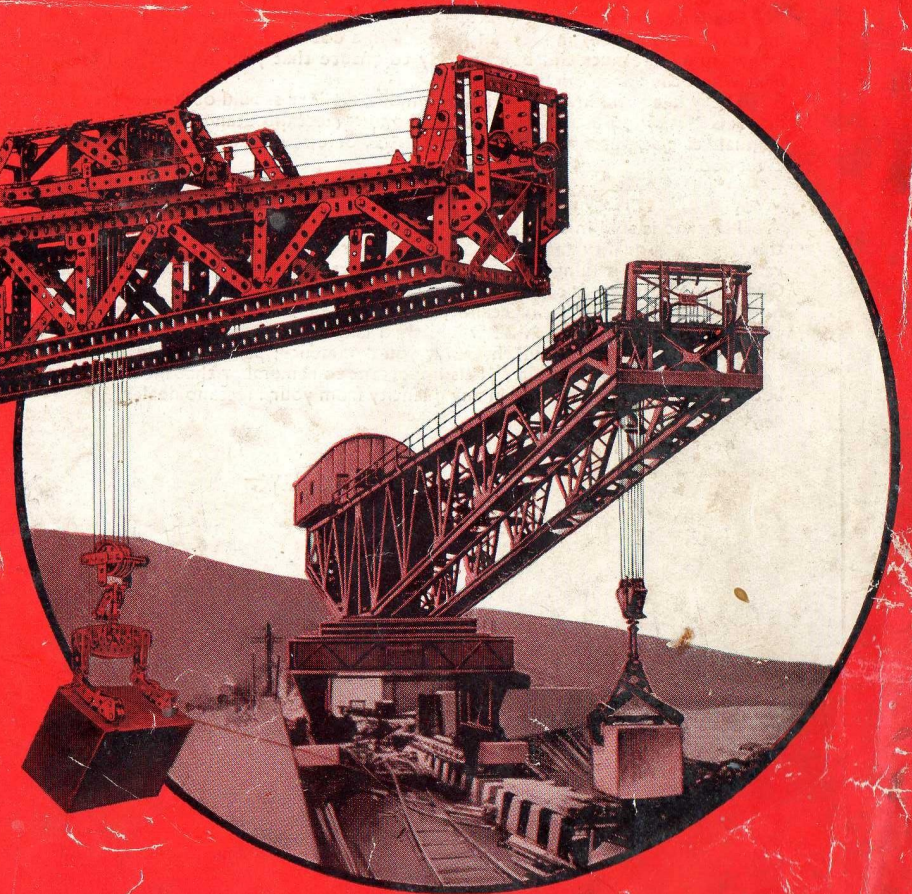


# MECCANO

HORNBY'S ORIGINAL SYSTEM — FIRST PATENTED 1901

INSTRUCTIONS FOR OUTFITS A to D

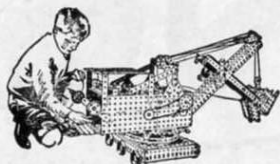


35A-D

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13/733/155 (Aus./Etc.)





# MECCANO

HORNBY'S ORIGINAL SYSTEM — FIRST PATENTED 1901



## MODEL-BUILDING WITH MECCANO

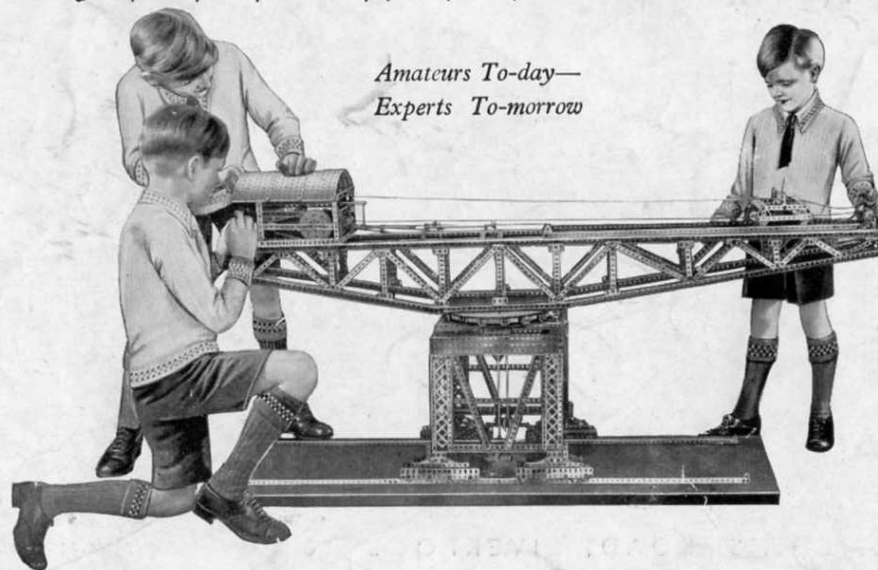
There is no limit to the number of models that can be built with Meccano—Cranes, Clocks, Motor Cars, Ship Coalers, Machine Tools, Locomotives—in fact everything that interests boys. A screwdriver and a spanner, both of which are provided in each Outfit, are the only tools necessary.

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 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.

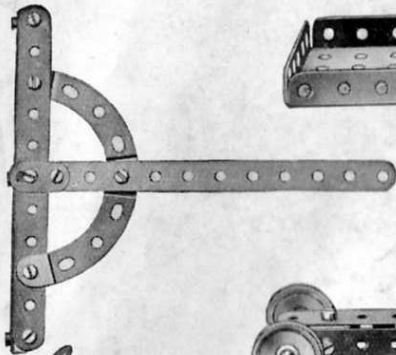
Meccano Clubs are founded and established under the guidance of the Guild Secretary at Headquarters, and at the present time there are active Clubs in nearly 250 towns and villages in the United Kingdom, and more than 100 in countries overseas. Each Club has its Leader, Secretary, Treasurer, and other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

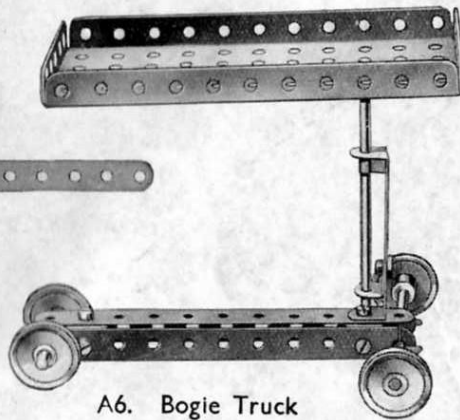
## MECCANO SERVICE

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

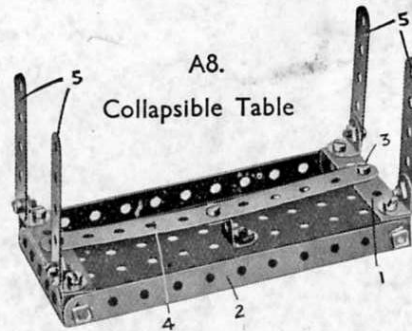


A5. Bed Table



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.

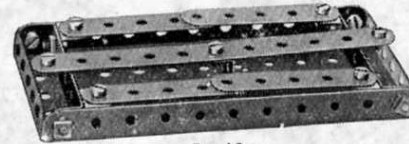
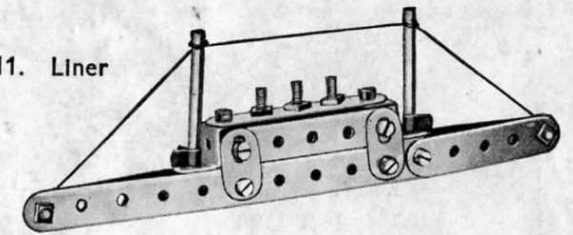
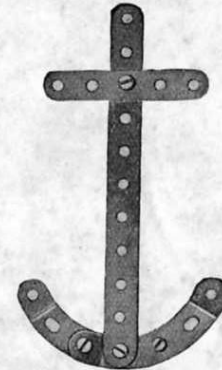


Fig. A8a

A11. Liner



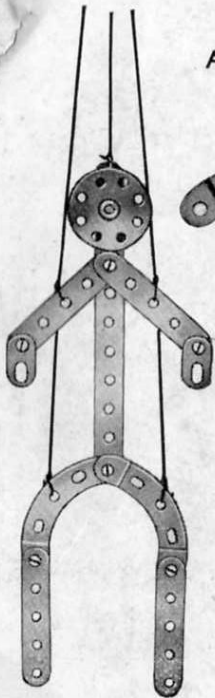
A12. Anchor



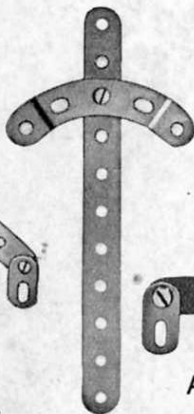
A16. Go-chair



A2. Jumping Jack



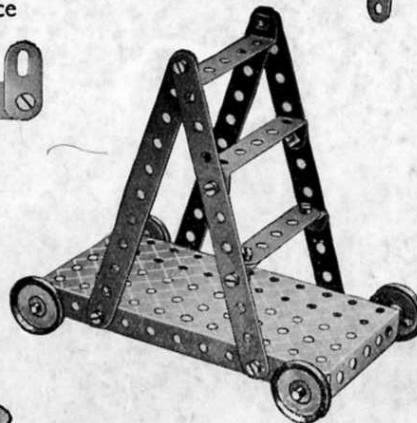
A3. Sword



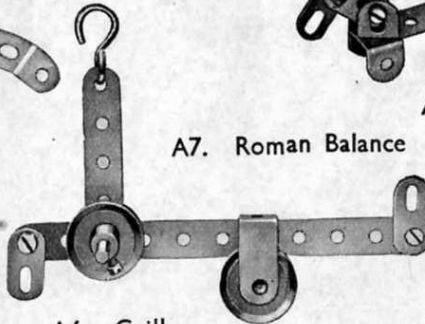
A9. Dog



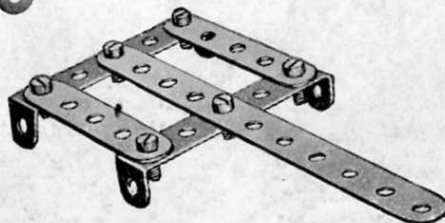
A10. Ladder on Wheels



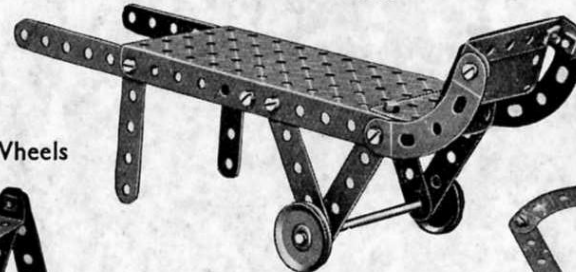
A7. Roman Balance



A4. Grill



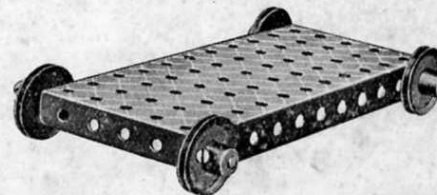
A13. Hand Truck



A14. Fire Axe



A15. Flat Truck

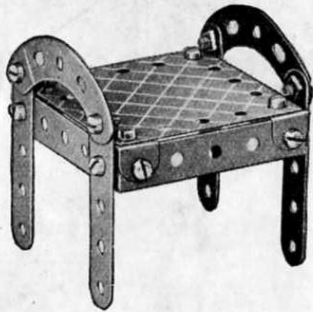


A17. Telegraph Pole

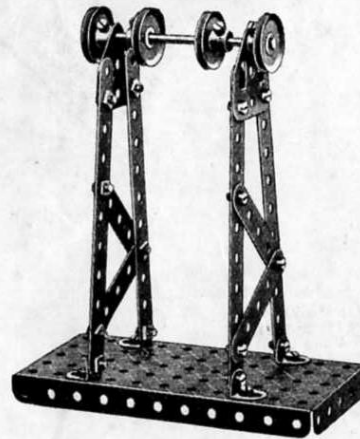




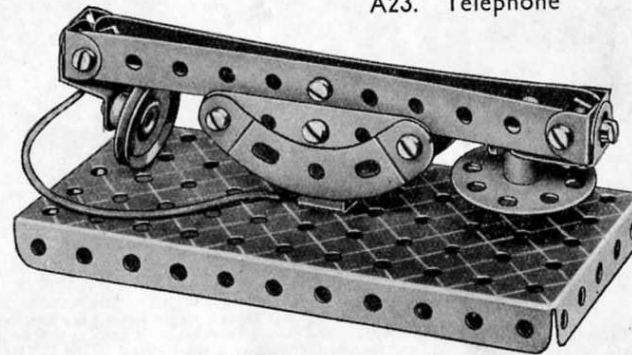
A18. Music Stool



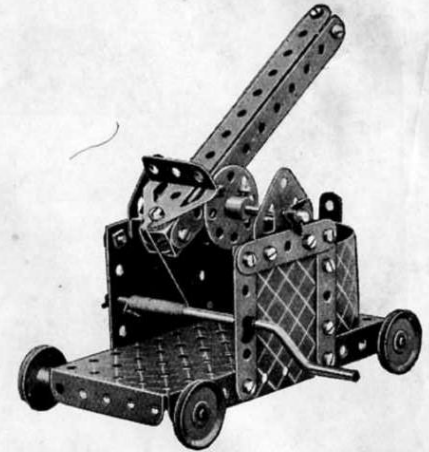
A21. Shafting Standard



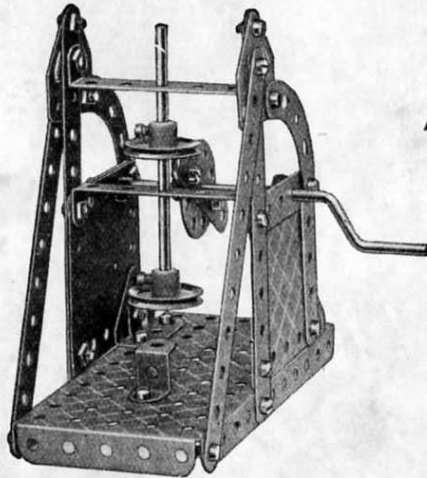
A23. Telephone



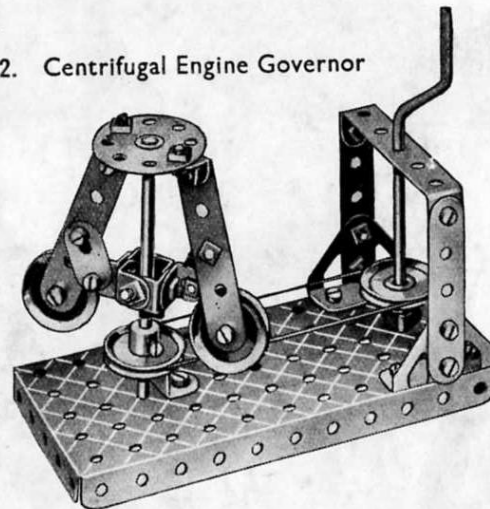
A26. Anti-aircraft Gun



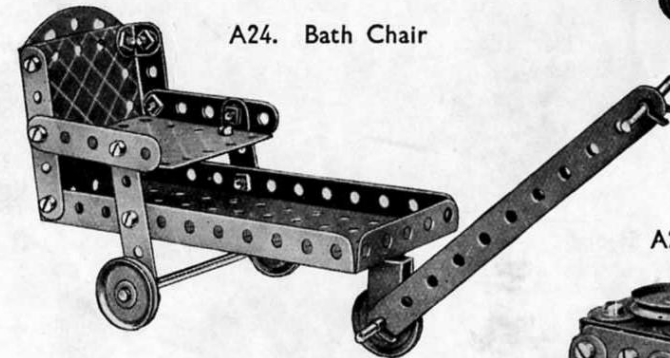
A19. Ore Crusher



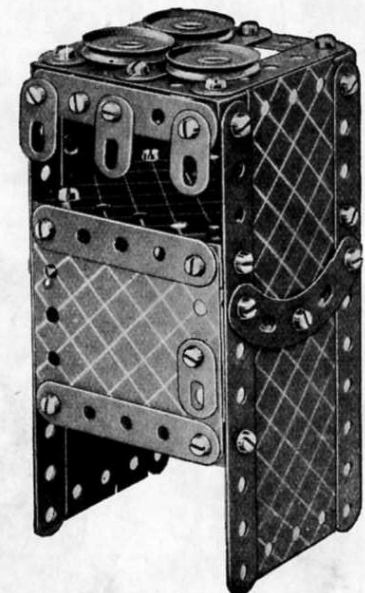
A22. Centrifugal Engine Governor



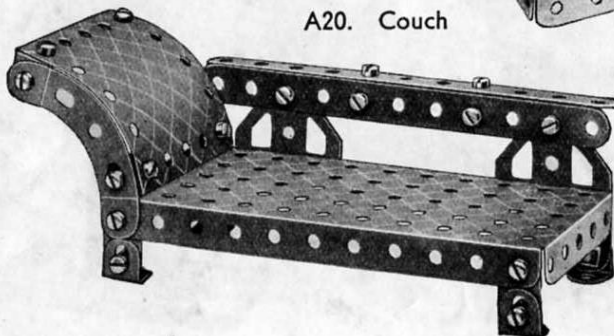
A24. Bath Chair



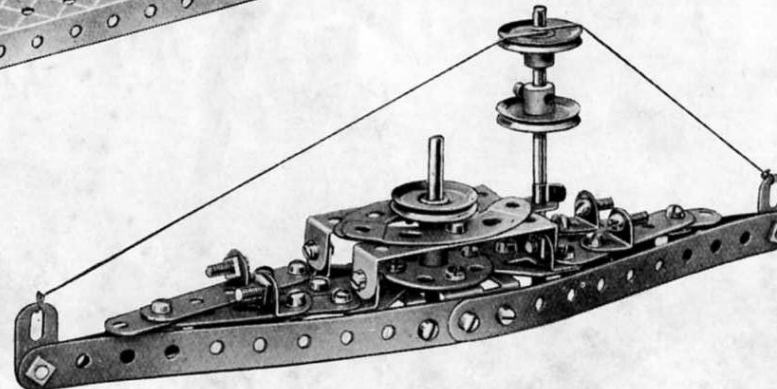
A27. Gas Stove



A20. Couch

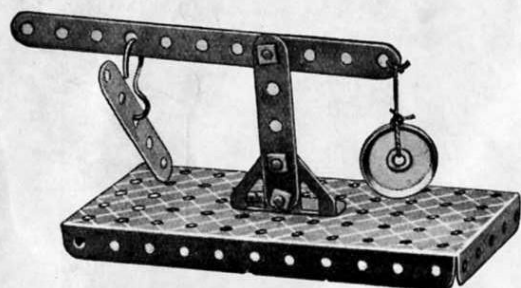


A25. Battleship

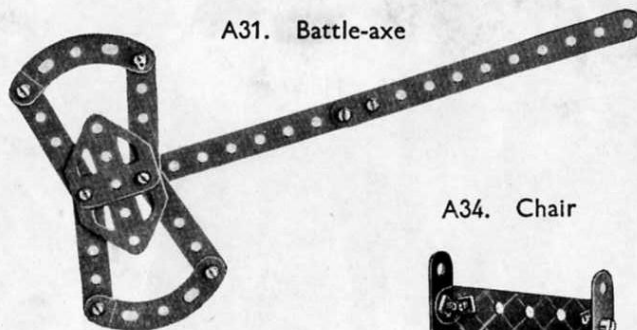




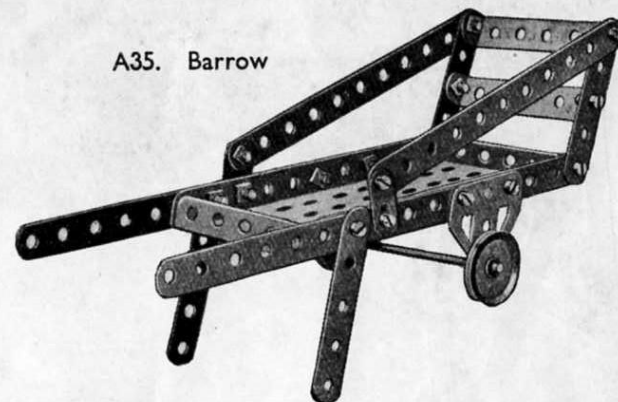
A28. Lever of the First Order



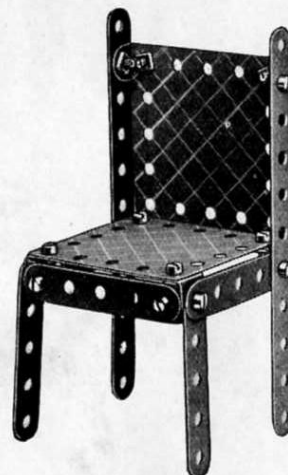
A31. Battle-axe



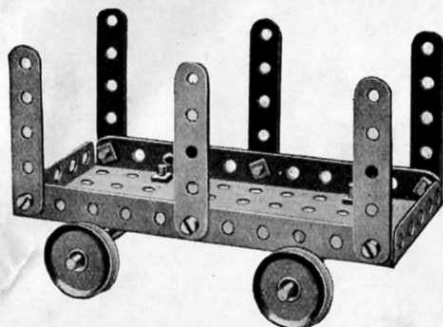
A35. Barrow



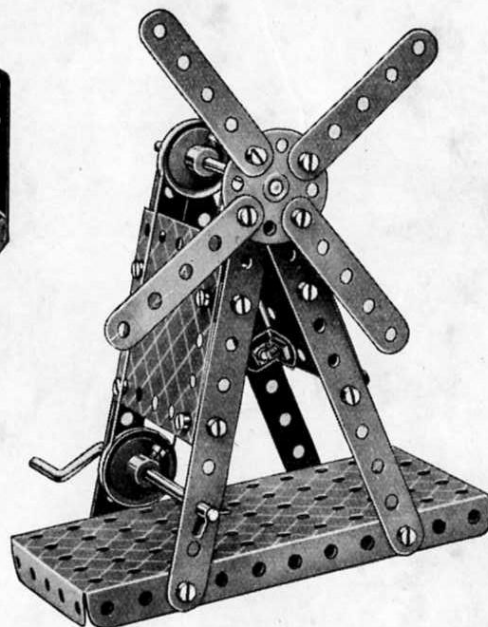
A34. Chair



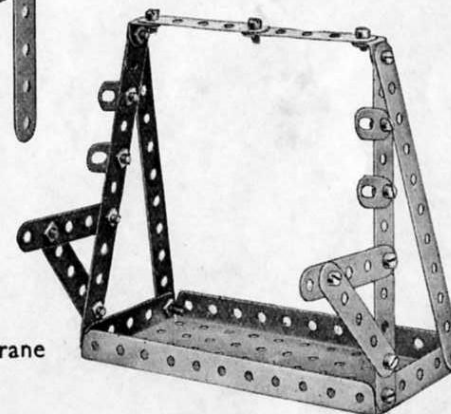
A29. Timber Truck



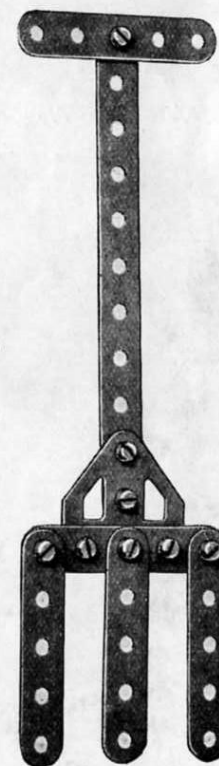
A32. Windmill



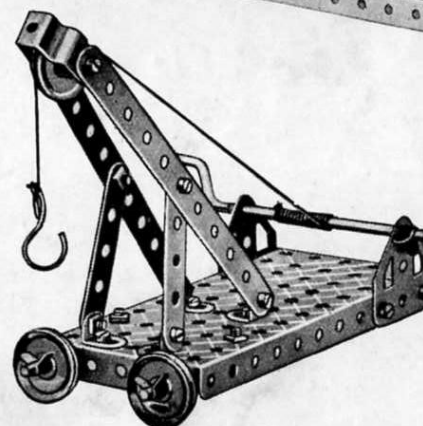
A36. Pen Rack



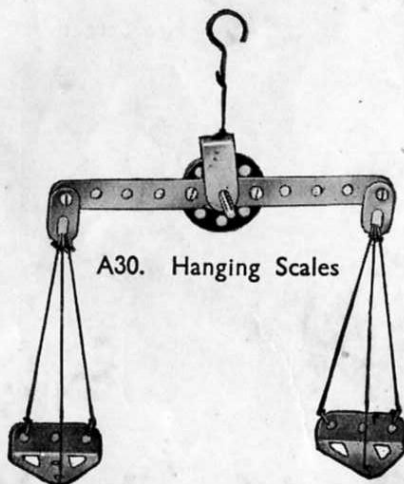
A38. Fork



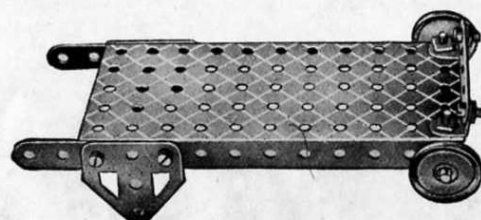
A37. Revolving Crane



A30. Hanging Scales

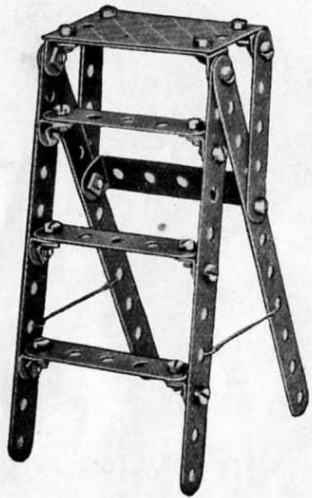


A33. Flat Truck

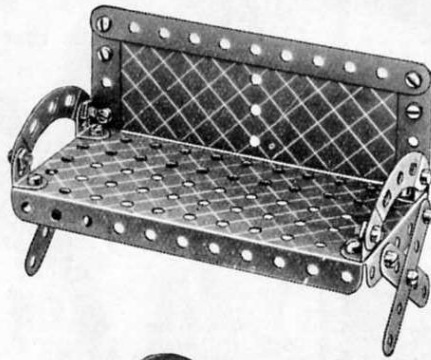




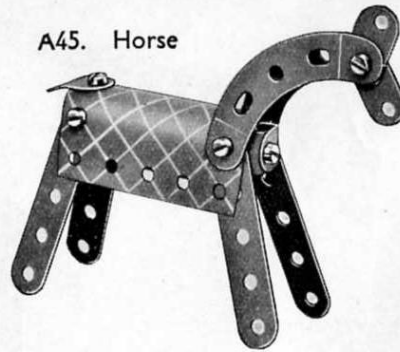
A39. Step Ladder



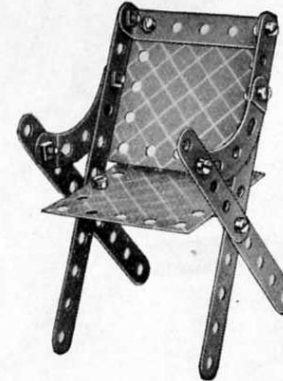
A42. Garden Seat



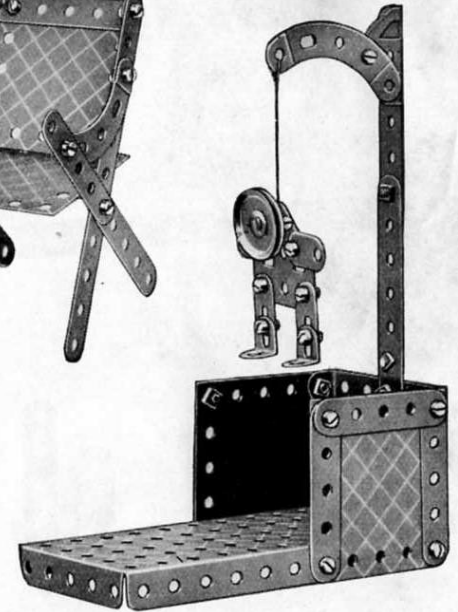
A45. Horse



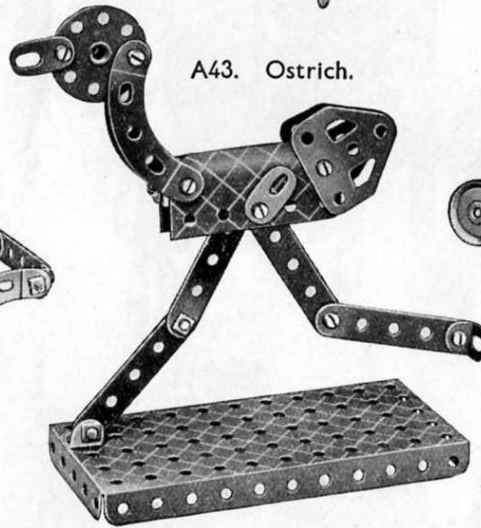
A48. Arm Chair



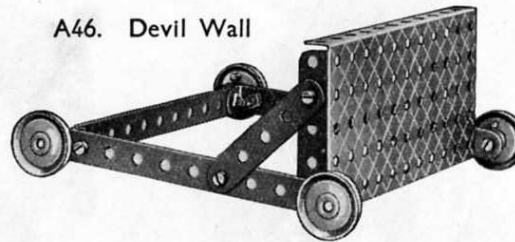
A49. Gallows



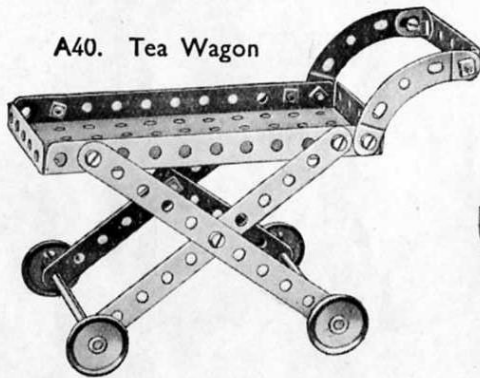
A43. Ostrich.



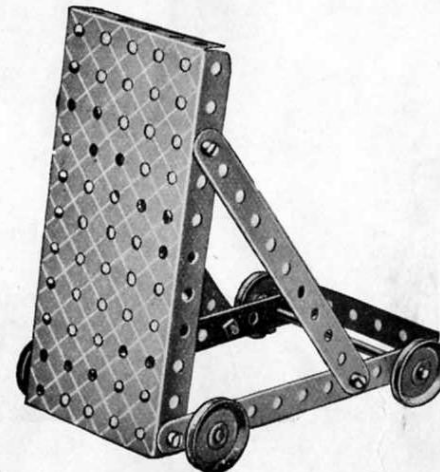
A46. Devil Wall



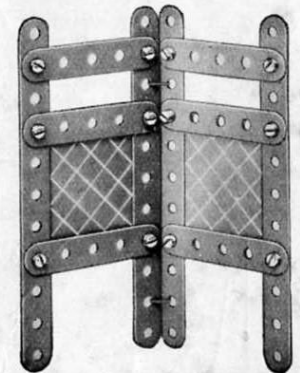
A40. Tea Wagon



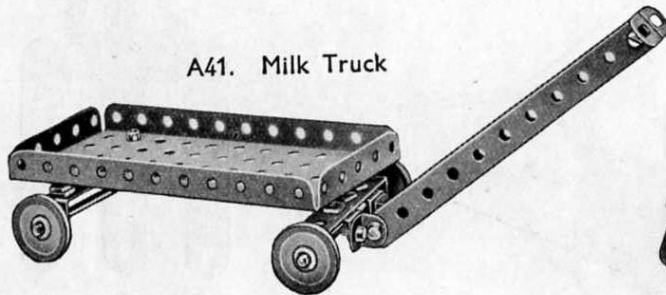
A47. Gravel Sifter



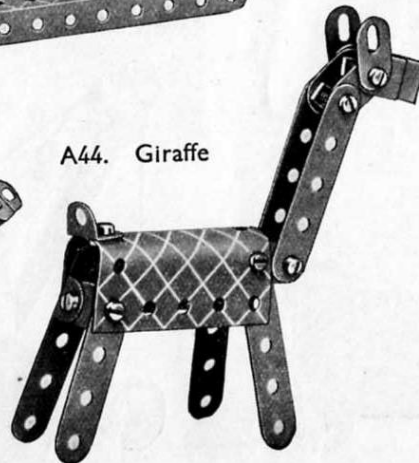
A50. Fire Screen



A41. Milk Truck

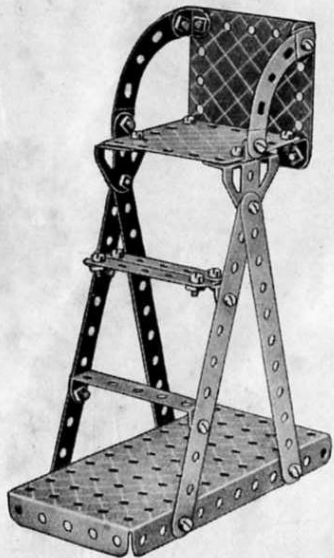


A44. Giraffe

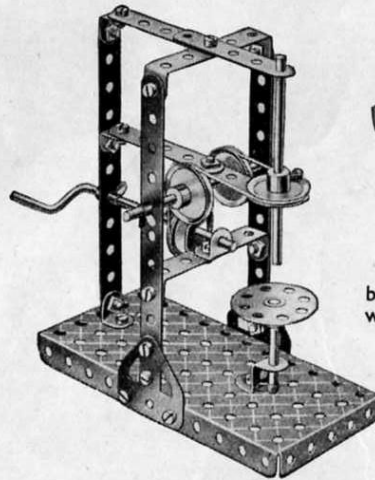




A51. Umpire's Seat

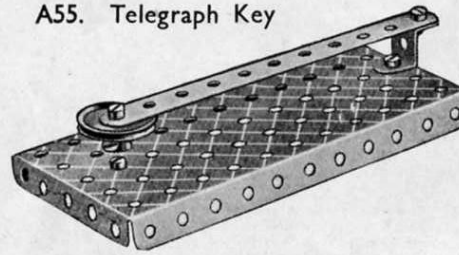


A52. Drilling Machine



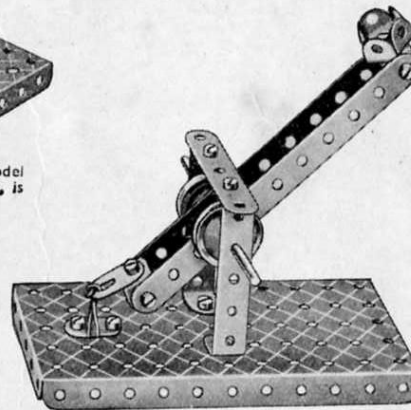
An alternative design of this model (A52M), fitted with the *Magic Motor*, is shown on page 9.

A55. Telegraph Key

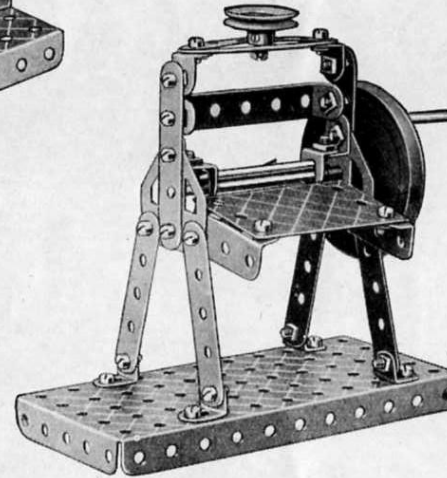


A56. Catapult

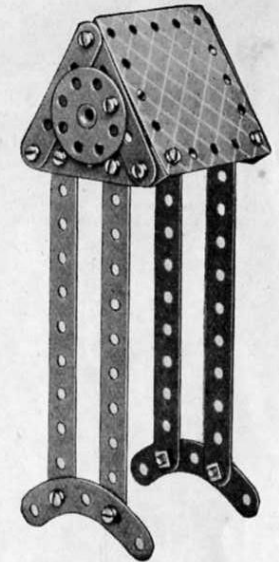
The pivoted arm is connected to the base by means of a short piece of elastic which is not provided in the Outfit.



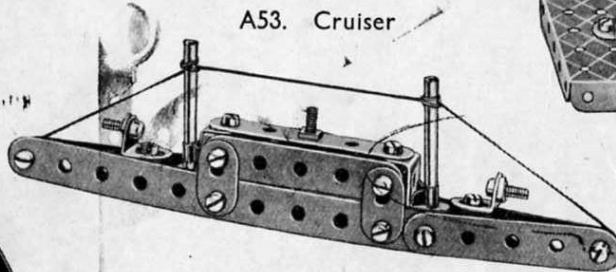
A58. Wringing Machine



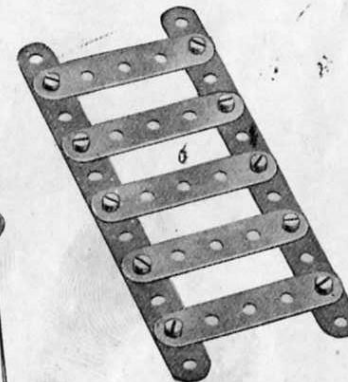
A60. Grandfather Clock



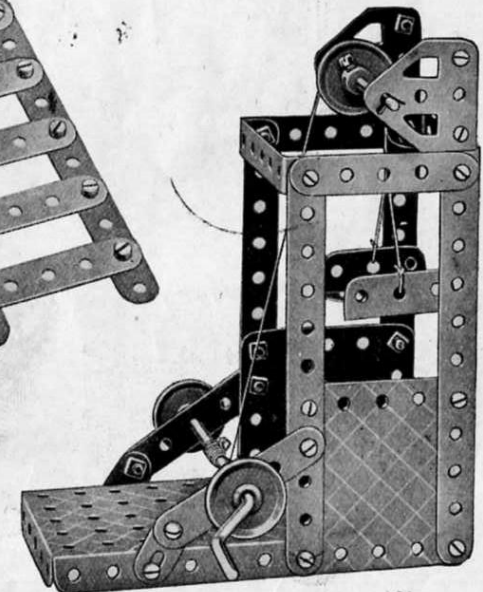
A53. Cruiser



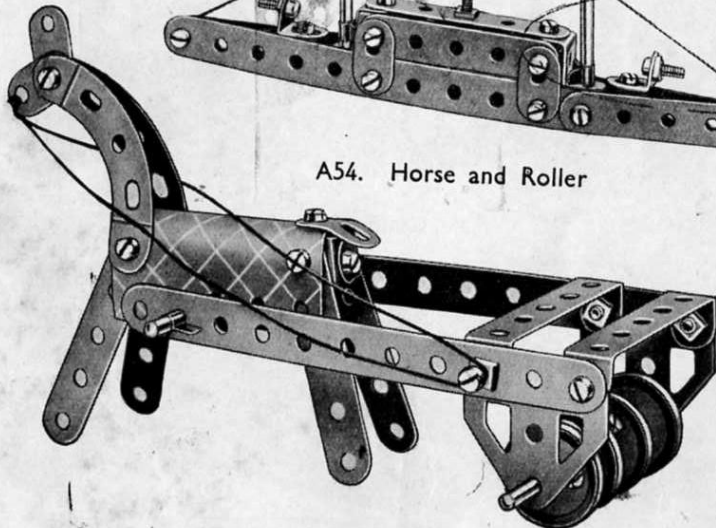
A59. Ladder



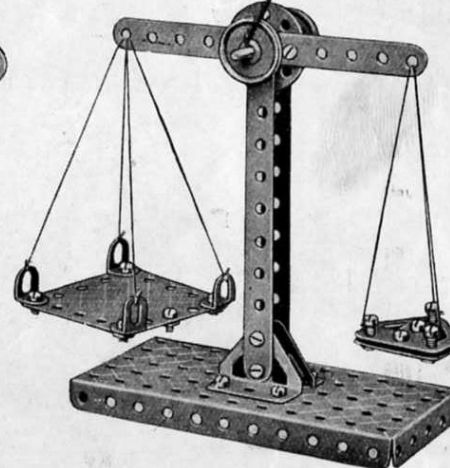
A61. Pit-head Gear



A54. Horse and Roller

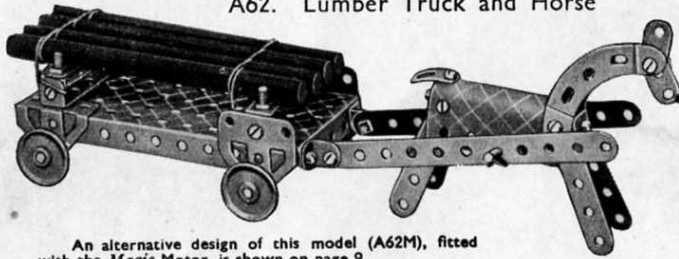


A57. Scales



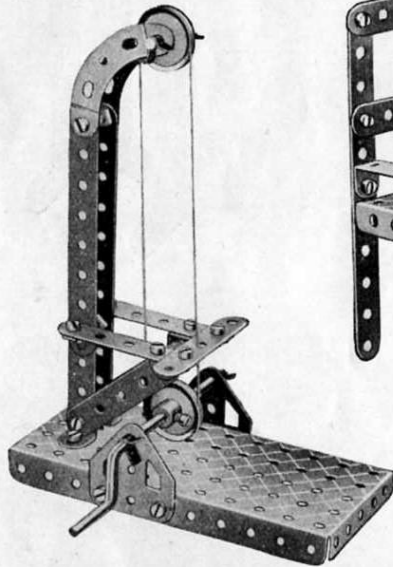


A62. Lumber Truck and Horse

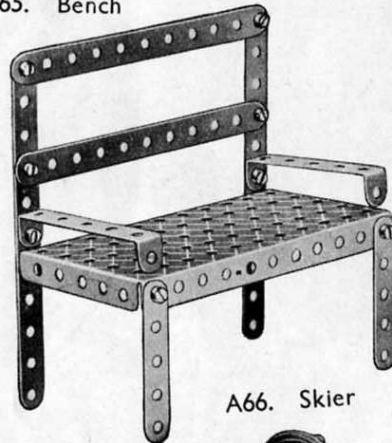


An alternative design of this model (A62M), fitted with the *Magic Motor*, is shown on page 9.

