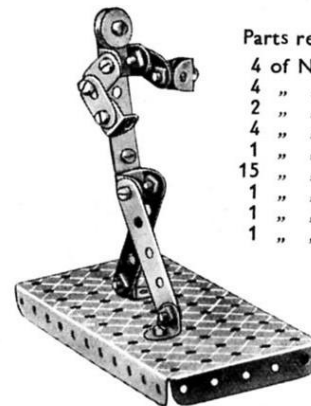


## Parts required

4 of No.	2
8 "	5
4 "	10
4 "	12
1 "	16
1 "	19s
2 "	22
1 "	24
1 "	35
36 "	37
2 "	37a
2 "	48a
1 "	52
4 "	90a
2 "	111c
2 "	126a
1 "	186
1 "	190
2 "	191

An alternative design of this model (B77M), fitted with the Meccano Magic Motor, is shown on page 24.

B80. Boxer



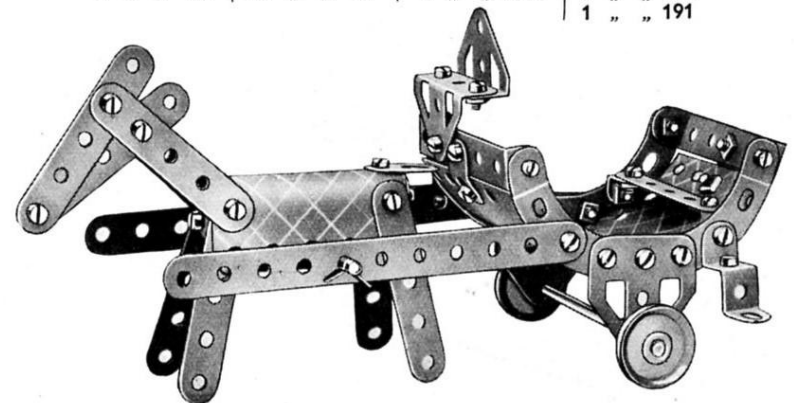
## Parts required

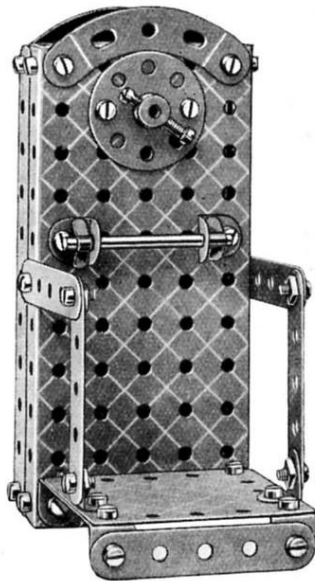
4 of No.	5
4 "	10
2 "	11
4 "	12
1 "	23
15 "	37
1 "	37a
1 "	52
1 "	111c

B82. Two-wheeled Trap

## Parts required

2 of No.	2	2 of No.	16	1 of No.	37a	2 of No.	125
9 "	5	2 "	22	2 "	48a	2 "	126
3 "	10	4 "	35	4 "	90a	2 "	126a
8 "	12	35 "	37	1 "	111c	1 "	190
						1 "	191

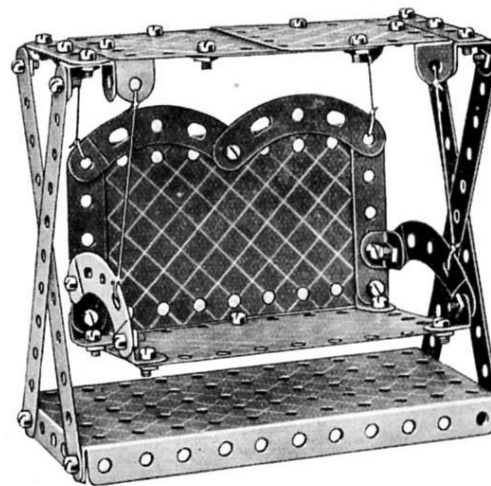




**B83.**  
**Weighing Machine**

**Parts required**

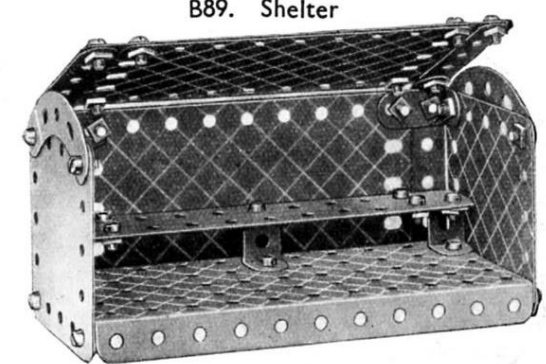
4 of No.	2
7 " "	5
4 " "	10
8 " "	12
1 " "	17
1 " "	24
2 " "	35
36 " "	37
2 " "	37a
2 " "	48a
1 " "	52
2 " "	90a
3 " "	111c
1 " "	190
1 " "	191



**B86.**  
**Swinging Garden Seat**

**Parts required**

4 of No.	2
8 " "	5
2 " "	11
8 " "	12
34 " "	37
1 " "	40
2 " "	48a
1 " "	52
4 " "	90a
2 " "	126a
2 " "	190
2 " "	191



**B89. Shelter**

**Parts required**

4 of No.	2	4 of No.	12	1 of No.	125
8 " "	5	34 " "	37	2 " "	190
4 " "	10	1 " "	52	2 " "	191
2 " "	11	2 " "	90a		

**B84.**  
**Chesterfield Chair**



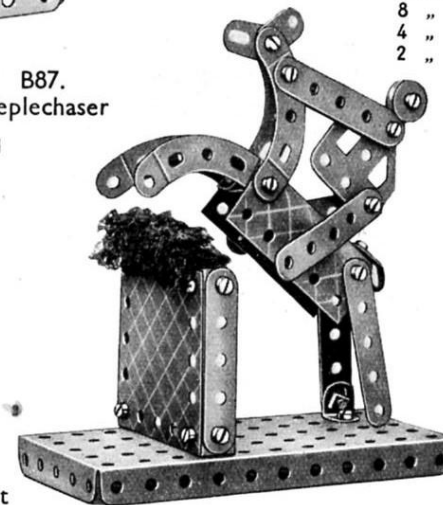
**Parts required**

9 of No.	5	2 of No.	48a
2 " "	10	2 " "	90a
2 " "	11	2 " "	125
8 " "	12	2 " "	190
32 " "	37	2 " "	191

**Parts required**

9 of No.	5
4 " "	10
7 " "	12
1 " "	23
20 " "	37
8 " "	37a
2 " "	48a
1 " "	52
4 " "	90a
4 " "	111c
1 " "	126a
2 " "	190

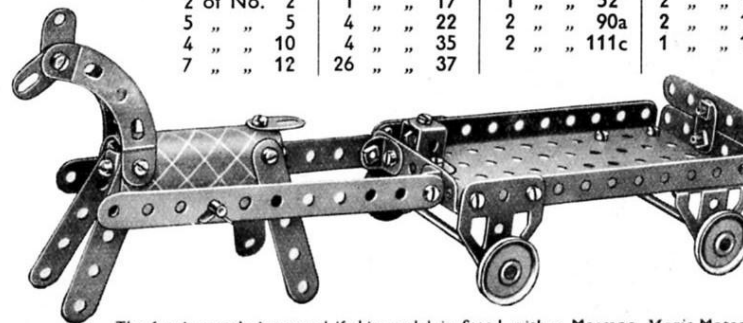
**B87.**  
**Steeplechaser**



**B88.**

**Horse and Cart**

Parts required	2 of No. 16	2 of No. 37a	1 of No.125
2 of No. 2	1 " " 17	1 " " 52	2 " " 126
5 " " 5	4 " " 22	2 " " 90a	2 " " 126a
4 " " 10	4 " " 35	2 " " 111c	1 " " 190
7 " " 12	26 " " 37		

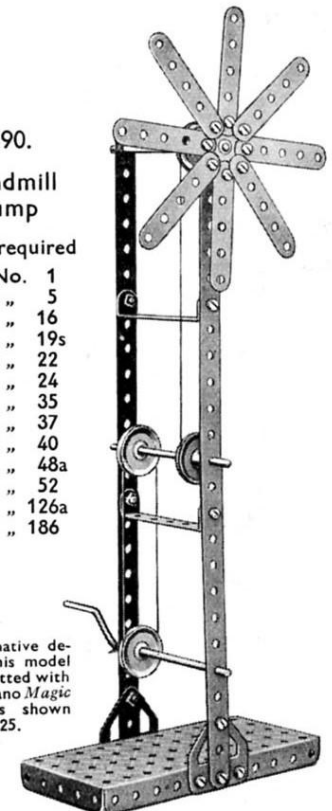


**B90.**  
**Windmill Pump**

**Parts required**

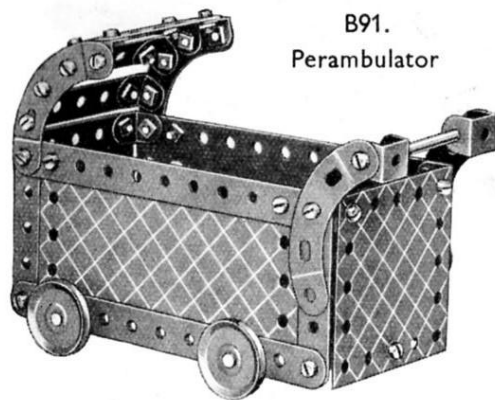
2 of No.	1
8 " "	5
2 " "	16
1 " "	19s
1 " "	22
4 " "	24
1 " "	35
20 " "	37
1 " "	40
2 " "	48a
1 " "	52
2 " "	126a
1 " "	186

An alternative design of this model (B90M), fitted with the Meccano Magic Motor, is shown on page 25.



The fun is greatly increased if this model is fitted with a Meccano Magic Motor. The method of incorporating the Motor is shown on page 9 (A62M). If the Motor is fitted, a Bush Wheel should be mounted on a 2" Rod fitted between the hind legs of the horse.

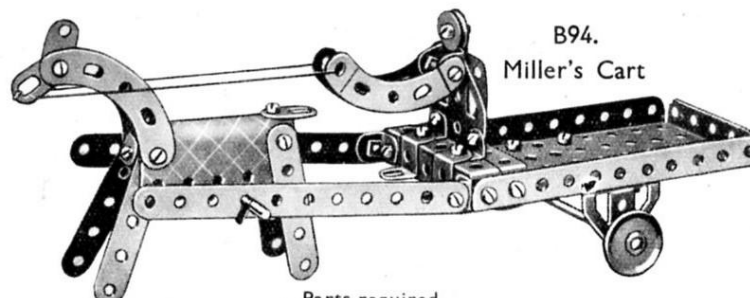




B91.  
Perambulator

## Parts required

4 of No. 2
8 " " 5
2 " " 11
8 " " 12
2 " " 16
1 " " 17
4 " " 22
36 " " 37
2 " " 48a
1 " " 52
4 " " 90a
2 " " 190
2 " " 191



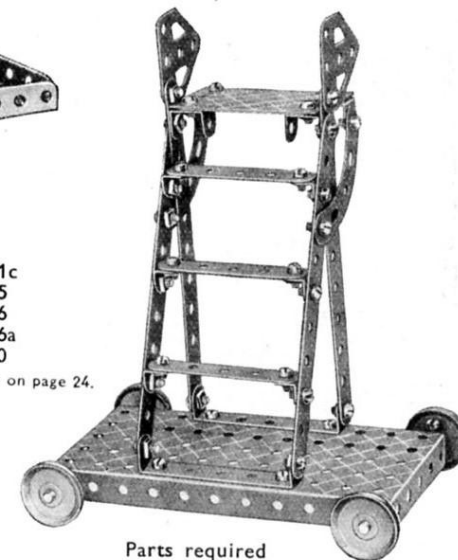
B94.  
Miller's Cart

## Parts required

2 of No. 2	2 of No. 16	2 of No. 37a	2 of No. 111c
4 " " 5	2 " " 22	1 " " 40	2 " " 125
4 " " 10	1 " " 23	2 " " 48a	2 " " 126
1 " " 11	4 " " 35	1 " " 52	2 " " 126a
8 " " 12	26 " " 37	4 " " 90a	1 " " 190

An alternative design of this model (B94M), fitted with the Meccano Magic Motor, is shown on page 24.