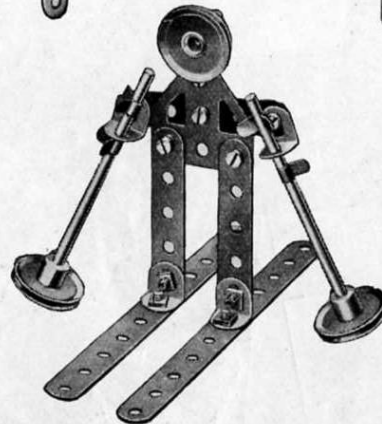
A63. Band Saw



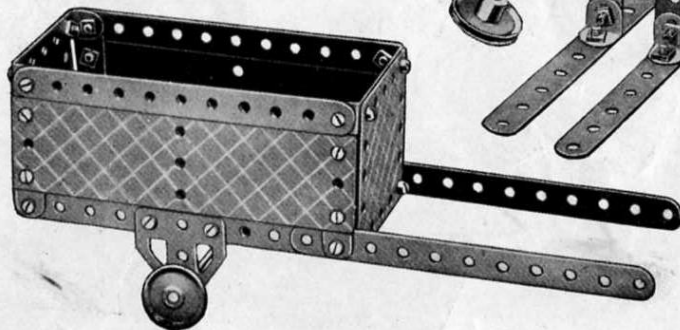
A65. Bench



A66. Skier



A64. Cart

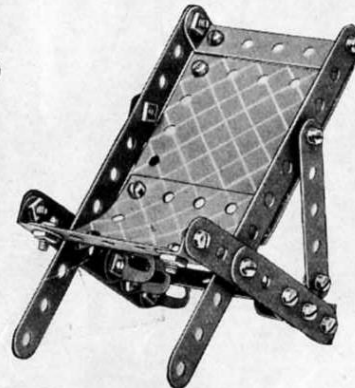


A67. Magic Plate

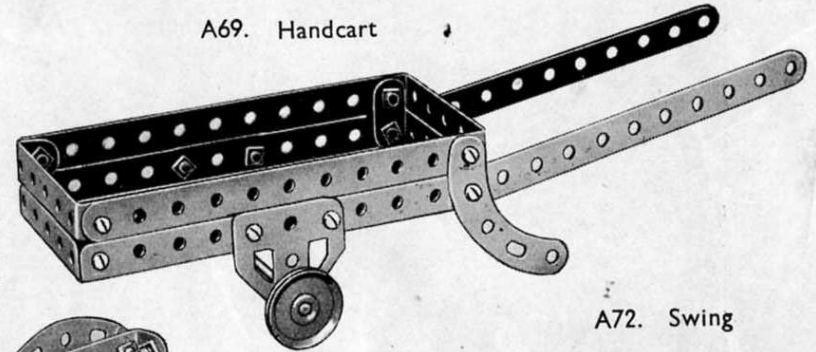
The cord is wound once round a 2" Axle Rod that is journalled in a  $\frac{1}{2}$ " Reversed Angle Bracket, which is bolted to the Plate. If the cord is held loosely the Plate will drop, but as soon as the cord is tightened the Plate becomes immovable.



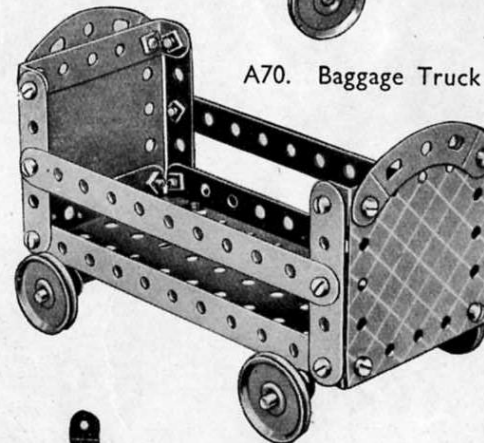
A68. Deck Chair



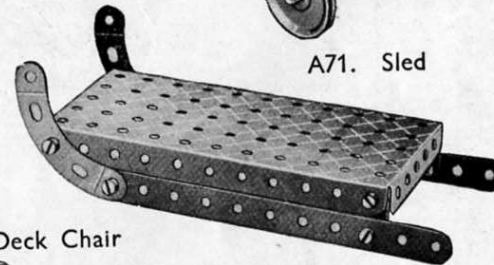
A69. Handcart



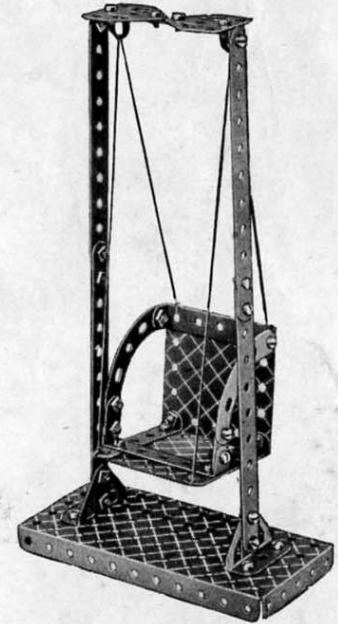
A70. Baggage Truck



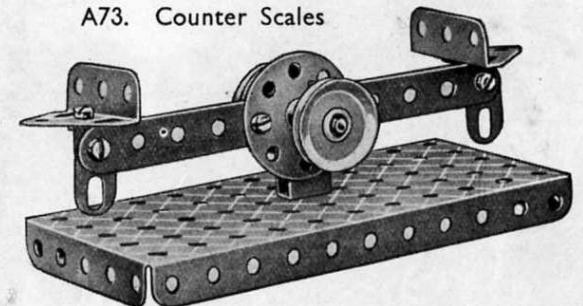
A71. Sled



A72. Swing



A73. Counter Scales

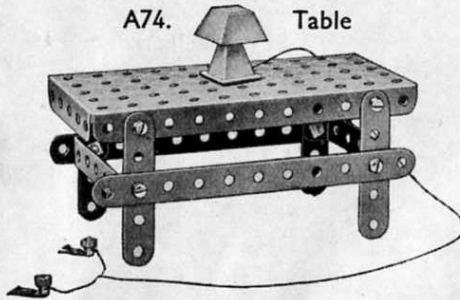




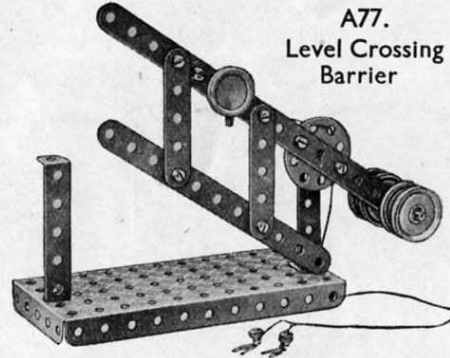
## These Models can be built with MECCANO Outfit A

7

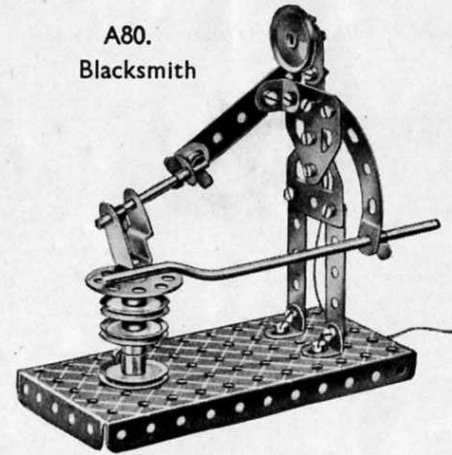
A74. Table



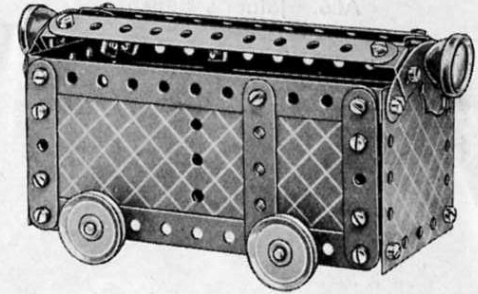
A77. Level Crossing Barrier



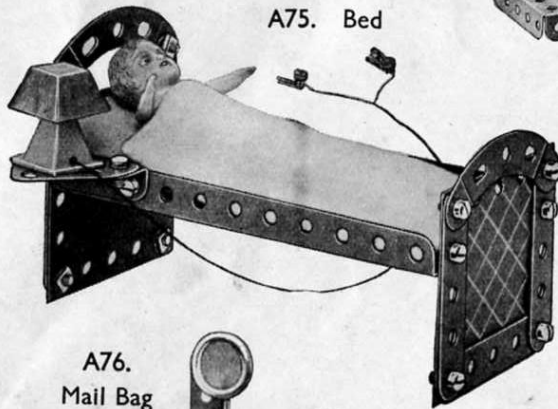
A80. Blacksmith



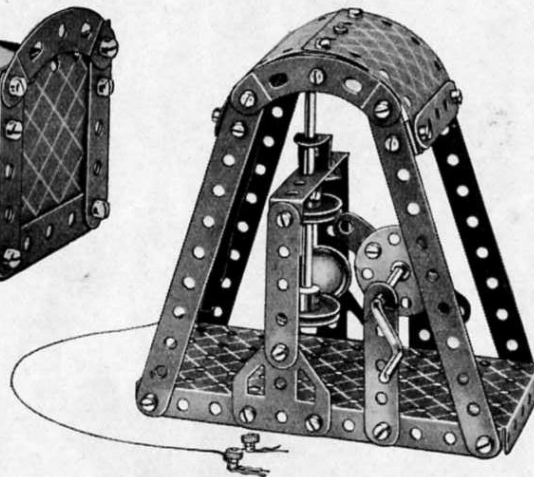
A83. Pullman Car



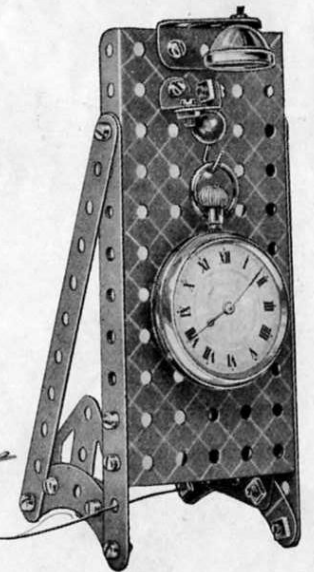
A75. Bed



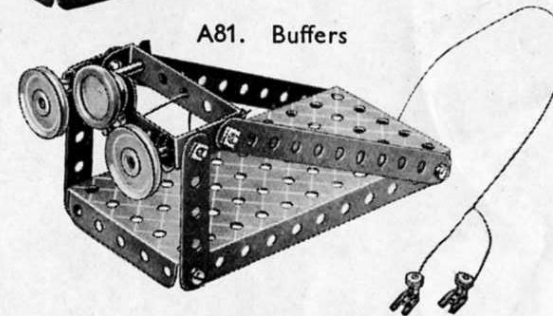
A78. Stamping Mill



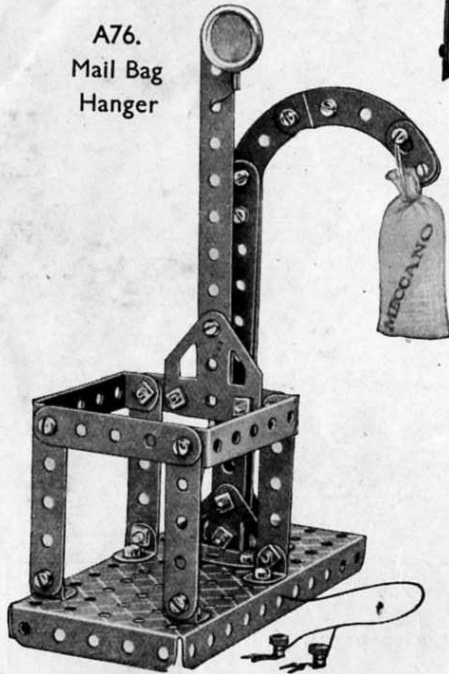
A84. Watch Stand



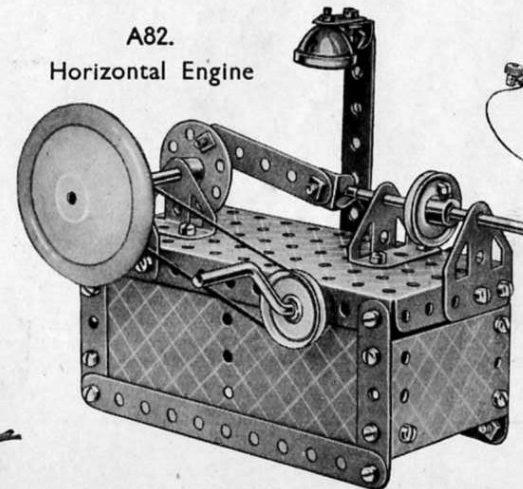
A81. Buffers



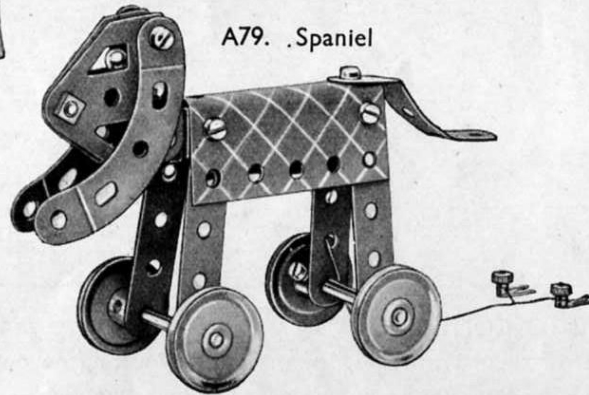
A76. Mail Bag Hanger



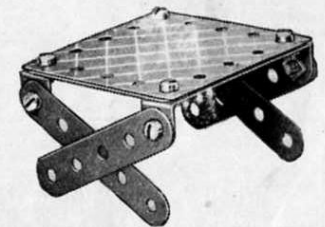
A82. Horizontal Engine



A79. Spaniel



A85. Coffee Table

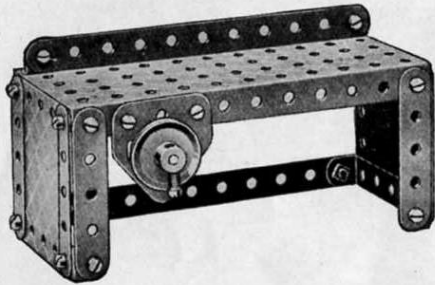


An alternative design of this model (A82M), fitted with the *Magic Motor*, is shown on page 9.

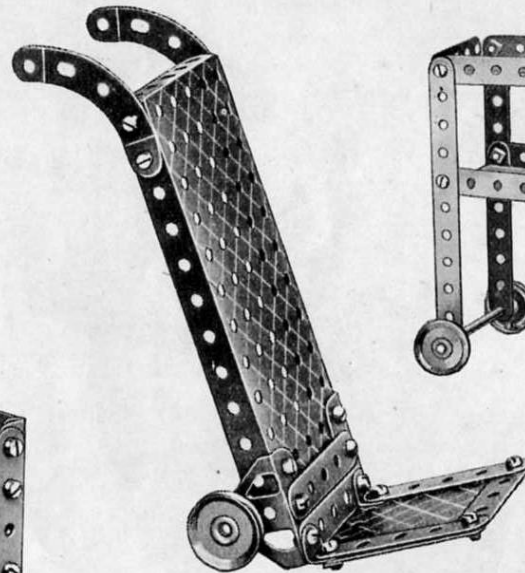
This page shows examples of the use of the Meccano Lighting Set, described on page 2 of cover



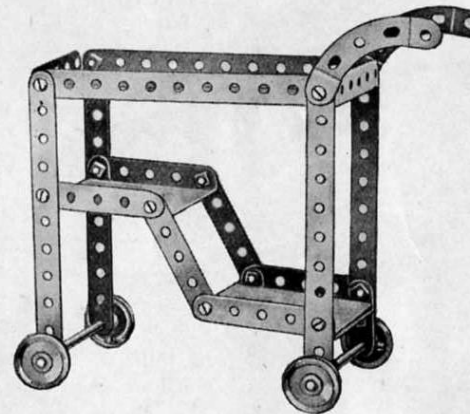
A86. Joiner's Bench



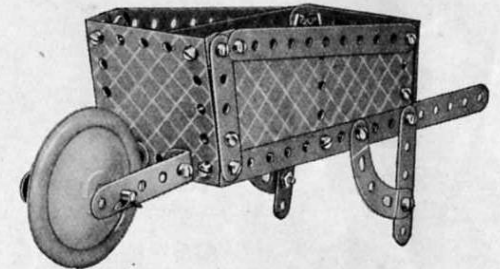
A89. Porter's Trolley



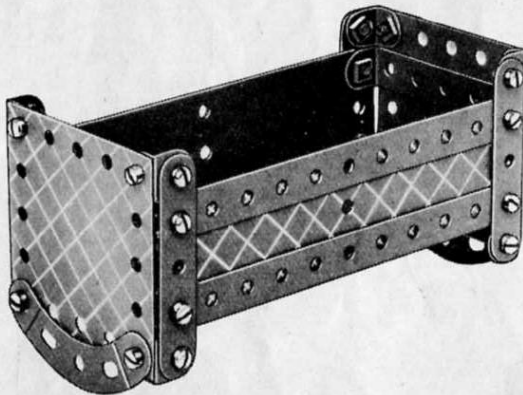
A91. Dinner Wagon



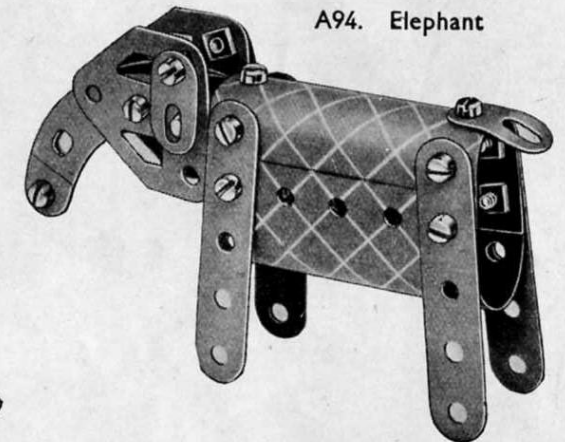
A93. Wheelbarrow



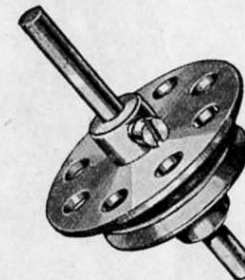
A87. Cot



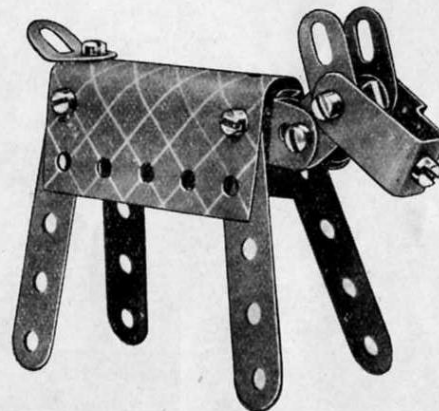
A94. Elephant



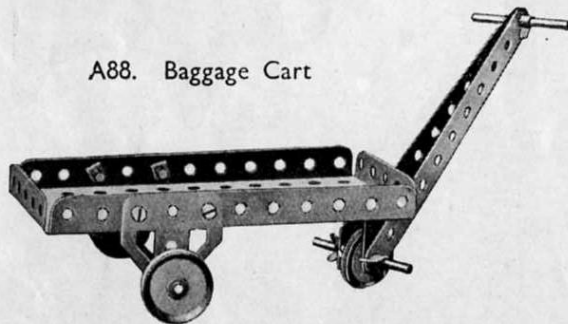
A92. Top



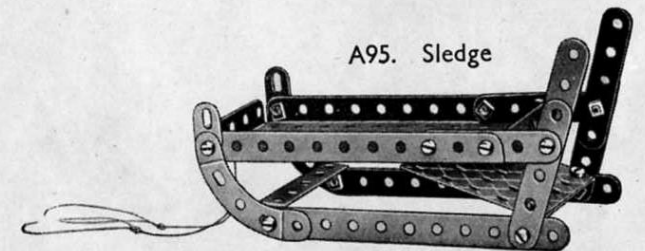
A90. Calf



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

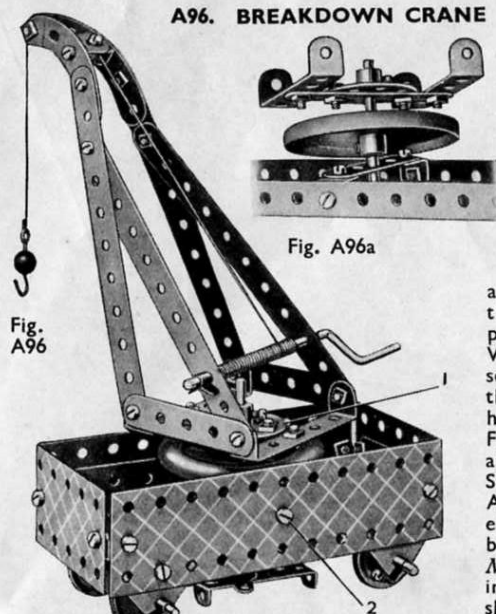


Fig. A96a

Fig. A96

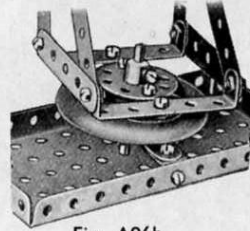


Fig. A96b

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. A96a, 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.

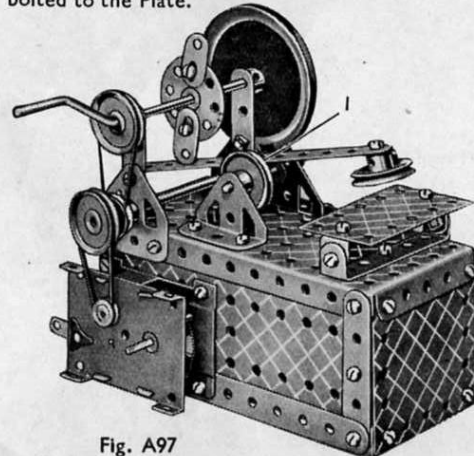


Fig. A97

### A52M. DRILLING MACHINE

The drill Rod is journalled 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.

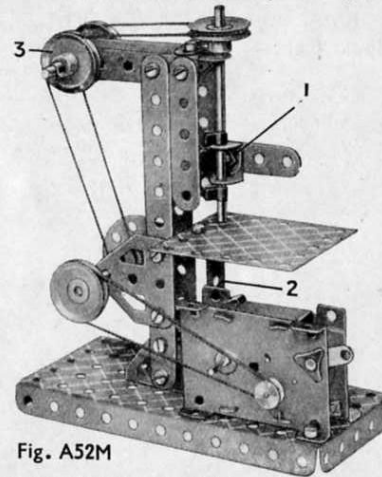


Fig. A52M

### A82M. HORIZONTAL ENGINE

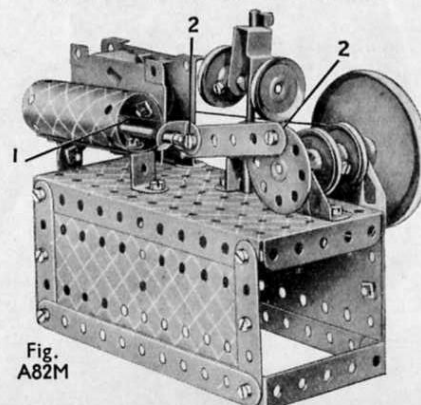


Fig. A82M

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 locknuttet to form pivots.

### A62M. LUMBER TRUCK AND HORSE

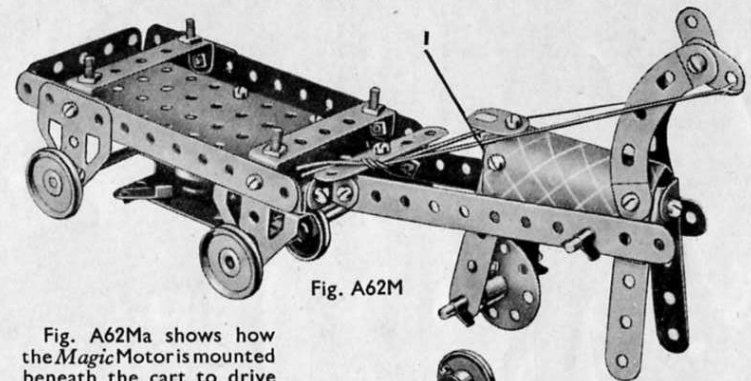


Fig. A62M

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.

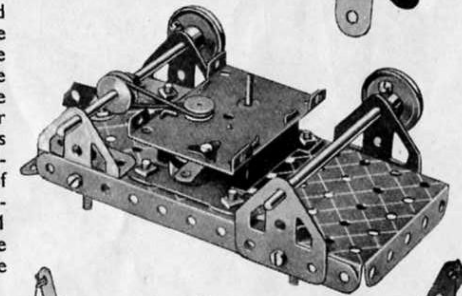


Fig. A62Ma

### 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.

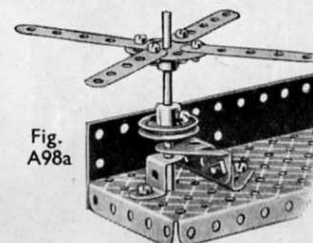


Fig. A98a

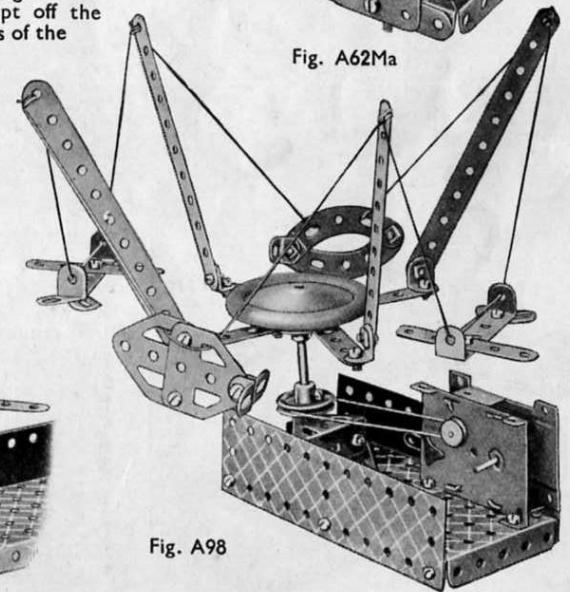
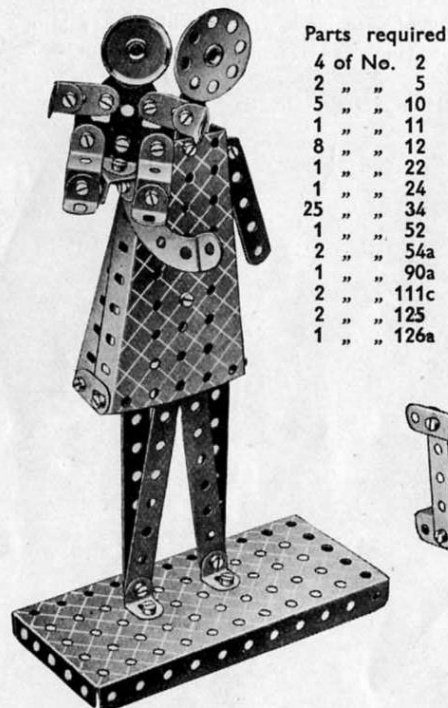


Fig. A98

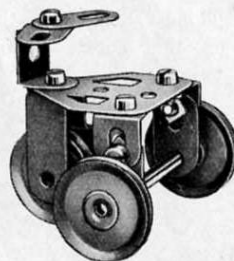


B1. Man and Boy



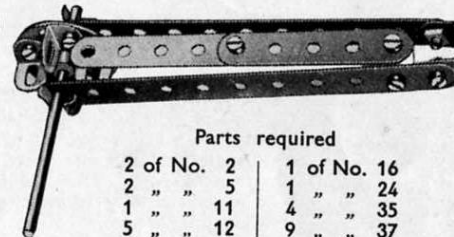
Parts required	
4 of No. 2	5
2 " " 5	10
1 " " 11	12
1 " " 12	22
1 " " 24	34
25 " " 52	54a
2 " " 90a	111c
2 " " 125	126a
1 " " 126a	

B4. Tricycle



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

B7. Rattle

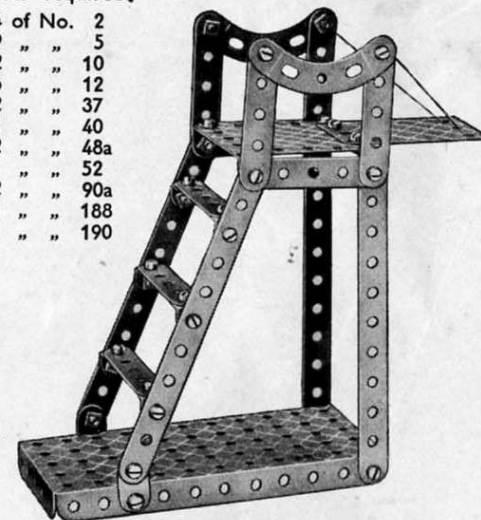


Parts required	
2 of No. 2	1 of No. 16
2 " " 5	1 " " 24
1 " " 11	4 " " 35
5 " " 12	9 " " 37

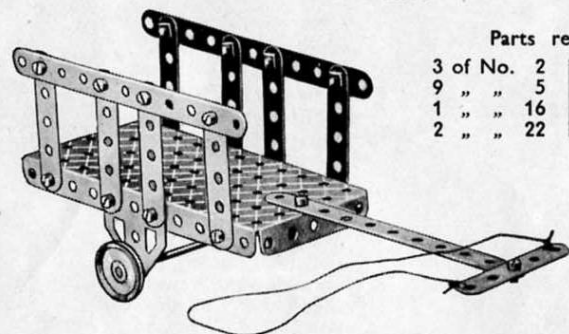
Parts required

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

B9. High Diving Board



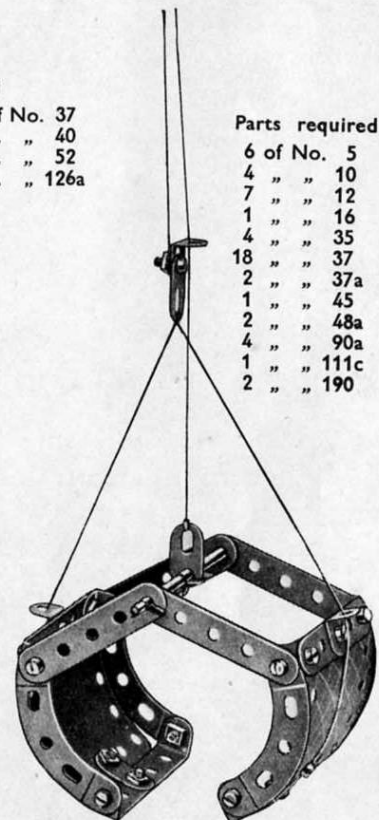
B5. Bullock Cart



Parts required

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

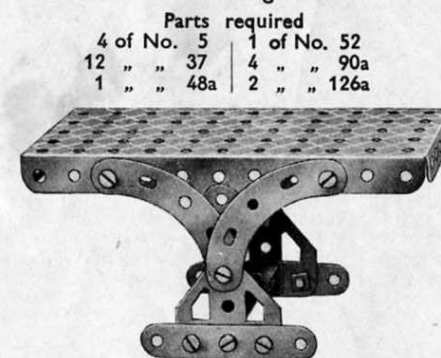
B8. Crane Grab



Parts required

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

B10. Drafting Table

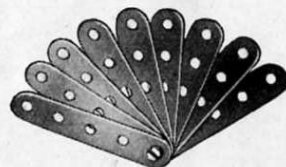


Parts required

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

B2. Fan

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



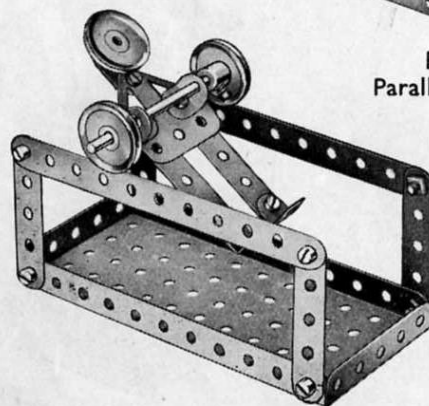
B6. Walking Man



Parts required

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

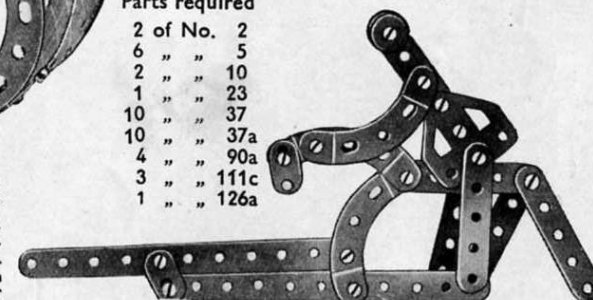
B3. Parallel Bars



Parts required

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

B11. Bucking Broncho



Parts required

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

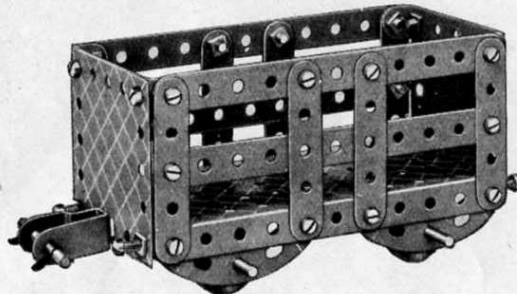
The  $\frac{1}{8}$ " Bolts used for connecting the  $\frac{5}{16}$ " Strips, the horse's legs, and the rider's legs and arms, are all locknutted. The lower  $\frac{5}{16}$ " Strip should be held rigidly and the upper one jerked forward; the horse will then throw its rider completely over its head.

B12. Catapult



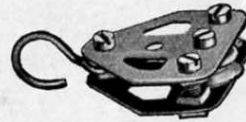
Parts required  
4 of No. 37  
4 " " 90a  
A short length  
of elastic

B15. Cattle Truck



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

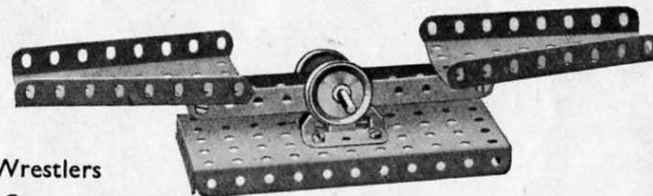
B18. Single Sheave Pulley Block



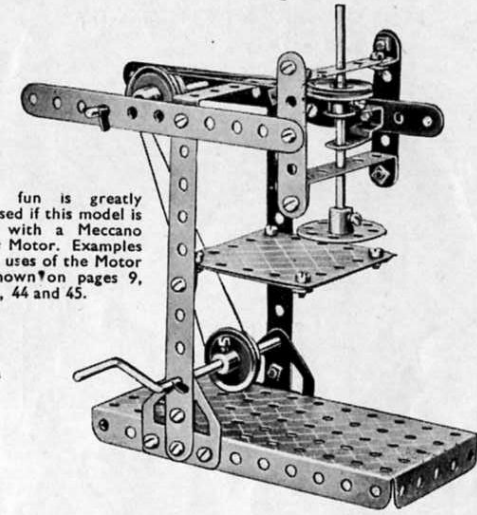
Parts required  
1 of No. 23  
11 " " 37a  
1 " " 57c  
4 " " 111c  
2 " " 126a

B19. Scales

Parts required		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	



B21. Drilling Machine

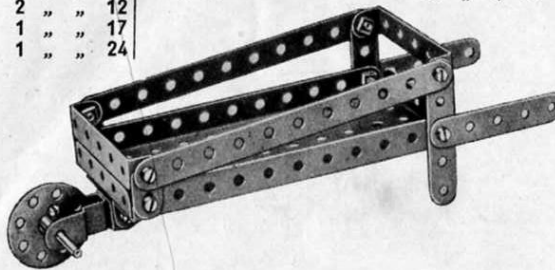


The fun is greatly increased if this model is fitted with a Meccano Magic Motor. Examples of the uses of the Motor are shown on pages 9, 24, 25, 44 and 45.

B13. Coster's Barrow

Parts required

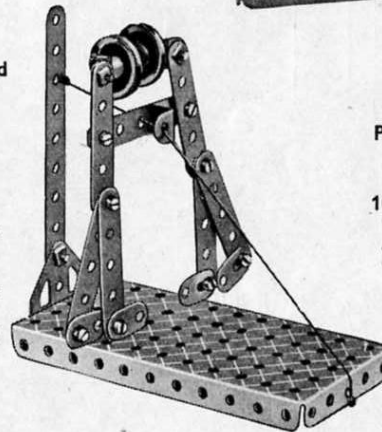
2 of No. 2	13 of No. 37
4 " " 5	1 " " 45
2 " " 10	2 " " 48a
1 " " 11	1 " " 52
2 " " 12	
1 " " 17	
1 " " 24	



B16. Wrestlers

Parts required

1 of No. 2
7 " " 5
4 " " 10
2 " " 12
2 " " 22
3 " " 37
6 " " 37a
1 " " 40
1 " " 52
4 " " 111c
1 " " 125
1 " " 126a



B20. Card Table

Parts required

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



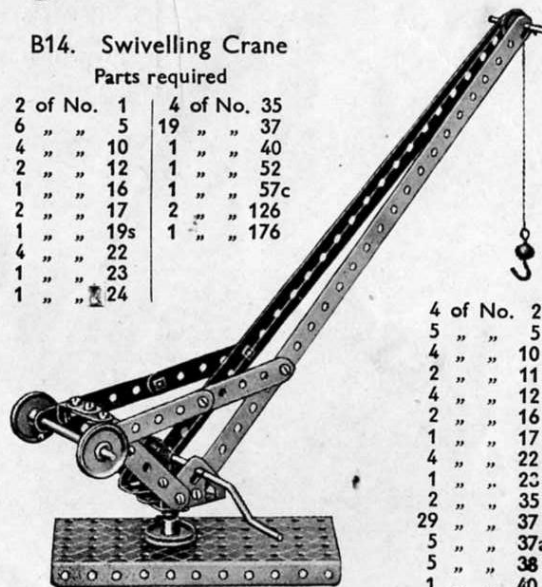
Parts required

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

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	

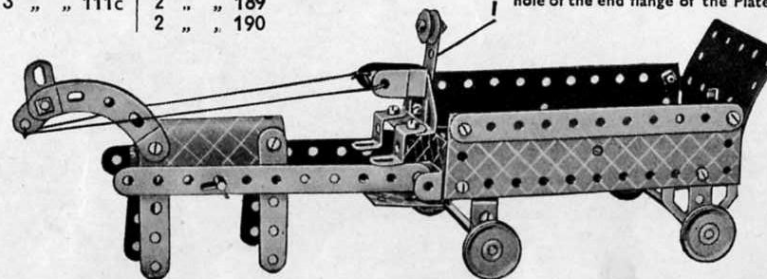


Parts required

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

B17. Hay Cart

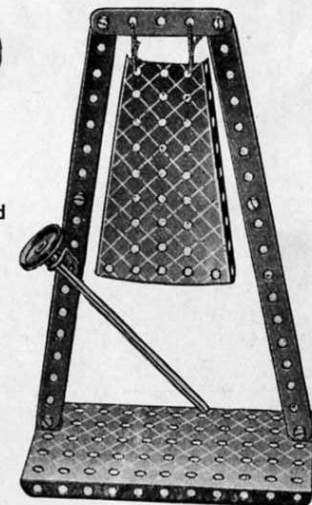
The fun is greatly increased if this model is fitted with a Meccano Magic Motor. The method of incorporating this motor is shown on page 9 (Model A62M). If the Motor is fitted, a Bush Wheel should be mounted on a 2" Rod fitted between the hind legs of the horse. The 2 1/2" Strip 1 forming the driver's body is bolted to the centre hole of the end flange of the Plate.