B97. Step Ladder on Wheels



## Parts required

4 of No. 2	2 of No. 16	1 of No. 52
5 " " 5	4 " " 22	2 " " 90a
2 " " 11	32 " " 37	2 " " 126a
8 " " 12	2 " " 48a	1 " " 188

B92.  
Watchman's Hut and Fire

## Parts required

2 of No. 2	2 of No. 35	3 of No. 111c
9 " " 5	34 " " 37	2 " " 126
2 " " 10	3 " " 37a	2 " " 126a
6 " " 12	2 " " 48a	1 " " 188
1 " " 16	1 " " 52	1 " " 190
1 " " 23	4 " " 90a	2 " " 191

B95.  
Revolving  
Office Chair

## Parts required

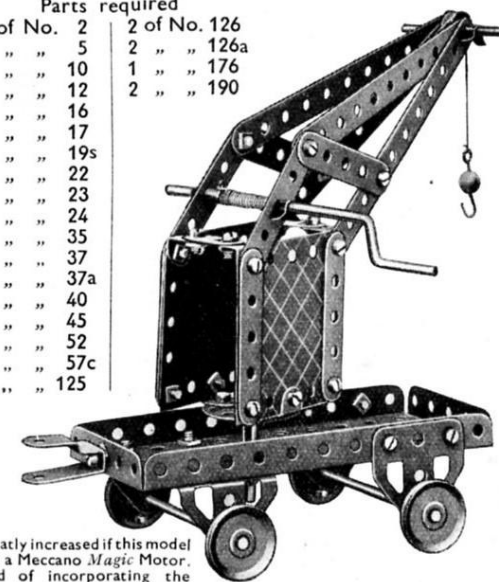
6 of No. 5
4 " " 10
3 " " 12
1 " " 17
2 " " 22
1 " " 24
26 " " 37
4 " " 37a
1 " " 48a
4 " " 90a
2 " " 126
2 " " 190



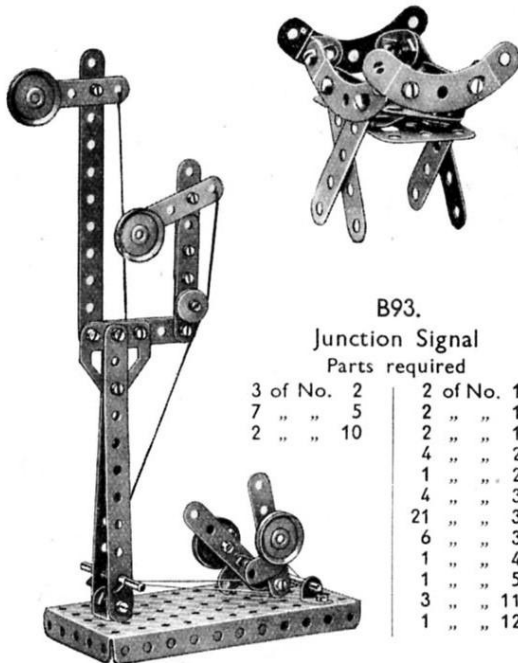
B98. Breakdown Crane

## Parts required

4 of No. 2	2 of No. 126
8 " " 5	2 " " 126a
3 " " 10	1 " " 176
8 " " 12	2 " " 190
2 " " 16	
2 " " 17	
1 " " 19s	
4 " " 22	
1 " " 23	
1 " " 24	
5 " " 35	
32 " " 37	
1 " " 37a	
1 " " 40	
1 " " 45	
1 " " 52	
1 " " 57c	
1 " " 125	



The fun is greatly increased if this model is fitted with a Meccano Magic Motor. The method of incorporating the Motor is shown on page 9. (Model A62M)



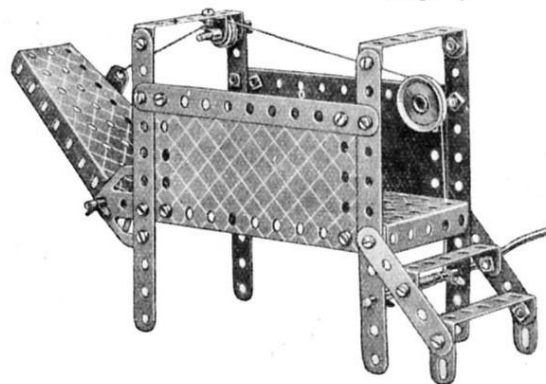
B93.

Junction Signal

## Parts required

3 of No. 2	2 of No. 11
7 " " 5	2 " " 12
2 " " 10	2 " " 17
	4 " " 22
	1 " " 23
	4 " " 35
	21 " " 37
	6 " " 37a
	1 " " 40
	1 " " 52
	3 " " 111c
	1 " " 126a

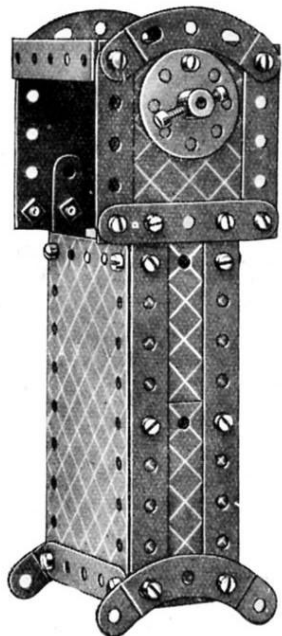
B96. Gangway



## Parts required

6 of No. 2
4 " " 5
3 " " 10
5 " " 12
1 " " 16
1 " " 17
1 " " 19s
1 " " 22
1 " " 23
6 " " 35
32 " " 37
1 " " 37a
1 " " 40
2 " " 48a
1 " " 52
1 " " 54a
1 " " 111c
2 " " 126a
1 " " 176
2 " " 191

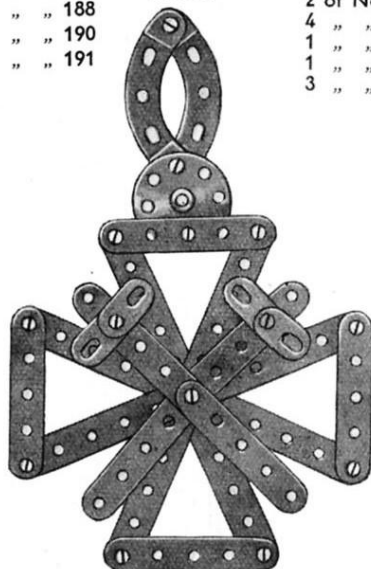
B99. Grandfather Clock



## Parts required

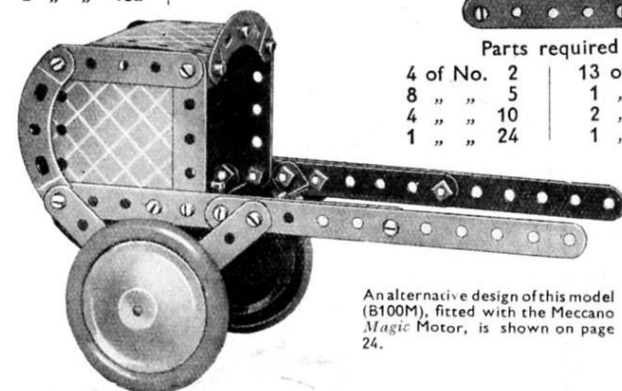
4 of No. 2
8 " " 5
8 " " 12
1 " " 24
31 " " 37
2 " " 48a
4 " " 90a
1 " " 111c
2 " " 188
2 " " 190
2 " " 191

B101. Medal



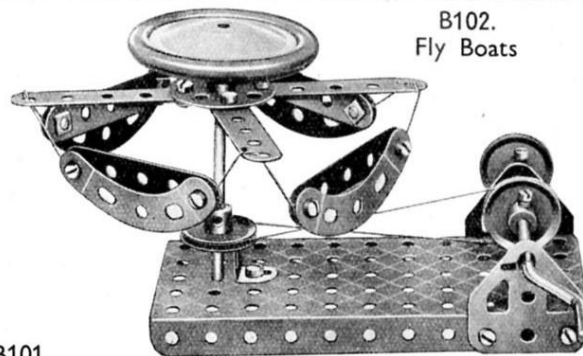
## Parts required

4 of No. 2	13 of No. 37
8 " " 5	1 " " 37a
4 " " 10	2 " " 90a
1 " " 24	1 " " 111c



An alternative design of this model (B100M), fitted with the Meccano Magic Motor, is shown on page 24.

B102. Fly Boats

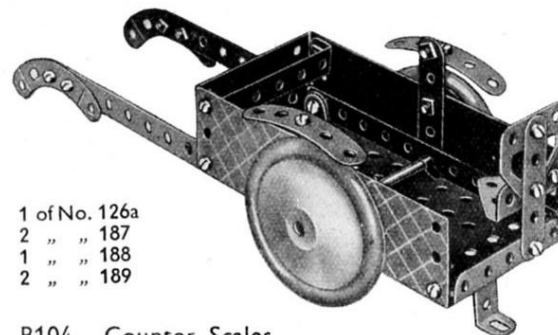


2 of No. 2	1 of No. 24	1 of No. 52
4 " " 5	2 " " 35	4 " " 90a
1 " " 15b	17 " " 37	1 " " 125
1 " " 19s	8 " " 37a	2 " " 126a
3 " " 22	1 " " 40	1 " " 187

## Parts required

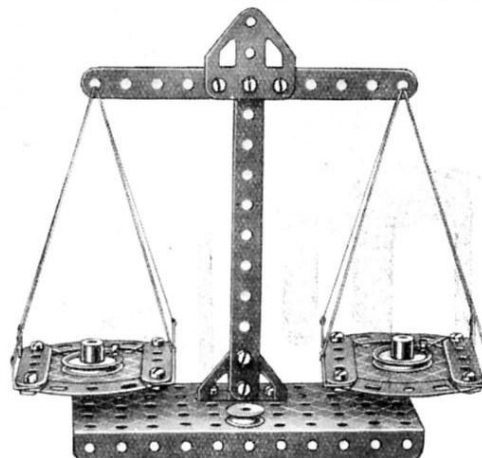
2 of No. 2
6 " " 5
5 " " 12
1 " " 15b
26 " " 37
2 " " 48a
1 " " 52
2 " " 90a
1 " " 125
1 " " 126

1 of No. 126a
2 " " 187
1 " " 188
2 " " 189



B103. Milk Float

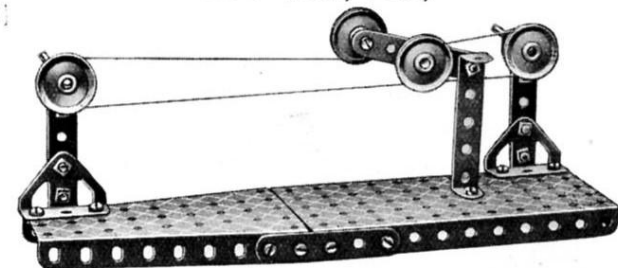
B104. Counter Scales



## Parts required

2 of No. 2
4 " " 5
8 " " 12
2 " " 22
1 " " 23
14 " " 37
2 " " 37a
1 " " 40
1 " " 52
4 " " 90a
1 " " 111c
1 " " 126
1 " " 126a
2 " " 190

B105. Jockey Pulley



## Parts required

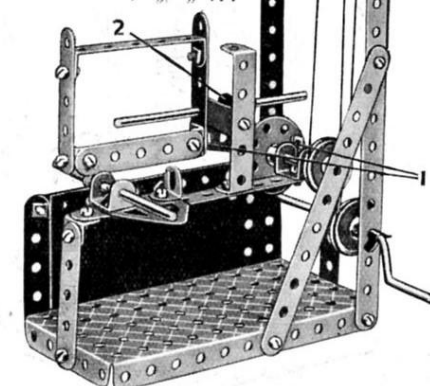
5 of No. 2
2 " " 17
4 " " 22
2 " " 35
20 " " 37
1 " " 37a
1 " " 40
1 " " 48a
1 " " 52
1 " " 54a
2 " " 111c
2 " " 125
2 " " 126

B106. Power Hack Saw

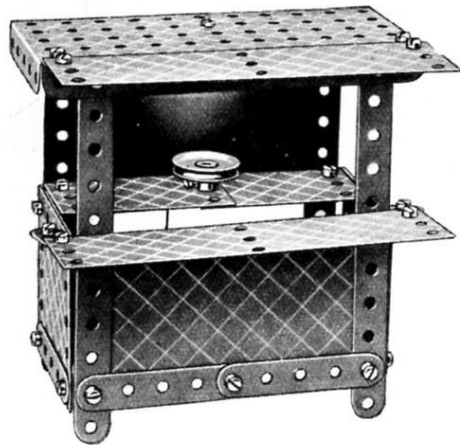
The Crank Handle drives an overhead shaft through 1" Pulleys and cord, and a similar arrangement conveys the drive to a 2" Rod carrying a Bush Wheel. A 2 1/2" Strip is pivoted to the Bush Wheel and to an Angle Bracket bolted to the saw frame. These pivots 1 are locknotted (see page 29). A Cranked Bent Strip 2 carries a 3 1/2" Rod on which the saw frame slides. An alternative design of this model (B106M), fitted with the Meccano Magic Motor, is shown on page 24.

## Parts required

2 of No. 1
3 " " 2
8 " " 5
2 " " 11
8 " " 12
2 " " 15b
2 " " 16
1 " " 17
1 " " 19s
4 " " 22
1 " " 24
6 " " 35
33 " " 37
2 " " 37a
2 " " 38
1 " " 40
1 " " 44
2 " " 48a
1 " " 52
1 " " 126a
1 " " 176
1 " " 191



B107.  
Coffee Stall



Parts required

4 of No. 2
8 " " 5
4 " " 10
8 " " 12
1 " " 22
35 " " 37
2 " " 48a
1 " " 52
1 " " 111c
2 " " 188
2 " " 189
2 " " 190
2 " " 191

Lighting Set  
(Not included in  
Outfit).

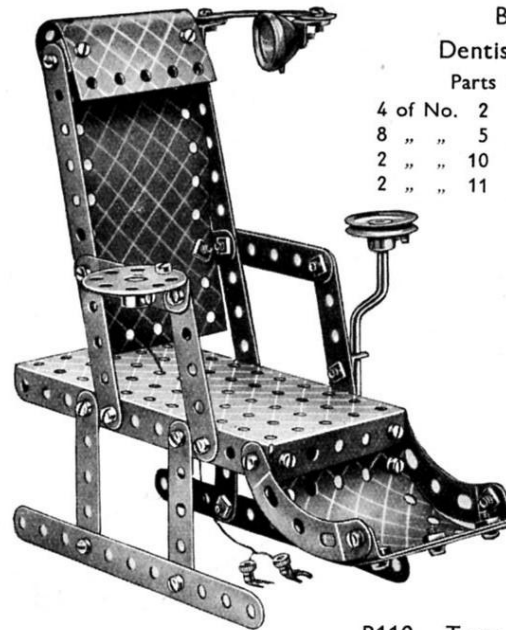
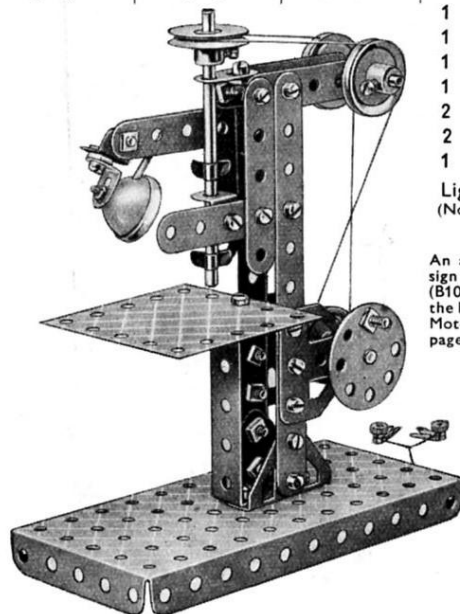
B108.  
Sensitive Drill

2 of No. 2	2 of No. 11	2 of No. 17
6 " " 5	3 " " 12	4 " " 22
2 " " 10	1 " " 16	1 " " 24

3 of No. 35
28 " " 37
5 " " 37a
1 " " 40
1 " " 48a
1 " " 52
1 " " 111c
2 " " 126
2 " " 126a
1 " " 190

Lighting Set  
(Not included in  
Outfit).

An alternative design of this model (B108M), fitted with the Meccano Magic Motor, is shown on page 24.



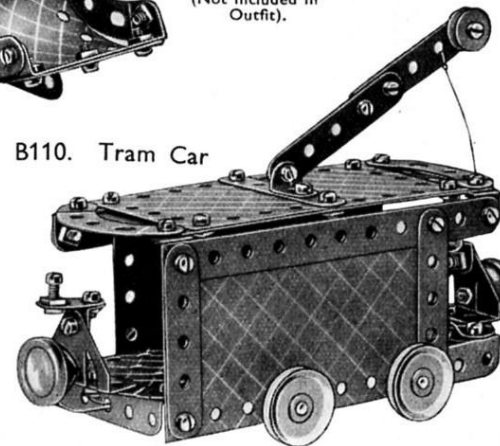
B109.  
Dentist's Chair

Parts required

4 of No. 2	7 of No. 12
8 " " 5	1 " " 19s
2 " " 10	1 " " 22
2 " " 11	1 " " 24
	3 " " 35
	36 " " 37
	6 " " 37a
	1 " " 48a
	1 " " 52
	3 " " 90a
	4 " " 111c
	1 " " 126a
	2 " " 190
	1 " " 191

Lighting Set  
(Not included in  
Outfit).

B110. Tram Car

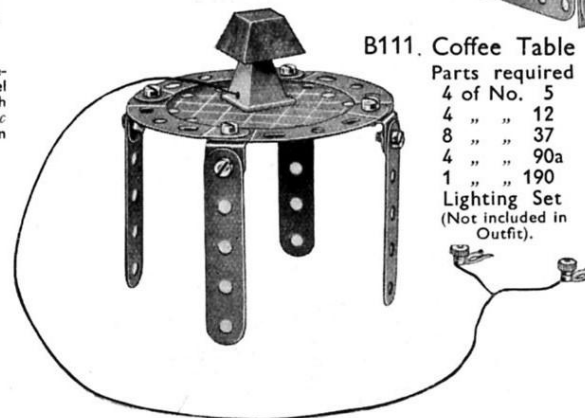


Parts required

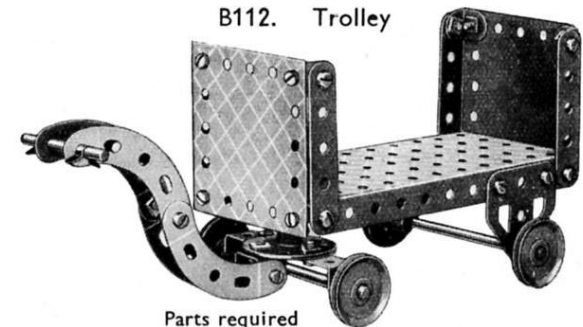
4 of No. 2	1 of No. 40
2 " " 10	2 " " 48a
2 " " 11	1 " " 52
3 " " 12	4 " " 90a
2 " " 16	3 " " 111c
4 " " 22	2 " " 126
1 " " 23	2 " " 190
34 " " 37	2 " " 191
6 " " 37a	Lighting Set (Not included in in Outfit).

B111. Coffee Table

Parts required
4 of No. 5
4 " " 12
8 " " 37
4 " " 90a
1 " " 190
Lighting Set (Not included in Outfit).



B112. Trolley



Parts required

4 of No. 5	4 of No. 22	1 of No. 52
1 " " 11	1 " " 24	4 " " 90a
4 " " 12	3 " " 35	2 " " 125
2 " " 16	28 " " 37	2 " " 126a
2 " " 17	1 " " 48a	2 " " 190

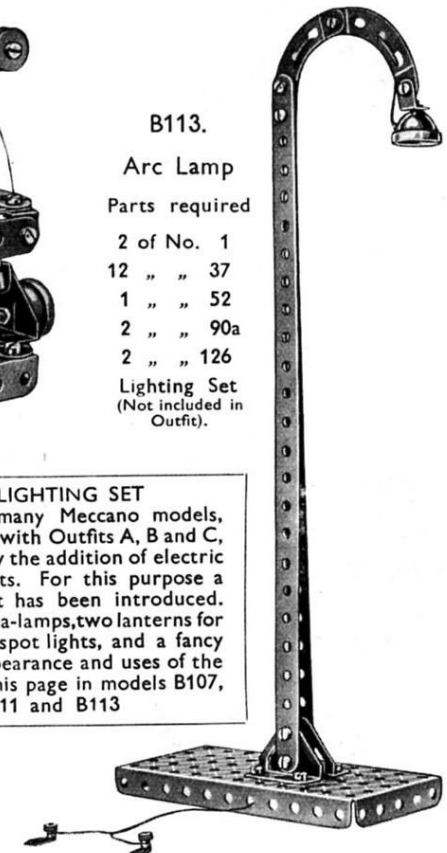
B113.

Arc Lamp

Parts required

2 of No. 1
12 " " 37
1 " " 52
2 " " 90a
2 " " 126

Lighting Set  
(Not included in  
Outfit).