Parts required

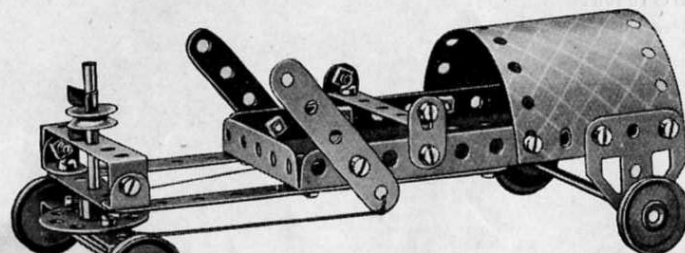
4 of No. 2
1 " " 5
3 " " 12
1 " " 16
1 " " 22
9 " " 37
1 " " 40
1 " " 52
1 " " 54a

B22. Gong





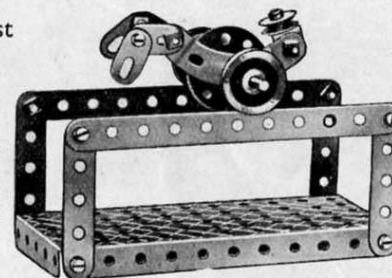
B23. Coaster



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



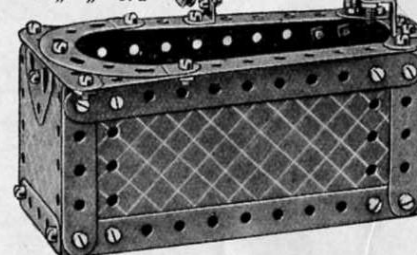
Parts required

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	

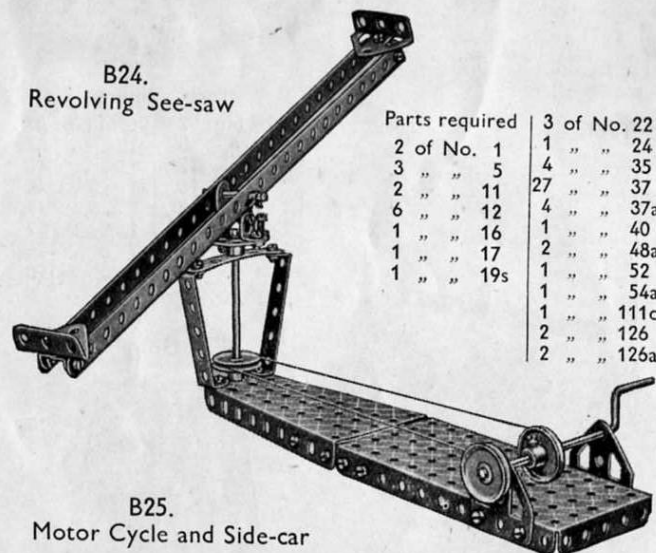
B29. Bath with Shower

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
36 " " 37	
4 " " 37a	



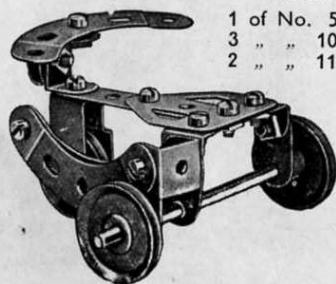
B24. Revolving See-saw



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
2 " " 111c
1 " " 126
2 " " 126a

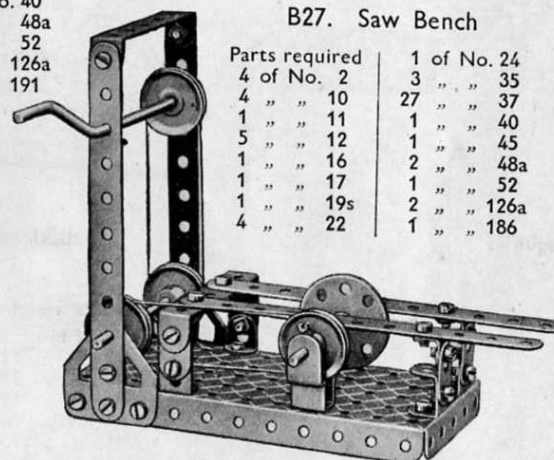
B25. Motor Cycle and Side-car



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



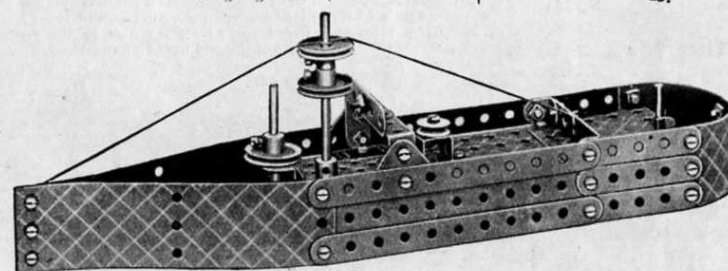
Parts required

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		

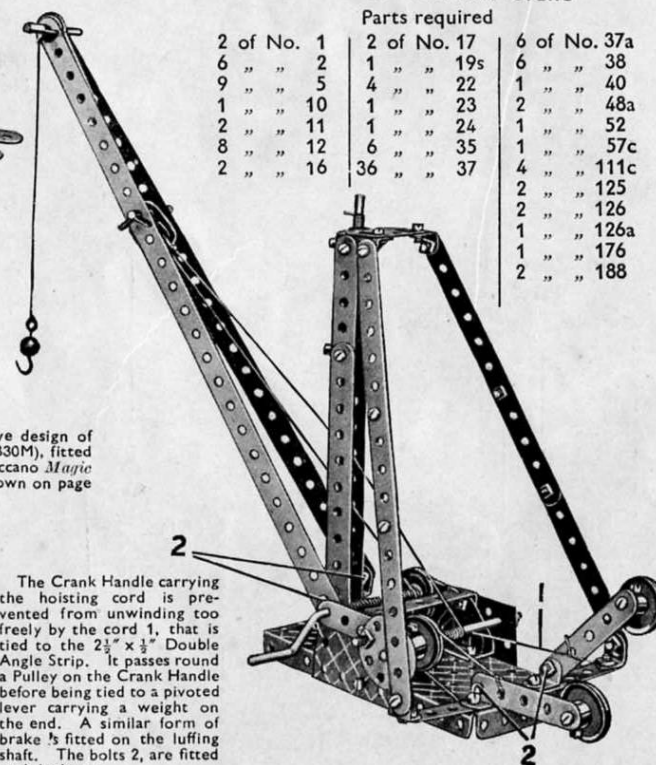


An alternative design of this model (B30M), fitted with the Meccano Magic Motor, is shown on page 25.

B30. Derrick Crane

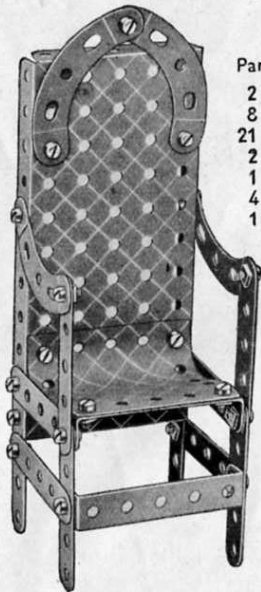
Parts required

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	1 " " 57c
2 " " 16	36 " " 37	4 " " 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 1/2" x 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.

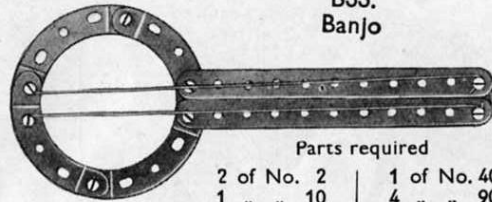
B31. Arm Chair



## Parts required

2	of No. 2
8	" " 5
21	" " 37
2	" " 48a
1	" " 52
4	" " 90a
1	" " 190

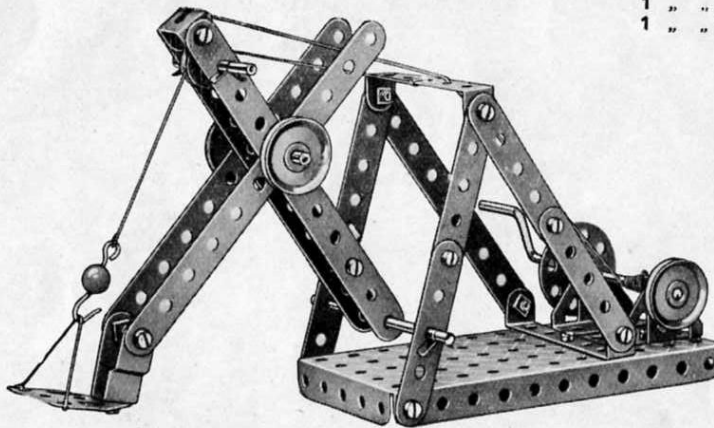
B33. Banjo



## Parts required

2	of No. 2	1	of No. 40
1	" " 10	4	" " 90a
8	" " 37		

B34. Mechanical Shovel

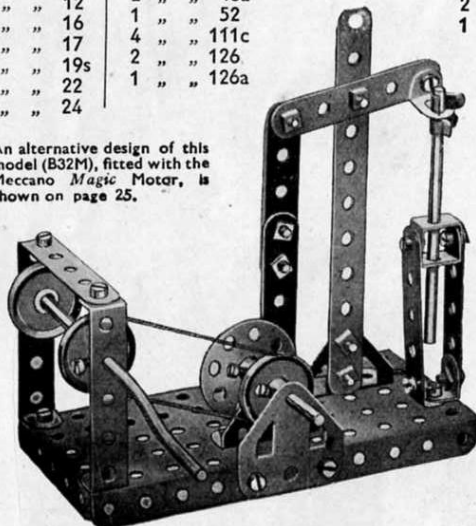


Parts required	2 of No. 17	5 of No. 35	1 of No. 52
4 of No. 2	1 " " 19s	20 " " 37	1 " " 57c
8 " " 5	3 " " 22	1 " " 40	2 " " 126
2 " " 11	1 " " 23	1 " " 45	1 " " 126a
1 " " 16	1 " " 24	2 " " 48a	1 " " 176

B32. Pump

Parts required	2 of No. 35
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	

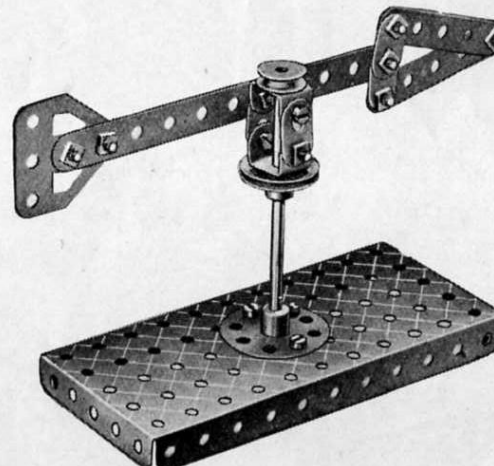
An alternative design of this model (B32M), fitted with the Meccano Magic Motor, is shown on page 25.



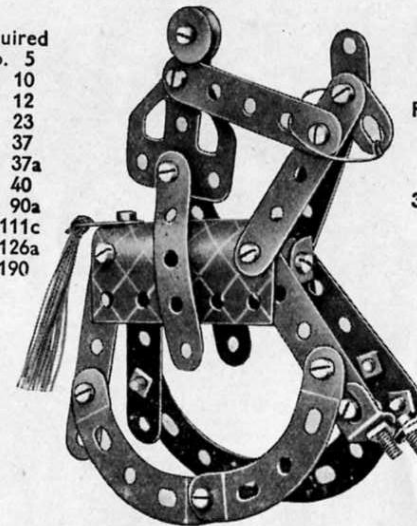
B35. Weather Vane

## Parts required

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



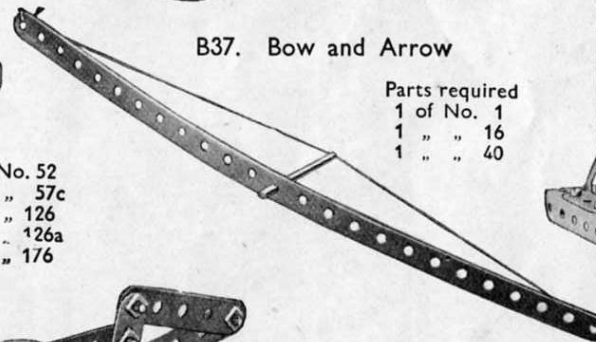
B36. Rocking Horse



## Parts required

9	of No. 5
4	" " 10
6	" " 12
1	" " 23
17	" " 37
8	" " 37a
1	" " 40
4	" " 90a
5	" " 111c
1	" " 126a
1	" " 190

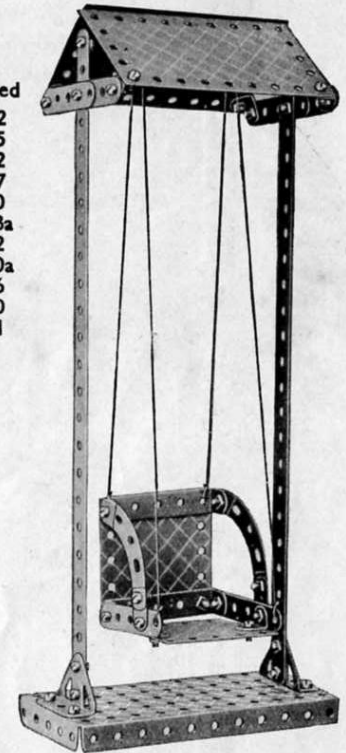
B37. Bow and Arrow



## Parts required

1	of No. 1
1	" " 16
1	" " 40

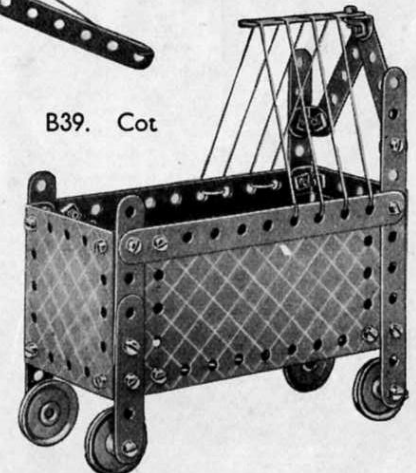
B38. Swing



## Parts required

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

B39. Cot

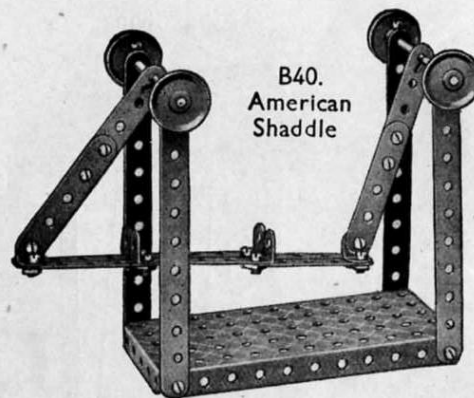


## Parts required

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



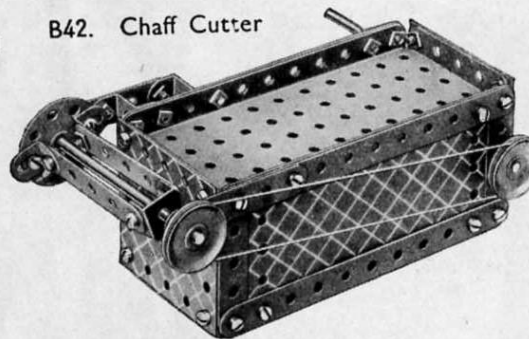
These Models can be built with MECCANO Outfit B (or Outfits A and Aa)



B40.  
American  
Shackle

Parts required

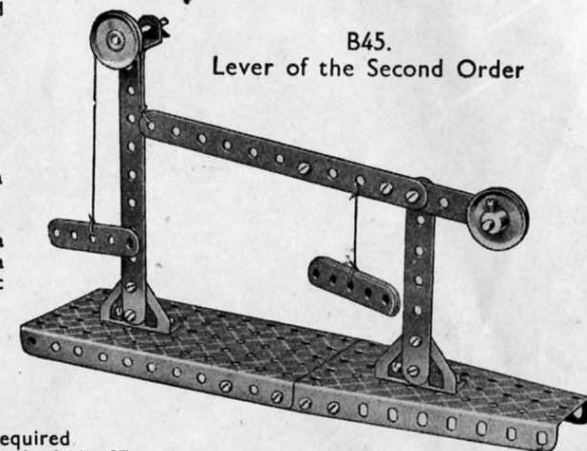
4 of No. 2
8 " " 5
1 " " 11
6 " " 12
1 " " 16
1 " " 19s
2 " " 22
1 " " 24
2 " " 35
33 " " 37
1 " " 40
1 " " 52
2 " " 125
2 " " 190
2 " " 191



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



B45.  
Lever of the Second Order

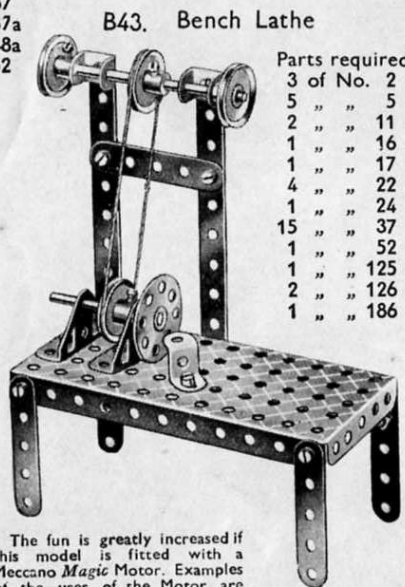
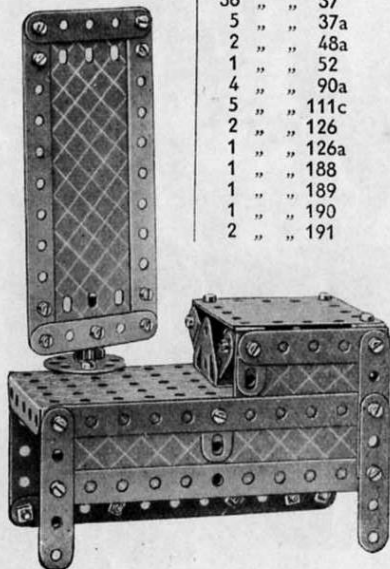
Parts required

4 of No. 2	2 of No. 12	18 of No. 37
9 " " 5	2 " " 16	2 " " 37a
2 " " 10	4 " " 22	2 " " 48a
	4 " " 35	1 " " 52

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



B43. Bench Lathe

Parts required

3 of No. 2
5 " " 5
2 " " 11
1 " " 16
2 " " 17
1 " " 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, 25, 44 and 45.

B44. Motor Boat

Parts required

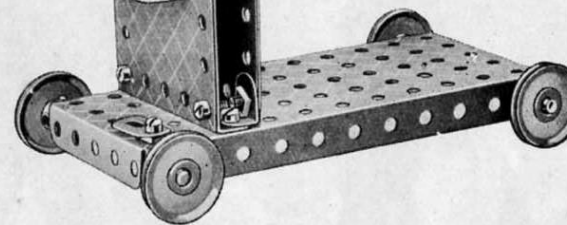
2 of No. 2	1 of No. 23
2 " " 5	7 " " 37
3 " " 10	1 " " 37a
1 " " 11	1 " " 111c



B46. Electric Trolley

Parts required

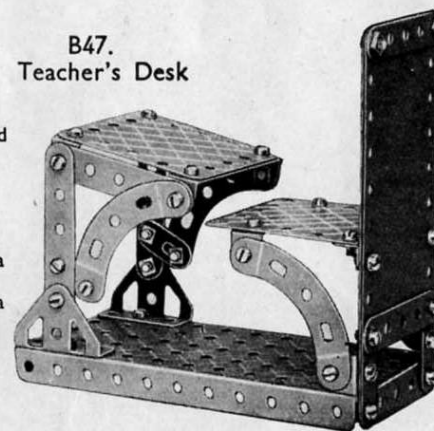
3 of No. 5	4 of No. 37a
2 " " 10	2 " " 48a
1 " " 11	1 " " 52
4 " " 12	1 " " 111c
2 " " 16	1 " " 126
4 " " 22	2 " " 190
16 " " 37	



B47.  
Teacher's Desk

Parts required

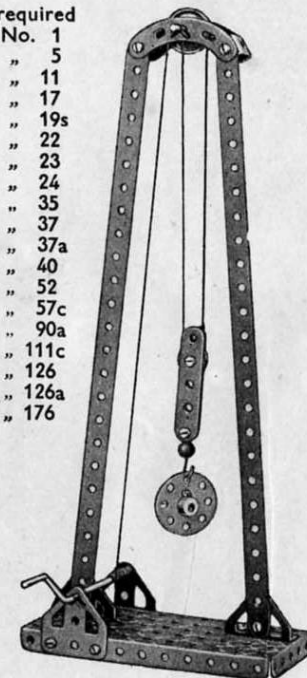
2 of No. 2
9 " " 5
2 " " 10
6 " " 12
34 " " 37
2 " " 48a
1 " " 52
4 " " 90a
2 " " 126
2 " " 190
1 " " 191



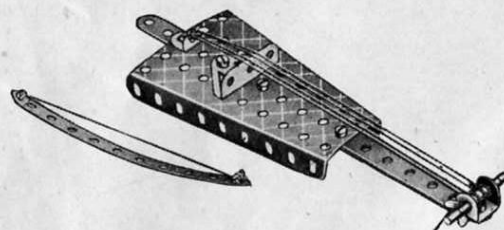
B48. Pulley Block

Parts required

2 of No. 1
2 " " 5
2 " " 11
2 " " 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

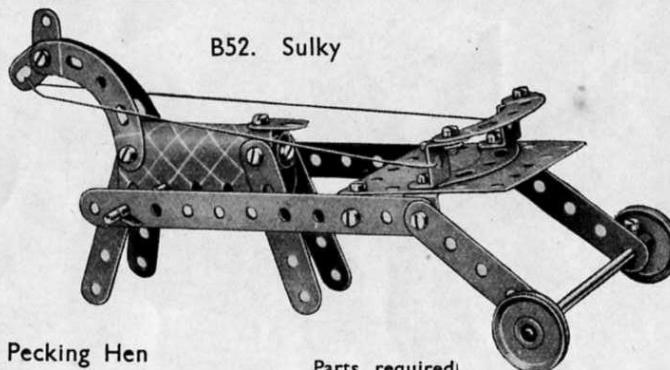


B49. Violin and Bow



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

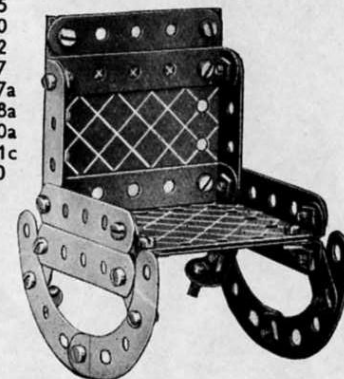
B52. Sulky



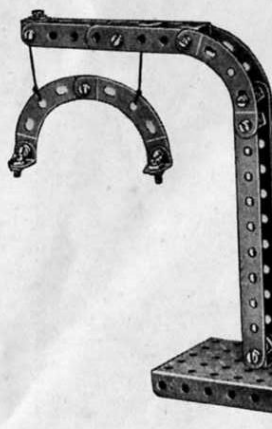
Parts required	
2 of No. 2	2 of No. 22
6 " " 5	4 " " 35
3 " " 10	17 " " 37
6 " " 12	1 " " 37a
2 " " 16	1 " " 40
	1 of No. 48a
	4 " " 90a
	1 " " 111c
	2 " " 125
	2 " " 190

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

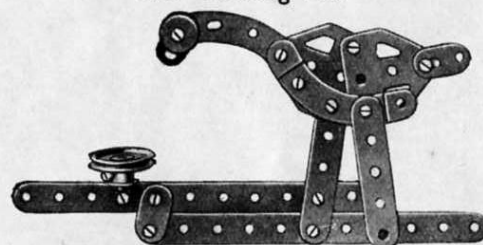


B50. Loading Gauge



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

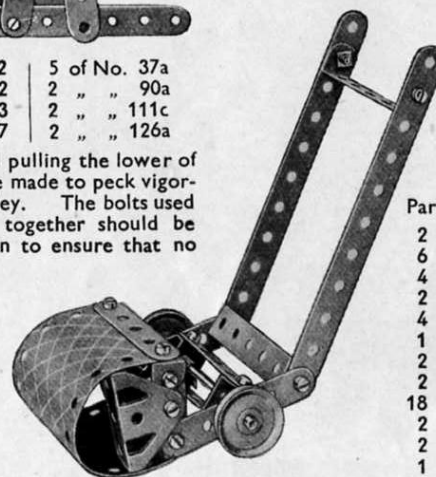
B53. Pecking Hen



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

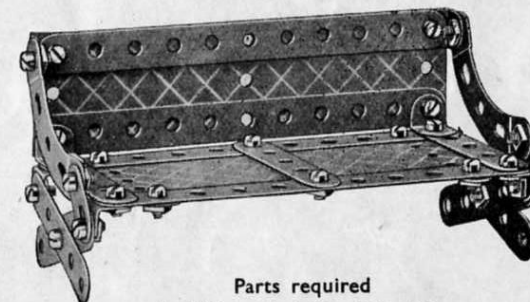
By alternately pushing and pulling the lower of the  $5\frac{1}{2}$ " Strips, the hen can be made to peck vigorously at the "bowl," a 1" Pulley. The bolts used for securing the  $5\frac{1}{2}$ " Strips together should be locknitted, care being taken to ensure that no "side play" is permitted.

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	

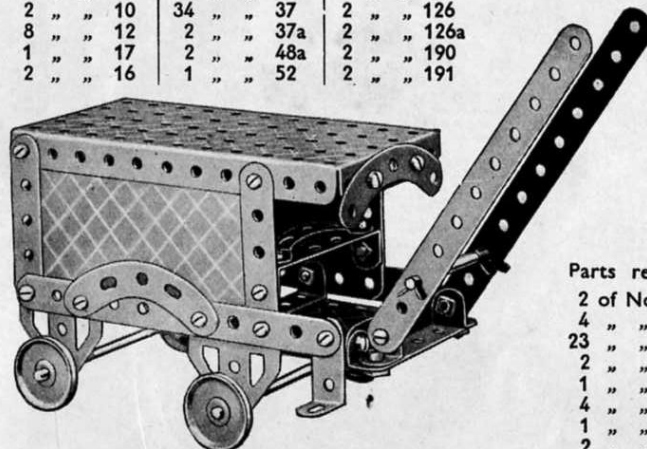
B57. Station Seat



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

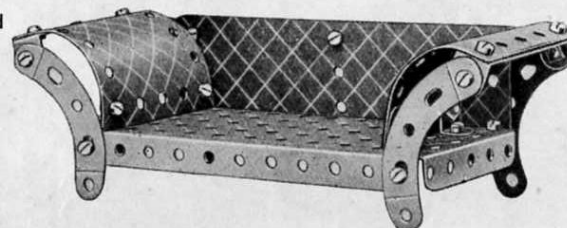
B51. Bread Van

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



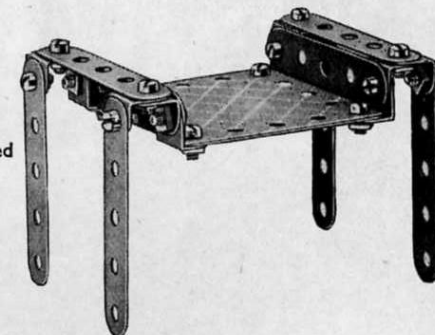
B55. Couch

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	

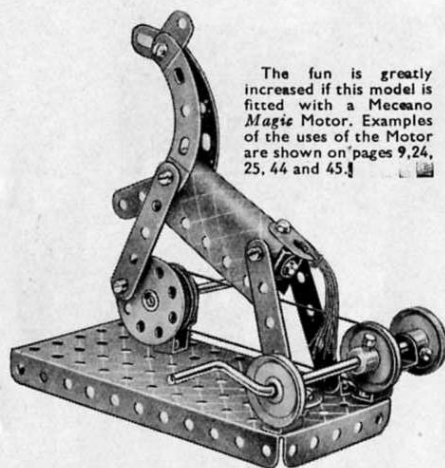
B58. Stool for Dressing Table



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

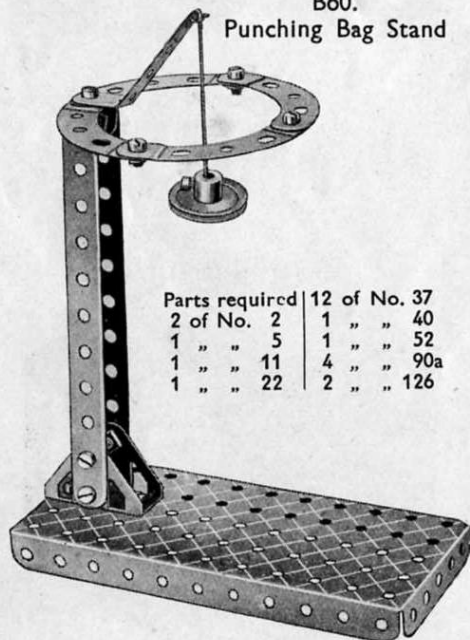


B59. Prancing Horse



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

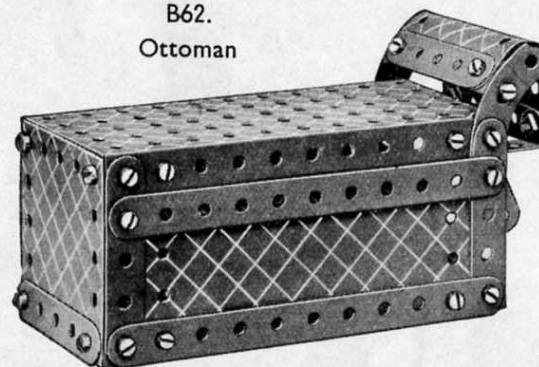


Parts required	12 of No. 37
2 of No. 2	1 " " 40
1 " " 5	1 " " 52
1 " " 11	4 " " 90a
1 " " 22	2 " " 126

Parts required

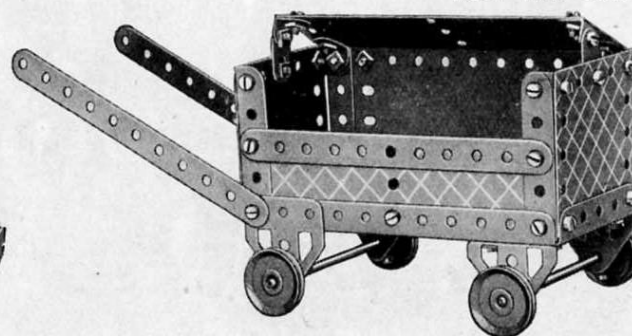
4 of No. 2	2 " " 24
8 " " 5	4 " " 37
4 " " 10	2 " " 37a
8 " " 12	2 " " 40
2 " " 16	1 " " 44
1 " " 17	1 " " 52
4 " " 22	2 " " 90a
1 " " 23	2 " " 111c
4 " " 35	2 " " 125
35 " " 37	2 " " 126
4 " " 37a	2 " " 126a
1 " " 40	1 " " 190
2 " " 48a	1 " " 191
1 " " 52	
2 " " 90a	
2 " " 111c	
2 " " 125	
2 " " 126	
2 " " 126a	
1 " " 190	
1 " " 191	

B62. Ottoman



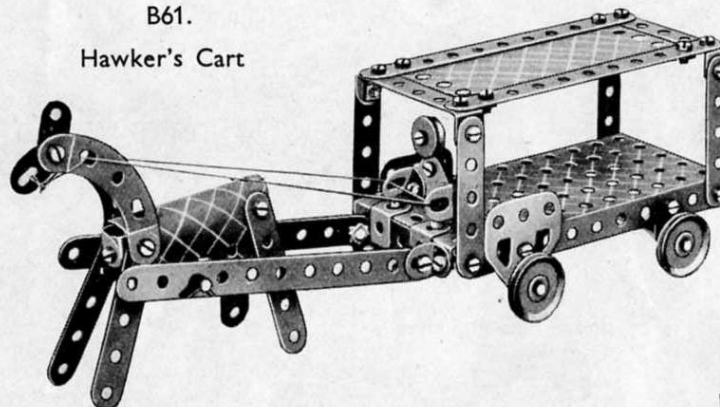
Parts required	1 of No. 52
4 of No. 2	3 " " 90a
7 " " 5	2 " " 190
2 " " 10	2 " " 191
2 " " 11	
4 " " 12	
34 " " 37	
1 " " 48a	
1 " " 52	
2 " " 90a	
2 " " 190	
2 " " 191	

B63. Ash Cart



Parts required	1 of No. 23
4 of No. 2	12 " " 37
4 " " 5	2 " " 37a
2 " " 10	1 " " 52
4 " " 12	2 " " 90a
2 " " 16	2 " " 111c
4 " " 22	
2 " " 37	
2 " " 37a	
2 " " 48a	
1 " " 52	
2 " " 111c	
2 " " 126	
2 " " 126a	
2 " " 189	
2 " " 190	
1 " " 191	

B61. Hawker's Cart

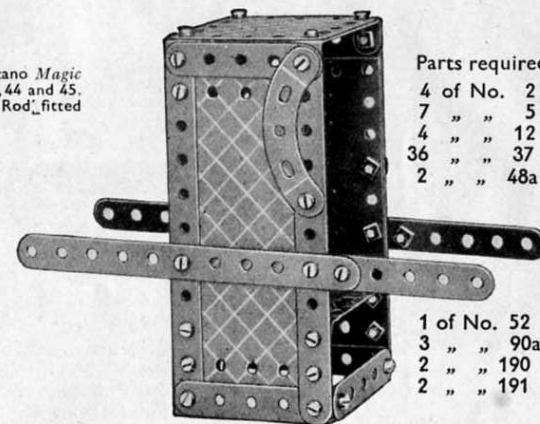


B64. Shepherd's Crook

Parts required	1 of No. 23
2 of No. 1	12 " " 37
7 " " 37	2 " " 37a
4 " " 90a	1 " " 52

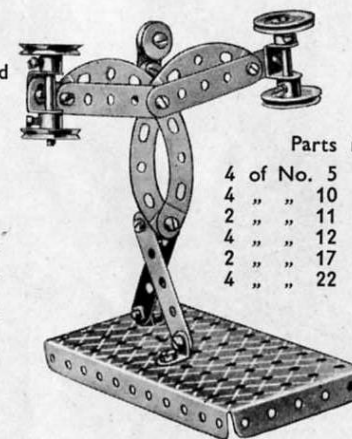


B65. Sedan Chair



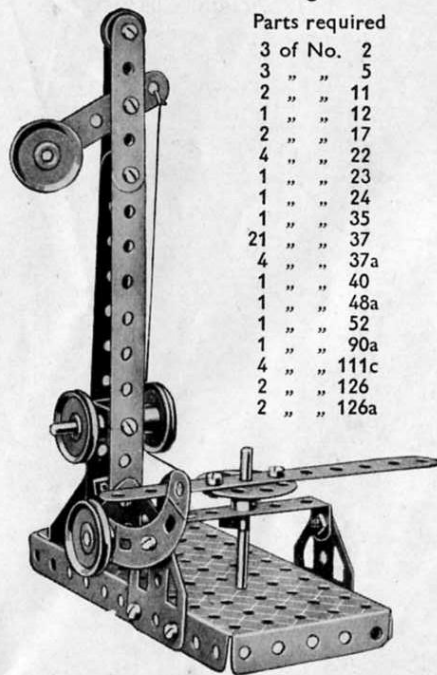
Parts required	1 of No. 52
4 of No. 2	3 " " 90a
7 " " 5	2 " " 190
4 " " 12	2 " " 191
36 " " 37	
2 " " 48a	

B66. Strong Man



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

B67. Automatic Signals

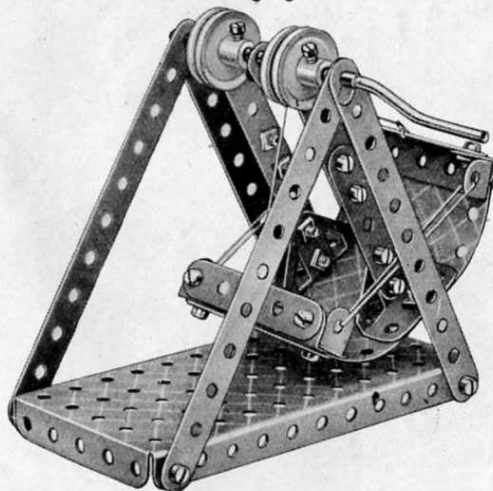


## Parts required

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 locknuted to the Flat Trunnion. When the horizontal 5 1/2" Strip is tripped by the locomotive the signal is raised to "danger" until the mechanism is re-set.

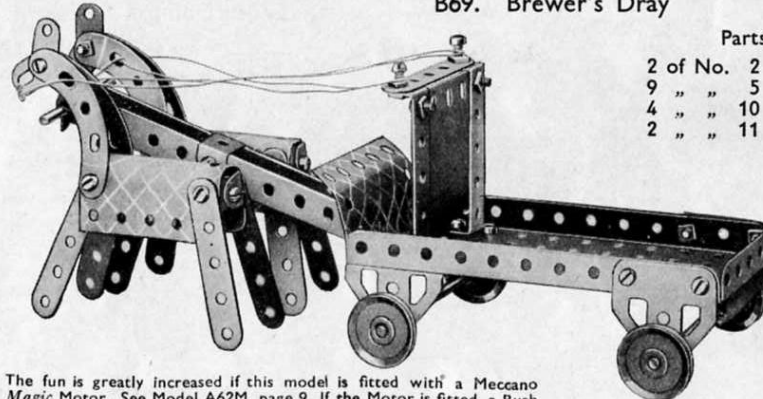
B68. Swinging Boat



## Parts required

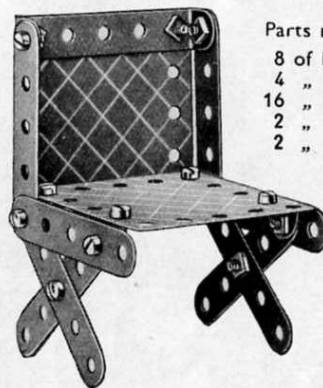
4 of No.	2
8 "	5
1 "	10
4 "	12
1 "	19s
4 "	22
6 "	35
22 "	37
4 "	37a
1 "	40
2 "	48a
1 "	52
2 "	126
1 "	191

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.

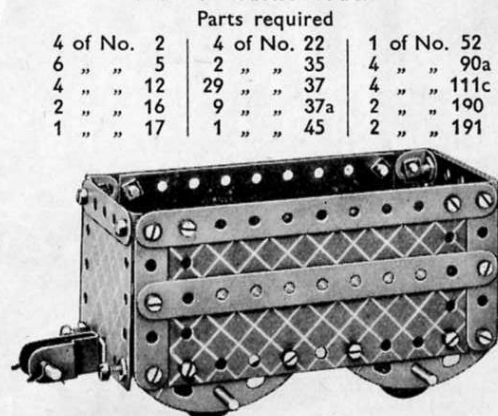
B70. Chair



## Parts required

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

B72. Cattle Truck



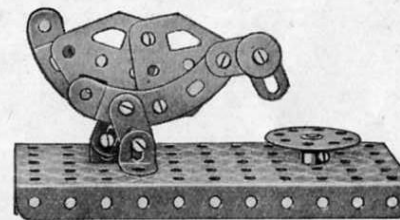
## Parts required

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

## 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

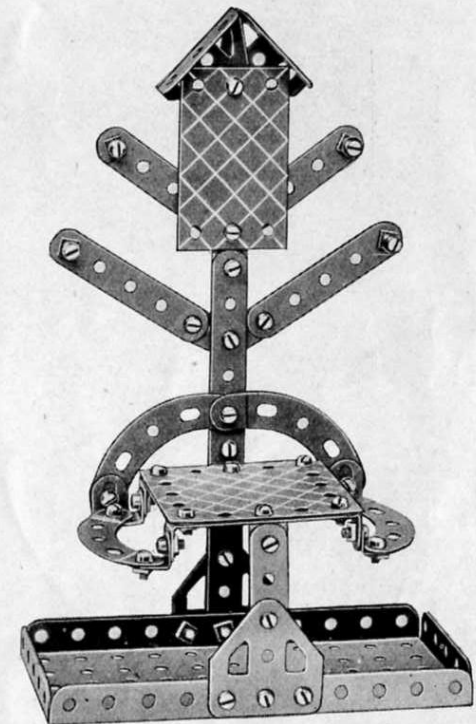
B71. Goose



## 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

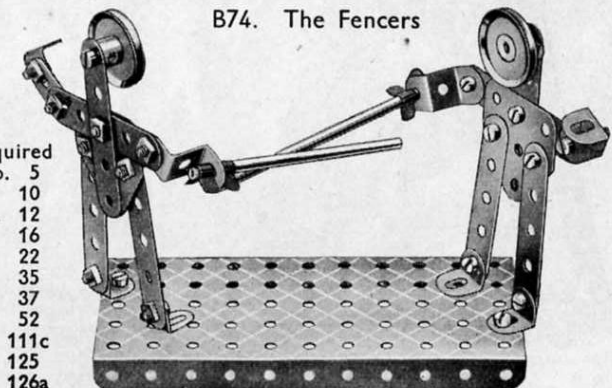
B73. Hat Rack



## 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

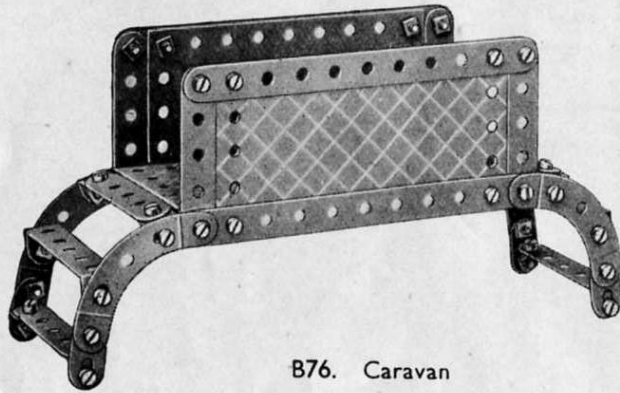


## Parts required

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

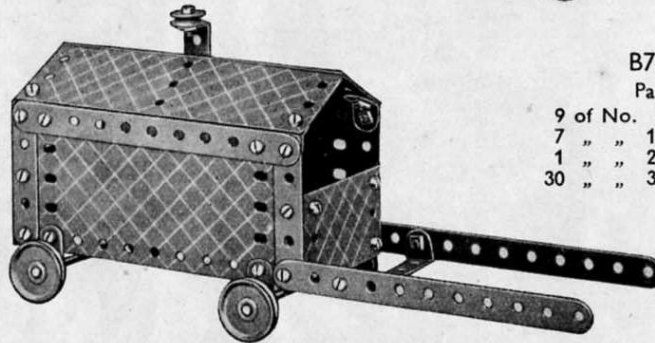


## Parts required

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

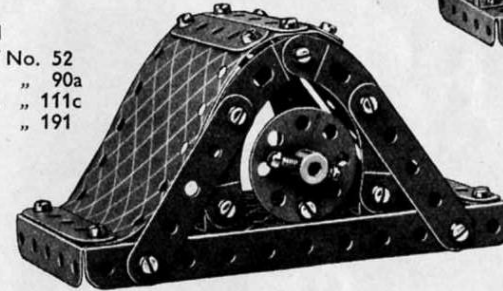
Parts required	
4 of No.	2
4 " "	5
4 " "	10
8 " "	12
2 " "	16
4 " "	22
1 " "	23
35 " "	37
5 of No.	37a
1 " "	48a
1 " "	52
1 " "	111c
1 " "	125
2 " "	188
2 " "	189
2 " "	191



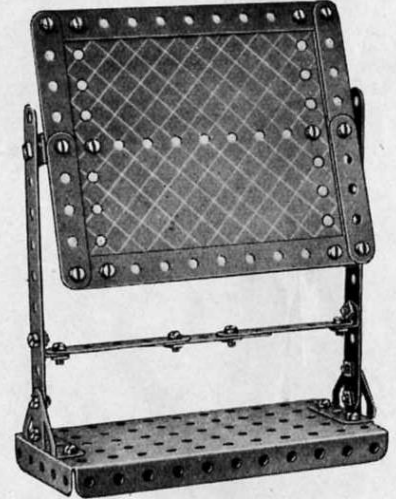
B79. Clock

## Parts required

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



B81. School Blackboard



## Parts required

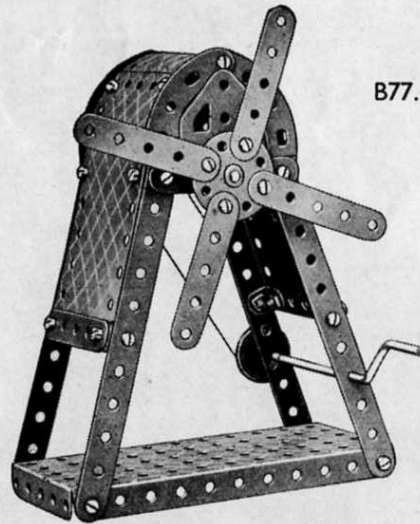
8 of No.	5
2 " "	11
6 " "	12
2 " "	16
4 " "	22
29 " "	37
4 " "	37a
1 " "	52
4 " "	90a
1 " "	111c
2 " "	126
2 " "	126a
2 " "	191