MECCANO LIGHTING SET

The appearance of many Meccano models, especially those built with Outfits A, B and C, is greatly improved by the addition of electric lights at suitable points. For this purpose a Meccano Lighting Set has been introduced. This consists of two pea-lamps, two lanterns for use as headlamps or spot lights, and a fancy stand lamp. The appearance and uses of the parts are shown on this page in models B107, B108, B109, B110, B111 and B113



B114. Dressing Table

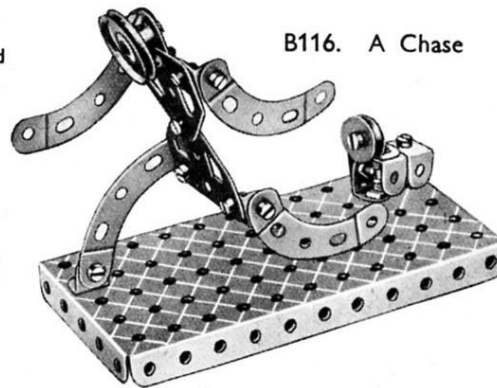


Parts required			
3 of No. 2	1 of No. 52		
9 " " 5	1 " " 90a		
4 " " 10	1 " " 111c		
8 " " 12	1 " " 126a		
1 " " 23	2 " " 190		
33 " " 37	2 " " 191		
3 " " 37a			

Parts required

2 of No. 10	
2 " " 11	
7 " " 12	
1 " " 22	
1 " " 23	
16 " " 37	
1 " " 37a	
1 " " 52	
4 " " 90a	
2 " " 111c	
2 " " 126a	

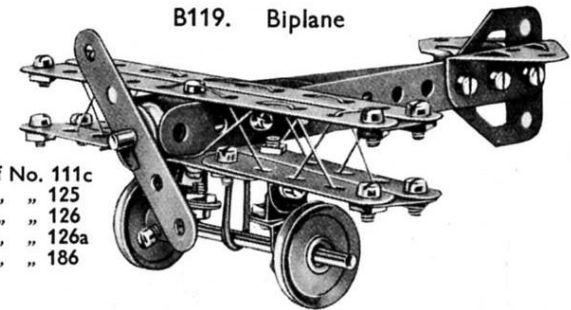
B116. A Chase



Parts required

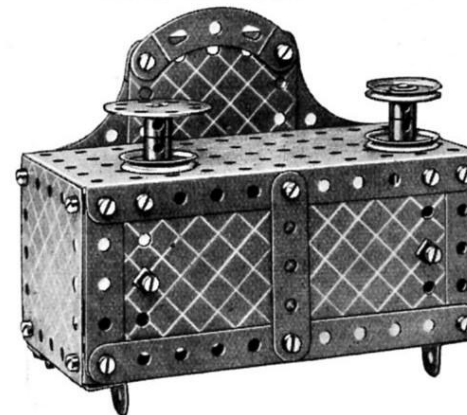
4 of No. 2	
6 " " 5	
4 " " 10	
2 " " 11	
4 " " 12	
2 " " 16	
2 " " 22	
1 " " 23	
2 " " 35	
22 " " 37	
3 " " 37a	
1 " " 40	

B119. Biplane



3 of No. 111c	
2 " " 125	
2 " " 126	
1 " " 126a	
1 " " 186	

B120. Sideboard



Parts required

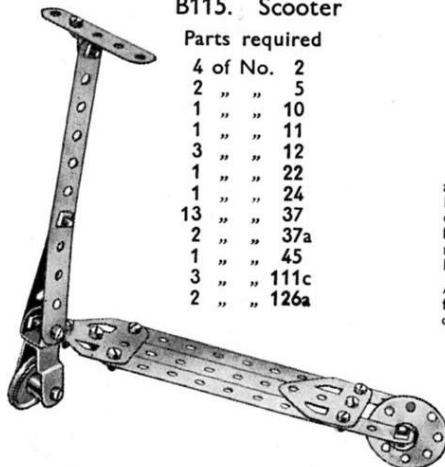
6 of No. 2	
2 " " 5	
2 " " 11	
8 " " 12	
1 " " 15b	
1 " " 17	
1 " " 17s	
3 " " 22	
1 " " 24	
4 " " 35	
40 " " 37	
1 " " 38	
2 " " 48a	
1 " " 52	
1 " " 111c	
2 " " 126	
2 " " 126a	
1 " " 176	
1 " " 187	
1 " " 188	
2 " " 190	
2 " " 191	

B121. Stamping Machine

Parts required

4 of No. 2	1 of No. 24
7 " " 5	2 " " 35
2 " " 10	20 " " 37
2 " " 12	2 " " 48a
2 " " 16	1 " " 52
1 " " 19s	2 " " 126a
4 " " 22	1 " " 186

B115. Scooter



Parts required

4 of No. 2	
2 " " 5	
1 " " 10	
1 " " 11	
3 " " 12	
1 " " 22	
1 " " 24	
13 " " 37	
2 " " 37a	
1 " " 45	
3 " " 111c	
2 " " 126a	

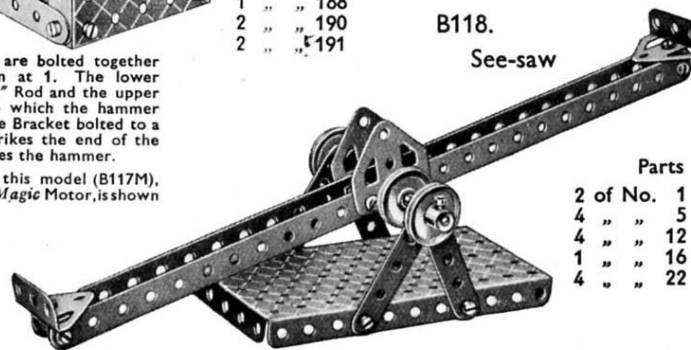
Two Double Brackets are bolted together at right angles as shown at 1. The lower Bracket pivots about a 2" Rod and the upper one carries a 3½" Rod to which the hammer head is fitted. An Angle Bracket bolted to a rotating Bush Wheel strikes the end of the hammer Rod and operates the hammer.

An alternative design of this model (B117M), fitted with the Meccano Magic Motor, is shown on page 25.

Parts required	3 of No. 22	1 of No. 52
2 of No. 2	1 " " 24	3 " " 90a
5 " " 5	2 " " 35	2 " " 125
8 " " 12	28 " " 37	2 " " 190
2 " " 17	2 " " 37a	2 " " 191

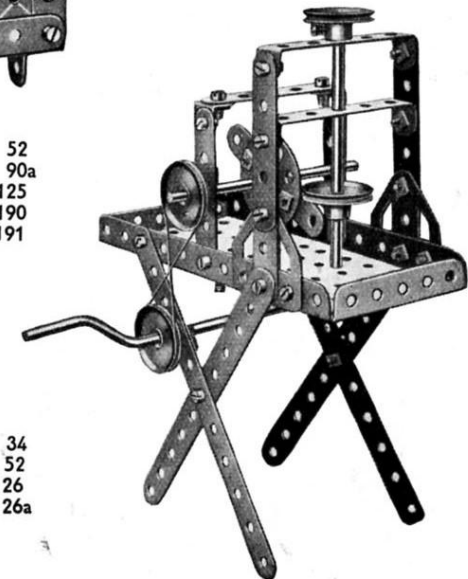
B118.

See-saw



Parts required

2 of No. 1	14 of No. 34
4 " " 5	1 " " 52
4 " " 12	2 " " 126
1 " " 16	2 " " 126a
4 " " 22	

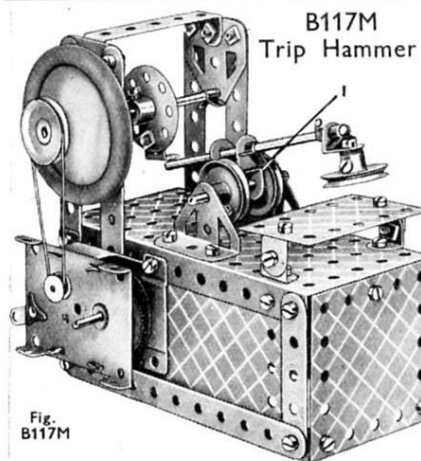


## HOW TO CONTINUE

When you have built the B Outfit Models illustrated, and fitted a number of them with the Meccano Magic Motor (see following two pages), your next step is to purchase a Ba Accessory Outfit. This converts your B Outfit into a C and enables you to build bigger and better models.



## Outfit B Models fitted with the Magic Motor

B117M  
Trip Hammer

Parts required	
6 of No.	2
2 "	5
2 "	11
8 "	12
1 "	15b
1 "	16
1 "	17
1 "	22
4 "	24
1 "	35
36 "	37
1 "	37a
2 "	48a
1 "	52
1 "	111c
2 "	126
2 "	126a
1 "	176
1 "	187
1 "	188
2 "	190
2 "	191

Magic Motor

Two Double Brackets are bolted together as shown at 1. The lower Bracket pivots about a 2" Rod and the upper one carries the hammer. A Bush Wheel is driven from the Magic Motor by a rubber band passing round a 1" Pulley Wheel and carries an Angle Bracket that strikes the end of the hammer Rod and operates the hammer.

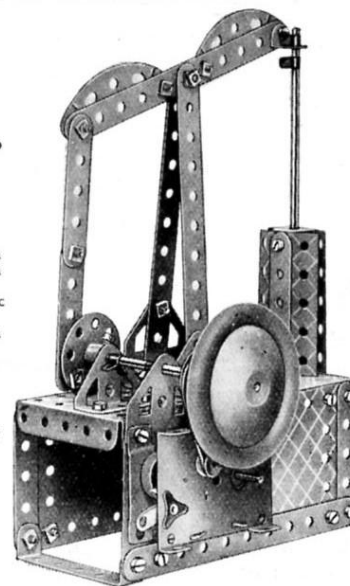


Fig. B32M

## B32M. Pump

Parts required

5 of No.	2	3 of No.	38
8 "	5	2 "	48a
2 "	11	1 "	52
3 "	12	2 "	90a
1 "	15b	1 "	111c
1 "	16	2 "	126
1 "	22	2 "	126a
1 "	24	1 "	186
4 "	35	1 "	187
34 "	37	2 "	188
8 "	37a	2 "	191

Magic Motor

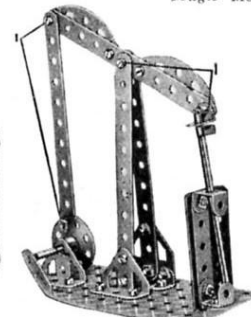


Fig. B32Ma

The construction of the pump cylinder will be clear from Fig. B32Ma. The Magic Motor drives a 1" Pulley on the crankshaft that is fitted with a Bush Wheel forming the crank. The bolts 1 are locknuted to form pivots.

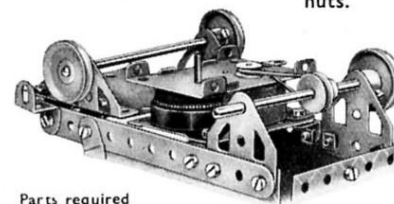


Fig. B51Ma

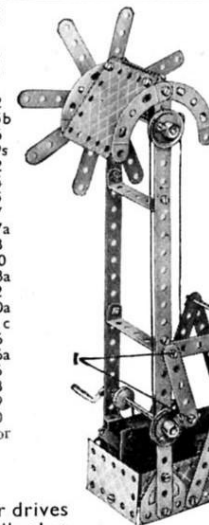
Parts required	
4 of No.	2
6 "	5
3 "	10
1 "	11
8 "	12
2 "	16
2 "	17
4 "	22
1 "	23
4 "	35
36 "	37
1 "	40
2 "	48a
1 "	52
4 "	90a
1 "	125
2 "	126
2 "	126a
1 "	186
2 "	188
2 "	190
2 "	191

Magic Motor

B90M.  
Windmill Pump

Parts required	
2 of No.	1
5 "	2
9 "	5
2 "	11
7 "	12
1 "	15b
2 "	16
1 "	19s
1 "	22
4 "	24
1 "	35
36 "	37
5 "	37a
2 "	38
1 "	40
2 "	48a
4 "	52
1 "	90a
1 "	111c
1 "	126
2 "	126a
1 "	186
2 "	188
2 "	189
2 "	190

Magic Motor

Fig.  
B90Ma

The Motor drives a Crank Handle that is fitted with the separate Pulley Wheel. It carries also a 1" Pulley, to the boss of which an Angle Bracket is secured, two Washers being placed on the securing bolt as shown in Fig. B90Ma. In this way a crank is formed and is connected to the pivoted beam that operates the pump. The bolts 1 are pivotally attached by means of locknuts.