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)

## Parts required

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

B77. Windmill

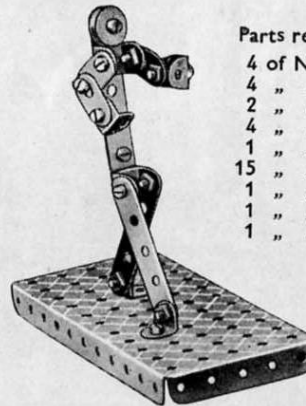


## Parts required

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



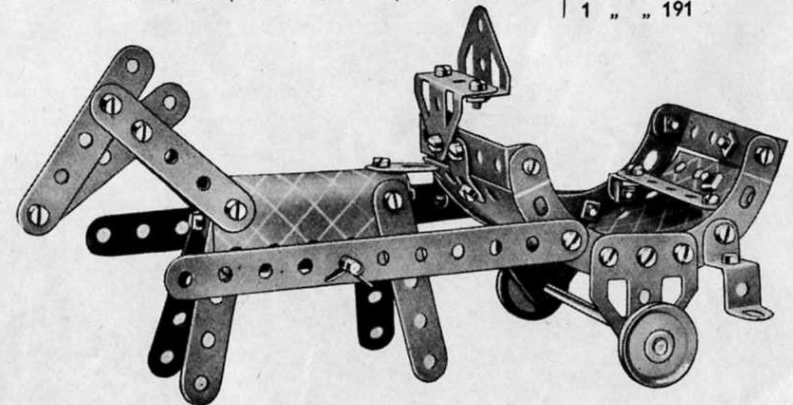
## Parts required

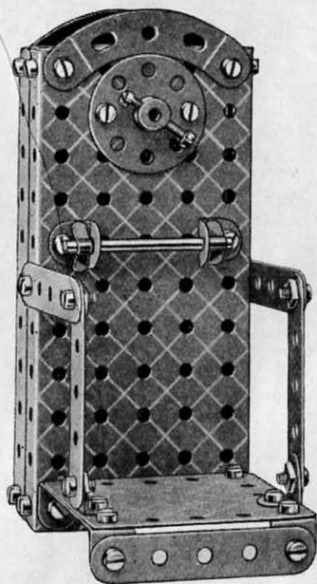
4 of No.	5
4 " "	10
2 " "	11
4 " "	12
1 " "	23
15 " "	37
1 " "	37a
1 " "	52
1 " "	111c

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

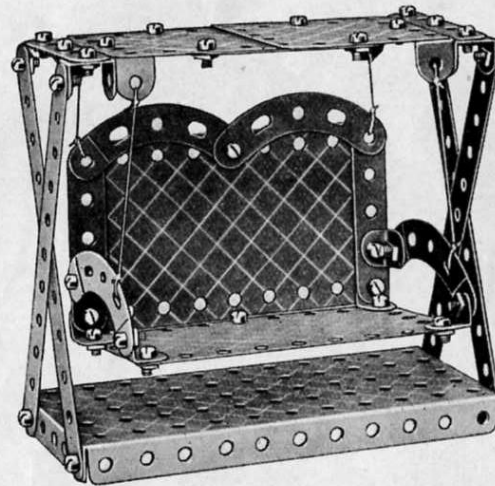




**B83.**  
Weighing  
Machine

Parts required

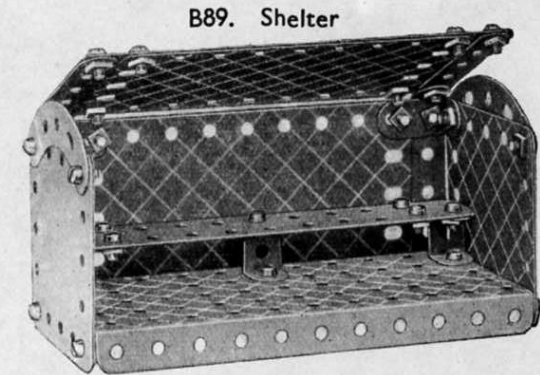
4 of No.	2
7 " "	5
4 " "	10
8 " "	12
1 " "	17
1 " "	24
2 " "	35
36 " "	37
2 " "	37a
2 " "	48a
1 " "	52
2 " "	90a
3 " "	111c
1 " "	190
1 " "	191



**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

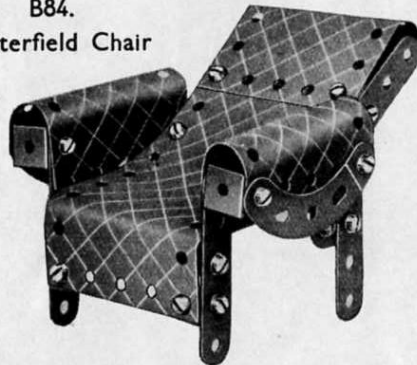


**B89.** Shelter

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



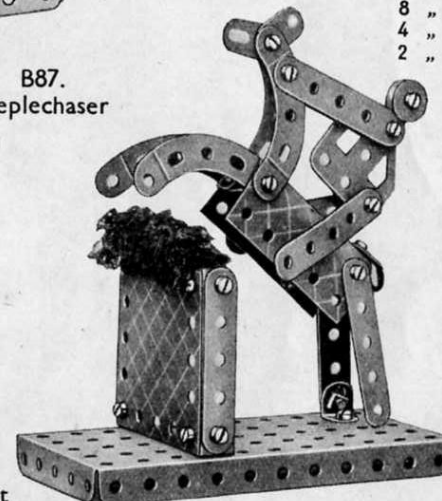
Parts required

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

**B87.**  
Steeplechaser

Parts required

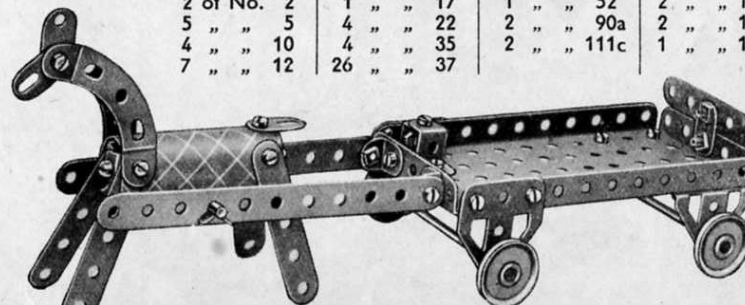
9 of No.	5
4 " "	10
7 " "	12
1 " "	23
20 " "	37
8 " "	37a
2 " "	48a
1 " "	52
4 " "	90a
4 " "	111c
1 " "	126a
2 " "	190



**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		



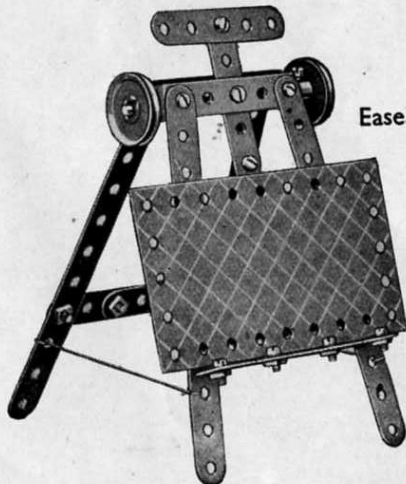
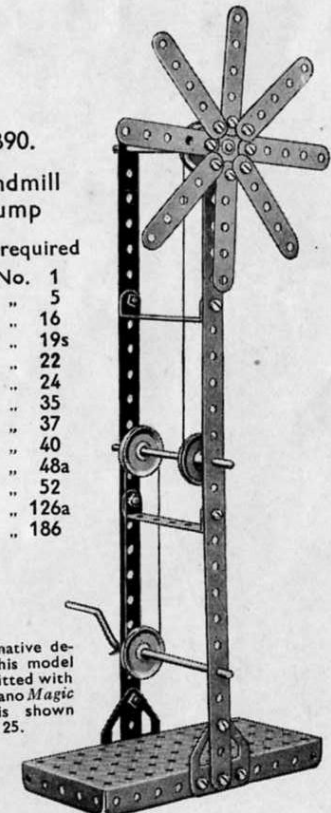
The fun is greatly increased if this model is fitted with a Meccano Magic Motor. The method of incorporating the Motor is shown on page 9 (A62M). If the Motor is fitted, a Bush Wheel should be mounted on a 2" Rod fitted between the hind legs of the horse.

**B90.**  
Windmill  
Pump

Parts required

2 of No.	1
8 " "	5
2 " "	16
1 " "	19s
4 " "	22
1 " "	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.

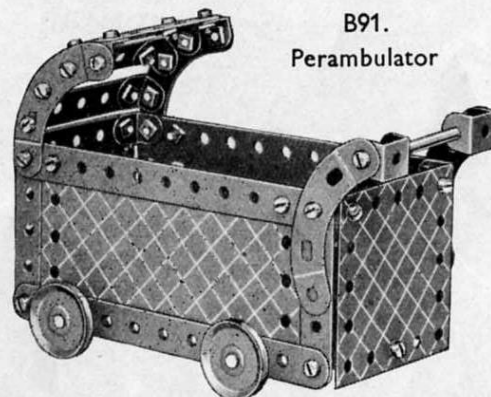


**B85.**  
Easel and Board

Parts required

4 of No.	2
7 " "	5
1 " "	10
2 " "	12
1 " "	16
2 " "	22
20 " "	37
1 " "	40
2 " "	48a
1 " "	191

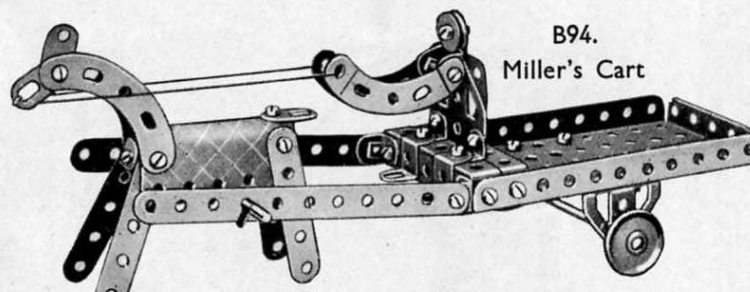




B91.  
Perambulator

## 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



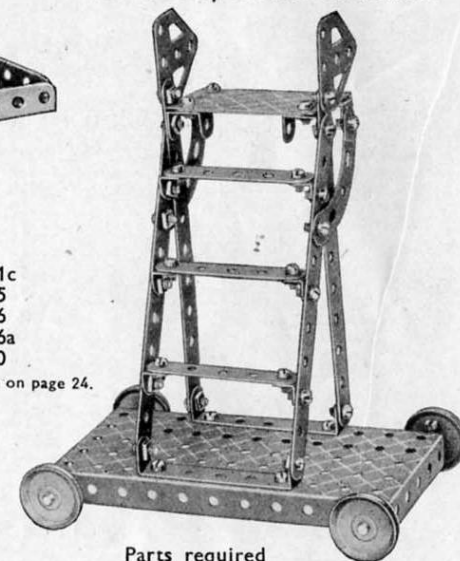
B94.  
Miller's Cart

## 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

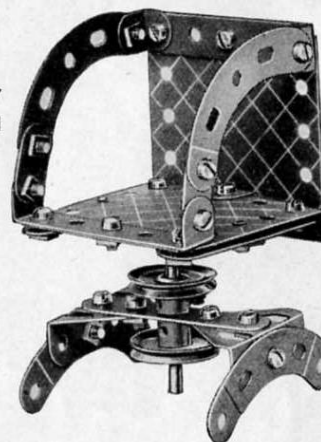
## Parts required

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

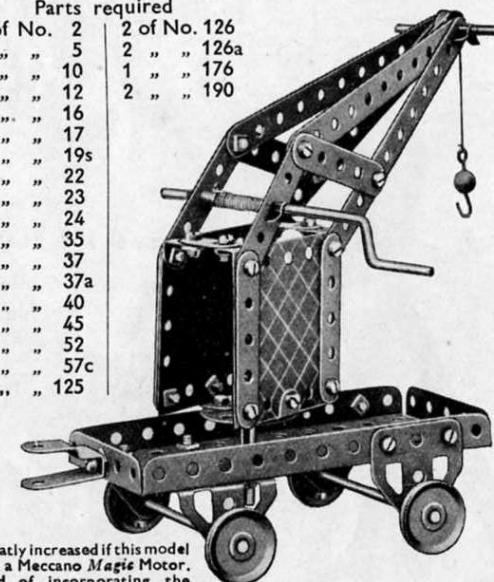
6 of No. 5
4 " " 10
3 " " 12
1 " " 17
2 " " 22
1 " " 24
26 " " 37
4 " " 37a
1 " " 48a
4 " " 90a
2 " " 126
2 " " 190



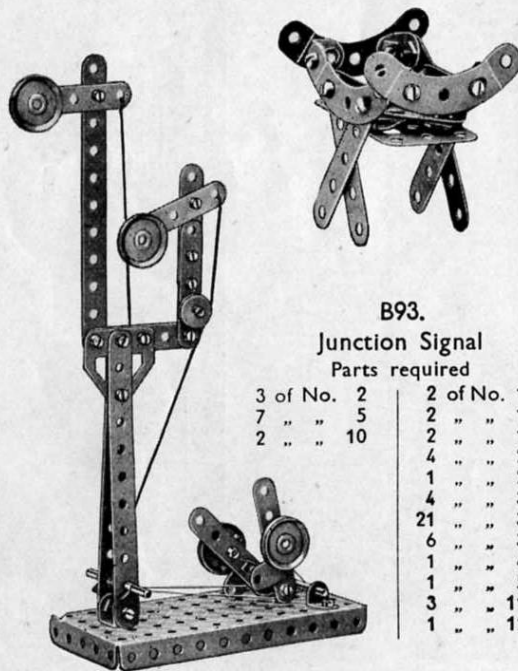
B98. Breakdown Crane

## 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)

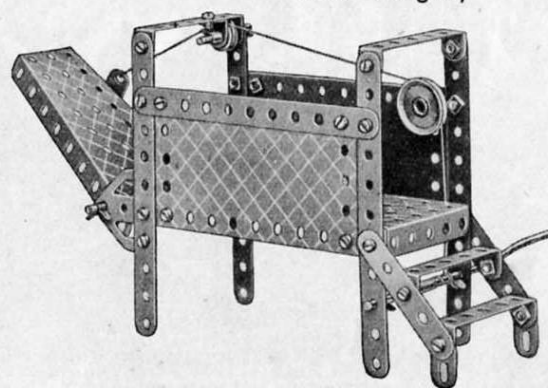


B93.  
Junction Signal

## 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

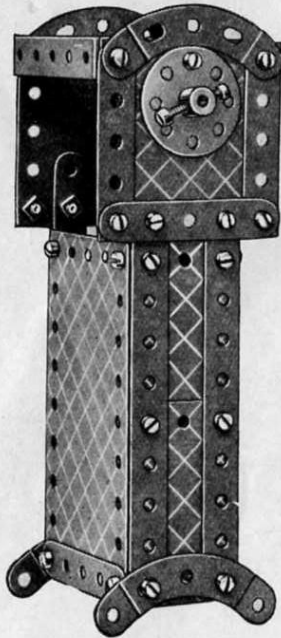
B96. Gangway



## 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



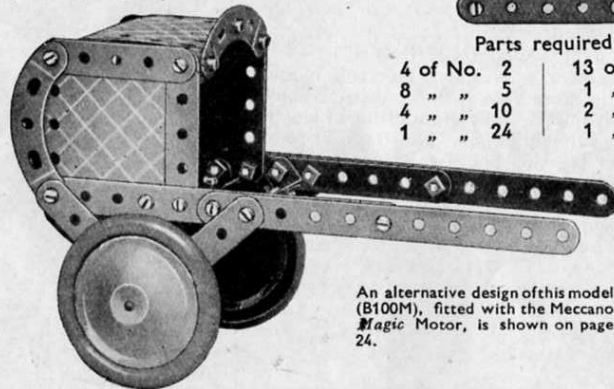
## Parts required

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

B100. Rickshaw

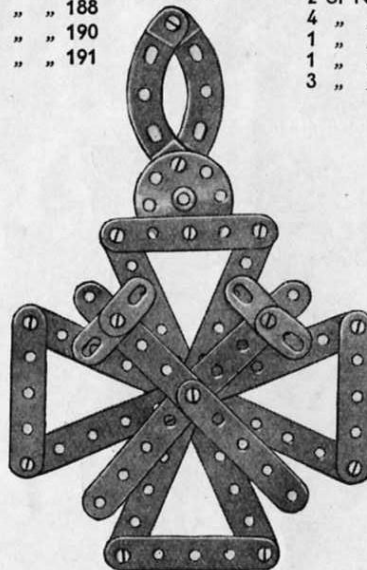
## Parts required

4 of No.	2	3 of No.	90a
9 "	5	2 "	126a
7 "	12	2 "	187
1 "	15b	2 "	190
31 "	37	2 "	191
2 "	48a		



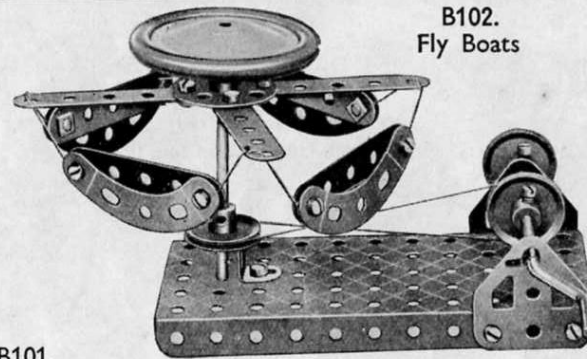
An alternative design of this model (B100M), fitted with the Meccano Magic Motor, is shown on page 24.

B101. Medal



## Parts required

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

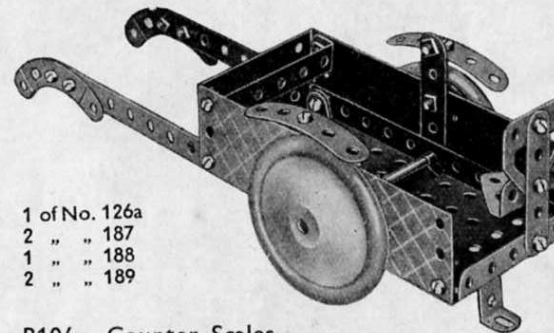


B102. Fly Boats

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

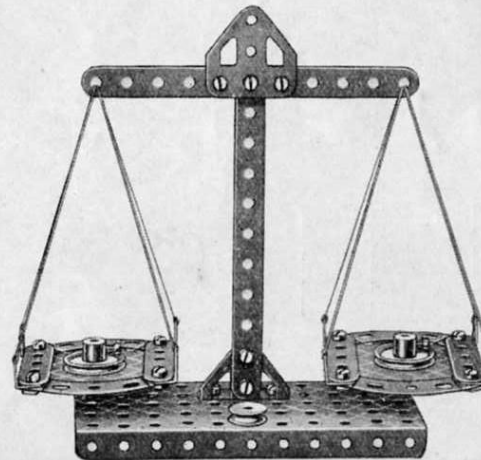
2 of No.	2
6 "	5
5 "	12
1 "	15b
26 "	37
2 "	48a
1 "	52
2 "	90a
1 "	125
1 "	126



B103. Milk Float

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

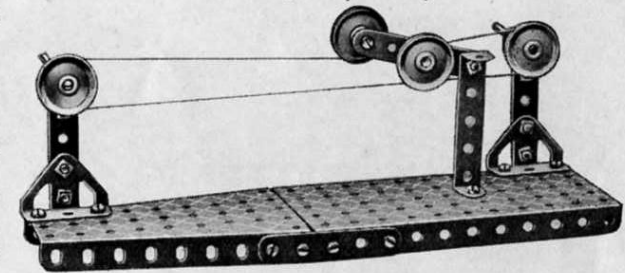
B104. Counter Scales



## 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

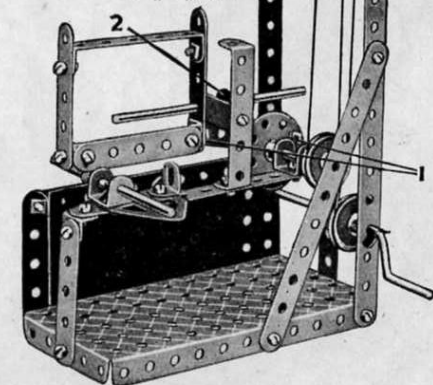


B106. Power Hack Saw

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 locknuttet. 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

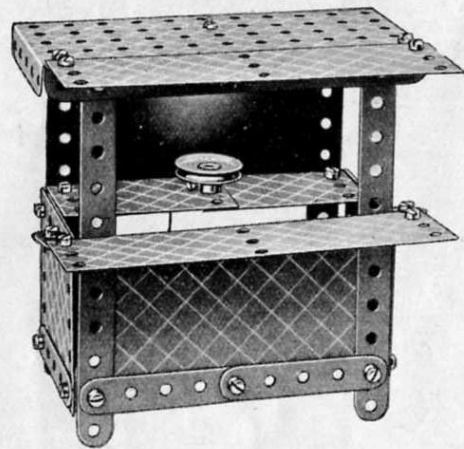
## Parts required

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).

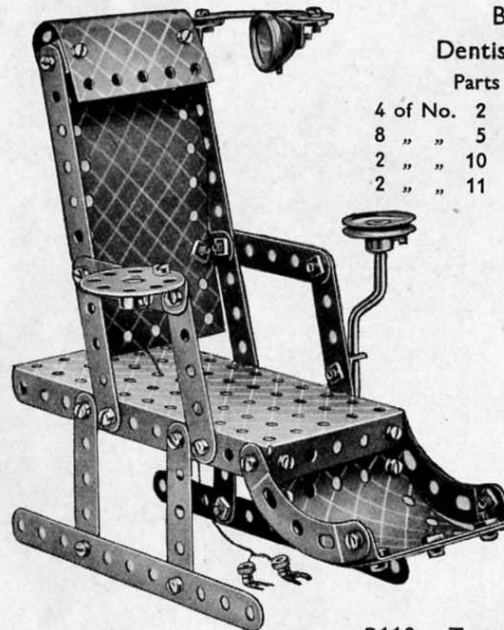
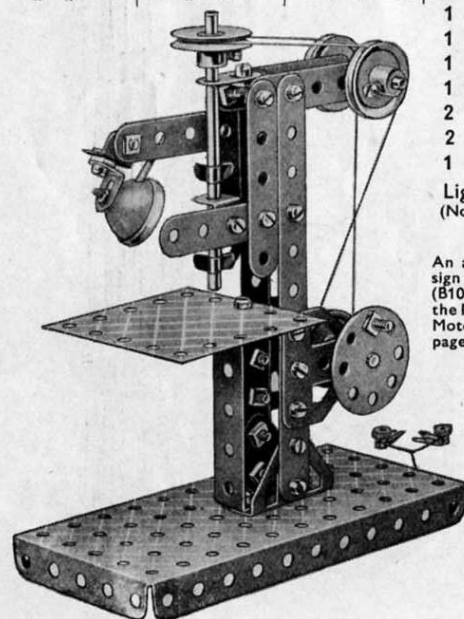
B108.  
Sensitive Drill

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.



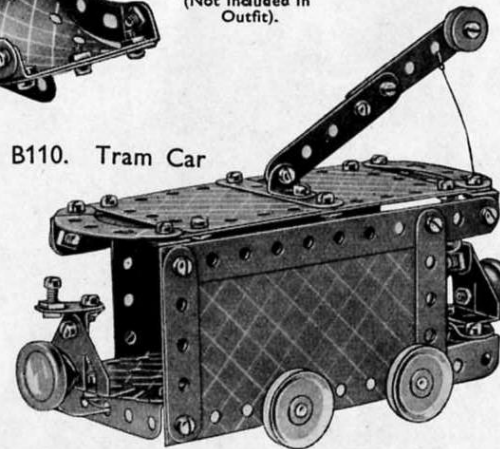
B109.  
Dentist's Chair

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

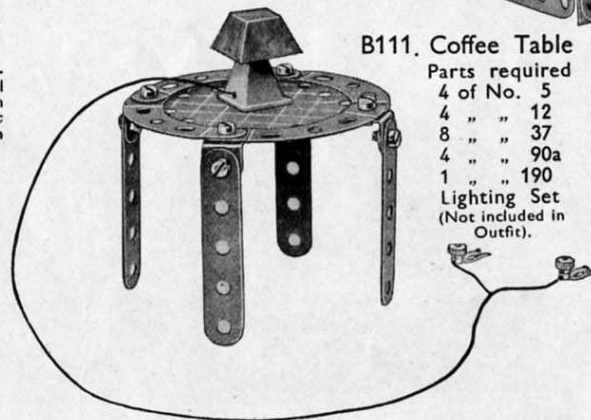
4 of No. 2	1 of No. 40
2 " " 10	2 " " 48a
2 " " 11	1 " " 52
3 " " 12	4 " " 90a
2 " " 16	3 " " 111c
4 " " 22	2 " " 126
1 " " 23	2 " " 190
34 " " 37	2 " " 191
6 " " 37a	Lighting Set (Not included in Outfit).

B111. Coffee Table

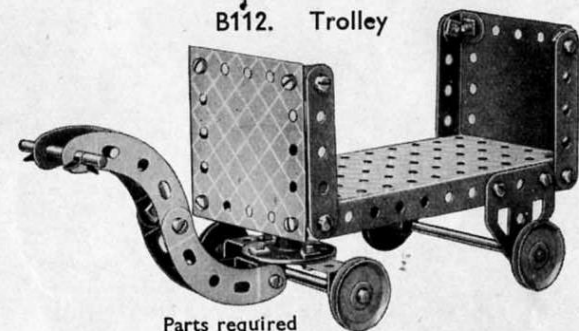
Parts required

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

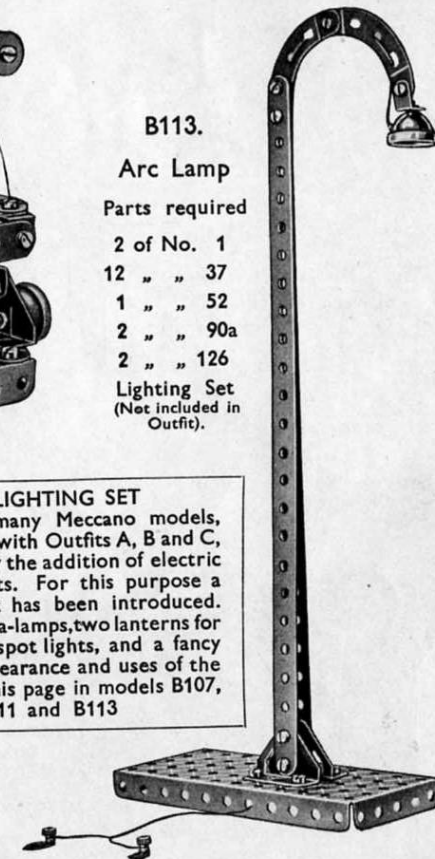
B113.

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

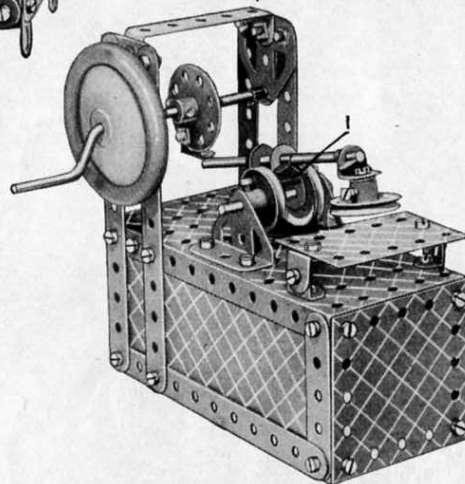


Parts required	
3 of No. 2	1 of No. 52
9 " " 5	1 " " 90a
4 " " 10	1 " " 111c
8 " " 12	1 " " 126a
1 " " 23	2 " " 190
33 " " 37	2 " " 191
3 " " 37a	

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	

B117. Trip Hammer



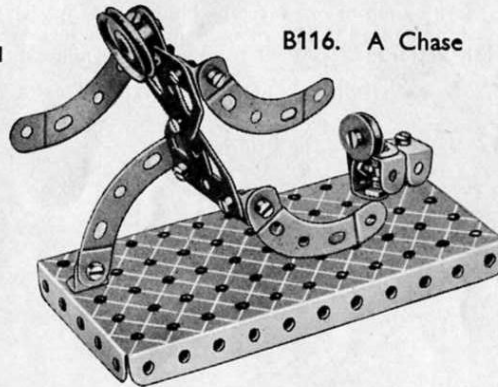
Parts required

6 of No. 2	
2 " " 5	
2 " " 11	
8 " " 12	
1 " " 15b	
1 " " 17	
1 " " 19s	
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	

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.

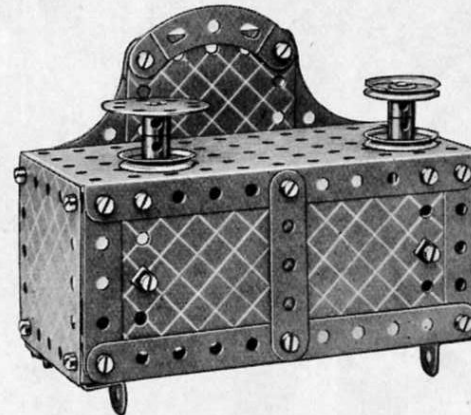
B116. A Chase



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	

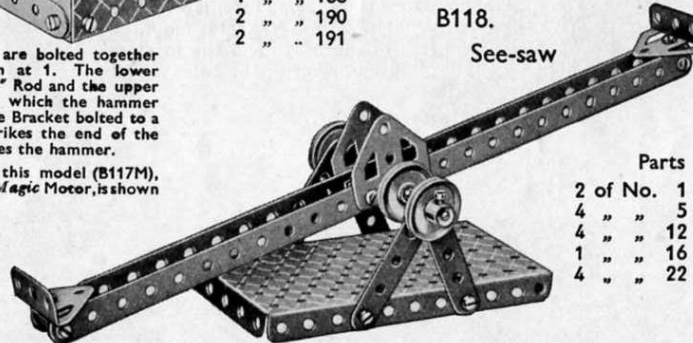
B120. Sideboard



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.

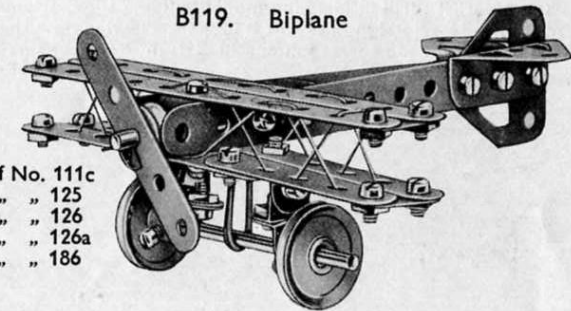
See-saw



Parts required

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

B119. Biplane



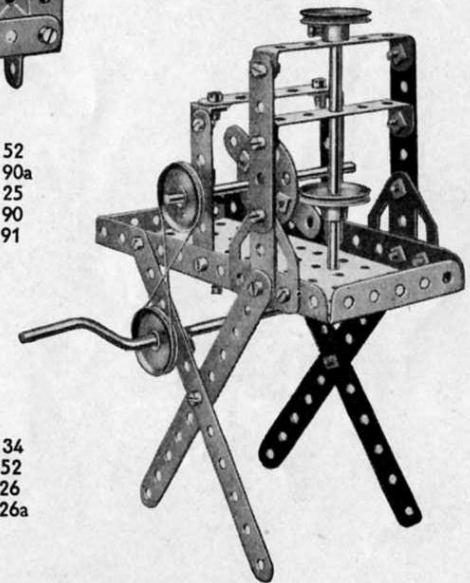
3 of No. 111c	
2 " " 125	
2 " " 126	
1 " " 126a	
1 " " 186	

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



## 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**

The greatest thrill in Meccano model-building is experienced when a model is set to work by means of a Meccano Motor. The models featured on this and the opposite page are more elaborate variations of a selection of Outfit B Models, showing how the new Meccano *Magic* Motor can be fitted to give more realism and to increase the fun. The numbers of these re-designed models are the same as those of the corresponding models in the preceding pages, with the addition of the letter M. Try your hand at re-designing other models in a similar manner and become a real inventor.

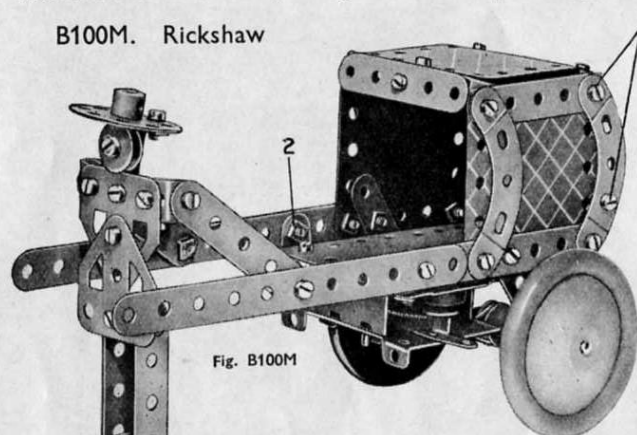
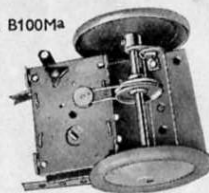
**B100M. Rickshaw**


Fig. B100M

Two  $4\frac{1}{2}'' \times 2\frac{1}{2}''$  Flexible Plates are overlapped  $\frac{1}{2}''$  to form the top and back of the rickshaw. They are fixed to Angle Brackets at the points 1. A  $2\frac{1}{2}'' \times \frac{1}{2}''$  Double Angle Strip at 2 supports the floor and also the *Magic* Motor bolted as shown in Fig. B100Ma.

Fig. B100Ma



Parts required

4 of No. 2	34 of No. 37
9 " " 5	1 " " 37a
1 " " 10	2 " " 48a
1 " " 11	4 " " 90a
8 " " 12	1 " " 111c
1 " " 15b	2 " " 126a
1 " " 17	2 " " 187
1 " " 22	2 " " 190
1 " " 23	2 " " 191
1 " " 24	
2 " " 35	

**B108M. Sensitive Drill**

The  $3\frac{1}{2}''$  Rod 1 representing the drill is journaled at the top in a  $2\frac{1}{2}''$  Strip and at the bottom in a Flat Bracket. The Flat Bracket is secured to an Angle Bracket held by the bolt 2. One of the two  $1''$  Pulleys forming guides for the cord is free on its Rod

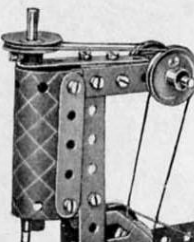


Fig. B108M

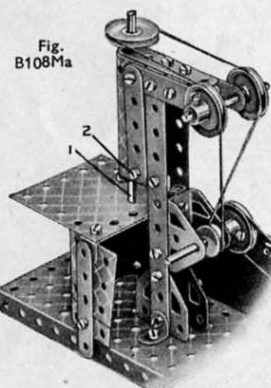


Fig. B108Ma

Parts required

6 of No. 2	
9 " " 5	
2 " " 10	
2 " " 11	
7 " " 12	
1 " " 15b	
2 " " 17	
4 " " 22	
1 " " 23	
2 " " 35	
36 " " 37	
6 " " 37a	
1 " " 40	
1 " " 48a	
1 " " 52	
1 " " 54a	
6 " " 111c	
2 " " 126	
2 " " 126a	
2 " " 189	
2 " " 190	
2 " " 191	

**B106M.**
**Power Hacksaw**

The saw frame slides on a  $3\frac{1}{2}''$  Axle Rod held in a Cranked Bent Strip and is driven to and fro by a  $2\frac{1}{2}''$  Strip connected to a revolving Bush Wheel. The bolts 1 are provided with locknuts to form pivots.

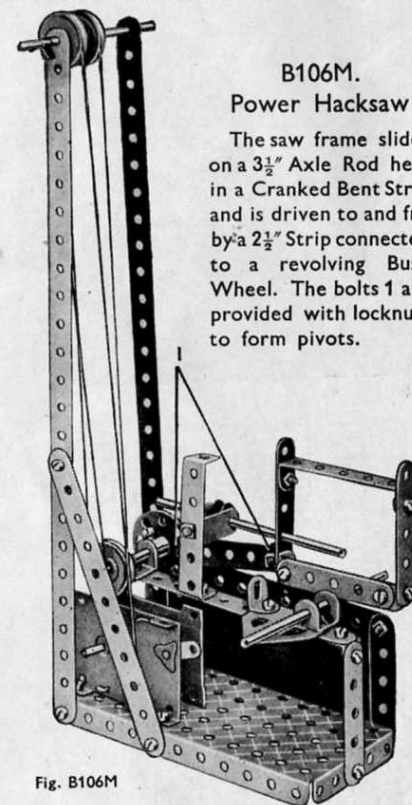


Fig. B106M

Parts required

2 of No. 1	6 of No. 12	2 of No. 38
3 " " 2	1 " " 15b	1 " " 40
6 " " 5	2 " " 16	1 " " 44
2 " " 11	1 " " 17	2 " " 48a
	3 " " 22	1 " " 52
	1 " " 24	1 " " 126
	5 " " 35	1 " " 176
	30 " " 37	1 " " 190
	2 " " 37a	

**B77M. Windmill**

The  $\frac{1}{2}''$  Pulley on the intermediate Rod drives a  $1''$  Pulley on the Axle Rod carrying the "sails." (See Fig. B77Ma.)

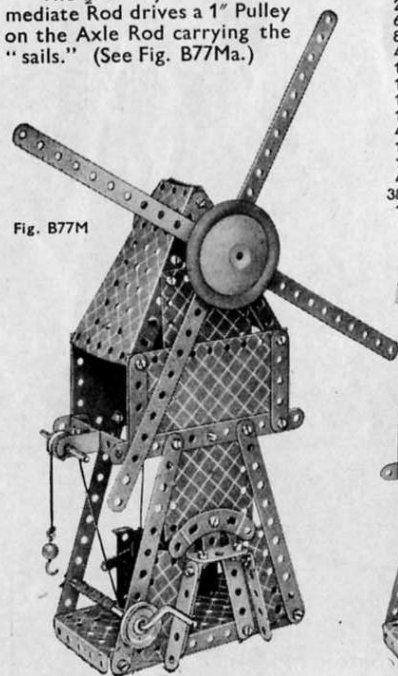


Fig. B77M

Parts required

2 of No. 1	1 of No. 44
6 " " 2	2 " " 48a
8 " " 5	1 " " 52
4 " " 12	2 " " 54a
1 " " 15b	1 " " 57c
1 " " 16	1 " " 90a
1 " " 17	2 " " 126
1 " " 19s	2 " " 126a
4 " " 22	1 " " 176
1 " " 23	1 " " 187
1 " " 24	2 " " 188
4 " " 35	2 " " 190
38 " " 37	2 " " 191
1 " " 40	

Fig. B77Ma

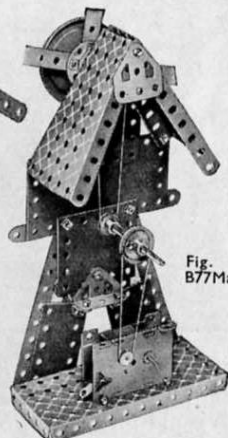

**B94M. Miller's Cart**

Fig. B94Ma shows how the *Magic* Motor is arranged to drive the Road Wheels. A Bush Wheel is mounted between the hind legs of the horse and the forelegs are kept off the ground by means of the reins.

Parts required

6 of No. 2	1 of No. 188
6 " " 5	2 " " 189
5 " " 10	1 " " 190
1 " " 11	
8 " " 12	
1 " " 15b	
2 " " 17	
1 " " 22	
1 " " 23	
1 " " 24	
4 " " 35	
36 " " 37	
3 " " 37a	
6 " " 38	
1 " " 40	
2 " " 48a	
1 " " 52	
4 " " 90a	
3 " " 111c	
2 " " 125	
2 " " 126	
1 " " 126a	
2 " " 187	

Fig. B94Ma

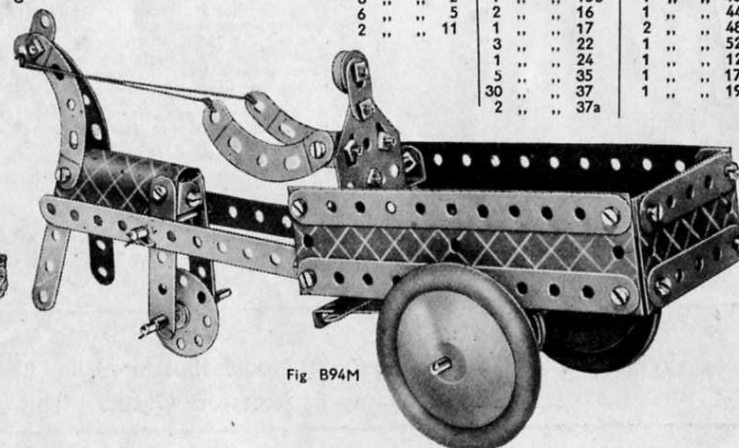
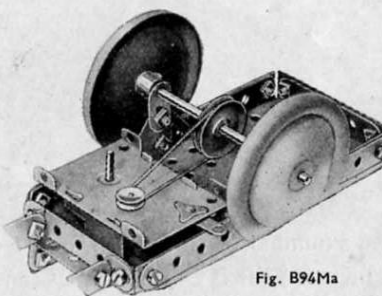
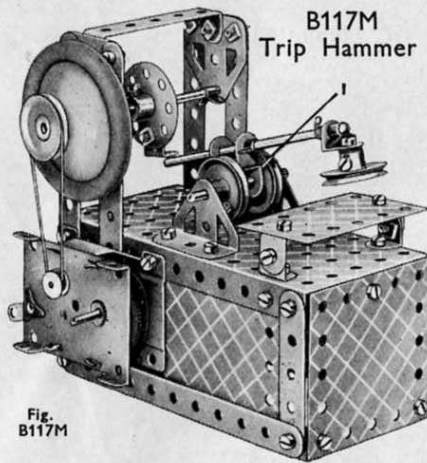


Fig. B94M



**B117M**  
Trip Hammer

Parts required	
6 of No.	2
2 " "	5
2 " "	11
8 " "	12
1 " "	15b
1 " "	16
1 " "	17
1 " "	22
1 " "	24
5 " "	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

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.