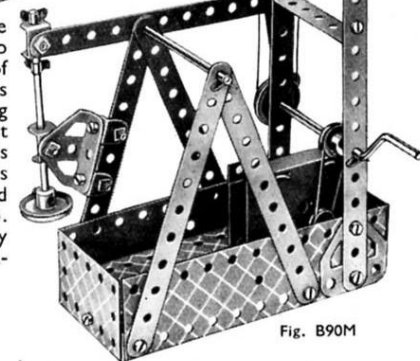


Fig. B90M

## B51M. Bread Van

The method of mounting the Magic Motor in position is shown in Fig. B51Ma. The horse travels on a 1/2" loose Pulley mounted between its hind legs, and the forelegs should be kept clear of the ground by tying the reins to the Angle Bracket 1.

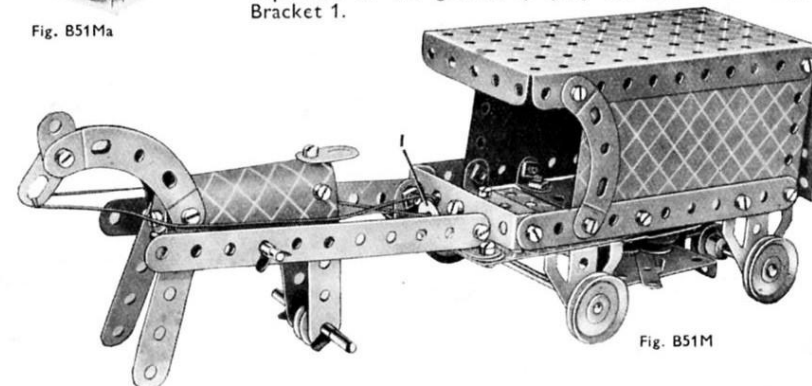


Fig. B51M

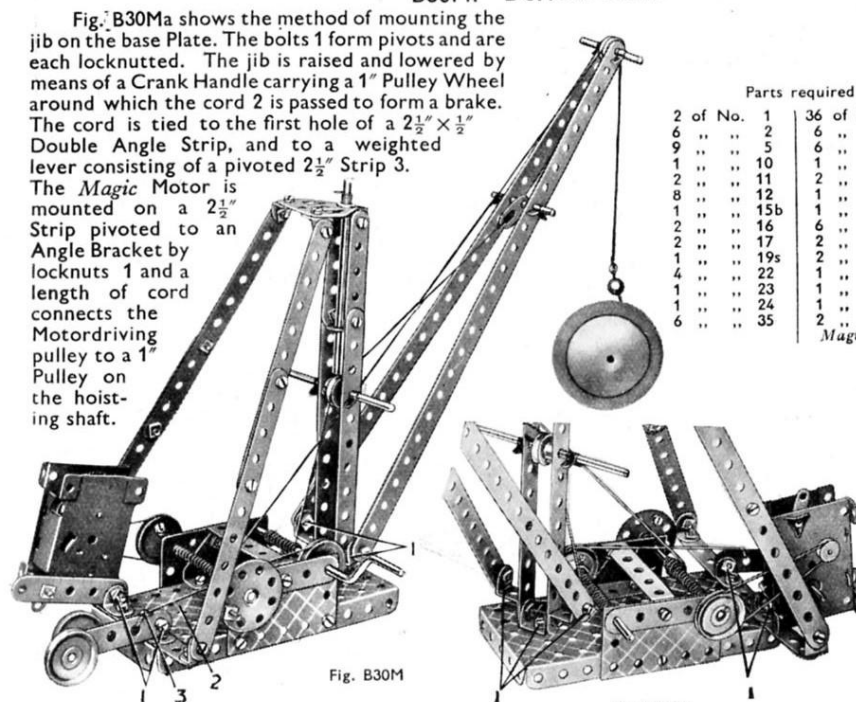


Fig. B30M

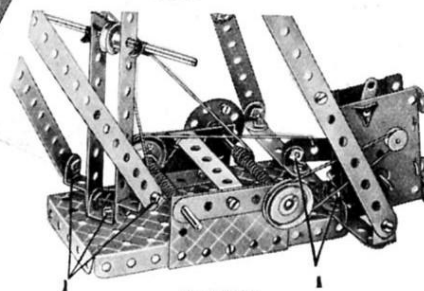


Fig. B30Ma

## B30M. Derrick Crane

Fig. B30Ma shows the method of mounting the jib on the base Plate. The bolts 1 form pivots and are each locknuted. The jib is raised and lowered by means of a Crank Handle carrying a 1" Pulley Wheel around which the cord 2 is passed to form a brake. The cord is tied to the first hole of a 2 1/2" x 1/2" Double Angle Strip, and to a weighted lever consisting of a pivoted 2 1/2" Strip 3. The Magic Motor is mounted on a 2 1/2" Strip pivoted to an Angle Bracket by locknuts 1 and a length of cord connects the Motor driving pulley to a 1" Pulley on the hoisting shaft.

Parts required

2 of No.	1	36 of No.	37
6 "	2	6 "	37a
9 "	5	6 "	38
1 "	10	1 "	40
2 "	11	2 "	48a
8 "	12	1 "	52
1 "	15b	1 "	57c
2 "	16	6 "	111c
2 "	17	2 "	125
1 "	19s	2 "	126
4 "	22	1 "	126a
1 "	23	1 "	176
1 "	24	1 "	187
6 "	35	2 "	188

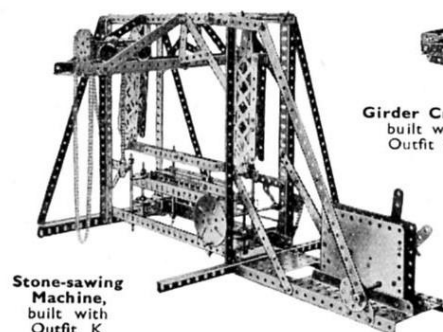
Magic Motor



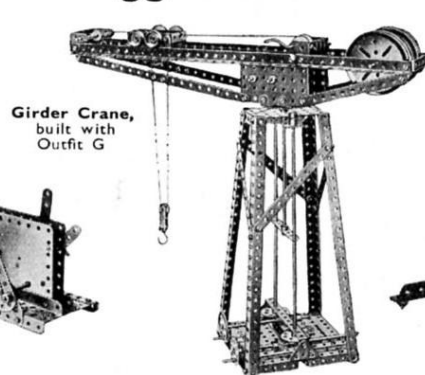
## Build Bigger and Better Models



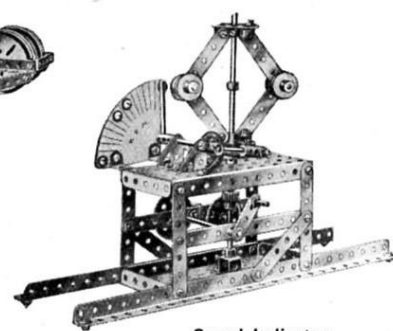
Windmill,  
built with  
Outfit E



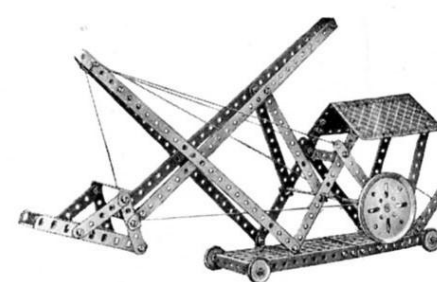
Stone-sawing  
Machine,  
built with  
Outfit K



Girder Crane,  
built with  
Outfit G



Speed Indicator,  
built with Outfit G



Mechanical Shovel, built with Outfit C



Vertical Drill,  
built with  
Outfit H



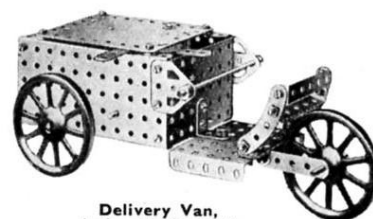
Elevated  
Jib Crane,  
built with  
Outfit C

### Keep adding to your Outfit

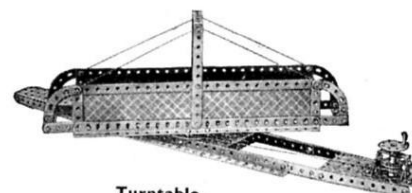
The more Meccano parts you have, the bigger and better the models you are able to build. Keen and enthusiastic model-builders keep adding to their Outfits, until they are able to build all the wonderful models shown in the Meccano Manuals.

The model-building possibilities of the Meccano System are limitless. All the fine models illustrated on this page are examples of the types you will be able to build as your Outfit develops.

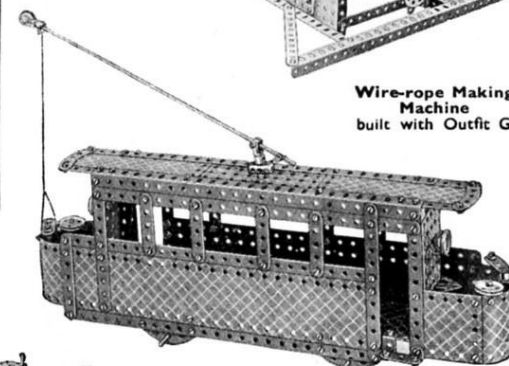
You can purchase separate Meccano parts as you require them or, if you prefer, you can purchase Accessory Outfits that connect all the main Outfits.



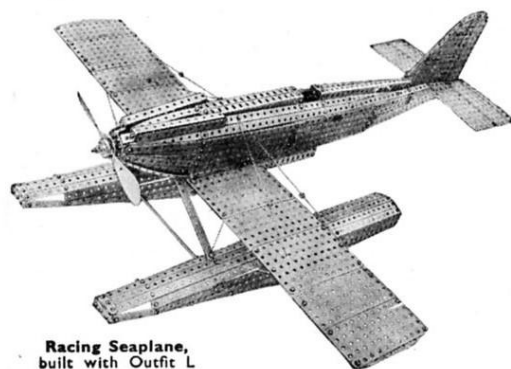
Delivery Van,  
built with Outfit H



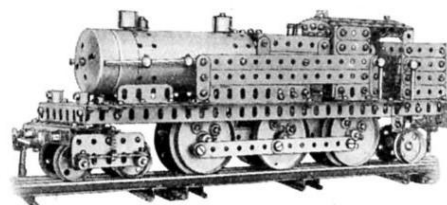
Turntable,  
built with Outfit E



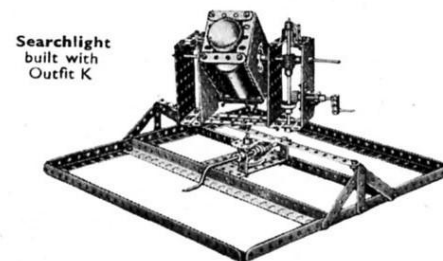
Wire-rope Making  
Machine  
built with Outfit G



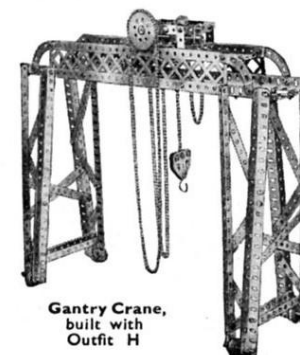
Racing Seaplane,  
built with Outfit L



Pacific Tank Locomotive,  
built with Outfit L

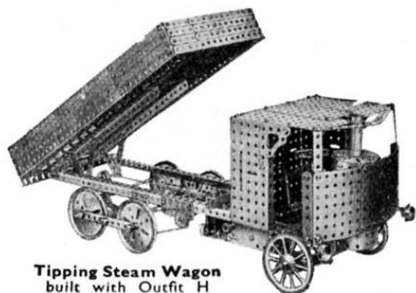


Searchlight  
built with  
Outfit K

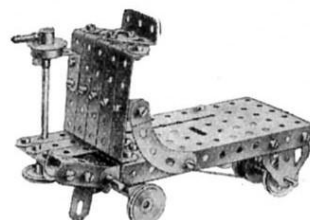


Gantry Crane,  
built with  
Outfit H

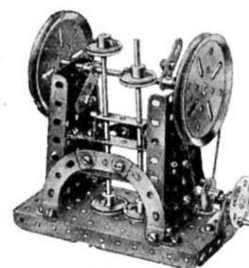
# The Possibilities of Meccano are Unlimited