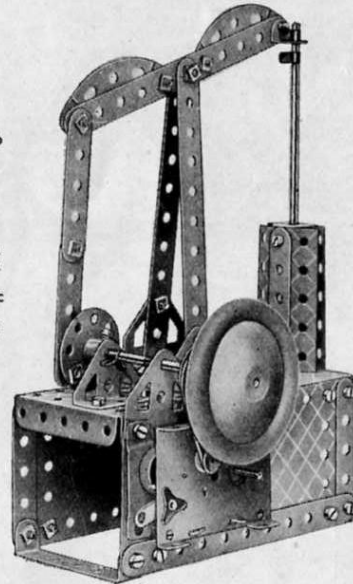


Fig. B32M

**B32M. Pump**

Parts required	
5 of No.	2
8 " "	5
2 " "	11
3 " "	12
1 " "	15b
1 " "	16
1 " "	22
1 " "	24
4 " "	35
34 " "	37
8 " "	37a
3 of No.	38
2 " "	48a
1 " "	52
2 " "	90a
6 " "	111c
2 " "	126
2 " "	126a
1 " "	186
1 " "	187
2 " "	188
2 " "	191



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 locknutted to form pivots.

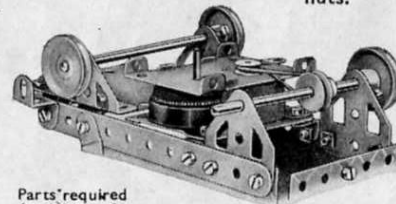


Fig. B51M

**B90M. Windmill Pump**

Parts required	
2 of No.	1
5 " "	2
9 " "	5
2 " "	11
7 " "	12
1 " "	15b
2 " "	16
1 " "	19s
4 " "	22
1 " "	24
6 " "	35
36 " "	37
5 " "	37a
2 " "	38
1 " "	40
2 " "	48a
1 " "	52
4 " "	90a
1 " "	111c
1 " "	126
2 " "	126a
1 " "	186
2 " "	188
2 " "	189
2 " "	190

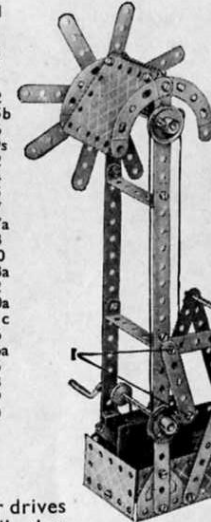


Fig. B90Ma

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 lock-nuts.

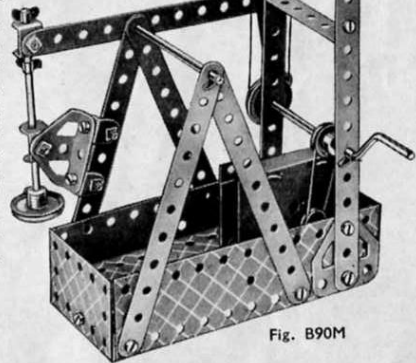


Fig. B90M

**B30M. Derrick Crane**

Fig. B30Ma shows the method of mounting the jib on the base Plate. The bolts 1 form pivots and are each locknutted. 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  $2\frac{1}{2} \times \frac{1}{2}$ " Double Angle Strip, and to a weighted lever consisting of a pivoted  $2\frac{1}{2}$ " Strip 3. The Magic Motor is mounted on a  $2\frac{1}{2}$ " 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	1 " "	48a
8 " "	12	1 " "	52
1 " "	15b	1 " "	57c
1 " "	16	6 " "	111c
2 " "	17	2 " "	125
1 " "	19s	2 " "	126
1 " "	22	1 " "	126a
1 " "	23	1 " "	176
1 " "	24	1 " "	187
6 " "	35	2 " "	188

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

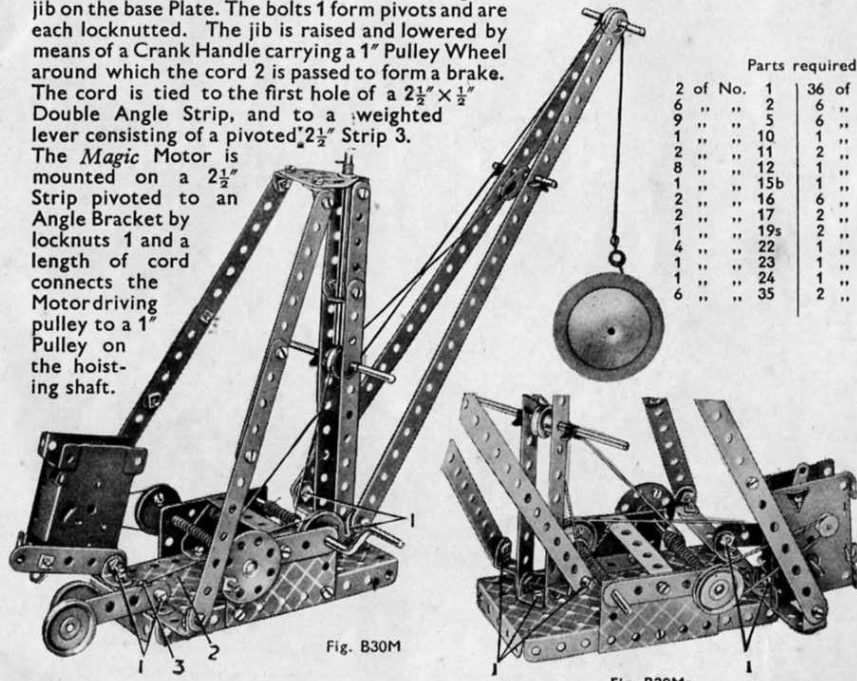


Fig. B30M

Fig. B30Ma

**B51M. Bread Van**

The method of mounting the Magic Motor in position is shown in Fig. B51Ma. The horse travels on a  $\frac{1}{2}$ " 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.

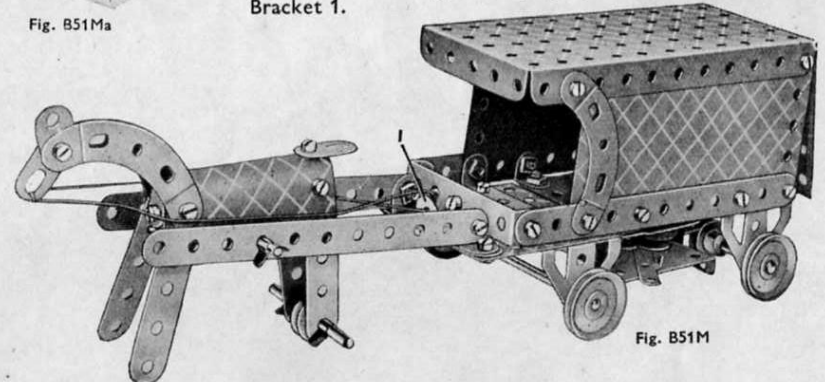
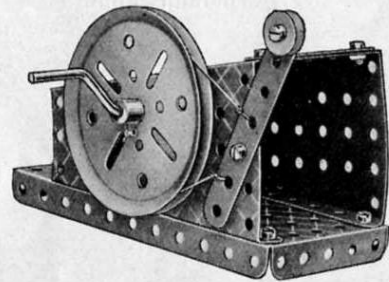


Fig. B51M



These Models can be built with **MECCANO Outfit C (or Outfits B and Ba)**

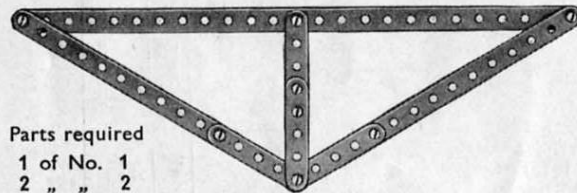
C1. Band Brake



## Parts required

1	of	No. 3
2	"	" 5
1	"	" 19s
1	"	" 19b
1	"	" 22
1	"	" 23
9	"	" 37
2	"	" 37a
3	"	" 38
1	"	" 40
1	"	" 52
2	"	" 54a
1	"	" 111c
1	"	" 191

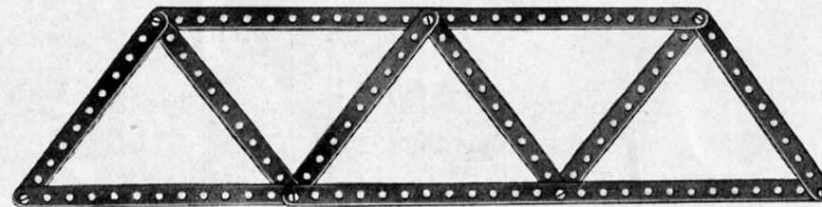
C2. Triangulated Truss



## Parts required

1	of	No. 1
2	"	" 2
4	"	" 5
8	"	" 37

C4. Compound Triangulated Truss



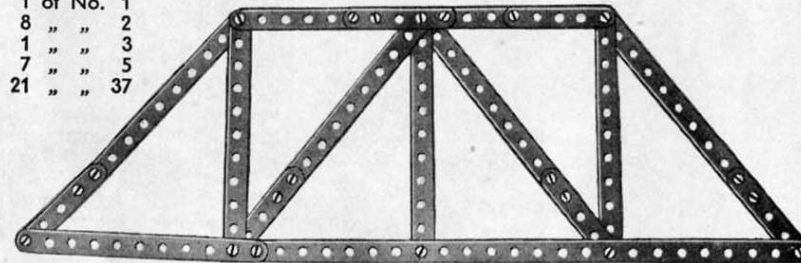
## Parts required

3 of No. 1 | 6 of No. 2 | 7 of No. 37

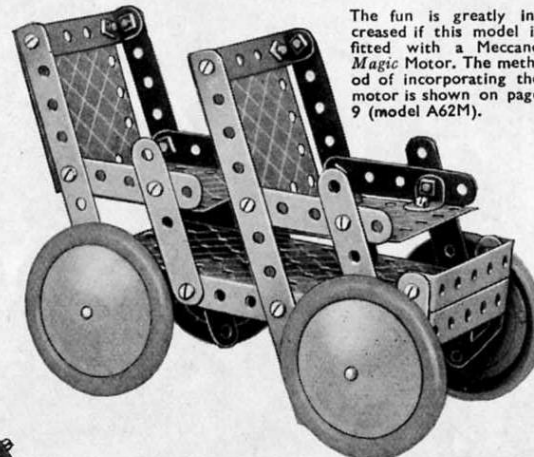
C5. Howe Truss

## Parts required

1	of	No. 1
8	"	" 2
1	"	" 3
7	"	" 5
21	"	" 37



C6. Tandem Car



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).

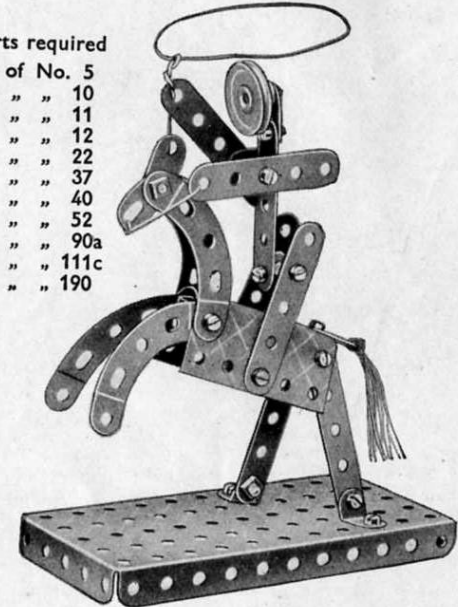
## Parts required

4	of	No. 2	4	of	No. 48a
8	"	" 5	1	"	" 52
4	"	" 12	2	"	" 126a
2	"	" 15b	4	"	" 187
34	"	" 37	4	"	" 190

C7. Mounted Cowboy

## Parts required

7	of	No. 5
4	"	" 10
2	"	" 11
7	"	" 12
1	"	" 22
22	"	" 37
1	"	" 40
1	"	" 52
4	"	" 90a
1	"	" 111c
1	"	" 190

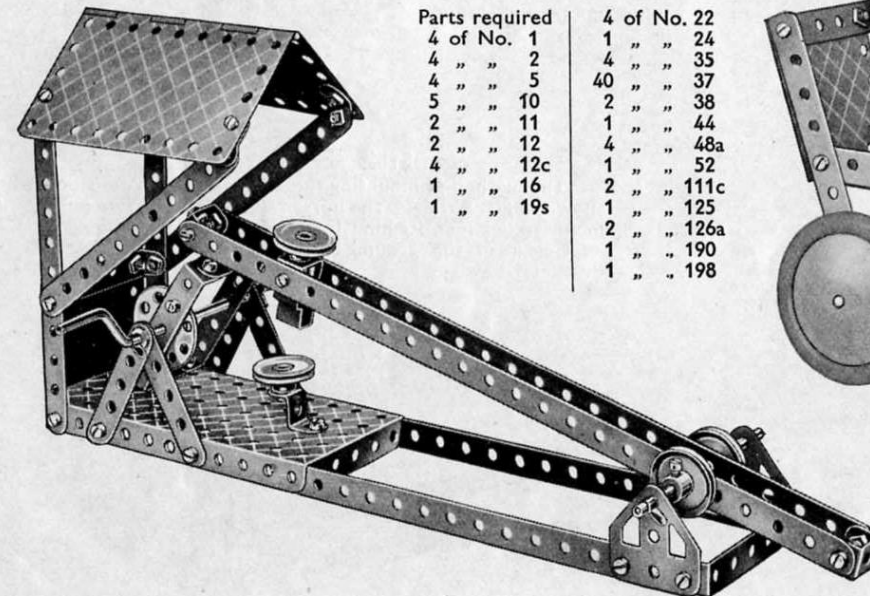


C3. Helve Hammer

## Parts required

4	of	No. 1
4	"	" 2
4	"	" 5
5	"	" 10
2	"	" 11
2	"	" 12
4	"	" 12c
1	"	" 16
1	"	" 19s

4	of	No. 22
1	"	" 24
4	"	" 35
40	"	" 37
2	"	" 38
1	"	" 44
4	"	" 48a
2	"	" 52
1	"	" 111c
1	"	" 125
2	"	" 126a
1	"	" 190
1	"	" 198



C8. Bath Chair

## Parts required

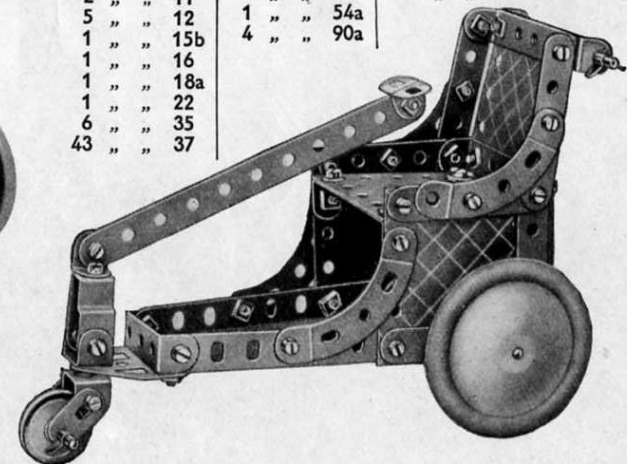
1	of	No. 2
9	"	" 5
4	"	" 10
2	"	" 11
5	"	" 12
1	"	" 15b
1	"	" 16
1	"	" 18a
1	"	" 22
6	"	" 35
43	"	" 37

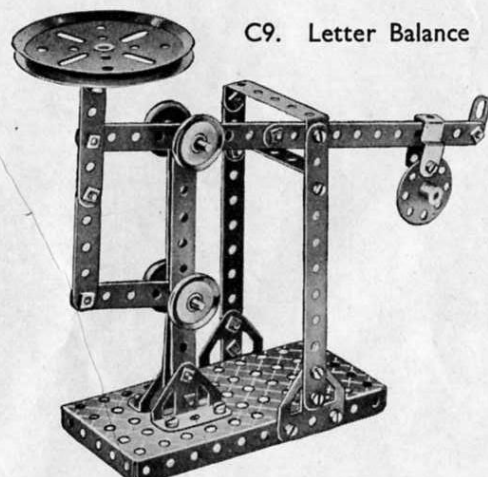
## 4 of No. 37a

8	"	" 38
1	"	" 44
1	"	" 48
5	"	" 48a
1	"	" 54a
4	"	" 90a

## 1 of No. 111c

1	"	" 126a
2	"	" 187
3	"	" 190
1	"	" 191

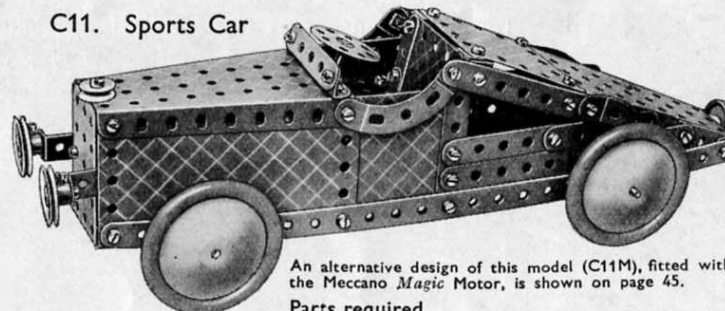




C9. Letter Balance

## Parts required

6 of No.	2
4 " "	5
1 " "	10
1 " "	12
2 " "	18a
1 " "	19b
4 " "	22
1 " "	24
2 " "	35
26 " "	37
4 " "	37a
2 " "	38
1 " "	44
2 " "	48a
1 " "	52
2 " "	111c
2 " "	126
2 " "	126a



C11. Sports Car

An alternative design of this model (C11M), fitted with the Meccano Magic Motor, is shown on page 45.

## Parts required

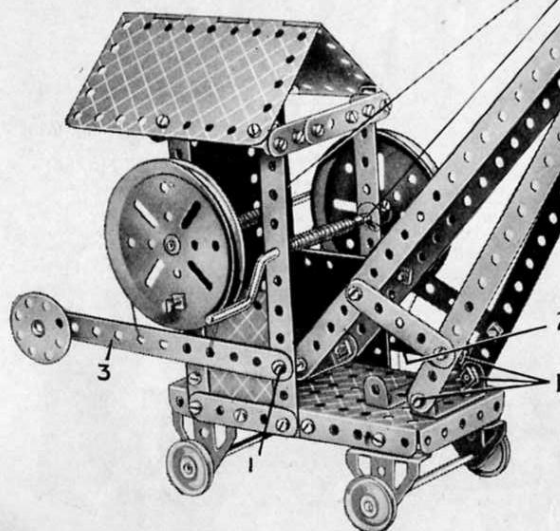
2 of No.	1	4 of No.	22	1 of No.	48	4 of No.	111c
4 " "	2	1 " "	23	2 " "	48a	2 " "	125
9 " "	5	1 " "	24	1 " "	51	2 " "	126a
2 " "	10	2 " "	35	1 " "	52	4 " "	187
8 " "	12	55 " "	37	2 " "	54a	4 " "	190
2 " "	15b	1 " "	37a	4 " "	90a	2 " "	191
1 " "	16	2 " "	38				

C10. Travelling Crane

## Parts required

4 of No.	1	4 of No.	22	1 of No.	111a
5 " "	2	1 " "	23	1 " "	111c
9 " "	5	1 " "	24	2 " "	125
1 " "	11	4 " "	35	2 " "	126
8 " "	12	55 " "	37	2 " "	126a
1 " "	15b	6 " "	37a	1 " "	176
2 " "	16	1 " "	48	2 " "	190
1 " "	18a	3 " "	48a	1 " "	191
1 " "	19s	1 " "	52	1 " "	197
2 " "	19b	1 " "	57c		

The bolts 1 are locknutted to form pivots for the jib and for the two brake levers 2 and 3.

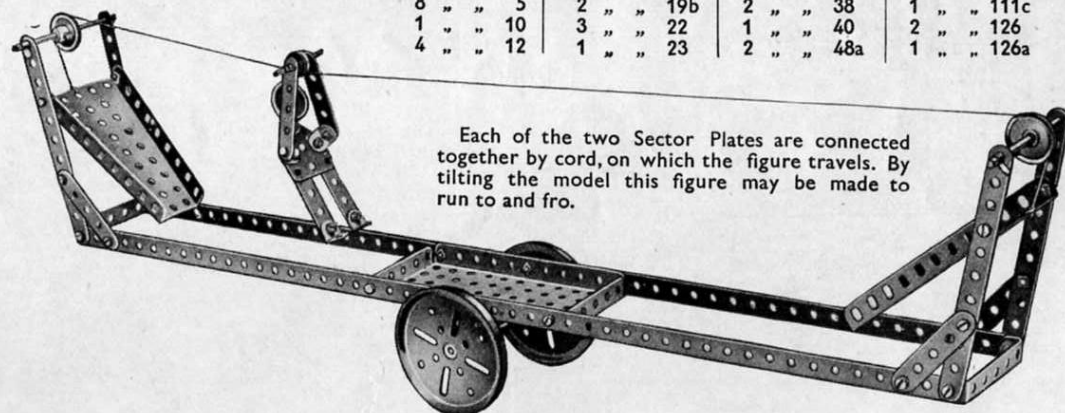
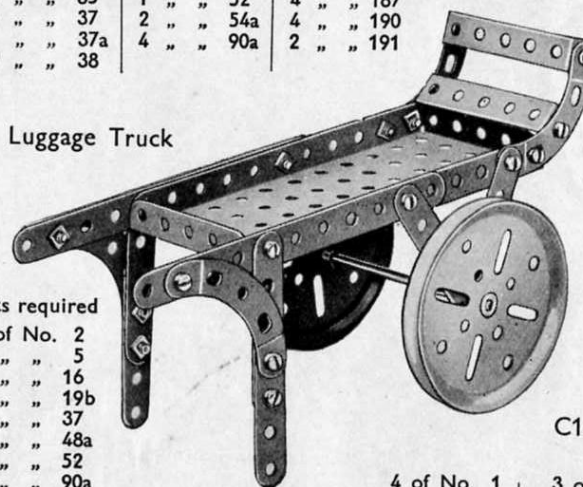


Loops of cord are tied to the brake levers and are passed round 3" Pulleys on the hoisting and luffing shafts to form band brakes. The lower ends of the upper pair of 12½" Strips forming the jib are held apart by two ½" Reversed Angle Brackets bolted together.

C12. Luggage Truck

## Parts required

2 of No.	2
8 " "	5
1 " "	16
2 " "	19b
18 " "	37
2 " "	48a
1 " "	52
4 " "	90a

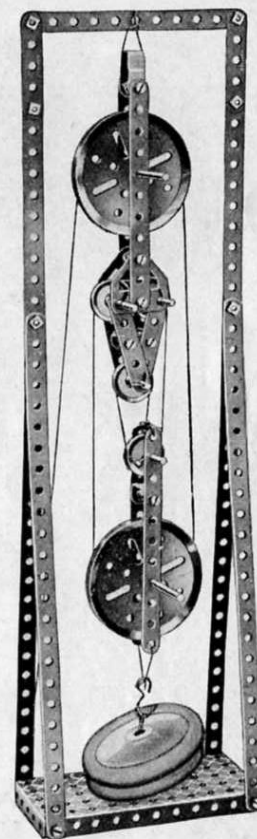


Each of the two Sector Plates are connected together by cord, on which the figure travels. By tilting the model this figure may be made to run to and fro.

C13. Pulley Block, 5:1

## Parts required

4 of No.	1
7 " "	2
6 " "	5
2 " "	11
2 " "	12
2 " "	16
2 " "	17
2 " "	18a
2 " "	19b
4 " "	22
6 " "	35
24 " "	37
2 " "	38
1 " "	40
1 " "	44
1 " "	52
1 " "	57c
2 " "	126a
2 " "	187



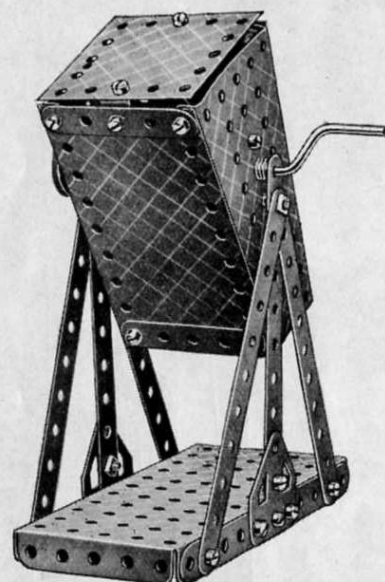
C14. Aerial Flight

## Parts required

4 of No.	1	3 of No.	16	6 of No.	35	1 of No.	52
4 " "	2	1 " "	18a	33 " "	37	2 " "	54a
8 " "	5	2 " "	19b	2 " "	38	1 " "	111c
1 " "	10	3 " "	22	1 " "	40	2 " "	126
4 " "	12	1 " "	23	2 " "	48a	1 " "	126a



C15. Butter Churn



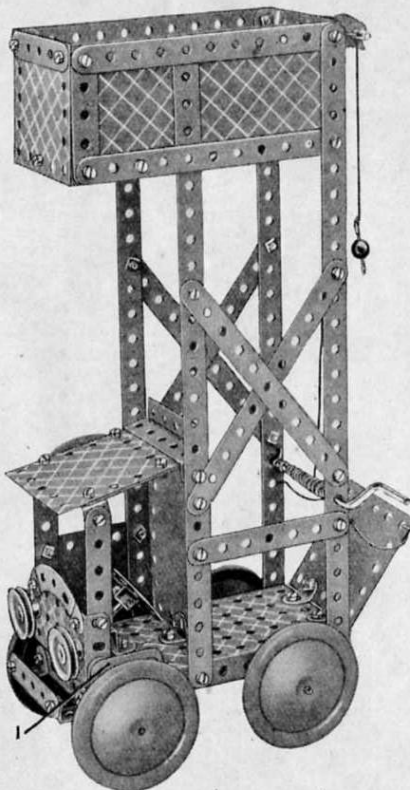
## Parts required

4 of No.	1
8 "	2
1 "	3
9 "	5
2 "	11
7 "	12
2 "	12c
1 "	15b
1 "	16
2 "	18a
1 "	19s
2 "	22
1 "	23
1 "	24
6 "	35
61 "	37
3 "	38
1 "	40
1 "	44
6 "	48a
1 "	51
1 "	52
1 "	57c
2 "	90a
2 "	111c
1 "	125
2 "	126
2 "	126a
4 "	187
4 "	190
1 "	191
2 "	192

## Parts required

8 of No.	2	1 of No.	48a
4 "	5	1 "	51
4 "	12	1 "	52
1 "	22	2 "	54a
1 "	24	2 "	126a
32 "	37	1 "	190
8 "	38	2 "	191

C16. Tower Wagon



The headlamps (1" Pulleys) are fixed in position by means of  $\frac{3}{8}$ " Bolts secured by the Set Screws in the bosses of the Pulleys. The front axle is carried in Flat Trunnions 1 bolted by their centre holes to the Flanged Plate.

C17.

## Friction Grip Tong

The hoisting cord is attached to the Double Bracket 1. The joints 2, 3 are locknursed, so that when the grip is raised the  $\frac{1}{2}$ " loose Pulley Wheel 4 slides upward between the  $2\frac{1}{2}$ " Strips 5, and the grip closes upon the block of wood or other material placed between its jaws.

## Parts required

3 of No.	2	1 of No.	23
5 "	5	2 "	35
4 "	10	12 "	37
1 "	11	4 "	37a
1 "	18a	4 "	38

C18. Pneumatic Hammer

## Parts required

2 of No.	1	3 of No.	190
8 "	2	2 "	191
1 "	3	1 "	198
9 "	5		
5 "	10		
4 "	12		
3 "	12c		
2 "	15b		
1 "	16		
2 "	18a		
1 "	19s		
1 "	19b		
4 "	22		
1 "	23		
1 "	24		
6 "	35		
52 "	37		
2 "	37a		
1 "	40		
1 "	44		
6 "	48a		
1 "	51		
1 "	52		
4 "	90a		
1 "	111c		
1 "	125		
2 "	126a		
1 "	176		

A 3" Pulley Wheel is driven from a 1" Pulley on the Crank Handle and is fitted to a Rod journalled in a  $2\frac{1}{2}$ " Strip and Double Bent Strip 2 that are bolted to a  $2\frac{1}{2}$ " x  $2\frac{1}{2}$ " Flexible Plate. A Bush Wheel is fitted on the other end of the Rod and a  $2\frac{1}{2}$ " Strip is pivoted on the bolt 1 fixed by two nuts locked against opposite sides of the Bush Wheel. Cord is tied to the  $2\frac{1}{2}$ " Strip, passes over guide Pulleys, and is tied to an Anchoring Spring on the upper end of the hammer Rod.

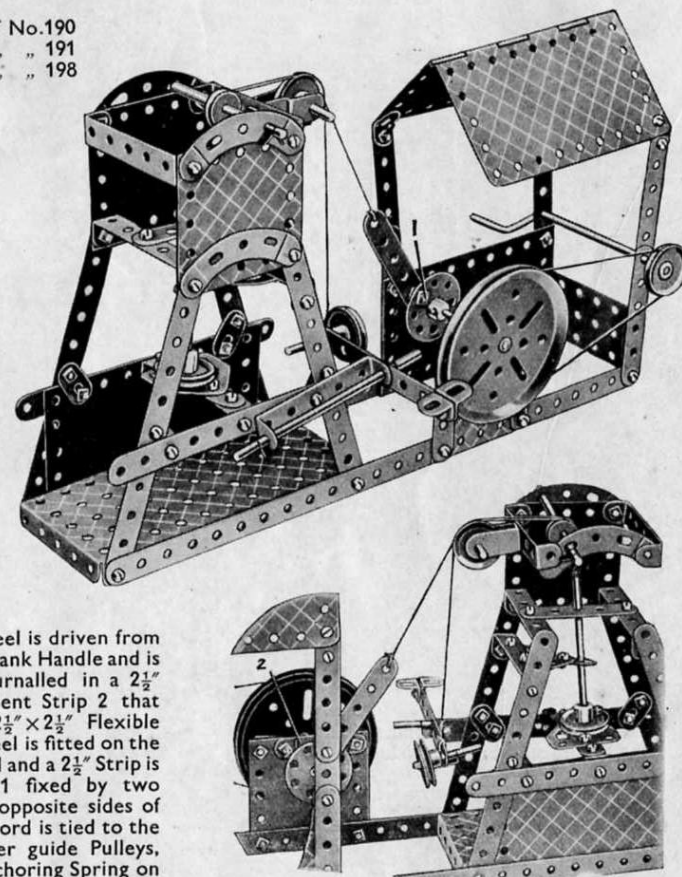
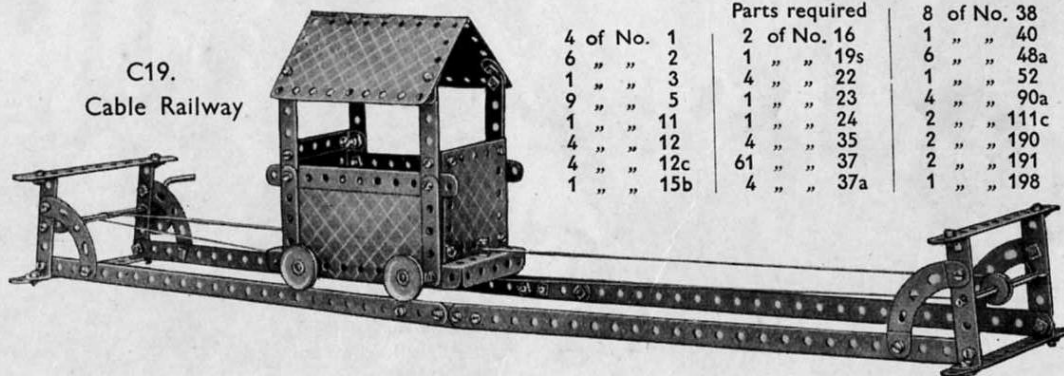
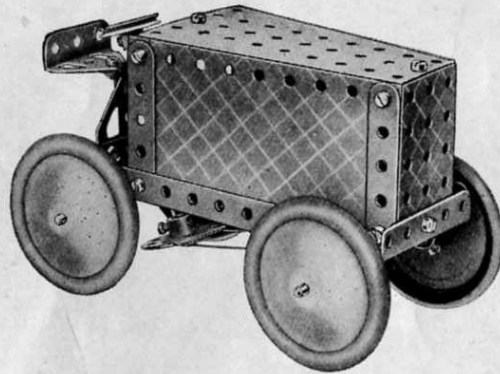


Fig. C18a

C19.  
Cable Railway

Parts required		8 of No.	38
4 of No.	1	1 "	40
6 "	2	6 "	48a
1 "	3	1 "	52
9 "	5	4 "	90a
1 "	11	2 "	111c
4 "	12	2 "	190
4 "	12c	2 "	191
1 "	15b	1 "	198
Parts required			
2 of No.	16		
1 "	19s		
4 "	22		
1 "	23		
1 "	24		
4 "	35		
61 "	37		
4 "	37a		

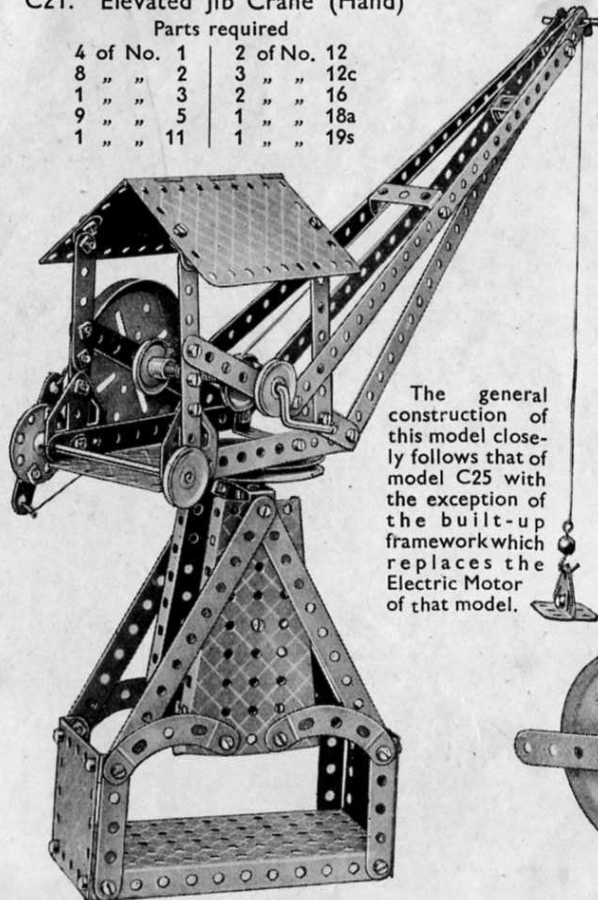
C20. Motor Tractor



Parts required	
4 of No. 5	
1 " " 10	
2 " " 12	
2 " " 15b	
1 " " 16	
1 " " 22	
1 " " 24	
1 " " 35	
18 " " 37	
2 " " 37a	
1 " " 40	
3 " " 48a	
1 " " 51	
1 " " 52	
1 " " 54a	
1 " " 111c	
1 " " 126	
1 " " 126a	
4 " " 187	
1 " " 191	

C21. Elevated Jib Crane (Hand)

Parts required	
4 of No. 1	2 of No. 12
8 " " 2	3 " " 12c
1 " " 3	2 " " 16
9 " " 5	1 " " 18a
1 " " 11	1 " " 19s

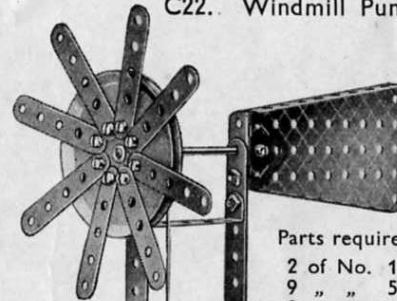


The general construction of this model closely follows that of model C25 with the exception of the built-up framework which replaces the Electric Motor of that model.

Parts required for C21 (continued)

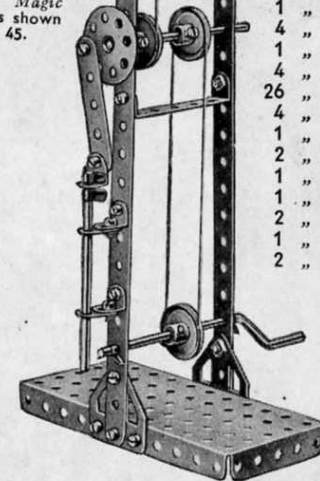
2 of No. 19b	
4 " " 22	
1 " " 23	
1 " " 24	
4 " " 35	
56 " " 37	
2 " " 37a	
4 " " 38	
1 " " 40	
1 " " 48	
6 " " 48a	
1 " " 52	
2 " " 54a	
1 " " 57c	
4 " " 90a	
2 " " 111c	
2 " " 126	
2 " " 126a	
1 " " 176	
2 " " 190	
1 " " 191	
1 " " 198	

C22. Windmill Pump



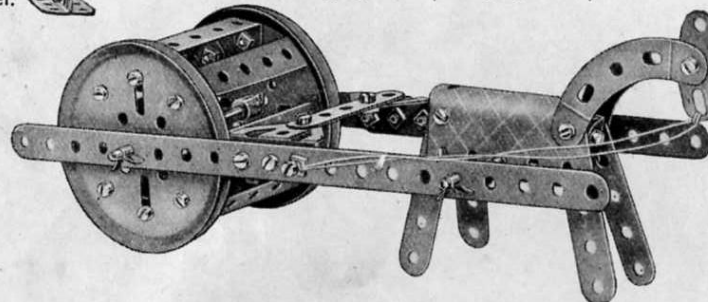
Parts required	
2 of No. 1	
9 " " 5	
2 " " 10	
3 " " 12	
3 " " 16	
1 " " 19s	
1 " " 19b	
4 " " 22	
1 " " 24	
4 " " 35	
26 " " 37	
4 " " 37a	
1 " " 40	
2 " " 48a	
1 " " 52	
1 " " 54a	
2 " " 111c	
1 " " 126	
2 " " 126a	

An alternative design of this model (C22M), fitted with the Meccano Magic Motor, is shown on page 45.

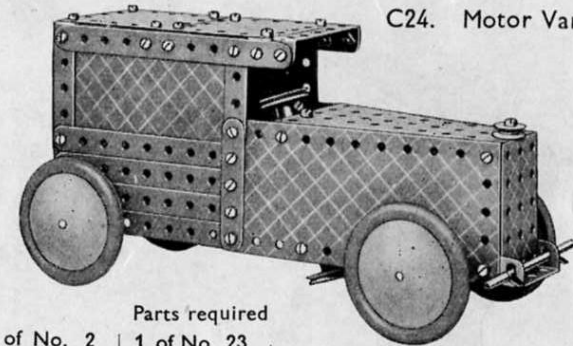


C23. Field Roller

Parts required	
4 of No. 2	1 of No. 16
7 " " 5	2 " " 19b
2 " " 10	6 " " 35
8 " " 12	34 " " 37
1 " " 15b	2 " " 37a
	1 " " 40
	6 of No. 48a
	2 " " 90a
	1 " " 111c
	2 " " 126
	1 " " 190

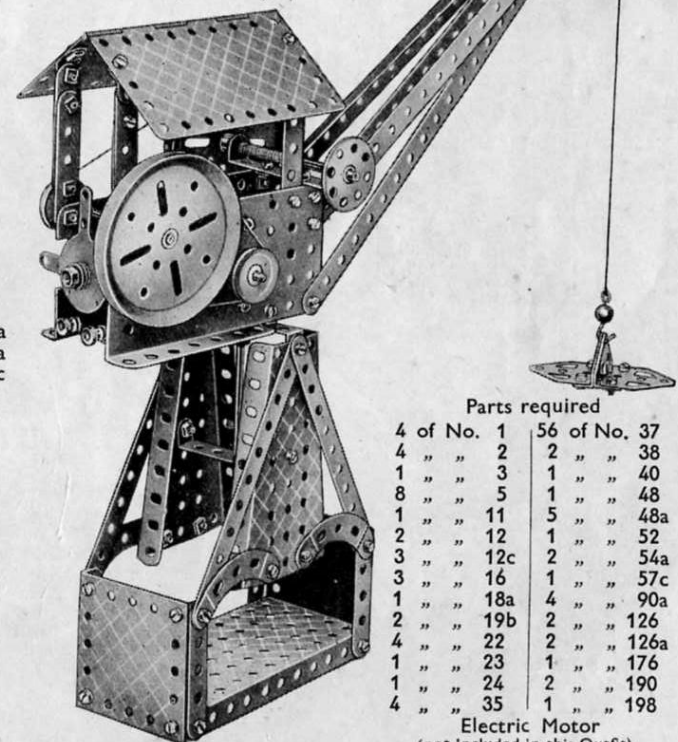


C24. Motor Van



Parts required	
8 of No. 2	1 of No. 23
1 " " 3	4 " " 35
9 " " 5	51 " " 37
1 " " 10	3 " " 37a
4 " " 12	1 " " 38
2 " " 15b	6 " " 48a
2 " " 16	1 " " 51
2 " " 22	1 " " 52
	2 of No. 54a
	3 " " 111c
	4 " " 187
	4 " " 190
	2 " " 191
	2 " " 192

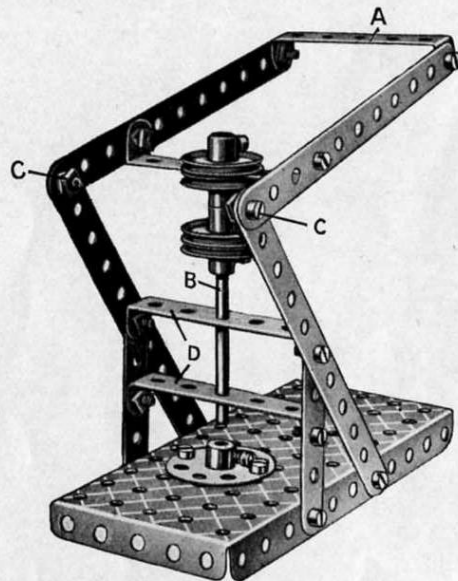
C25. Elevated Jib Crane (Electric)



Parts required	
4 of No. 1	56 of No. 37
4 " " 2	2 " " 38
1 " " 3	1 " " 40
8 " " 5	1 " " 48
1 " " 11	5 " " 48a
2 " " 12	1 " " 52
3 " " 12c	2 " " 54a
3 " " 16	1 " " 57c
1 " " 18a	4 " " 90a
2 " " 19b	2 " " 126
4 " " 22	2 " " 126a
1 " " 23	1 " " 176
1 " " 24	2 " " 190
4 " " 35	1 " " 198

Electric Motor  
(not included in this Outfit).