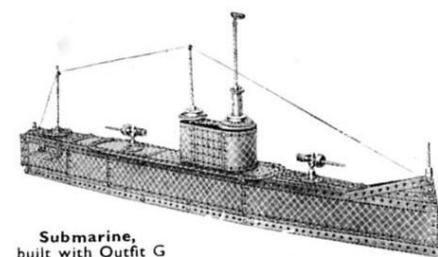
**Tipping Steam Wagon**  
built with Outfit H



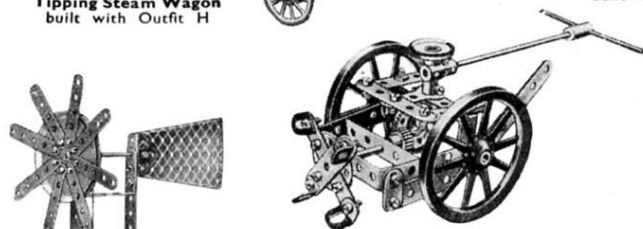
**Electric Truck**,  
built with Outfit E



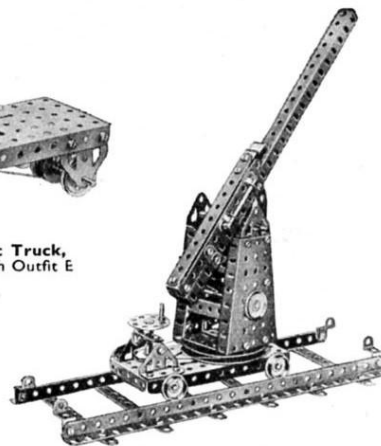
**Stamping Mill**,  
built with Outfit E



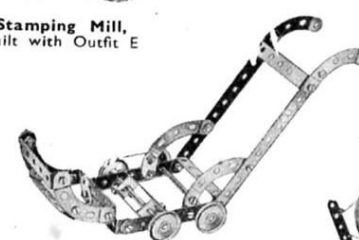
**Submarine**,  
built with Outfit G



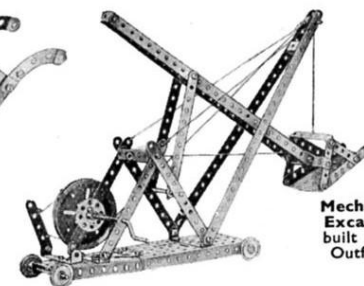
**Potato Reaper**,  
built with Outfit H



**Anti Aircraft Gun**, built with Outfit E



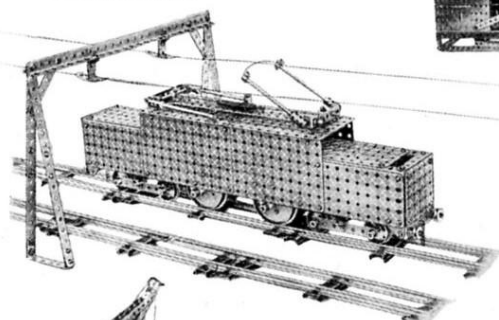
**Lawn Mower**,  
built with Outfit E



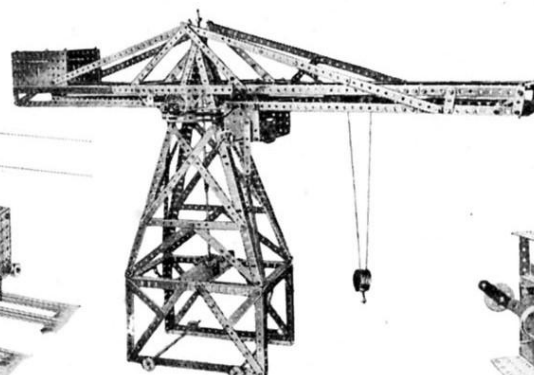
**Mechanical Excavator**,  
built with Outfit C



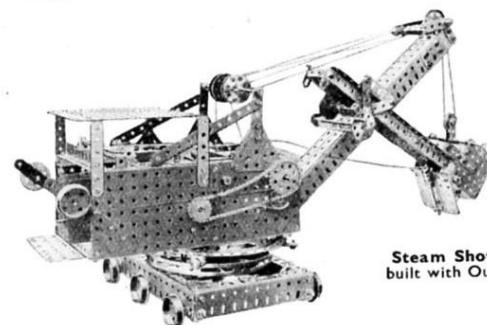
**Windmill Pump**,  
built with Outfit C



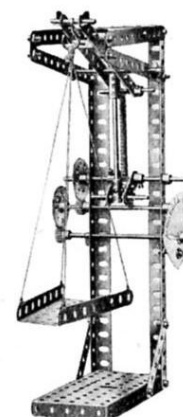
**Electric Locomotive**,  
built with Outfit K



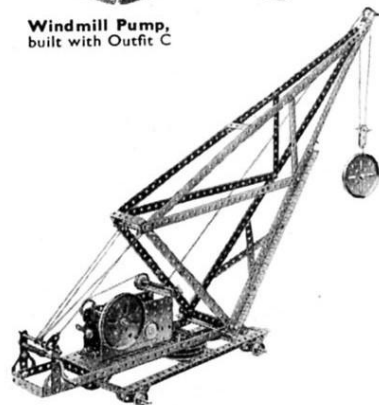
**Radial Travelling Crane**,  
built with Outfit K



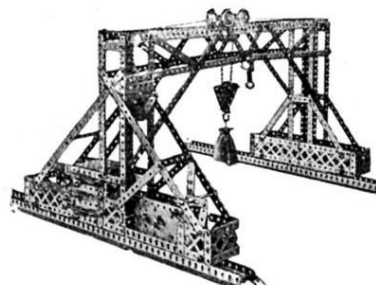
**Steam Shovel**,  
built with Outfit L



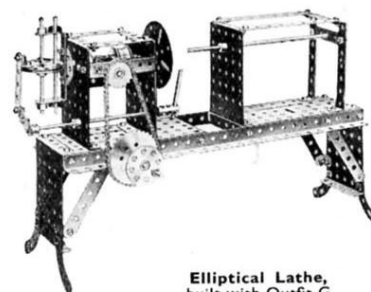
**Spring Scales**,  
built with Outfit H



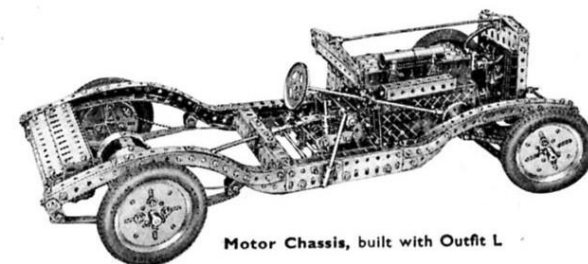
**Travelling Jib Crane**,  
built with Outfit E



**Travelling Gantry Crane**,  
built with Outfit L



**Elliptical Lathe**,  
built with Outfit G



**Motor Chassis**, built with Outfit L

# MECCANO

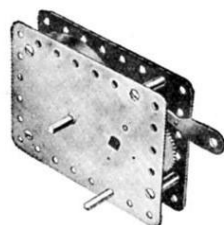
## POWER UNITS FOR OPERATING MECCANO MODELS

If you want to obtain the fullest enjoyment from the Meccano hobby you should operate your models by means of one of the Meccano power units described on this page. You push over the control lever of the clockwork or electric motor and immediately your Crane, Motor Car, Ship Coaler or Windmill commences to work in exactly the same manner as its prototype in real life. Each motor is pierced with the standard Meccano equidistant holes.

### MECCANO CLOCKWORK MOTORS

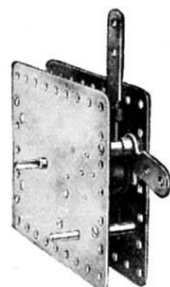
These are the finest Clockwork motors obtainable for model driving. They have exceptional power and length of run and their gears are cut with such precision as to make them perfectly smooth and steady in operation.

Meccano Clockwork Motors are especially suitable for small models built with a limited range of parts. They are extremely simple to operate and have the advantage of being self-contained.



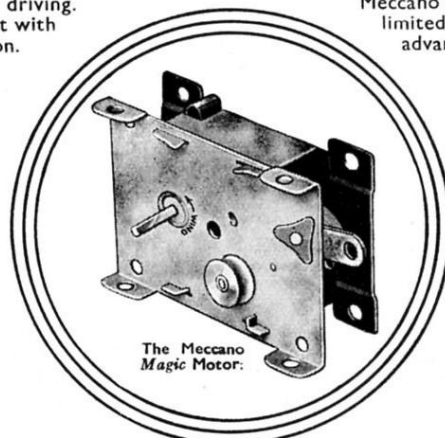
**No. 1 Clockwork Motor**

An efficient and long-running Motor fitted with a brake lever by means of which it may be started and stopped. It is non-reversing.



**No. 1a Clockwork Motor**

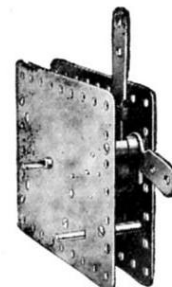
This Motor is more powerful than the No. 1 Motor and is fitted with reversing motion. It has brake and reverse levers.



The Meccano Magic Motor:

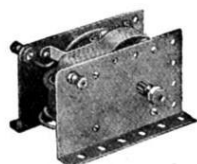
### The Meccano Magic Motor

The Meccano Magic Motor is well designed and strongly constructed, and is fitted with a powerful spring giving a long and steady run. It is non-reversing. Each Magic Motor is supplied with a separate  $\frac{1}{2}$ " Pulley Wheel and three pairs of driving bands of different lengths. It is capable of driving all the Meccano A and B Outfit models, and many of the lighter models illustrated in the Manuals of the C, D and E Outfits.



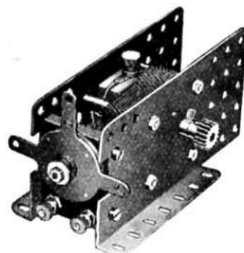
**No. 2 Clockwork Motor**

This is a Motor of super quality. Brake and reverse levers enable it to be started, stopped or reversed, as required.



**No. E1 Electric Motor (6-volt)**

This is a highly efficient motor (non-reversing) that will give excellent service. It can be operated through a 9-volt Meccano Transformer from the mains, providing that the supply is alternating current, or from a 6-volt accumulator.

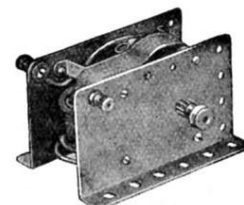


**No. E6 Electric Motor (6-volt)**

This fine motor is fitted with reversing motion and provided with stopping and starting controls. It can be operated through a 9-volt Meccano Transformer from the mains providing that the supply is alternating current, or from a 6-volt accumulator.