C26.  
Punching  
Machine

Parts required

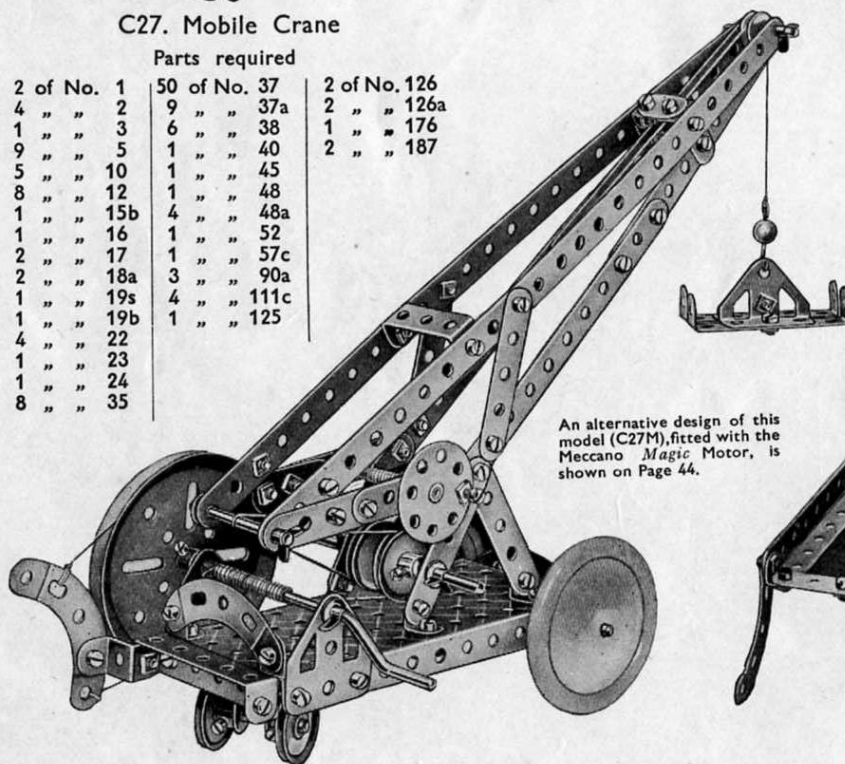
4 of No. 2
2 " " 5
1 " " 16
4 " " 22
1 " " 24
16 " " 37
4 " " 37a
4 " " 48a
1 " " 52

The punch B, a  $3\frac{1}{2}$ " Rod, slides vertically in two  $2\frac{1}{2}$ " x  $\frac{1}{2}$ " Double Angle Strips D. The operating handle A is pivoted at the points C.

C27. Mobile Crane

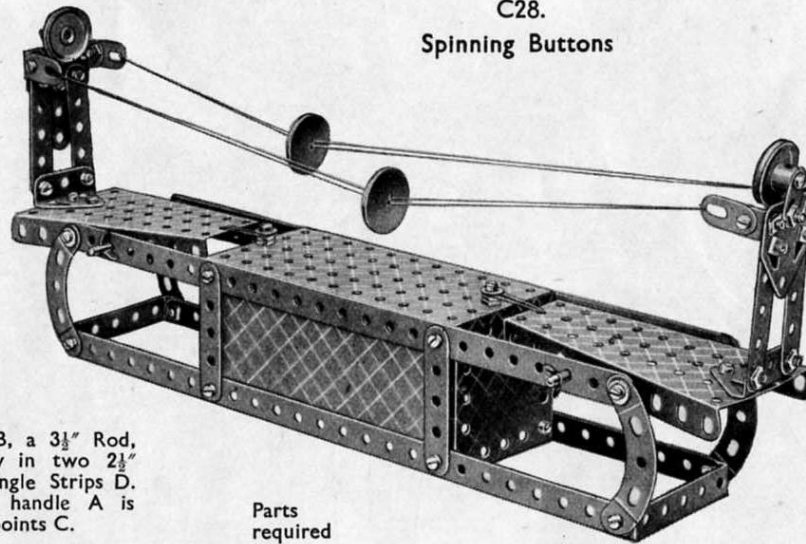
Parts required

2 of No. 1	50 of No. 37	2 of No. 126
4 " " 2	9 " " 37a	2 " " 126a
1 " " 3	6 " " 38	1 " " 176
9 " " 5	1 " " 40	2 " " 187
5 " " 10	1 " " 45	
8 " " 12	1 " " 48	
1 " " 15b	4 " " 48a	
1 " " 16	1 " " 52	
2 " " 17	1 " " 57c	
2 " " 18a	3 " " 90a	
1 " " 19s	4 " " 111c	
1 " " 19b	1 " " 125	
4 " " 22		
1 " " 23		
1 " " 24		
8 " " 35		



An alternative design of this model (C27M), fitted with the Meccano Magic Motor, is shown on Page 44.

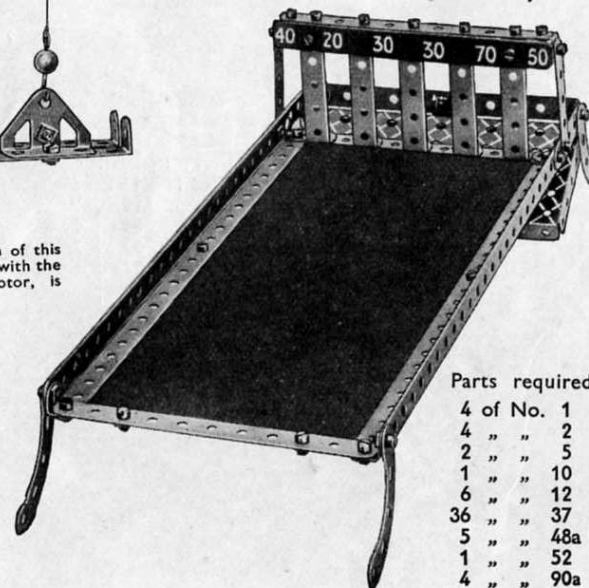
C28.  
Spinning Buttons



Parts required

4 of No. 1	47 of No. 37	4 of No. 90a
9 " " 5	6 " " 37a	4 " " 111c
5 " " 10	6 " " 38	2 " " 126
4 " " 12	4 " " 48a	2 " " 126a
2 " " 16	1 " " 52	2 " " 190
2 " " 22	2 " " 54a	2 " " 192
4 " " 35		

C29. Box Ball Alley



Parts required

4 of No. 1
4 " " 2
2 " " 5
1 " " 10
6 " " 12
36 " " 37
5 " " 48a
1 " " 52
4 " " 90a

C30.  
Gramophone

Parts required

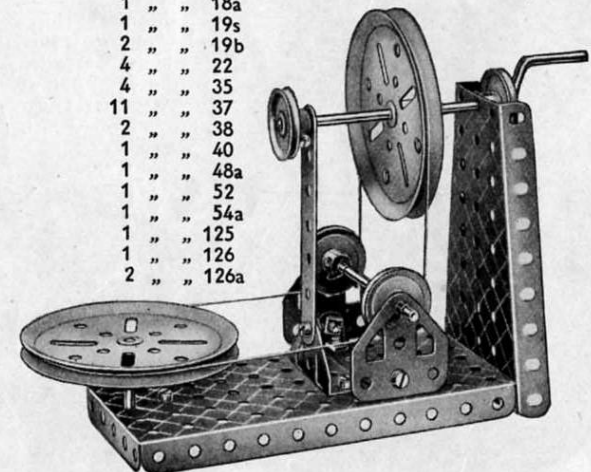
4 of No. 2
5 " " 5
2 " " 10
4 " " 12
1 " " 23
1 " " 24
29 " " 37
5 " " 37a
5 " " 48a
1 " " 52
4 " " 111c
2 " " 126a
2 " " 190
2 " " 191



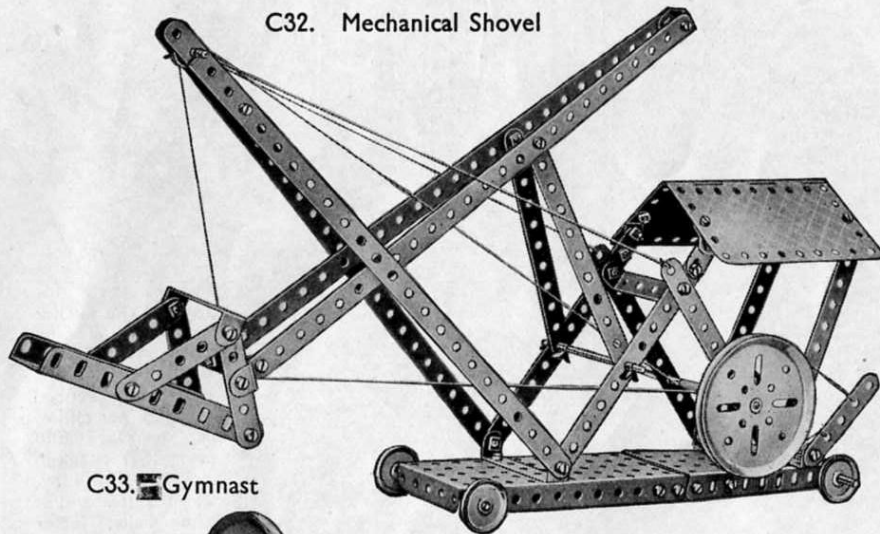
C31.  
Belt Gear

Parts required

1 of No. 3
1 " " 16
1 " " 18a
1 " " 19s
2 " " 19b
4 " " 22
4 " " 35
11 " " 37
2 " " 38
1 " " 40
1 " " 48a
1 " " 52
1 " " 54a
1 " " 125
1 " " 126
2 " " 126a

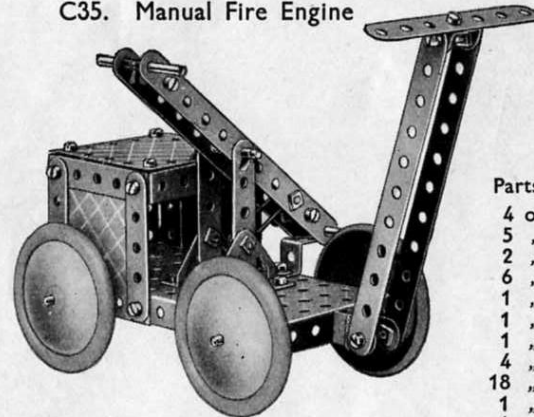


C32. Mechanical Shovel



Parts required	
4 of No. 1	
8 " " 2	
7 " " 5	
2 " " 10	
2 " " 11	
4 " " 12c	
3 " " 16	
1 " " 18a	
1 " " 19s	
1 " " 19b	
4 " " 22	
1 " " 23	
1 " " 24	
6 " " 35	
46 " " 37	
5 " " 37a	
1 " " 40	
1 " " 48	
1 " " 48a	
6 " " 52	
1 " " 54a	
2 " " 111c	
1 " " 176	
1 " " 198	

C35. Manual Fire Engine

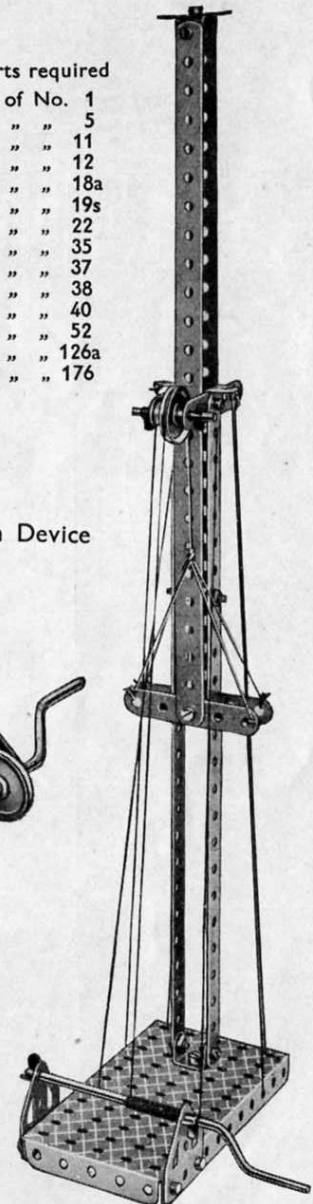


Parts required	
4 of No. 1	
5 " " 5	
2 " " 11	
6 " " 12	
1 " " 18a	
1 " " 19s	
1 " " 22	
4 " " 35	
18 " " 37	
1 " " 38	
1 " " 40	
1 " " 52	
2 " " 126a	
1 " " 176	

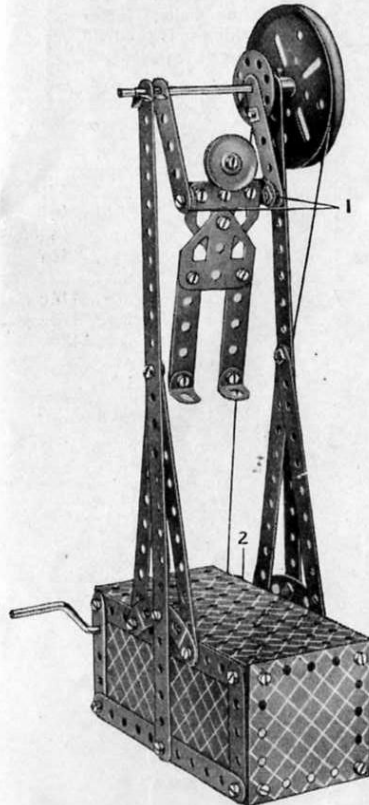
Parts required

4 of No. 2		1 of No. 18a	1 of No. 52
1 " " 3		6 " " 35	2 " " 111c
8 " " 5		34 " " 37	1 " " 125
2 " " 11		6 " " 37a	2 " " 126
6 " " 12		1 " " 38	1 " " 186
2 " " 15b		1 " " 45	4 " " 187
2 " " 17		2 " " 48a	4 " " 190

C36. Telescopic Mast



C33. Gymnast



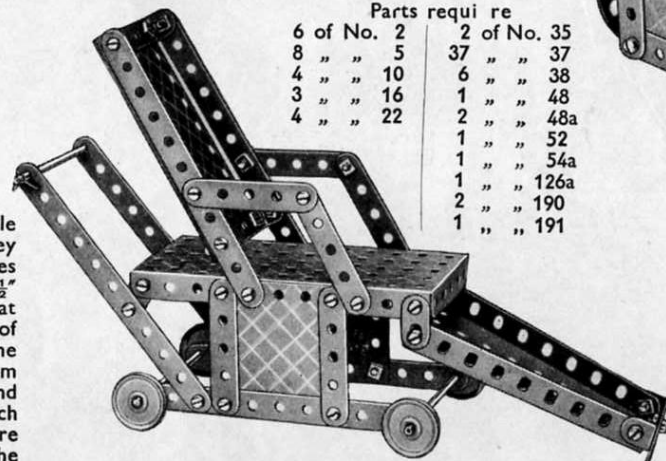
Parts required

2 of No. 1	
8 " " 2	
8 " " 5	
1 " " 10	
4 " " 12	
1 " " 15b	
1 " " 19s	
1 " " 19b	
2 " " 22	
1 " " 24	
2 " " 35	
36 " " 37	
2 " " 37a	
2 " " 38	
1 " " 40	
2 " " 48a	
1 " " 52	
2 " " 90a	
1 " " 111c	
2 " " 126a	
2 " " 190	
2 " " 192	

A Crank Handle carries a 1" Pulley Wheel 2 that drives a 3" Pulley on a 3½" Rod journalled at the top of a pair of 12½" Strips. The gymnast hangs from the Axle Rod, and the bolts 1 on which the arms pivot are each locked to the body by two nuts.

The digging arm is carried on two pivotally attached 5½" Strips in order to give the bucket a direct vertical movement. The cord from the bucket is passed over the jib-head Pulley and wound round a Crank Handle, its other end also being tied to the bucket. The Crank Handle is controlled by the band brake shown in the photograph.

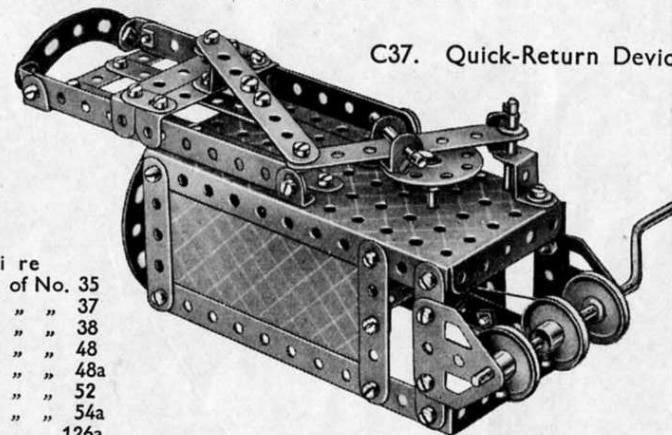
C34. Invalid Chair



Parts required

6 of No. 2		2 of No. 35
8 " " 5		37 " " 37
4 " " 10		6 " " 38
3 " " 16		1 " " 48
4 " " 22		2 " " 48a
		1 " " 52
		1 " " 54a
		1 " " 126a
		2 " " 190
		1 " " 191

C37. Quick-Return Device

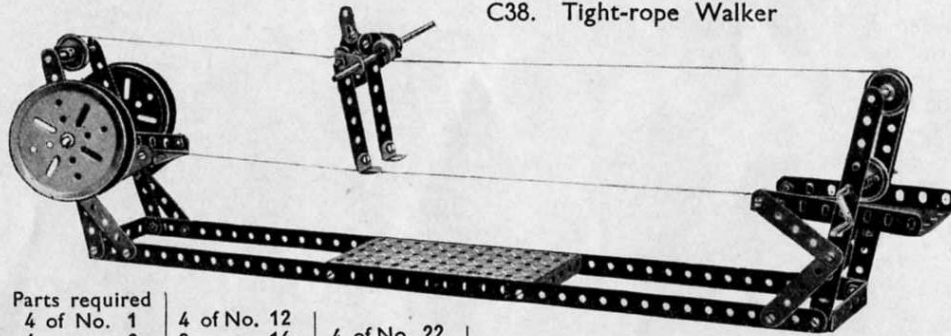


Parts required

6 of No. 2		46 of No. 37
1 " " 3		4 " " 37a
8 " " 5		4 " " 38
2 " " 10		6 " " 48a
2 " " 11		1 " " 52
4 " " 12		3 " " 90a
2 " " 17		1 " " 111c
1 " " 18a		1 " " 125
1 " " 19s		2 " " 126a
4 " " 22		1 " " 186
1 " " 24		1 " " 190
6 " " 35		2 " " 191



C38. Tight-rope Walker



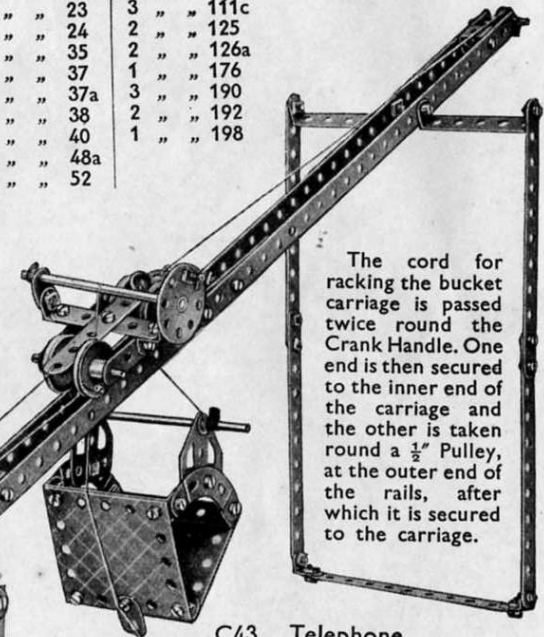
## Parts required

4 of No. 1	4 of No. 12	4 of No. 22	6 of No. 38	1 of No. 52	1 of No. 126a
4 " " 2	2 " " 16	1 " " 23	1 " " 40	2 " " 54a	
1 " " 3	2 " " 17	1 " " 23	1 " " 40	2 " " 54a	
9 " " 5	1 " " 19s	8 " " 35	2 " " 48a		
3 " " 10	2 " " 19b	32 " " 37			

The endless cord is first passed round four 1" fast Pulleys the two ends then being attached to one foot of the figure that is supported by a 1/2" Pulley running along the upper section of the cord.

4 of No. 1	4 of No. 22	4 of No. 90a
7 " " 2	1 " " 23	3 " " 111c
1 " " 3	1 " " 24	2 " " 125
9 " " 5	8 " " 35	2 " " 126a
5 " " 10	66 " " 37	1 " " 176
2 " " 11	5 " " 37a	3 " " 190
6 " " 12	3 " " 38	2 " " 192
2 " " 12c	1 " " 40	1 " " 198
1 " " 15b	5 " " 48a	
2 " " 16	1 " " 52	
2 " " 17		
1 " " 18a		
1 " " 19s		
2 " " 19b		

C42. Extended Ash Tip

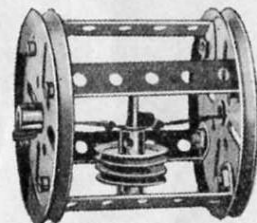


The cord for racking the bucket carriage is passed twice round the Crank Handle. One end is then secured to the inner end of the carriage and the other is taken round a 1/2" Pulley, at the outer end of the rails, after which it is secured to the carriage.

C39. Guillotine

## Parts required

2 of No. 1
1 " " 3
9 " " 5
2 " " 10
2 " " 11
1 " " 16
1 " " 22
2 " " 35
24 " " 37
6 " " 38
1 " " 40
3 " " 48a
1 " " 52



C40. Cum Bak

## Parts required

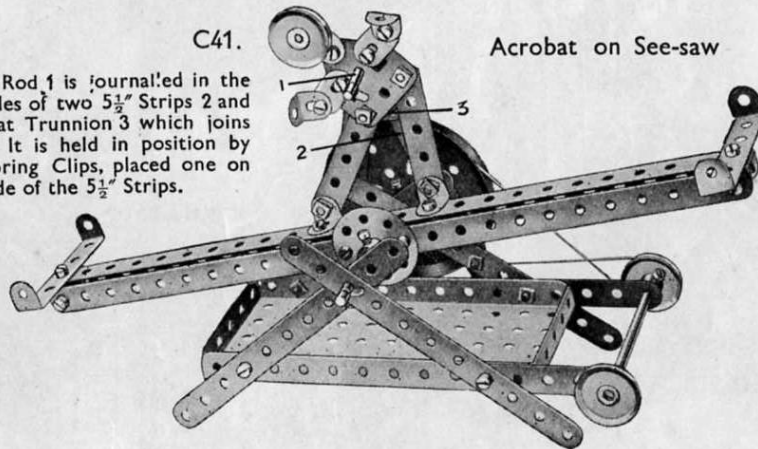
1 of No. 18a
2 " " 19b
2 " " 22
1 " " 35
8 " " 37
4 " " 48a
1 " " 186

A Driving Band is doubled and stretched between the centres of the 3" Pulley Wheels. A weight, consisting of two 1" fast Pulley Wheels and a 1 1/2" Rod, is suspended from it in the middle of the drum. When the Cum Bak is rolled along any smooth level surface, the elastic becomes twisted and stores up sufficient energy to return the drum to its starting point. If the mechanism is concealed by a thin cardboard covering, the model will cause much amusement by its mystifying behaviour.

C41. Acrobat on See-saw

Acrobat on See-saw

A 1" Rod 1 is 'journalled' in the end holes of two 5 1/2" Strips 2 and in a Flat Trunnion 3 which joins them. It is held in position by two Spring Clips, placed one on each side of the 5 1/2" Strips.



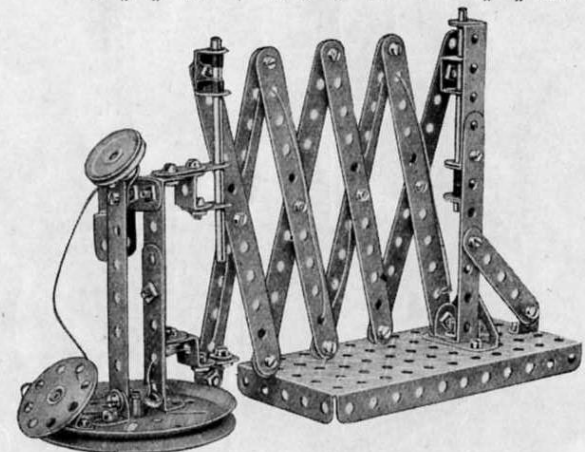
## Parts required

3 of No. 1
6 " " 2
4 " " 5
3 " " 10
2 " " 11
4 " " 12
2 " " 16
1 " " 18a
1 " " 19b
3 " " 22
1 " " 24
5 " " 35
25 " " 37
4 " " 37a
2 " " 38
1 " " 40
2 " " 48a
1 " " 52
1 " " 111c
1 " " 126a

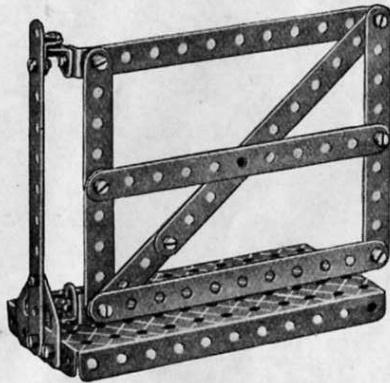
C43. Telephone

## Parts required

8 of No. 2	1 of No. 19b	1 of No. 40
1 " " 3	1 " " 22	1 " " 44
4 " " 5	1 " " 24	5 " " 48a
5 " " 10	4 " " 35	1 " " 52
2 " " 11	37 " " 37	4 " " 111c
8 " " 12	20 " " 37a	2 " " 125
2 " " 16	4 " " 38	1 " " 126



C44. Gate



## Parts required

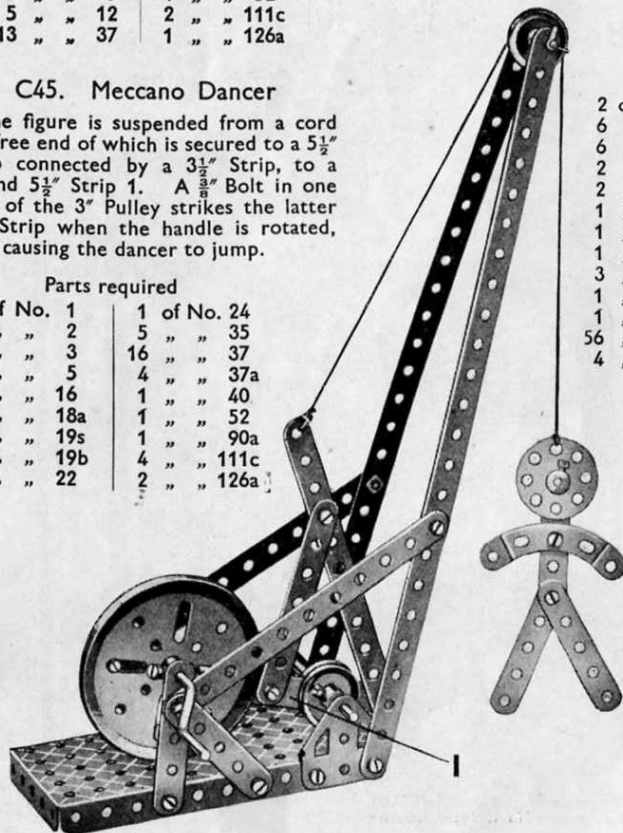
5 of No. 2	4 of No. 37a
5 " " 5	1 " " 52
5 " " 12	2 " " 111c
13 " " 37	1 " " 126a

C45. Meccano Dancer

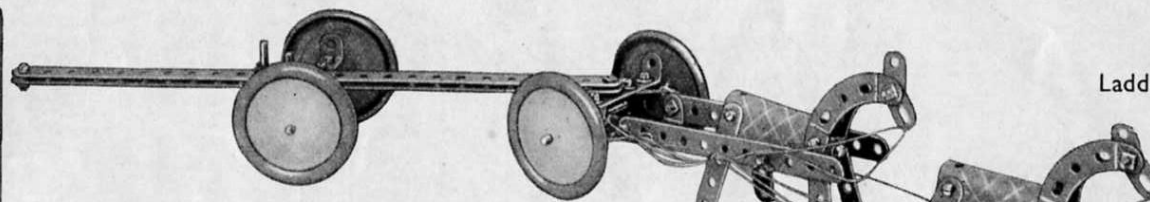
The figure is suspended from a cord the free end of which is secured to a  $5\frac{1}{2}$ " Strip connected by a  $3\frac{1}{2}$ " Strip, to a second  $5\frac{1}{2}$ " Strip 1. A Bolt in one hole of the 3" Pulley strikes the latter  $5\frac{1}{2}$ " Strip when the handle is rotated, thus causing the dancer to jump.

## Parts required

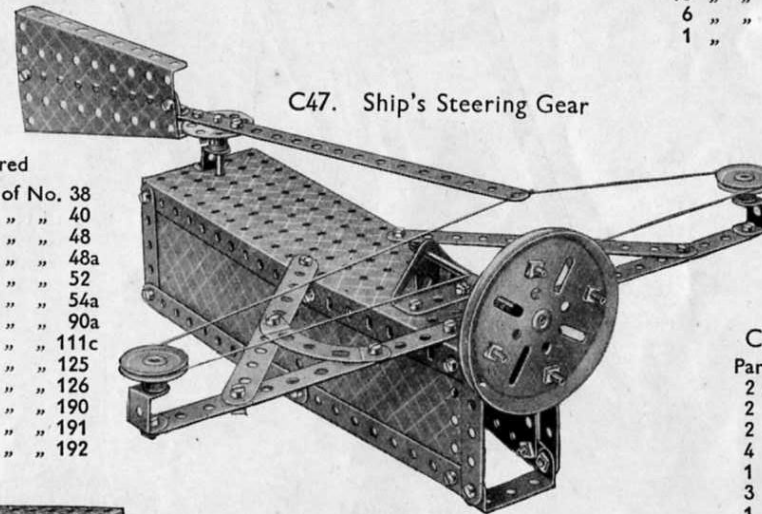
2 of No. 1	1 of No. 24
4 " " 2	5 " " 35
1 " " 3	16 " " 37
7 " " 5	4 " " 37a
1 " " 16	1 " " 40
1 " " 18a	1 " " 52
1 " " 19s	1 " " 90a
1 " " 19b	4 " " 111c
3 " " 22	2 " " 126a



C46. Timber Drag



Parts required	8 of No. 12	3 of No. 37a	2 of No. 111c
2 of No. 1	2 " " 15b	8 " " 38	2 " " 126
2 " " 2	2 " " 17	1 " " 40	2 " " 126a
8 " " 5	2 " " 18a	1 " " 48	4 " " 187
4 " " 10	8 " " 35	3 " " 48a	2 " " 190
2 " " 11	27 " " 37	4 " " 90a	



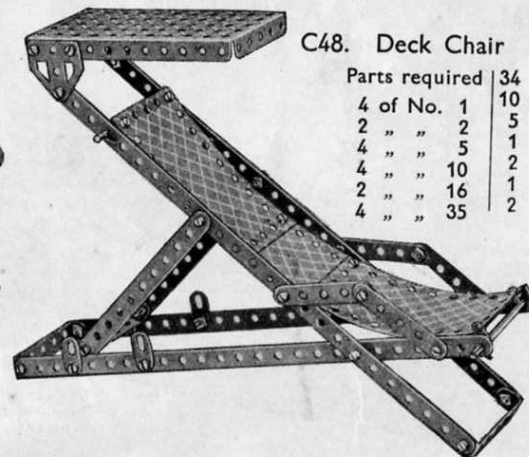
C47. Ship's Steering Gear

## Parts required

2 of No. 1	5 of No. 38
6 " " 2	1 " " 40
6 " " 5	1 " " 48
2 " " 11	1 " " 48a
2 " " 12	1 " " 52
1 " " 16	2 " " 54a
1 " " 18a	2 " " 90a
1 " " 19b	6 " " 111c
3 " " 22	1 " " 125
1 " " 24	2 " " 126
1 " " 35	1 " " 190
56 " " 37	2 " " 191
4 " " 37a	2 " " 192

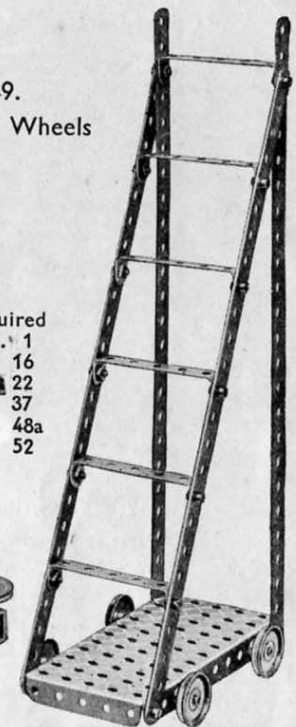
C48. Deck Chair

Parts required	34 of No. 37
4 of No. 1	10 " " 37a
2 " " 2	5 " " 48a
4 " " 5	1 " " 52
4 " " 10	2 " " 126a
2 " " 16	1 " " 190
4 " " 35	2 " " 191



C49.

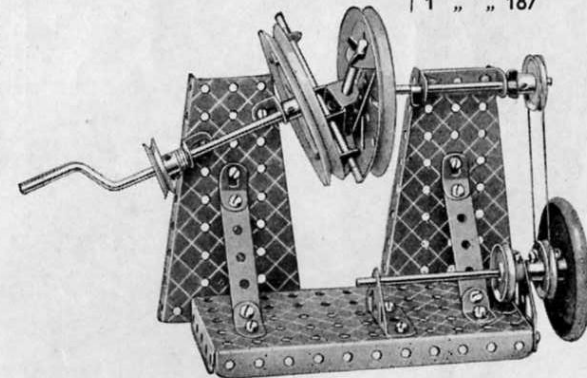
Ladder on Wheels



Parts required	4 of No. 1
2 " " 16	
4 " " 22	
16 " " 37	
6 " " 48a	
1 " " 52	

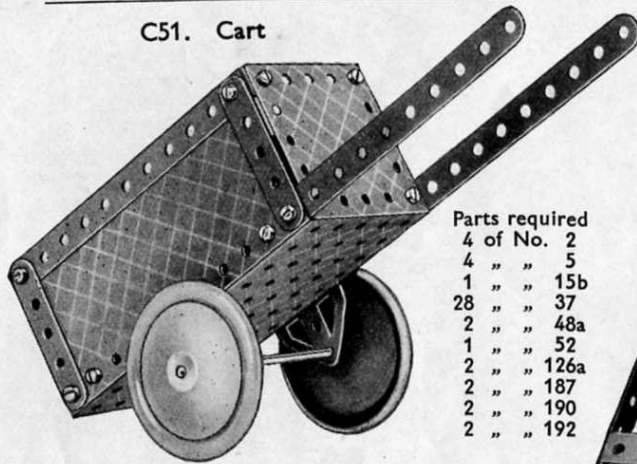
C50. Hooke's Coupling

Parts required	6 of No. 35
2 of No. 5	24 " " 37
2 " " 11	3 " " 38
2 " " 12	1 " " 40
4 " " 12c	1 " " 48
1 " " 15b	2 " " 48a
3 " " 16	1 " " 52
1 " " 19s	2 " " 54a
2 " " 19b	1 " " 126
4 " " 22	1 " " 126a
	1 " " 187





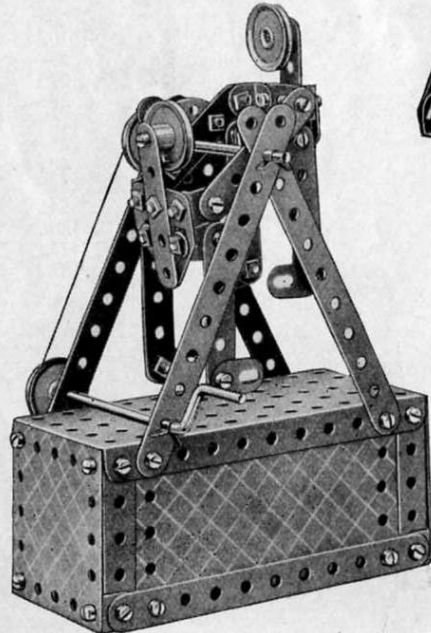
C51. Cart



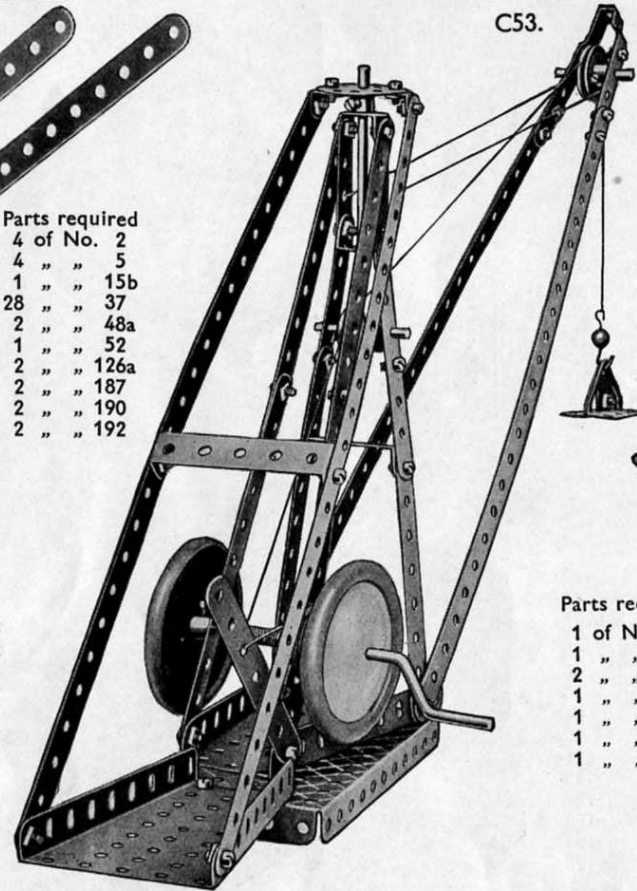
Parts required	
4 of No. 2	5
4 " " 4	15b
1 " " 1	37
28 " " 2	48a
2 " " 1	52
2 " " 2	126a
2 " " 2	187
2 " " 2	190
2 " " 2	192

C52. Wrestlers

Parts required			
6 of No. 2	4 of No. 22	6 of No. 48a	
8 " " 5	1 " " 24	1 " " 52	
4 " " 10	2 " " 35	6 " " 111c	
8 " " 12	44 " " 37	2 " " 126a	
1 " " 16	12 " " 37a	2 " " 190	
1 " " 19s	6 " " 38	2 " " 191	
	1 " " 40		



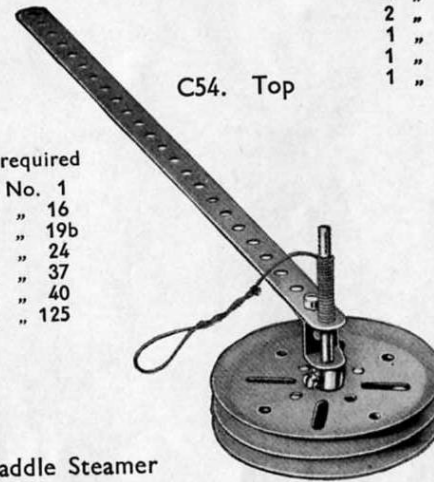
C53. Jib Crane



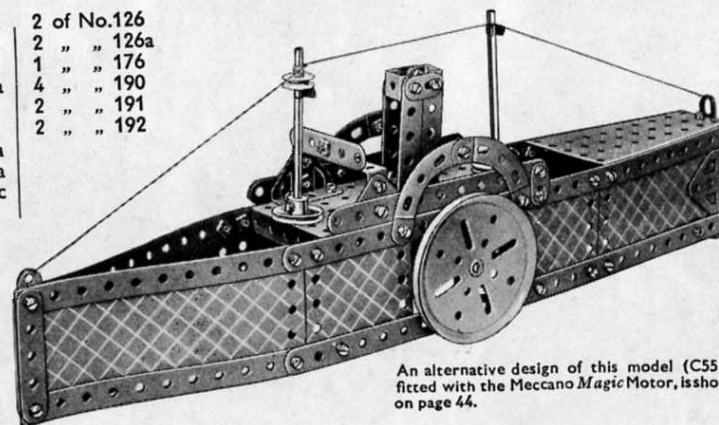
Parts required		32 of No. 37	
4 of No. 1	2	" " 37a	
8 " " 2	3	" " 38	
1 " " 3	1	" " 40	
2 " " 5	1	" " 44	
2 " " 11	1	" " 48	
2 " " 12	1	" " 48a	
1 " " 16	1	" " 52	
1 " " 17	2	" " 54a	
2 " " 18a	1	" " 57c	
1 " " 19s	1	" " 111c	
4 " " 22	2	" " 126	
1 " " 23	1	" " 176	
1 " " 24	2	" " 187	
3 " " 35			

C54. Top

Parts required	
1 of No. 1	16
1 " " 2	19b
1 " " 1	24
1 " " 1	37
1 " " 1	40
1 " " 1	125



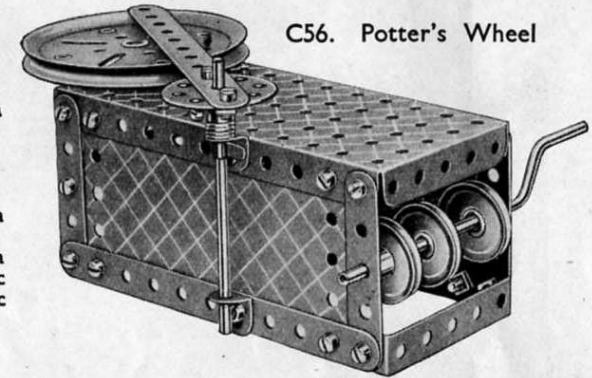
C55. Paddle Steamer



Parts required			
4 of No. 1	2 of No. 37a	2 of No. 126	
6 " " 2	1 " " 40	2 " " 126a	
9 " " 5	1 " " 48	1 " " 176	
5 " " 10	3 " " 48a	4 " " 190	
2 " " 11	1 " " 51	2 " " 191	
4 " " 12	1 " " 52	2 " " 192	
1 " " 15b	1 " " 54a		
2 " " 16	4 " " 90a		
1 " " 17	2 " " 111c		
1 " " 19b			
3 " " 22			
1 " " 23			
6 " " 35			
58 " " 37			

An alternative design of this model (C55M), fitted with the Meccano Magic Motor, is shown on page 44.