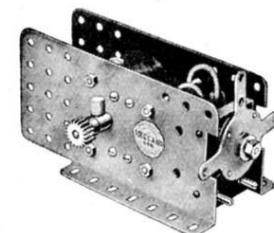
### MECCANO ELECTRIC MOTORS

The four Meccano Electric Motors shown here have been designed specially to provide smooth-running power units for the operation of Meccano models. The 6-volt Motors may be operated through a Meccano Transformer direct from the mains, providing that the supply is alternating current, or from a 6-volt accumulator. The 20-volt Motors are operated through a 20-volt Transformer from alternating current supply mains.



**No. E120 Electric Motor (20-volt)**

The E120 Electric Motor is a very reliable and smooth-running power unit. It is operated through a Meccano 20-volt Transformer from alternating current supply mains. Non-reversing.



**No. E20b Electric Motor (20-volt)**

This 20-volt Electric Motor is an extremely efficient power unit, fitted with reversing motion and provided with stopping and starting controls. It is operated through a Meccano 20-volt Transformer from alternating current supply mains.

### MECCANO TRANSFORMERS

There are six Transformers in the series, as described below, all of which are available for the following A.C. Supplies:—100/110 volts, 50 cycles; 200/225 volts, 50 cycles; 225/250 volts, 50 cycles. Any of the Transformers can be specially wound for supplies other than these at a small extra charge. When ordering a Transformer the voltage and frequency of the supply must always be stated.

### Resistance Controllers

These Controllers enable the speed of Meccano 6-volt and 20-volt Motors and Hornby 6-volt and 20-volt Electric Trains to be regulated as desired.



No. T20a Transformer

**No. T20A TRANSFORMER** (Output 35 VA at 20/3½ volts) for 20-volt Electric Motors. Has two separate circuits at 20 volts, one controlled by a 5-stud speed regulator; and a third circuit at 3½ volts for lighting up to 14 lamps.

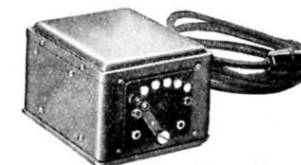
**No. T6A TRANSFORMER** (Output 40 VA at 9/3½ volts) for 6-volt Electric Motors. Has two separate circuits at 9 volts, one controlled by a 5-stud speed regulator; and a third circuit at 3½ volts for lighting up to 18 lamps.

**No. T20M TRANSFORMER** (Output 20 VA at 20 volts) for 20-volt Electric Motors. This is similar to the No. T20 Transformer, but is not fitted with speed regulator.

**No. T6M TRANSFORMER** (Output 25 VA at 9 volts) for 6-volt Electric Motors. This is similar to the No. T6 Transformer, but is not fitted with speed regulator.

**No. T20 TRANSFORMER** (Output 20 VA at 20 volts) for 20-volt Electric Motors. Provided with one 20-volt circuit controlled by a 5-stud speed regulator.

**No. T6 TRANSFORMER** (Output 25 VA at 9 volts) for 6-volt Electric Motors. Provided with one 9-volt circuit controlled by a 5-stud speed regulator.



No. T20 Transformer

Ask your dealer for a complete price list.





# MECCANO

## STANDARD MECHANISMS



When a boy has built all the models illustrated in this Manual, he will wish not only to increase the size of his Outfit so that he can build bigger models, but also to start constructing models of his own design. It is now that the real inventive spirit of the Meccano boy asserts itself, and if he builds thoughtfully there is no reason why he should not in time become familiar with almost every form of engineering structure and mechanical movement.

In order to assist youthful inventors two splendidly illustrated Manuals have been specially prepared. The first of these, the "Standard Mechanisms Manual," describes Levers, Gear and Belt Transmission, Electrical Movements, and numerous other types of mechanisms. The second publication, "How to Use Meccano Parts," describes fully the various Meccano parts and explains and illustrates their most important uses.

The following examples have been selected from these two Manuals because of their general utility.

### LOCKNUTS.

One of the most useful of all Meccano connections is the locknutt joint, illustrated in Fig. A. If a pivoted joint were to be made using one nut and bolt only, the nut would soon either unscrew from its bolt or jam the two Strips together. This difficulty is easily overcome by fitting the Bolt 1, carrying the Strip 2, with a Nut 5. The Strip 2 must swing freely between the bolt head and Nut 5, the latter part having a second Strip 3 locked firmly against it by means of a Nut 4. In order to make the two nuts secure they must be turned towards each other with the aid of two spanners.

### CORD TRANSMISSION

In small models where it is found necessary to introduce a step-up drive for increasing the speed of a movement, or a step-down drive for increasing the available power, pulleys of varying diameters connected together by cord can be used. An example of this is shown in Fig. C, where a  $3''$  Pulley is connected to a  $\frac{3}{4}''$  Pulley, thus forming a 6:1 gear ratio. In Fig. B a 1:1 ratio transmission drive is shown for use in reverse gears. By crossing the cords in this way two shafts, arranged at any angle to each other, can be driven.

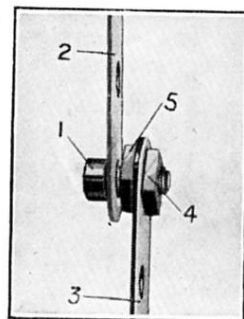


Fig. A

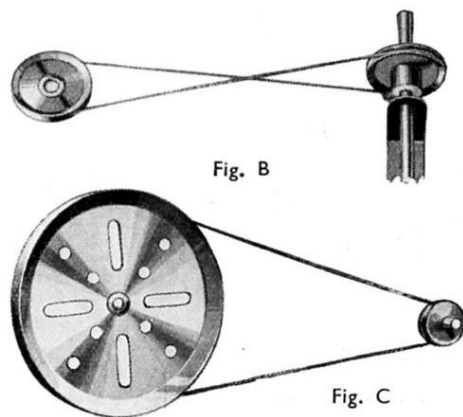


Fig. C

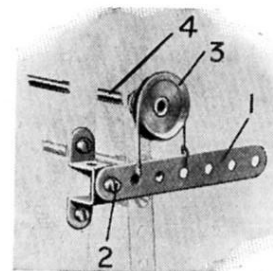


Fig. D

### STEERING MECHANISM

Greater interest can be given to a small model car or lorry by arranging the front wheels to steer. One simple way of accomplishing this is shown in Fig. E. A Double Angle Strip is bolted to a Bush Wheel that is secured to the underside of the model. The two front wheels are attached to the turned up ends of the Double Angle Strip by means of  $\frac{3}{4}''$  Bolts, and are turned from side to side by a short Strip connected to a Crank. This Crank is locked on the lower end of the steering column. If necessary the Crank and Strip may be replaced by a length of cord, passed round the steering column and secured to the extremities of the Double Angle Strip.

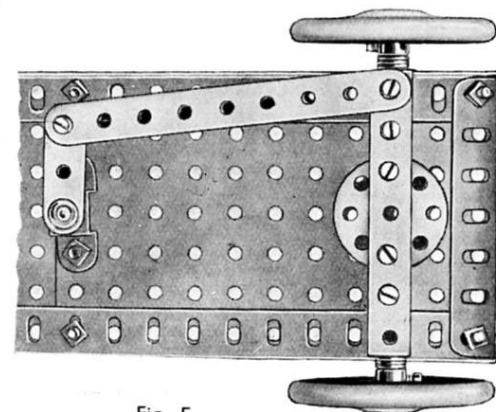


Fig. E

# CONTENTS OF OUTFITS AND COMPLETE LIST OF MECCANO PARTS

[illegible]

No.	Description.	A	Ba	C	Ca	D	Da	E	Es	F	Fa	G	Ga	H	Ha	K	Ka	L
61	Windmill Sails	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
62	Cranks, Threaded	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
62a	Double Arm Cranks	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
63	Couplings	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
63a	Octagonal	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
63b	Strip	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
63c	Threaded	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
64	Threaded Bosses	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
65	Centre Forks	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
66	Weights, 50-gramme	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
67	Weights, 25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
68	Wood screws, 1"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
69	Set Screws, 5/32"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
69a	Grub Screws, 7/32"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
69b	Perforated Flat Plates, 5 1/2" x 2 1/2"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
70	" " " 3" x 1 1/2"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
72	" " " 3" x 1 1/2"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
73	" " " 3" x 1 1/2"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
76	" " " 3" x 1 1/2"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
77	Triangular Plates, 1"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
78	Screwed Rods, 1 1/2"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
79	" " " 8"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
79a	" " " 6"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
80	" " " 5"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
80a	" " " 3 1/2"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
80b	" " " 4 1/2"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
81	" " " 2"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
82	" " " 1"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
89	Curved Strips, 5 1/2"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
89a	" " " 3"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
89b	" " " 4"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
90	" " " 2 1/2"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
90a	" " " 2"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
94	Sprocket Chain	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
95	Sprocket Wheels, 2"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
95a	" " " 1 1/2"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
95b	" " " 3"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
96	" " " 1"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
96a	" " " 1"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
97	Braced Girders, 3 1/2" long	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
97a	" " " 3"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
98	" " " 2 1/2"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
99	" " " 12"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
99a	" " " 9"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
99b	" " " 7 1/2"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100	" " " 5 1/2"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
100a	" " " 4 1/2"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
101	Heads for Looms	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
102	Single Bent Strips	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
103	Flat Girders, 5 1/2"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
103a	" " " 9"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
103b	" " " 12"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
103c	" " " 4"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
103d	" " " 3 1/2"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
103e	" " " 3"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
103f	" " " 2 1/2"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
103g	" " " 2"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
103h	" " " 1 1/2"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
103k	" " " 7 1/2"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
104	Shuttles for Looms	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
105	Reed Hooks	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
106	Rollers for Looms, Wood	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
106a	Tables for Designing Machines	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
108	Architraves	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
109	Face Plates, 2 1/2" diam.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
110	Rack Strips, 3 1/2"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
110a	" " " 6"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
111	Bolts, 1/2"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
111a	" " " 1/2"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
111c	" " " 1/2"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
112	Girder Frames	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
113	Hinges	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
114	Threaded Pins	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
115	Fork Pieces, Large	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
116	Fork Pieces, Small	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
116a	" " " 3/8"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
117	Steel Balls, 3/8" diam.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
118	Hub Discs, 5 1/2" diam.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
120	Butter Buffs	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
120a	Spring Buffs	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
120b	Spring Buffs	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
121	Compression Springs	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
122	Triangular Couplings	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
123	Miniature Loaded Sacks	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
124	Cone Pulleys	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
125	Reversed Angle Brackets, 1"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
126	Trunnions	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
126a	Flat Trunnions	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
127	Simple Bell Cranks	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
128	Rock Bell Cranks	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
129	Rack Segments, 3" diam.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
130	Triple Throw Eccentrics	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
131	Dredger Buckets	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
132	Flywheels, 2 1/2" diam.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
133	Corner Brackets, 1 1/2"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
133a	" " " 1"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
134	Crank Shafts, 1" stroke	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
135	Theodolite Protractors	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
136	Handrail Supports	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
136a	Wheel Flanges	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
137	Ship's Funnel	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
138	" " " Raked	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
138a-z	Flanged Brackets, Right	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
139	" " " Left	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
139a	Universal Couplings	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
141	Wire Lines (for clock-weights)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
142	Rubber Rings, 3"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
142a	Motor Tyres, 2"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
142b	" " "	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...



## CONTENTS OF OUTFITS AND COMPLETE LIST OF MECCANO PARTS (Continued)

[illegible]

## SPECIAL INSTRUCTION LEAFLETS

No. 1a-Motor Chassis	No. 14a-New Grandfather Clock	No. 25-Hydraulic Crane
" 2-High-speed Ship-Coaler	" 16a-New Loom	" 26-Twin-elliptic Harmonograph
" 3-Dredger	" 17-Planing Machine	" 28-Pontoon Crane
" 5-Stiff Leg Derrick	" 18-Revolving Crane	" 29-Hammerhead Crane
" 6-Platform Scales	" 19-Steam Shovel	" 30-Breakdown Crane
" 7-Bagatelle Table	" 20-Electric Mobile Crane	" 31-Varehouse
" 10-Log Saw	" 21-Electric Bridge	" 32-Automatic Grabbing Crane
" 1a-Horizontal Engine	" 21-Transporter Bridge	" 36-Electric Derrick Crane
" 12-Stone-sawing Machine	" 22-Traction Engine	" 37-Howitzer Limber and Tractor
" 13-Mecanograph	" 23-Vertical Log Saw	
	" 24-Travelling Gantry Crane	

**Outfits Ha and K** contain Special Instruction Leaflets Nos. 7, 9, 10, 11a, 12 and 37.  
**Outfit K** contains Special Instruction Leaflets Nos. 1, 2, 5, 6, 13, 14a, 16a, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 28, 29, 30, 31, 35 and 36.  
**Outfit L** contains a copy of each of the 29 Special Instruction Leaflets listed above.

## LIST OF MODELS ILLUSTRATED IN THIS MANUAL

American Saddle ...	B40	Deck Chair ...	A68	Ladder ...	A59	See-saw ...	B118
Anchor ...	A12	Dentist's Chair ...	B109	Ladder on Wheels ...	A10	Sedan Chair ...	B65
Anti-Aircraft Gun ...	A26	Derrick Crane ...	B30	Lever of the First Order ...	A28	Sensitive Drill ...	B108
Arc Lamp ...	B113	Devil Wall ...	A46	Lever of the Second Order ...	B45	Shafing Standard ...	A21
Arm Chair ...	A48 ; B31	Dinner Wagon ...	A91	Level Crossing Barrier ...	A77	Shelter ...	B89
Ash Cart ...	B63	Dog ...	A9	Liner ...	A11	Shepherd's Crook ...	B64
Automatic Signal ...	B67	Drafting Table ...	B10	Loading Gauge ...	B50	Sideboard ...	B120
Baggage Cart ...	A88	Drilling Machine ...	A52 ; A52M ; B21	Lumber Truck and Horse ...	A62 ; A62M	Single Sheave Pulley Block ...	B18
Baggage Truck ...	A70	Dressing Table ...	B114			Skier ...	A66
Band Saw ...	A63	Dump Car ...	B78			Sled ...	A71
Banjo ...	B33			Magic Plate ...	A67	Sledge ...	A95
Barrow ...	A35	Easel and Board ...	B85	Mail Bag Hanger ...	A76	Spaniel ...	A79
Bath Chair ...	A24	Electric Trolley ...	B46	Man and Boy ...	B1	Stamping Machine ...	B121
Bath with Shower ...	B29	Elephant ...	A94	Mechanical Shovel ...	B34	Stamping Mill ...	A78
Battle-axe ...	A31			Medal ...	B101	Station Seat ...	B57
Battleship ...	A25 ; B28	Fan ...	B2	Milk Float ...	B103	Steeplechaser ...	B87
Bed ...	A75	Fencers ...	B74	Milk Truck ...	A41	Step Ladder ...	A39
Bed Table ...	A5	Fire Axe ...	A14	Miller's Cart ...	B94	Step Ladder on Wheels ...	B97
Bench ...	A65	Fire Screen ...	A50	Modern Dressing Table ...	B41	Stool for Dressing Table ...	B58
Bench Lathe ...	B43	Flat Truck ...	A15 ; A33	Motor Boat ...	B44	Strong Man ...	B66
Biplane ...	B119	Fly Boats ...	B102	Motor Cycle and Sidecar ...	B25	Sulky ...	B52
Blacksmith ...	A80	Footbridge ...	B75	Music Stool ...	A18	Swing ...	A72 ; B38
Bogie Truck ...	A6	Fork ...	A38			Swinging Boat ...	B68
Bow and Arrow ...	B37			Ore Crusher ...	A19	Swinging Garden Seat ...	B86
Boxer ...	B80	Gallows ...	A49	Ostrich ...	A43	Swivelling Crane ...	B14
Bread Van ...	B51	Gangway ...	B96	Ottoman ...	B62	Sword ...	A3
Breakdown Crane ...	A96 ; B98	Garden Seat ...	A42			Table ...	A74
Brewer's Dray ...	B69	Gas Stove ...	A27	Parallel Bars ...	B3	Tea Wagon ...	A40
Bucking Broncho ...	B11	Giraffe ...	A44	Pecking Hen ...	B53	Teacher's Desk ...	B47
Buffers ...	A81	Go-Chair ...	A16	Pen Rack ...	A36	Telegraph Pole ...	A17
Bullock Cart ...	B5	Gong ...	B22	Perambulator ...	B91	Telegraph Key ...	A55
		Goose ...	B71	Pit-head Gear ...	A61	Telephone ...	A23
Calf ...	A90	Grandfather Clock ...	A60 ; B99	Porter's Trolley ...	A89	Timber Truck ...	A92
Caravan ...	B76	Grass Cutter ...	B54	Power Hack Saw ...	B106	Top ...	A92
Cart ...	A64	Gravel Sifter ...	A47	Prancing Horse ...	B59	Tram Car ...	B110
Card Table ...	B20	Grill ...	A4	Pulley Block ...	B48	Tricycle ...	B4
Catapult ...	A56 ; B12	Gymnast ...	B26	Pullman Car ...	A83	Trip Hammer ...	A97 ; B117
Cattle Truck ...	B15 ; B72			Pump ...	B32	Trolley ...	B112
Centrifugal Engine Governor ...	A22	Hand Truck ...	A13	Punching Bag Stand ...	B60	Two-Wheeled Trap ...	B82
Chaff Cutter ...	B42	Handcart ...	A69			Umpire's Seat ...	A51
Chair ...	A34 ; B70	Hanging Scales ...	A30	Rake ...	A1	Violin and Bow ...	B49
Chase ...	B116	Hat Rack ...	B73	Rattle ...	B7		
Chesterfield Chair ...	B84	Hawker's Cart ...	B61	Revolving Crane ...	A37	Walking Man ...	B6
Circular Saw ...	B27	Hay Cart ...	B17	Revolving Office Chair ...	B95	Watch Stand ...	A84
Clock ...	B79	High Diving Board ...	B9	Revolving See-saw ...	B24	Watchman's Hut and Fire ...	B92
Coaster ...	B23	Horizontal Engine ...	A82 ; A82M	Rickshaw ...	B100	Weather Vane ...	B35
Coffee Stall ...	B107	Horse ...	A45	Rocking Chair ...	B56	Weighing Machine ...	B83
Coffee Table ...	A85 ; B111	Horse and Cart ...	B88	Rocking Horse ...	B36	Wheel Barrow ...	A93
Collapsible Table ...	A8	Horse and Roller ...	A54	Roman Balance ...	A7	Windmill ...	A32 ; B77
Cot ...	A87 ; B39			Roundabout ...	A98	Windmill Pump ...	B90
Couch ...	A20 ; B55	Jockey Pulley ...	B105	Scales ...	A57 ; B19	Wringing Machine ...	A58
Coster's Barrow ...	B13	Joiner's Bench ...	A86	School Blackboard ...	B81	Wrestlers ...	B16
Counter Scales ...	A73 ; B104	Jumping Jack ...	A2	Scouter ...	B115		
Crane Grab ...	B8	Junction Signal ...	B93				
Cruiser ...	A53						

## MECCANO ACCESSORY OUTFITS

Each complete Meccano Outfit may be converted into the one next higher by means of a Meccano Accessory Outfit. Thus, a boy who commences with one of the small Outfits may build up his equipment by easy stages until he is the possessor of an L Outfit. An A Outfit may be converted into a B by adding to it an Aa Accessory Outfit. A Ba Accessory Outfit would then convert the B Outfit into a C, and so on.

## LIST OF ACCESSORY OUTFITS

Accessory Outfit	Aa converts	A Outfit into	B	Accessory Outfit	Fa converts	F Outfit into	G
"	Ba	"	C	"	Ga	"	H
"	Ca	"	D	"	Ha	"	K
"	Da	"	E	"	Ka	"	L
"	Ea	"	F				



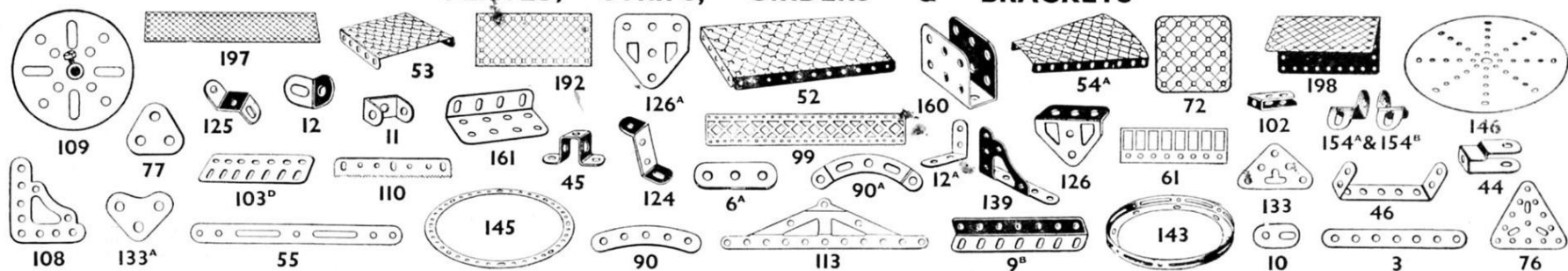
Accessory Outfit Ba



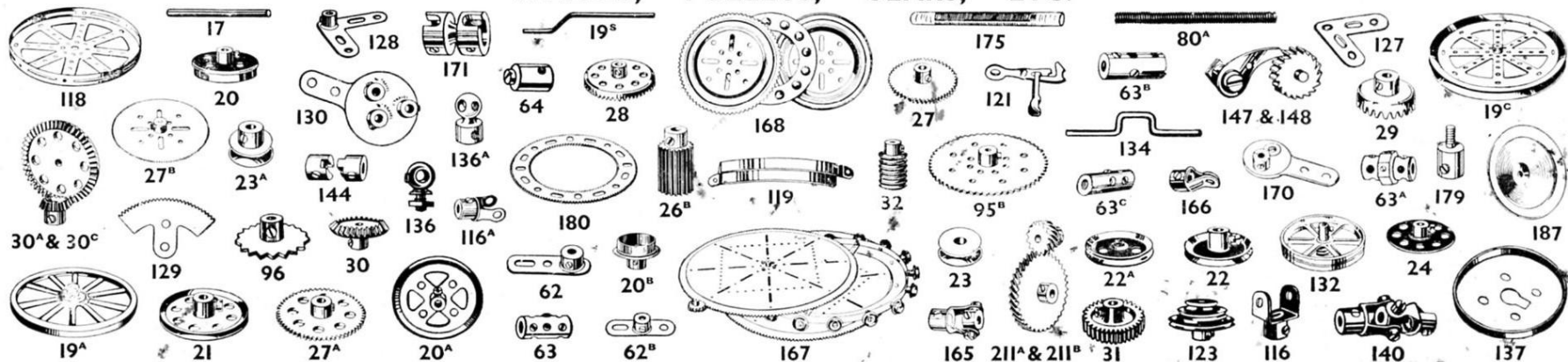
Accessory Outfit Ga

# MECCANO PARTS & ACCESSORIES

## PLATES, STRIPS, GIRDERS & BRACKETS



**WHEELS, PULLEYS, GEARS, ETC.**



## MISCELLANEOUS