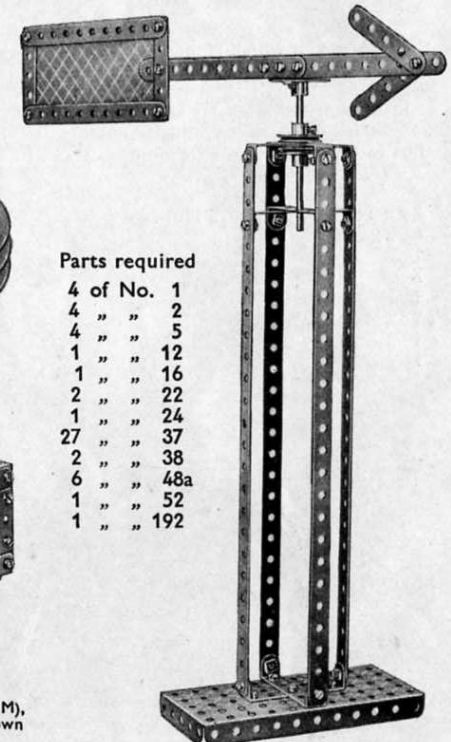
C56. Potter's Wheel



Parts required

3 of No. 2		1 of No. 19b	1 of No. 40
4 " " 5	4 " " 22	2 " " 48a	
2 " " 12	1 " " 35	1 " " 52	
1 " " 16	1 " " 37	2 " " 191	
1 " " 17	22 " " 37		
1 " " 19s	5 " " 38		

C57. Weather Vane



Parts required

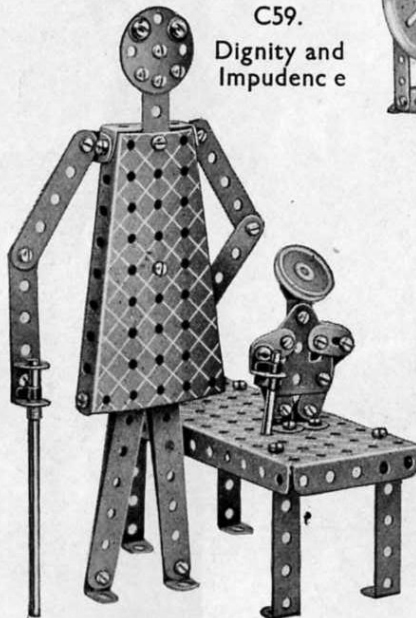
4 of No. 1	
4 " " 2	5
1 " " 12	16
2 " " 1	22
1 " " 24	37
27 " " 2	38
6 " " 6	48a
1 " " 1	52
1 " " 1	192

C58. Telpher Span (Electric)

Parts required		
4 of No. 1	8 of No. 5	1 of No. 24
6 " " 2	2 " " 11	8 " " 35
1 " " 3	8 " " 12	61 " " 37
	2 " " 12c	4 " " 37a
	2 " " 16	7 " " 38
	1 " " 17	1 " " 40
	1 " " 18a	1 " " 48
	2 " " 19b	3 " " 48a
	4 " " 22	1 " " 52
	1 " " 23	2 " " 54a
		2 " " 90a
		2 " " 111c
		2 " " 126
		2 " " 126a
		1 " " 176
		2 " " 191
		1 " " 198
		E6. Electric Motor (not included in Outfit)

A 3" Pulley, driven from a 1" Pulley on the armature shaft, rotates a second 1" Pulley that in turn operates the 3" Pulley driving the winding shaft.

C59. Dignity and Impudence



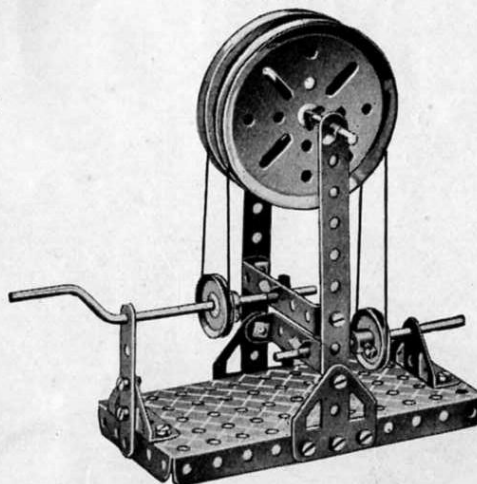
Parts required		
5 of No. 2		
3 " " 5		
5 " " 10		
2 " " 11		
8 " " 12		
1 " " 16		
1 " " 17		
2 " " 22		
4 " " 35		
31 " " 37		
1 " " 48		
4 " " 48a		
1 " " 52		
2 " " 54a		
2 " " 111c		
2 " " 125		
1 " " 126a		

C60. Telpher Span (Hand)

Parts required		
4 of No. 1	2 of No. 11	1 of No. 23
6 " " 2	8 " " 12	1 " " 24
1 " " 3	2 " " 12c	6 " " 35
8 " " 5	2 " " 16	53 " " 37
	1 " " 17	4 " " 37a
	1 " " 18a	5 " " 38
	1 " " 19s	1 " " 40
	2 " " 19b	1 " " 48
	4 " " 22	3 " " 48a
		1 " " 52
		2 " " 54a
		2 " " 90a
		2 " " 111c
		2 " " 126
		2 " " 126a
		1 " " 176
		2 " " 191
		1 " " 198

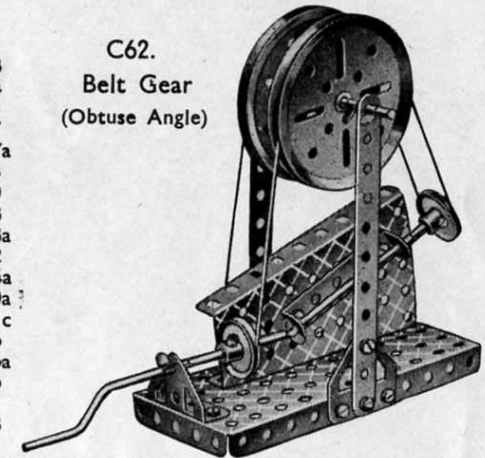
A 3" Pulley on the Crank Handle is connected by a cord to a similar Pulley on the winding shaft that is also fitted with a 1" Pulley carrying the operating cord

C61. Belt Gear (Shafts not in Line)



Parts required		
2 of No. 2		
1 " " 5		
2 " " 16		
1 " " 19s		
2 " " 19b		
2 " " 22		
8 " " 35		
16 " " 37		
1 " " 40		
2 " " 48a		
1 " " 52		
2 " " 126		
2 " " 126a		

C62. Belt Gear (Obtuse Angle)



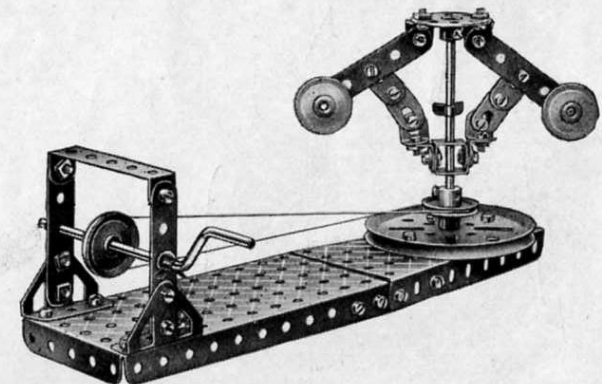
Parts required

2 of No. 2	2 of No. 38
1 " " 12	1 " " 40
2 " " 16	1 " " 48a
1 " " 19s	1 " " 52
2 " " 19b	1 " " 54a
2 " " 22	1 " " 126
8 " " 35	2 " " 126a
15 " " 37	

C63. Centrifugal Governor

Parts required

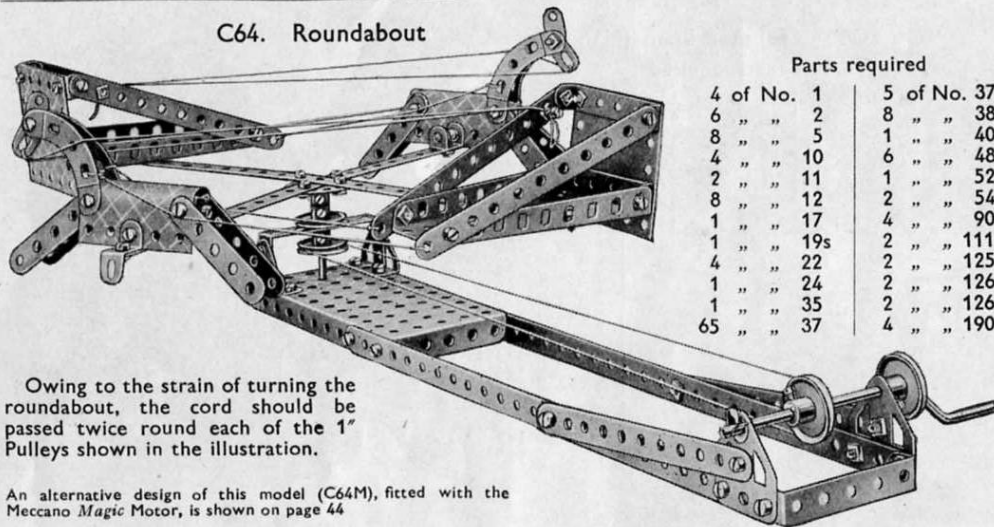
6 of No. 5	32 of No. 37
4 " " 10	10 " " 37a
2 " " 11	8 " " 38
6 " " 12	1 " " 40
1 " " 15b	1 " " 48a
1 " " 19s	1 " " 52
1 " " 19b	1 " " 54a
4 " " 22	4 " " 111c
1 " " 24	2 " " 126
3 " " 35	





These Models can be built with **MECCANO Outfit C** (or Outfits B and Ba)

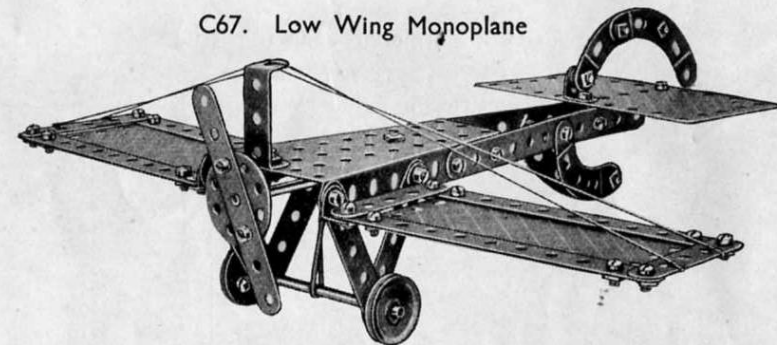
C64. Roundabout



## Parts required

4 of No. 1	5 of No. 37a
6 " " 2	8 " " 38
8 " " 5	1 " " 40
4 " " 10	6 " " 48a
2 " " 11	1 " " 52
8 " " 12	2 " " 54a
1 " " 17	4 " " 90a
1 " " 19s	2 " " 111c
4 " " 22	2 " " 125
1 " " 24	2 " " 126
1 " " 35	2 " " 126a
65 " " 37	4 " " 190

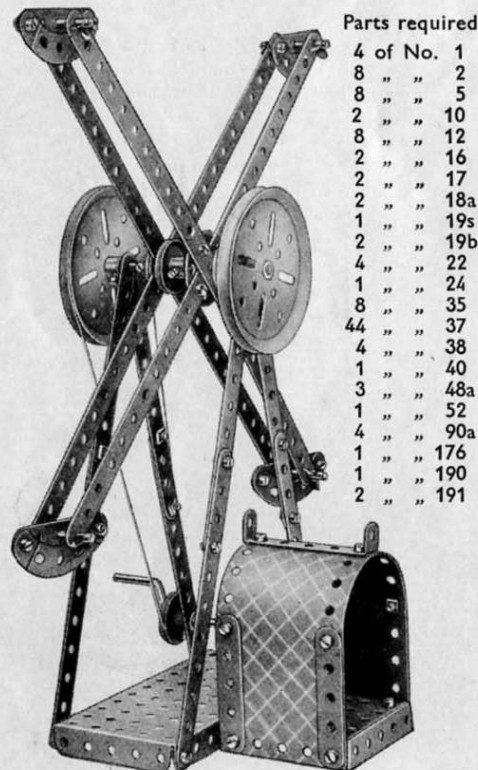
C67. Low Wing Monoplane



## Parts required

6 of No. 2	2 of No. 16	2 of No. 37a	4 of No. 90a
1 " " 3	2 " " 22	8 " " 38	2 " " 111c
8 " " 5	1 " " 24	1 " " 40	1 " " 186
1 " " 11	1 " " 35	1 " " 48	2 " " 190
7 " " 12	36 " " 37	1 " " 54a	2 " " 191

C65. Fly Boats

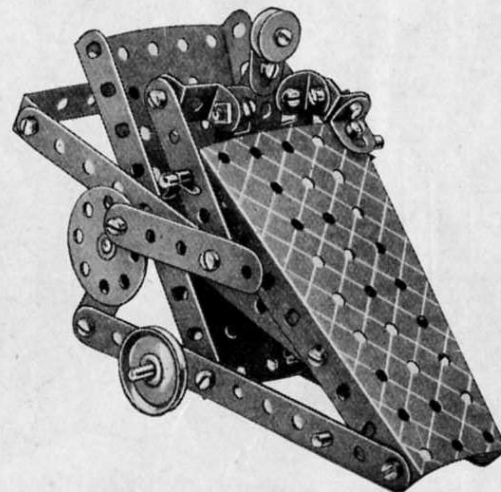


## Parts required

4 of No. 1
8 " " 2
8 " " 5
2 " " 10
8 " " 12
2 " " 16
2 " " 17
2 " " 18a
1 " " 19s
2 " " 19b
4 " " 22
1 " " 24
8 " " 35
44 " " 37
4 " " 38
1 " " 40
3 " " 48a
1 " " 52
4 " " 90a
1 " " 176
1 " " 190
2 " " 191

C66. The Invalid

When wheeled along the table the "invalid" appears to push himself energetically along. His neck is a Flat Bracket: his right (or propelling) arm consists of one Angle Bracket and one  $\frac{1}{2}$ " Reversed Angle Bracket, and his left arm—the hand of which is bolted loosely to the chair—is formed by three Angle Brackets. The chair is composed principally of two Sector Plates and four  $5\frac{1}{2}$ " Strips, and it runs on three 1" Pulley Wheels—one in front and two at the back. One of these, not shown, is connected by means of a Driving Band to a third 1" Pulley Wheel, the shaft of which carries also a Bush Wheel. As will be seen, a  $2\frac{1}{2}$ " Strip is pivoted at one end to this Bush Wheel and at the other end to a second  $2\frac{1}{2}$ " Strip which, rocking about an axle journaled through its centre hole is again pivoted to the invalid's hands.



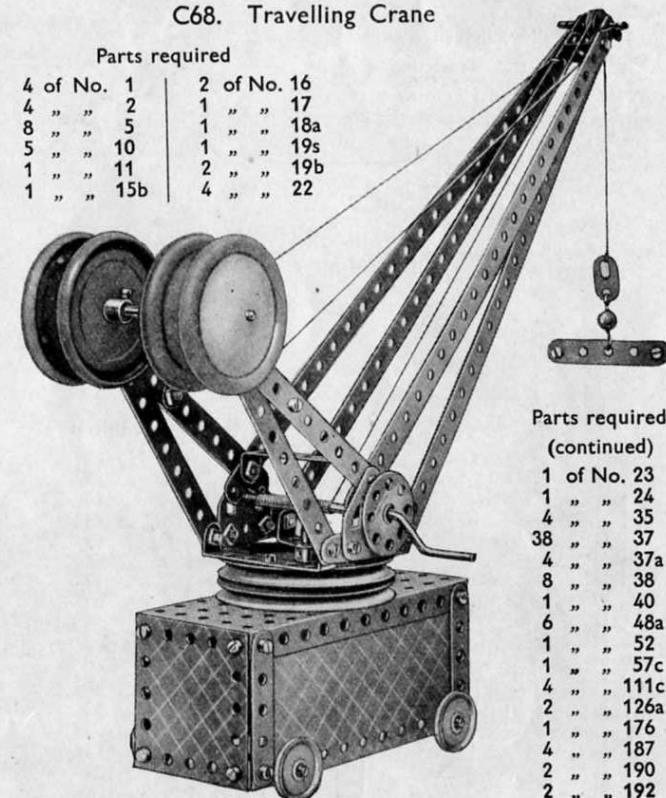
## Parts required

4 of No. 2
4 " " 5
1 " " 10
4 " " 12
3 " " 16
1 " " 17
4 " " 22
1 " " 23
1 " " 24
4 " " 35
22 " " 37
5 " " 37a
4 " " 38
1 " " 48a
2 " " 54a
1 " " 111c
1 " " 125
1 " " 126a
1 " " 186

C68. Travelling Crane

## Parts required

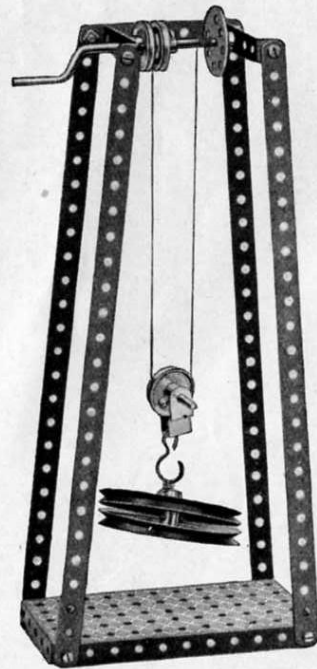
4 of No. 1	2 of No. 16
4 " " 2	1 " " 17
8 " " 5	1 " " 18a
5 " " 10	1 " " 19s
1 " " 11	2 " " 19b
1 " " 15b	4 " " 22

Parts required  
(continued)

1 of No. 23
1 " " 24
4 " " 35
38 " " 37
4 " " 37a
8 " " 38
1 " " 40
6 " " 48a
1 " " 52
1 " " 57c
4 " " 111c
2 " " 126a
1 " " 176
4 " " 187
2 " " 190
2 " " 192

An alternative design of this model (C65M), fitted with the Meccano Magic Motor, is shown on page 45

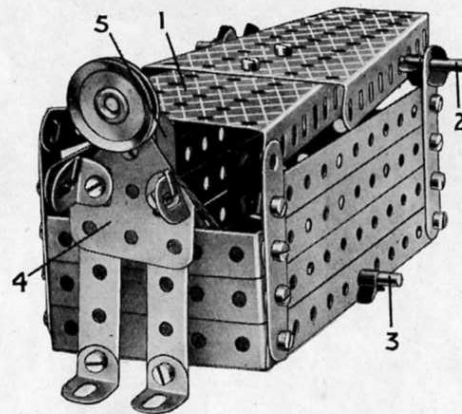
C69. Chinese Windlass



Parts required

4 of No. 1
1 " " 3
1 " " 18a
1 " " 19s
2 " " 19b
3 " " 22
1 " " 23
1 " " 24
8 " " 37
1 " " 40
1 " " 45
2 " " 48a
1 " " 52
1 " " 57c
1 " " 176

C71. Disappearing Meccanitian

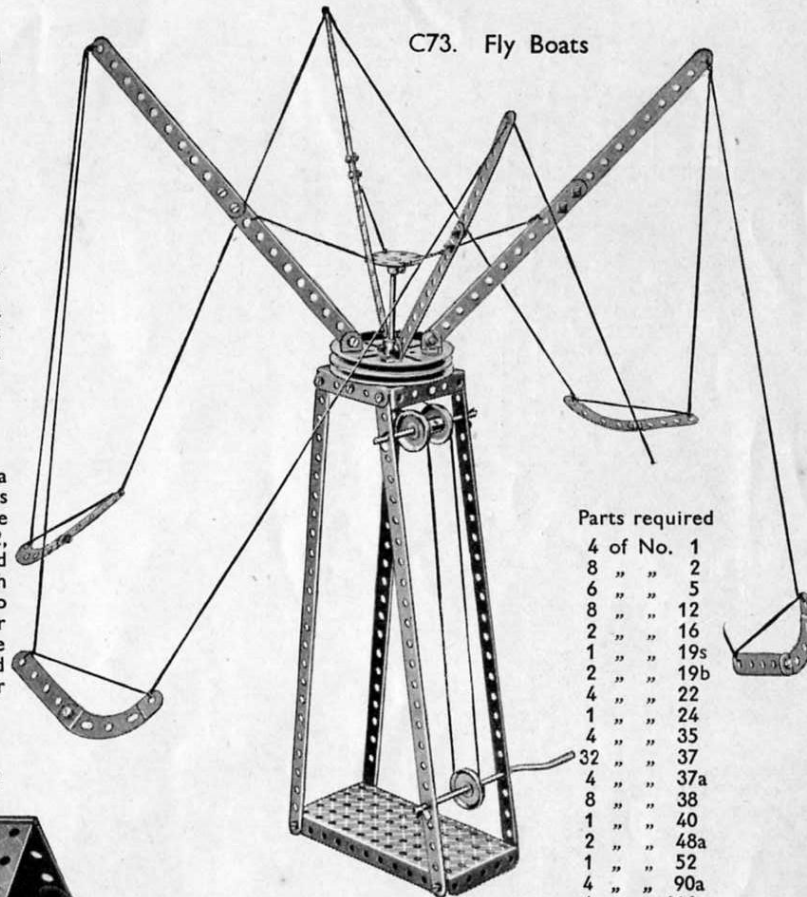


The bottom of the box-like portion of the model consists of a  $5\frac{1}{2}'' \times 2\frac{1}{2}''$  Flanged Plate; three  $5\frac{1}{2}''$  Strips bolted to upright  $2\frac{1}{2}''$  Strips form each side and each end consists of two  $2\frac{1}{2}'' \times \frac{1}{2}''$  Double Angle Strips. The lid 1, which is mounted pivotally on an Axle Rod 2, consists of two Sector Plates bolted together. Elastic bands are tied to the sides of these Plates and connected to Rod 3 passed through the bottom of the box. The "Meccanitian" 4 also is connected to this Rod by pieces of elastic. On pressing the end of the rear Sector Plate the lid opens sufficiently to allow the figure to be drawn inside and then snaps back into place. A Cranked Bent Strip 5 is bolted at the back of the figure and rests against the edge of the Sector Plate.

Parts required

6 of No. 2
6 " " 5
1 " " 10
4 " " 12
2 " " 16
1 " " 22
6 " " 35
23 " " 37
1 " " 45
6 " " 48a
1 " " 52
2 " " 54a
1 " " 111c
1 " " 126a
Four short lengths of elastic

C73. Fly Boats



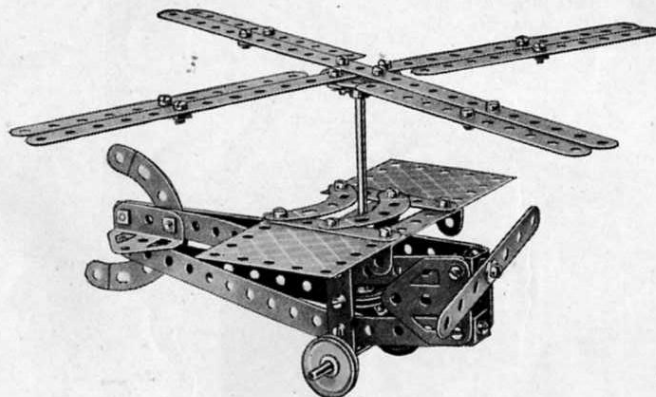
Parts required

4 of No. 1
8 " " 2
6 " " 5
8 " " 12
2 " " 16
1 " " 19s
2 " " 19b
4 " " 22
1 " " 24
4 " " 35
32 " " 37
4 " " 37a
8 " " 38
1 " " 40
2 " " 48a
1 " " 52
4 " " 90a
4 " " 111c

C70. Autogiro

Parts required

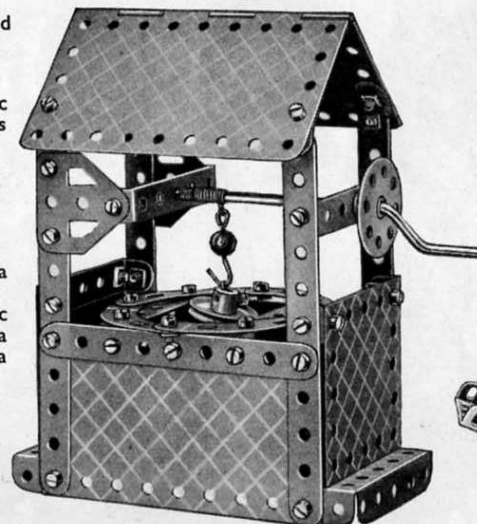
2 of No. 1	2 of No. 11	33 of No. 37	4 of No. 90a
8 " " 2	2 " " 12	3 " " 37a	2 " " 111c
1 " " 3	2 " " 16	7 " " 38	2 " " 126
9 " " 5	4 " " 22	1 " " 48	2 " " 126a
5 " " 10	1 " " 24	1 " " 48a	2 " " 190



C72. Well Windlass

Parts required

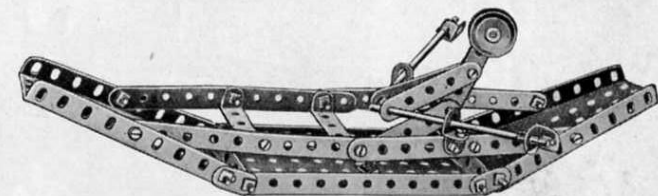
4 of No. 2
4 " " 5
4 " " 12c
1 " " 19s
1 " " 22
1 " " 24
1 " " 35
46 " " 37
1 " " 38
1 " " 40
6 " " 48a
1 " " 52
1 " " 57c
4 " " 90a
2 " " 126a
1 " " 176
2 " " 190
2 " " 191
1 " " 198



C74. Rowing Boat

Parts required

4 of No. 2	2 of No. 16	3 of No. 48a
4 " " 5	1 " " 22	1 " " 52
4 " " 10	6 " " 35	2 " " 54a
7 " " 12	25 " " 37	1 " " 111c



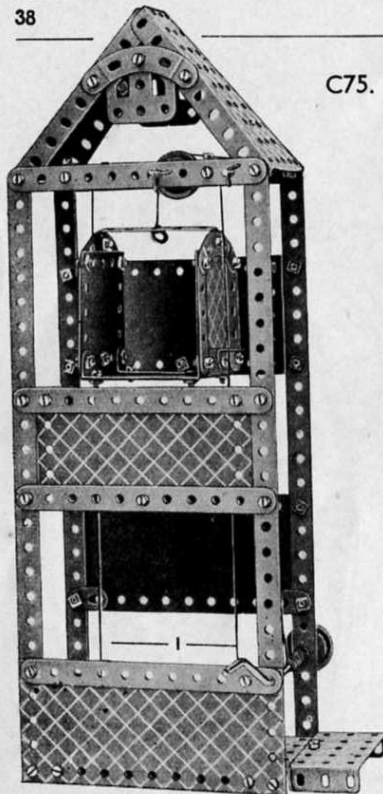


These Models can be built with MECCANO Outfit C (or Outfits B and Ba)

C75. Elevator

## Parts required

4 of No. 1	2
8 " " 2	5
8 " " 5	10
2 " " 10	12
6 " " 12	16
2 " " 16	19s
1 " " 19s	22
2 " " 22	23
1 " " 23	35
6 " " 35	37
63 " " 37	37a
2 " " 37a	38
8 " " 38	40
1 " " 40	48a
3 " " 48a	51
1 " " 51	52
1 " " 52	54a
2 " " 54a	90a
4 " " 90a	126
1 " " 126	126a
2 " " 126a	176
1 " " 176	190
3 " " 190	191
2 " " 191	192

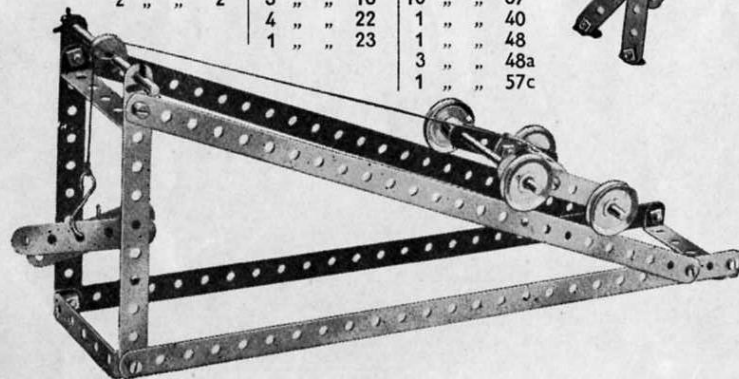


The guide cords 1 for the cage are tied to the centre holes of 2½" Strips attached to the top of the model by Angle Brackets, and in corresponding holes in the 5½" × 2½" Flanged Plate. The hoisting cord is passed over a ½" loose Pulley and 1" fixed Pulley before being tied to the cage as shown.

C76. Inclined Plane

## Parts required

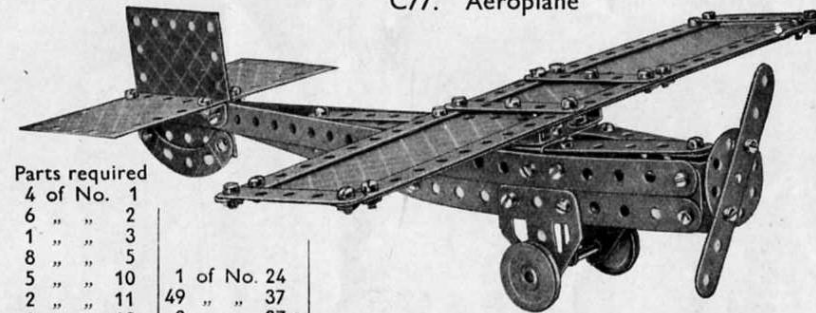
4 of No. 1	2 of No. 5	3 of No. 35
2 " " 2	3 " " 16	10 " " 37
	4 " " 22	1 " " 40
	1 " " 23	1 " " 48
		3 " " 48a
		1 " " 57c



C77. Aeroplane

## Parts required

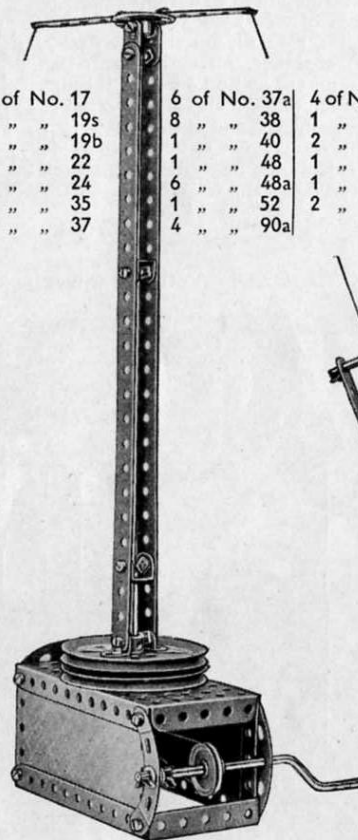
4 of No. 1	2	1 of No. 24	1 of No. 186
6 " " 2	3	49 " " 37	2 " " 126a
1 " " 3	5	2 " " 37a	4 " " 190
8 " " 5	10	1 " " 48	1 " " 176
5 " " 10	11	2 " " 90a	2 " " 191
2 " " 11	12	2 " " 111c	
8 " " 12	15b		
1 " " 15b	17		
1 " " 17	22		
2 " " 22			



C78. Revolving Gymnasts

## Parts required

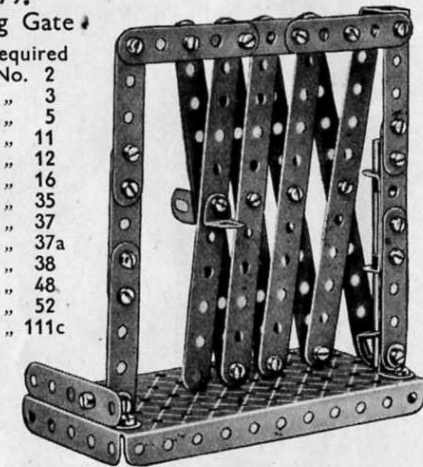
2 of No. 1	2 of No. 17	6 of No. 37a	4 of No. 111c
3 " " 2	1 " " 19s	8 " " 38	1 " " 125
8 " " 5	2 " " 19b	1 " " 40	2 " " 126a
4 " " 10	4 " " 22	1 " " 48	1 " " 186
2 " " 11	1 " " 24	6 " " 48a	1 " " 190
8 " " 12	7 " " 35	1 " " 52	2 " " 192
1 " " 16	40 " " 37	4 " " 90a	



C79. Sliding Gate

## Parts required

8 of No. 2	3
1 " " 3	5
9 " " 5	11
1 " " 11	12
6 " " 12	16
1 " " 16	35
2 " " 35	37
30 " " 37	37a
14 " " 37a	38
5 " " 38	48
1 " " 48	52
1 " " 52	111c

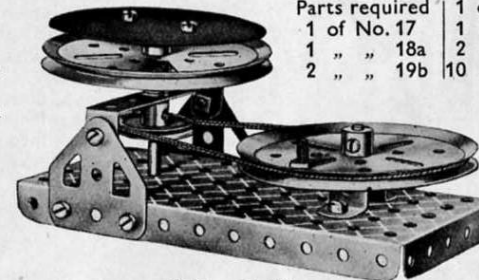


An alternative design of this model (C77M), fitted with the Meccano Magic Motor, is illustrated on page 45.

C80. Rotary Linisher

## Parts required

1 of No. 17	1 of No. 22	1 of No. 37a
1 " " 18a	1 " " 24	2 " " 38
2 " " 19b	2 " " 35	1 " " 40
	10 " " 37	1 " " 48a
		1 " " 52
		1 " " 111c
		2 " " 125
		1 " " 126a



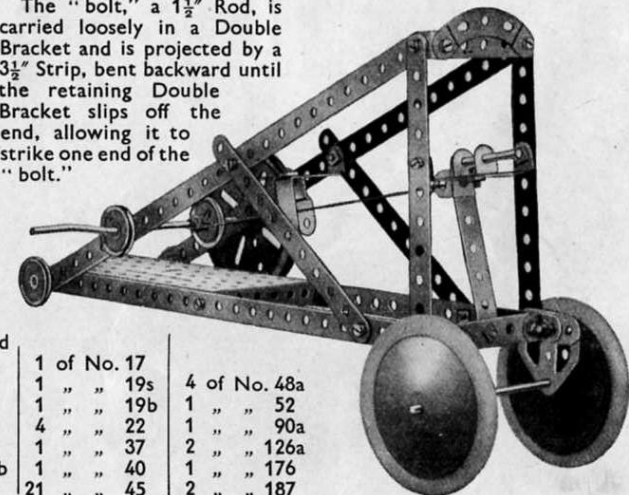
Disc of Emery Cloth (not included in Outfit)

C81. Ballista

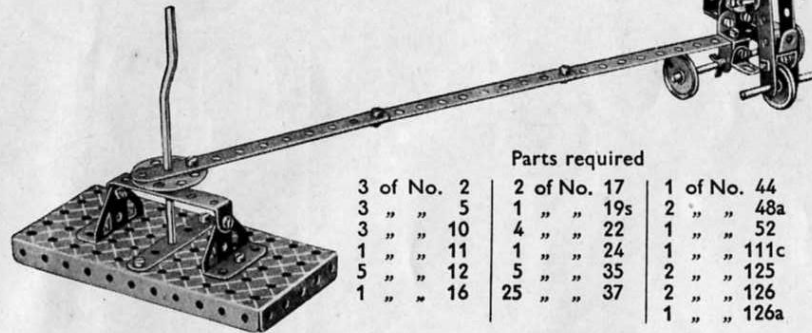
The "bolt," a 1½" Rod, is carried loosely in a Double Bracket and is projected by a 3½" Strip, bent backward until the retaining Double Bracket slips off the end, allowing it to strike one end of the "bolt."

## Parts required

4 of No. 1	1 of No. 17	4 of No. 48a
4 " " 2	1 " " 19s	1 " " 52
1 " " 3	1 " " 19b	1 " " 90a
2 " " 11	4 " " 22	2 " " 126a
2 " " 12	1 " " 37	1 " " 176
1 " " 15b	1 " " 40	2 " " 187
1 " " 16	21 " " 45	

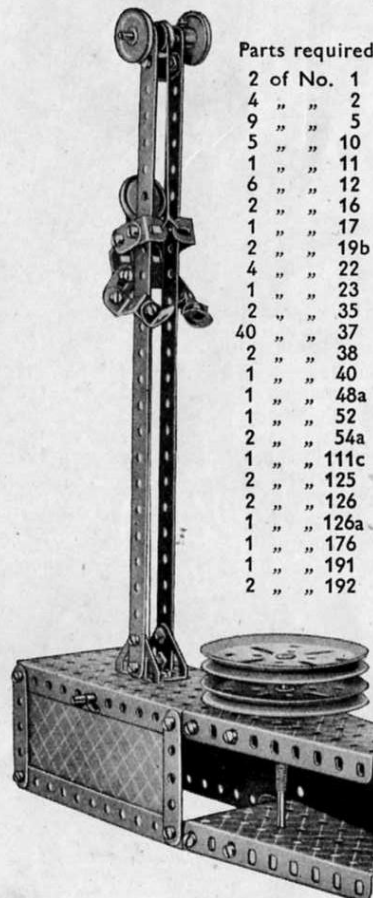


C82 Revolving Tricyclist



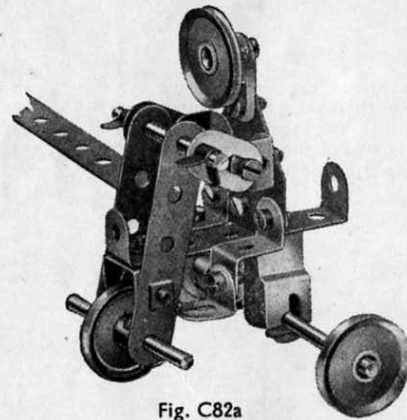
Parts required		
3 of No. 2	2 of No. 17	1 of No. 44
3 " " 5	1 " " 19s	2 " " 48a
3 " " 10	4 " " 22	1 " " 52
1 " " 11	1 " " 24	1 " " 111c
5 " " 12	5 " " 35	2 " " 125
1 " " 16	25 " " 37	2 " " 126
		1 " " 126a

C83. Man Climbing Pole



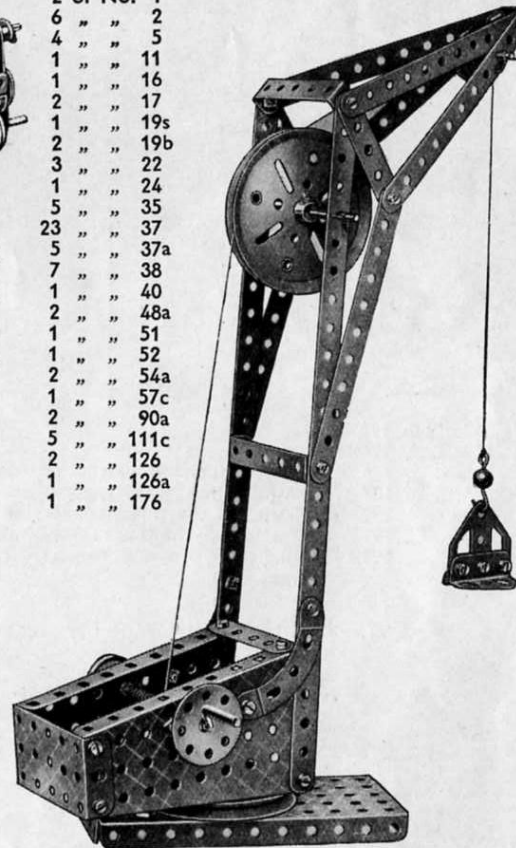
Parts required	
2 of No. 1	
4 " " 2	
9 " " 5	
5 " " 10	
1 " " 11	
6 " " 12	
2 " " 16	
1 " " 17	
2 " " 19b	
4 " " 22	
1 " " 23	
2 " " 35	
40 " " 37	
2 " " 38	
1 " " 40	
1 " " 48a	
1 " " 52	
2 " " 54a	
1 " " 111c	
2 " " 125	
2 " " 126	
1 " " 126a	
1 " " 176	
1 " " 191	
2 " " 192	

Fig. C82a



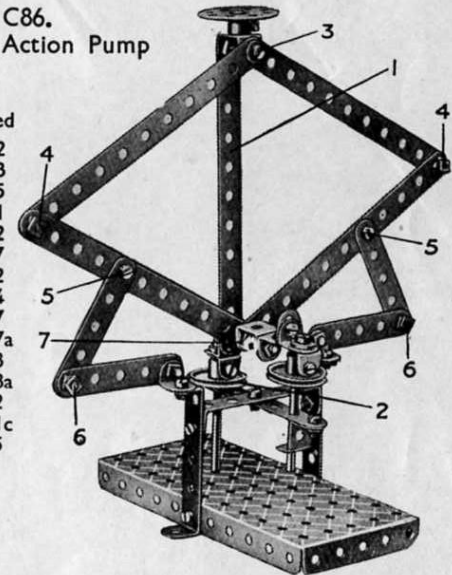
Parts required	
2 of No. 1	
6 " " 2	
4 " " 5	
1 " " 11	
1 " " 16	
2 " " 17	
1 " " 19s	
2 " " 19b	
3 " " 22	
1 " " 24	
5 " " 35	
23 " " 37	
5 " " 37a	
7 " " 38	
1 " " 40	
2 " " 48a	
1 " " 51	
1 " " 52	
2 " " 54a	
1 " " 57c	
2 " " 90a	
5 " " 111c	
2 " " 126	
1 " " 126a	
1 " " 176	

C84. Warehouse Crane



C86. Double Action Pump

Parts required	
5 of No. 2	
1 " " 3	
4 " " 5	
2 " " 11	
6 " " 12	
2 " " 17	
2 " " 22	
1 " " 24	
24 " " 37	
9 " " 37a	
7 " " 38	
3 " " 48a	
1 " " 52	
3 " " 111c	
2 " " 125	



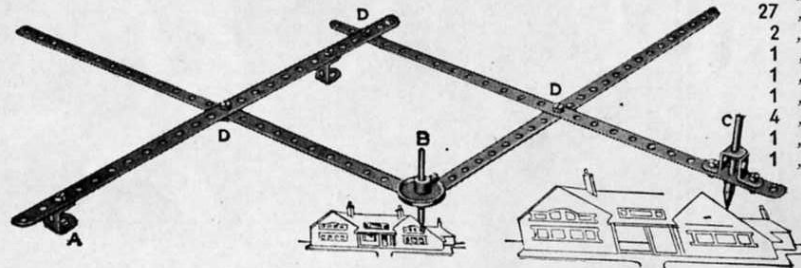
The  $5\frac{1}{2}$ " Strip 1 is attached to the 1" Pulley Wheel 2 by means of two Angle Brackets, through the lower one of which passes the Set-Screw that secures the Pulley to its 2" Rod. Two Washers are placed beneath the head of the bolt joining the Angle Brackets in order to prevent its shank from binding on the boss of the Pulley 2. The joints 3, 4, 5, 6, 7, are all locknuted, the remainder of the joints being quite rigid. When the Strip 1 descends, together with the first pump, the incidental distortion of the parallelogram 3, 4, 7, 4 causes the second pump to rise. Similarly, when the first pump rises, the second descends.

C85. Pantograph

The apparatus is fixed at the point A. If an enlarged sketch is to be made the point B is traced round the outlines, the writing point C reproducing the sketch on a large scale. When a reduced drawing is to be made, the point C traces the outline, whilst the point B reproduces the sketch on a smaller scale. The degree of enlargement or reduction varies according to the position in which point C is fixed on the perforated arm.

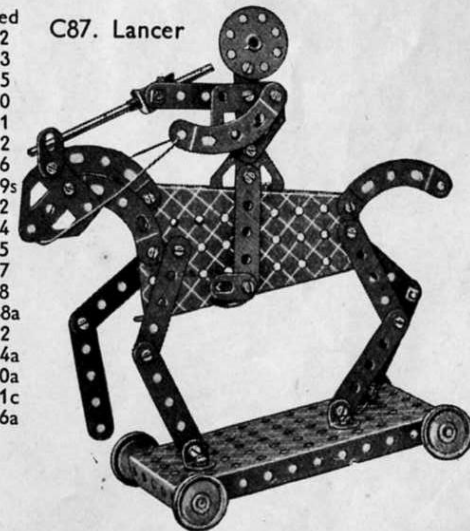
The Bolts at D are fitted with locknuts to allow free movement of the  $12\frac{1}{2}$  Strips.

Parts required	
4 of No. 1	
2 " " 11	
2 " " 18a	
1 " " 22	
2 " " 35	
4 " " 37	
3 " " 37a	
3 " " 111c	
2 " " 125	



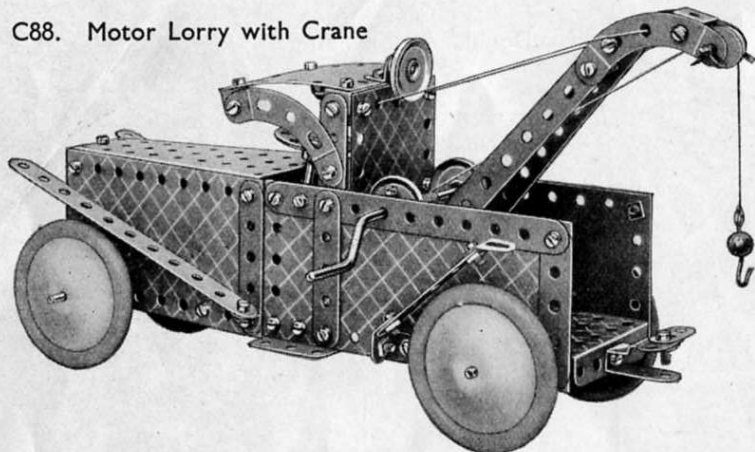
Parts required	
1 of No. 2	
1 " " 3	
9 " " 5	
2 " " 10	
2 " " 11	
5 " " 12	
2 " " 16	
1 " " 19s	
4 " " 22	
1 " " 24	
1 " " 35	
27 " " 37	
2 " " 38	
1 " " 48a	
1 " " 52	
1 " " 54a	
4 " " 90a	
1 " " 111c	
1 " " 126a	

C87. Lancer





C88. Motor Lorry with Crane



## Parts required

2	of No. 2
2	" " 18a
4	" " 22
1	" " 23
2	" " 35
8	" " 37
1	" " 40
4	" " 48a
1	" " 52
2	" " 125

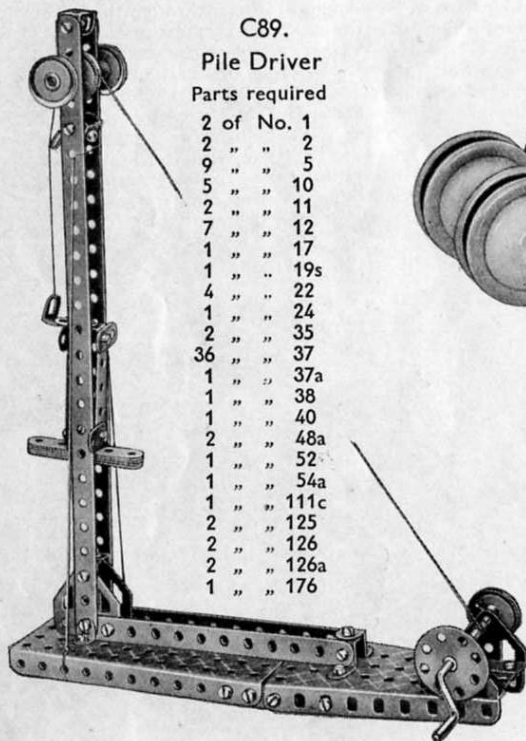
Parts required	4 of No. 12c	1 of No. 24	5 of No. 48a	2 of No. 126
8 of No. 2	2 " " 15b	4 " " 35	1 " " 51	2 " " 126a
1 " " 3	1 " " 16	66 " " 37	1 " " 52	1 " " 176
9 " " 5	2 " " 17	1 " " 37a	2 " " 54a	4 " " 187
4 " " 10	1 " " 19s	2 " " 38	1 " " 57c	3 " " 190
1 " " 11	4 " " 22	1 " " 40	4 " " 90a	2 " " 191
7 " " 12	1 " " 23	1 " " 44	2 " " 111c	1 " " 192

C89.

## Pile Driver

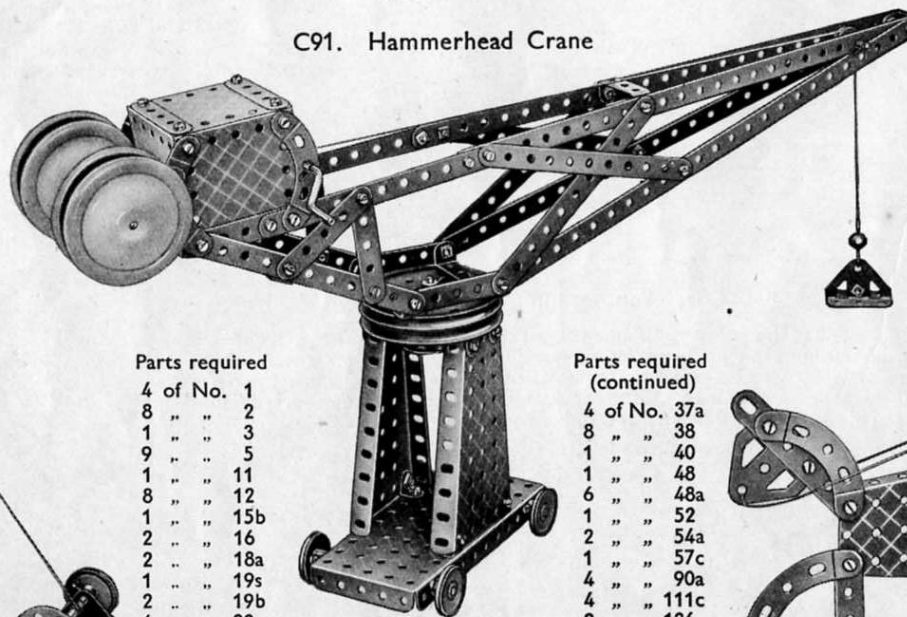
## Parts required

2	of No. 1
2	" " 2
9	" " 5
5	" " 10
2	" " 11
7	" " 12
1	" " 17
1	" " 19s
4	" " 22
1	" " 24
2	" " 35
36	" " 37
1	" " 37a
1	" " 38
1	" " 40
2	" " 48a
1	" " 52
1	" " 54a
1	" " 111c
2	" " 125
2	" " 126
2	" " 126a
1	" " 176



## Parts required

4	of No. 1
8	" " 2
1	" " 3
9	" " 5
1	" " 11
8	" " 12
1	" " 15b
2	" " 16
2	" " 18a
1	" " 19s
2	" " 19b
4	" " 22
1	" " 23
1	" " 24
4	" " 35
51	" " 37

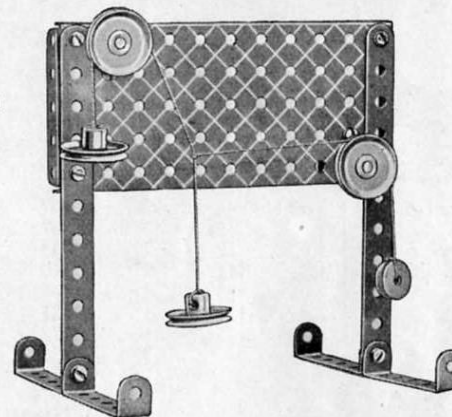


C91. Hammerhead Crane

Parts required  
(continued)

4	of No. 37a
8	" " 38
1	" " 40
1	" " 48
6	" " 48a
1	" " 52
2	" " 54a
1	" " 57c
4	" " 90a
4	" " 111c
2	" " 126
2	" " 126a
1	" " 176
4	" " 187
4	" " 190

C90. Triangle of Forces

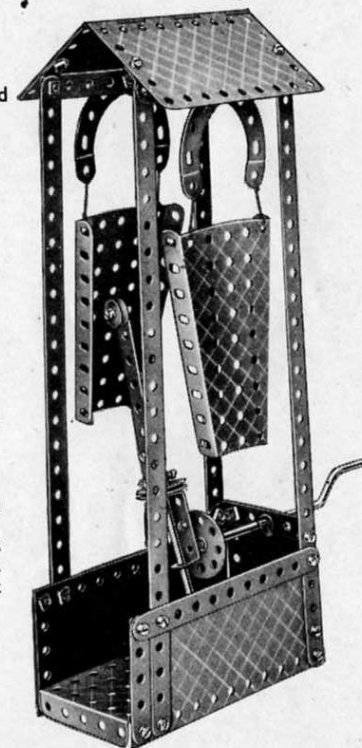


The suspended weights represent three forces acting on a central point. If a triangle is drawn with its sides respectively parallel to the three converging cords, i.e., parallel to the directions of the three forces, the lengths of the sides will be found to be proportional to the respective magnitudes of the forces.

C92. Mechanical Gong

## Parts required

4	of No. 1
2	" " 2
1	" " 3
7	" " 5
2	" " 10
1	" " 12
4	" " 12c
1	" " 16
1	" " 19s
2	" " 22
1	" " 23
1	" " 24
2	" " 35
39	" " 37
2	" " 37a
7	" " 38
1	" " 40
1	" " 48
2	" " 48a
1	" " 52
2	" " 54a
4	" " 90a
1	" " 111c
1	" " 126
1	" " 190
2	" " 192
1	" " 198



C93. Horse and Cart

## Parts required

6	of No. 2
9	" " 5
3	" " 10
2	" " 11
3	" " 12
2	" " 12c
1	" " 15b
1	" " 16

## 2 of No. 18a

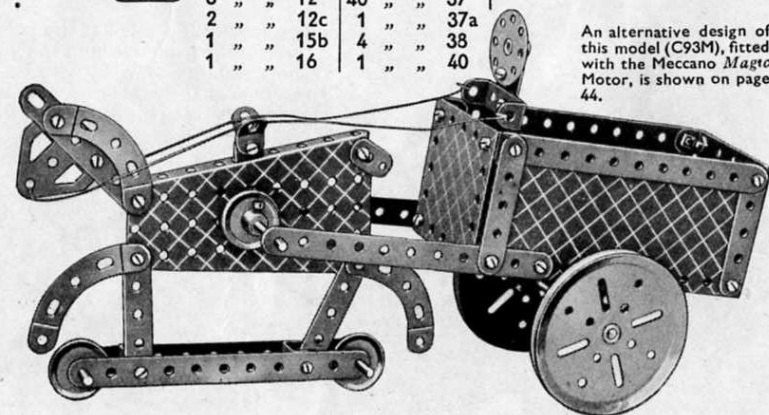
2	" " 19b
4	" " 22
1	" " 24
2	" " 35
40	" " 37
1	" " 37a
4	" " 38
1	" " 40

## 1 of No. 48

2	" " 48a
1	" " 52
1	" " 54a
3	" " 90

## 1 of No. 111c

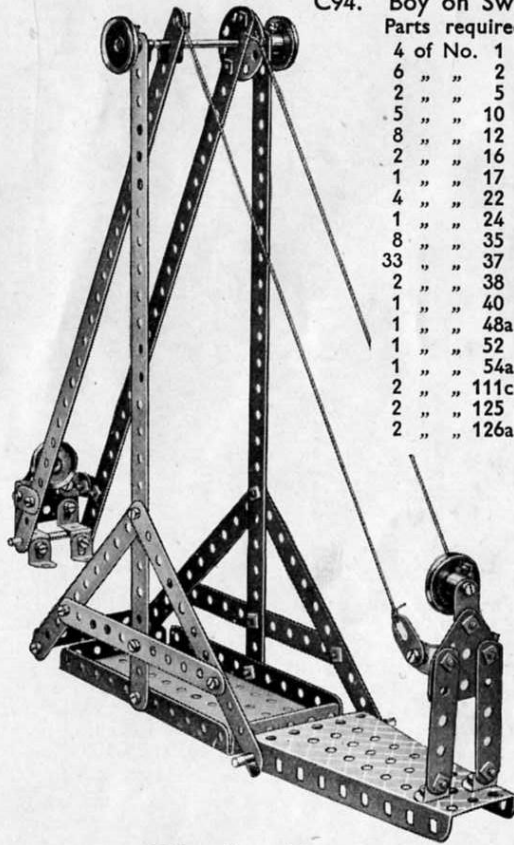
2	" " 126
2	" " 126a
2	" " 190
2	" " 192



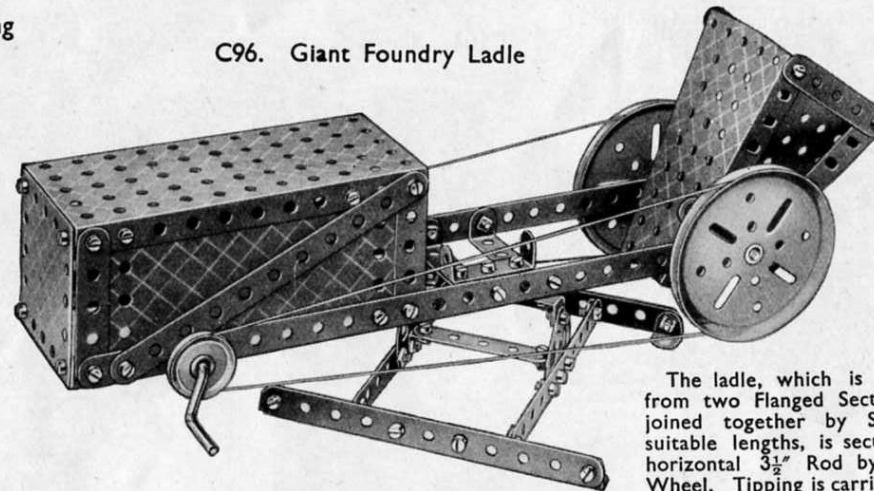
An alternative design of this model (C93M), fitted with the Meccano Magic Motor, is shown on page 44.

C94. Boy on Swing

Parts required	
4 of No. 1	2
6 " " 2	5
2 " " 5	10
8 " " 12	16
2 " " 16	17
1 " " 22	24
4 " " 24	35
1 " " 37	38
8 " " 40	48a
33 " " 37	52
2 " " 38	54a
1 " " 40	111c
1 " " 48a	125
1 " " 52	126a
2 " " 111c	
2 " " 125	
2 " " 126a	



C96. Giant Foundry Ladle

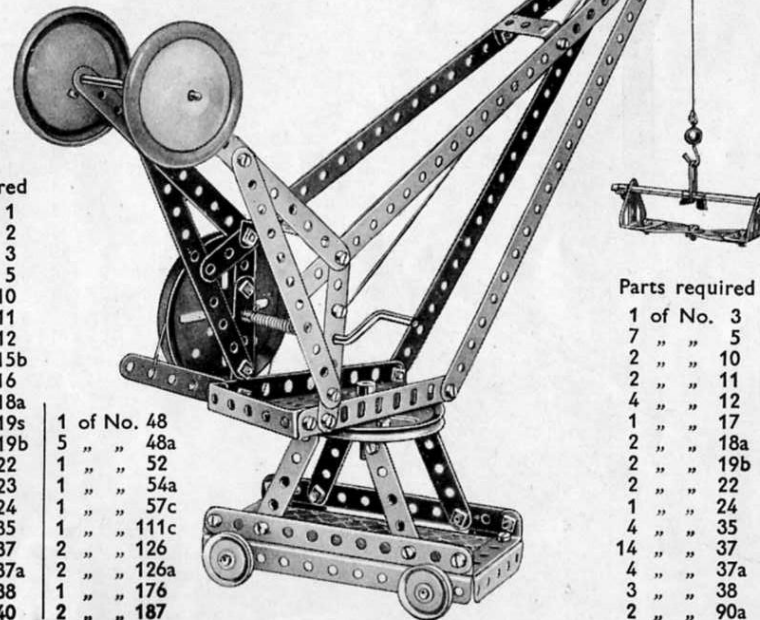


The ladle, which is built up from two Flanged Sector Plates joined together by Strips of suitable lengths, is secured to a horizontal  $3\frac{1}{2}$ " Rod by a Bush Wheel. Tipping is carried out by two cords as shown.

Parts required

2 of No. 1	1 of No. 19s	5 of No. 38	2 of No. 54a
6 " " 2	2 " " 19b	1 " " 40	1 " " 111c
9 " " 5	2 " " 22	1 " " 48	2 " " 126a
2 " " 10	1 " " 24	6 " " 48a	1 " " 190
8 " " 12	64 " " 37	1 " " 52	2 " " 191
1 " " 16	2 " " 37a		

C97. Swivelling Crane



Parts required

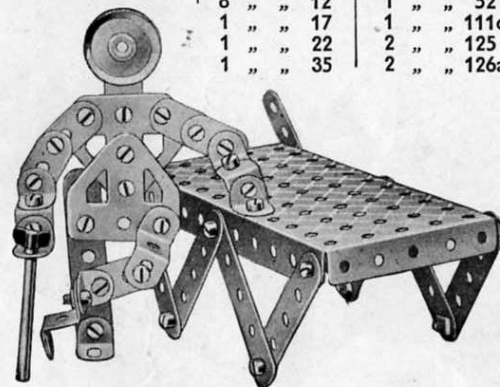
4 of No. 1	2
4 " " 2	5
4 " " 5	11
2 " " 11	16
1 " " 16	19s
1 " " 19s	19b
2 " " 19b	22
4 " " 22	35
4 " " 35	37
20 " " 37	37a
20 " " 37a	38
8 " " 38	40
1 " " 40	48a
2 " " 48a	52
1 " " 52	90a
4 " " 90a	111c
6 " " 111c	

C95. King Meccano

1 of No. 3  
9 " " 5

Parts required

Parts required	30 of No. 37	4 of No. 1
5 of No. 10	1 " " 52	8 " " 2
8 " " 12	1 " " 111c	1 " " 3
1 " " 17	2 " " 125	8 " " 5
1 " " 22	2 " " 126a	1 " " 10
1 " " 35		1 " " 11
		4 " " 12
		1 " " 15b
		3 " " 16
		2 " " 18a
		1 " " 19s
		2 " " 19b
		4 " " 22
		1 " " 23
		1 " " 24
		6 " " 35
		46 " " 37
		2 " " 37a
		6 " " 38
		1 " " 40



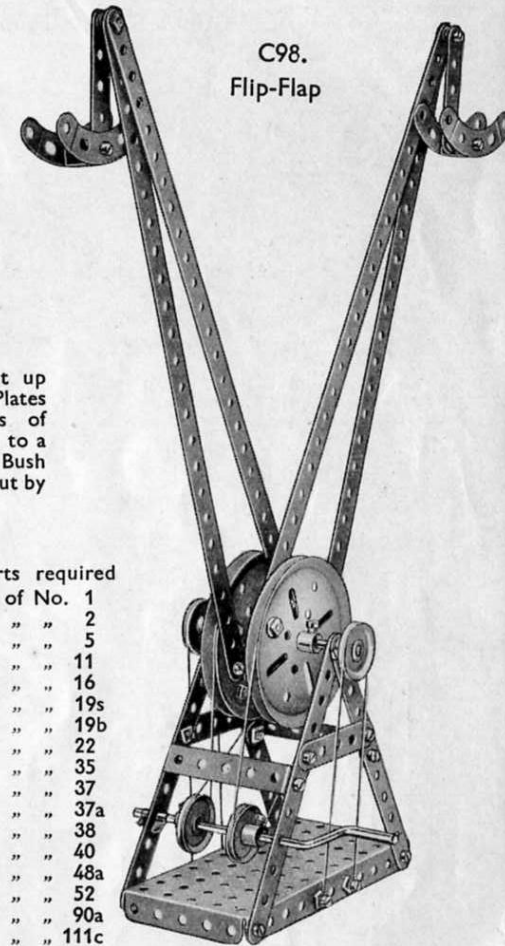
Parts required	
4 of No. 1	2
8 " " 2	3
1 " " 3	5
8 " " 5	10
1 " " 10	11
1 " " 11	12
4 " " 12	15b
1 " " 15b	16
3 " " 16	18a
2 " " 18a	19s
1 " " 19s	19b
2 " " 19b	22
4 " " 22	23
1 " " 23	24
1 " " 24	35
6 " " 35	37
46 " " 37	37a
2 " " 37a	38
6 " " 38	176
1 " " 176	40
1 " " 40	

1 of No. 48	
5 " " 48a	
1 " " 52	
1 " " 54a	
1 " " 57c	
1 " " 111c	
2 " " 126	
2 " " 126a	
1 " " 176	
2 " " 187	

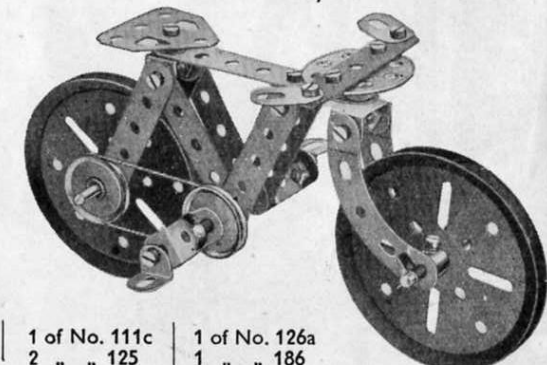
Parts required

1 of No. 3	
7 " " 5	
2 " " 10	
2 " " 11	
4 " " 12	
1 " " 17	
2 " " 18a	
2 " " 19b	
2 " " 22	
1 " " 24	
4 " " 35	
14 " " 37	
4 " " 37a	
3 " " 38	
2 " " 90a	

C98. Flip-Flap



C99. Bicycle



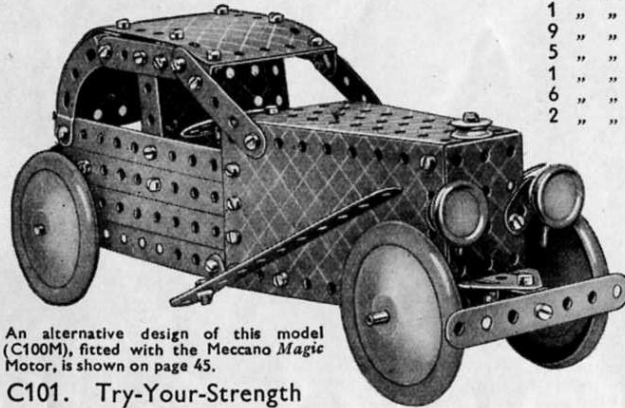
1 of No. 111c	1 of No. 126a
2 " " 125	1 " " 186



These Models can be built with **MECCANO Outfit C** (or Outfits B and Ba)

C100. Sports Coupé

Parts required	
8 of No. 2	2
1 " " 3	66
9 " " 5	4
5 " " 10	6
1 " " 11	1
6 " " 12	2
2 " " 15b	2

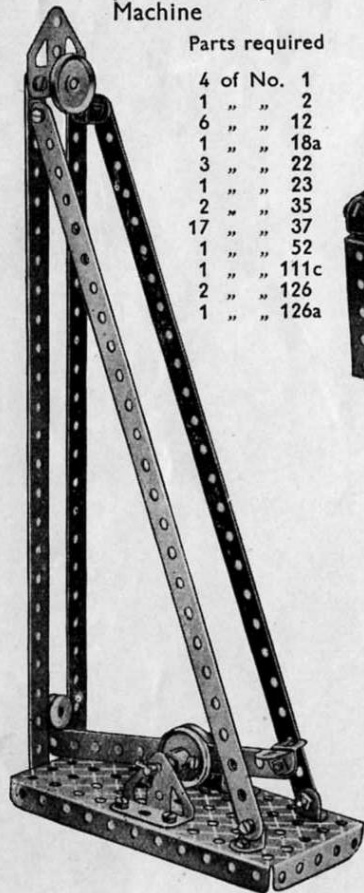


An alternative design of this model (C100M), fitted with the Meccano Magic Motor, is shown on page 45.

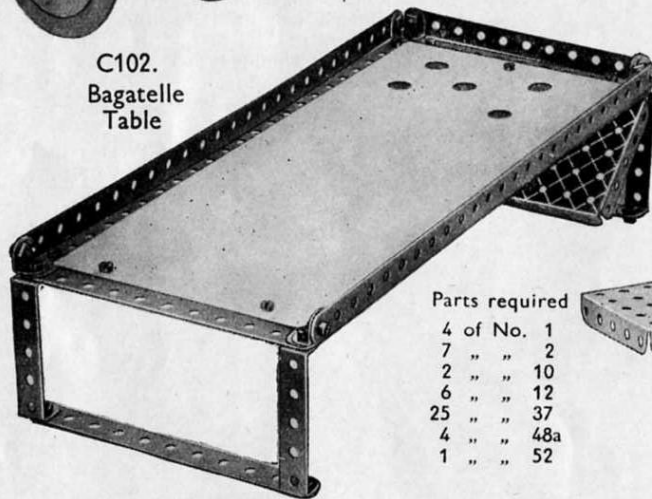
C101. Try-Your-Strength Machine

Parts required

4 of No. 1	1
1 " " 2	6
6 " " 12	1
1 " " 18a	3
3 " " 22	1
2 " " 23	2
2 " " 35	17
17 " " 37	1
1 " " 52	1
1 " " 111c	2
2 " " 126	1
1 " " 126a	



C102. Bagatelle Table

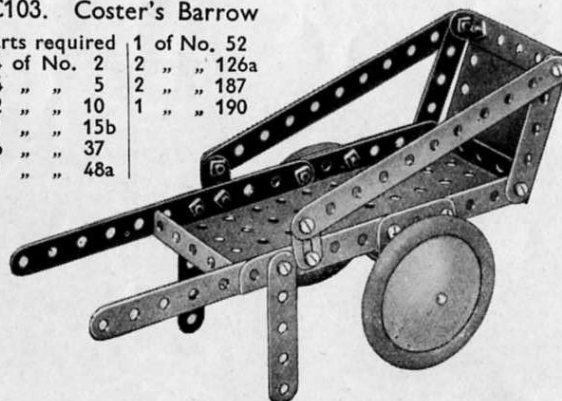


Parts required

4 of No. 1	7
7 " " 2	2
2 " " 10	6
6 " " 12	25
4 " " 37	4
1 " " 48a	1
1 " " 52	

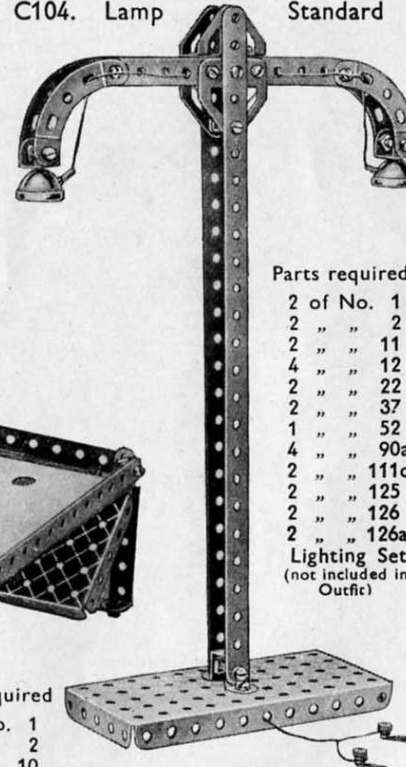
C103. Coster's Barrow

Parts required	
1 of No. 52	2
2 " " 126a	4
4 " " 5	2
2 " " 10	1
1 " " 15b	
16 " " 37	
1 " " 48a	



C104. Lamp

Standard



Parts required

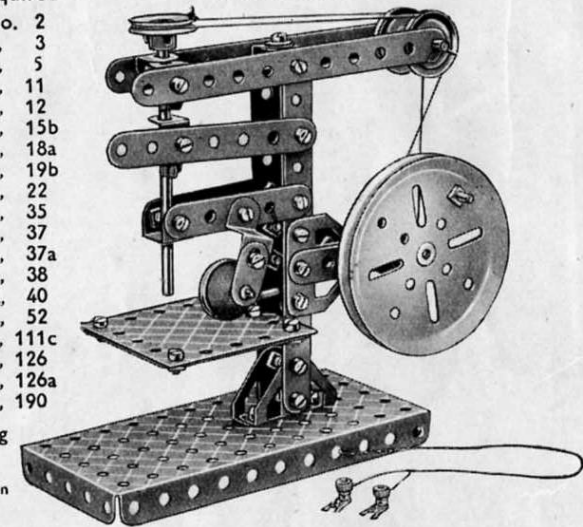
2 of No. 1	2
2 " " 2	2
2 " " 11	4
4 " " 12	2
2 " " 22	2
2 " " 37	1
1 " " 52	4
4 " " 90a	2
2 " " 111c	2
2 " " 125	2
2 " " 126	2
2 " " 126a	
Lighting Set	
(not included in Outfit)	

Parts required

4 of No. 2	1
1 " " 3	9
5 " " 5	2
11 " " 11	8
12 " " 12	1
15b " " 15b	2
18a " " 18a	1
19b " " 19b	4
22 " " 22	5
35 " " 35	33
37 " " 37	3
37a " " 37a	5
38 " " 38	1
40 " " 40	1
52 " " 52	2
111c " " 111c	2
126 " " 126	2
126a " " 126a	1
190 " " 190	

Lighting Set  
(not included in Outfit)

C105. Drill



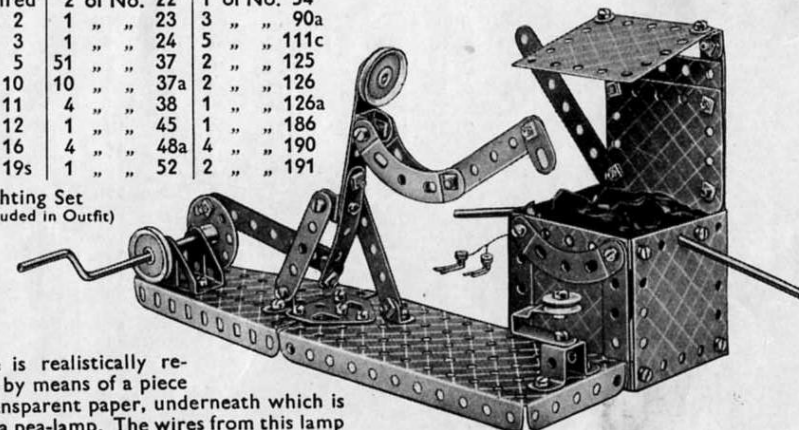
#### MECCANO LIGHTING SET

The appearance of many Meccano models, especially those built with Outfits A, B and C, can be vastly improved by the addition of suitably disposed lights. For this purpose a special set of lighting equipment 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 in models C100, C104, C105 and C106

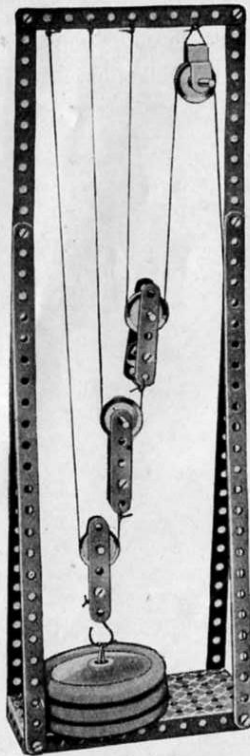
C106. Blacksmith

Parts required	
2 of No. 22	1 of No. 54
3 of No. 2	3 " " 90a
1 " " 3	5 " " 111c
1 " " 5	2 " " 125
51 " " 37	2 " " 126
10 " " 37a	1 " " 126a
4 " " 38	1 " " 186
1 " " 45	4 " " 190
4 " " 48a	2 " " 191
1 " " 52	

Lighting Set  
(not included in Outfit)



The fire is realistically represented by means of a piece of red transparent paper, underneath which is concealed a pea-lamp. The wires from this lamp are shown at the back of the model.

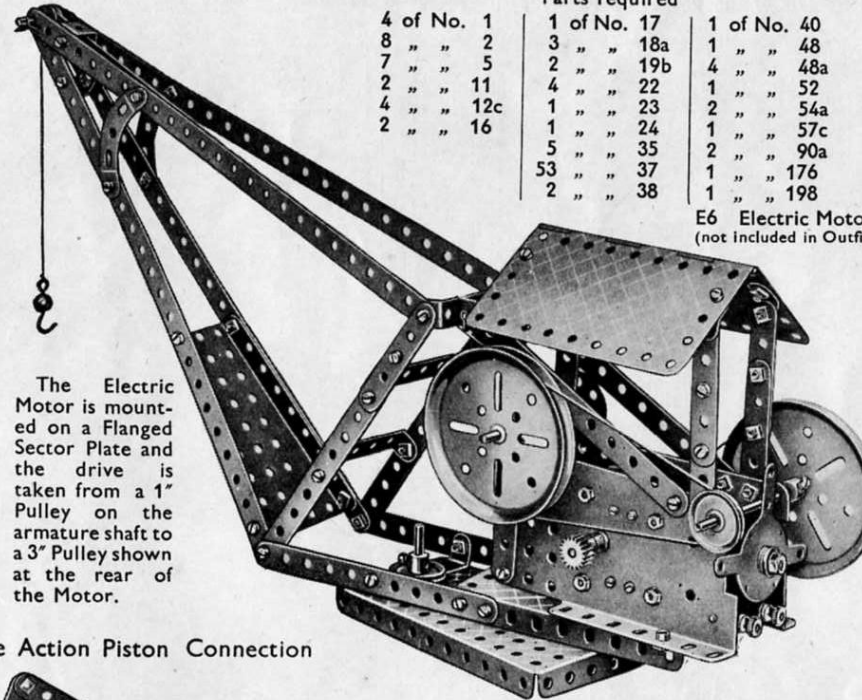


C107.  
Pulley Block  
8:1

Parts required

4 of No. 1	
3 " " 2	
6 " " 5	
2 " " 11	
2 " " 12	
2 " " 17	
2 " " 18a	
4 " " 22	
15 " " 37	
2 " " 38	
1 " " 40	
1 " " 45	
1 " " 52	
1 " " 57c	
3 " " 187	

The Electric Motor is mounted on a Flanged Sector Plate and the drive is taken from a 1" Pulley on the armature shaft to a 3" Pulley shown at the rear of the Motor.



C109. Swivelling Jib Crane (Electric)

Parts required

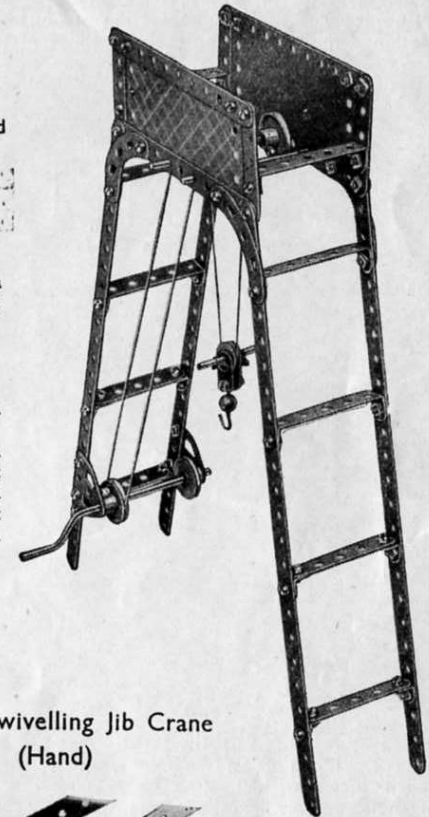
4 of No. 1	1 of No. 17	1 of No. 40
8 " " 2	3 " " 18a	1 " " 48
7 " " 5	2 " " 19b	4 " " 48a
2 " " 11	4 " " 22	1 " " 52
4 " " 12c	1 " " 23	2 " " 54a
2 " " 16	1 " " 24	1 " " 57c
	5 " " 35	2 " " 90a
	53 " " 37	1 " " 176
	2 " " 38	1 " " 198

E6 Electric Motor  
(not included in Outfit)

C110.  
Overhead  
Crane

Parts required

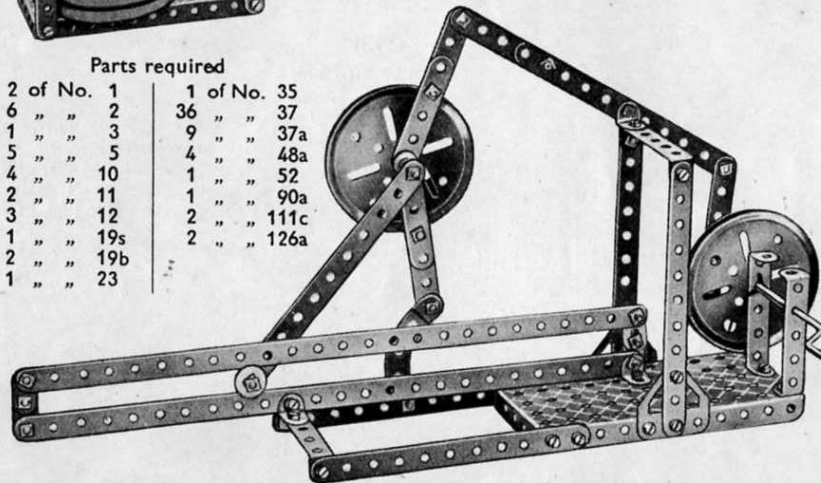
4 of No. 1	
4 " " 2	
8 " " 5	
2 " " 10	
8 " " 12	
2 " " 16	
1 " " 18a	
1 " " 19s	
4 " " 22	
1 " " 23	
4 " " 35	
37 " " 37	
2 " " 37a	
1 " " 40	
6 " " 48a	
1 " " 57c	
4 " " 90a	
1 " " 111c	
2 " " 126a	
1 " " 176	
2 " " 191	



C108. Double Action Piston Connection

Parts required

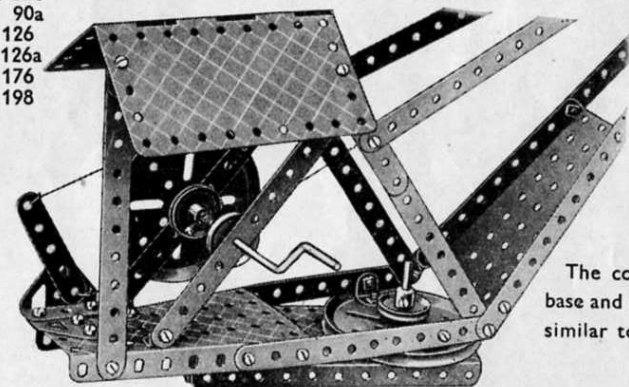
2 of No. 1	1 of No. 35
6 " " 2	36 " " 37
1 " " 3	9 " " 37a
5 " " 5	4 " " 48a
4 " " 10	1 " " 52
2 " " 11	1 " " 90a
3 " " 12	2 " " 111c
1 " " 19s	2 " " 126a
2 " " 19b	
1 " " 23	



Parts required

4 of No. 1	1 of No. 57c
7 " " 2	2 " " 90a
3 " " 5	1 " " 126
2 " " 11	1 " " 126a
4 " " 12	1 " " 176
3 " " 12c	1 " " 198
1 " " 17	
1 " " 18a	
1 " " 19s	
2 " " 19b	
4 " " 22	
1 " " 23	
2 " " 35	
36 " " 37	
1 " " 38	
1 " " 40	
1 " " 48	
1 " " 48a	
1 " " 52	
2 " " 54a	

C111. Swivelling Jib Crane  
(Hand)



The construction of the base and jib of this model is similar to model C109

# HOW TO CONTINUE

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



# **Outfit C Models fitted with Meccano Magic Motor**

The greatest thrill in Meccano model-building is experienced when a model is set to work by means of a Meccano Motor. The models featured on this and the opposite page are more elaborate variations of a selection of Outfit B Models, showing how the new Meccano *Magic* Motor can be fitted to give more realism and to increase the fun. The numbers of these redesigned models are the same as those of the corresponding models in the preceding pages, with the letter M added. Try your hand at re-designing other models in a similar manner.

## **C55M. Paddle Steamer**

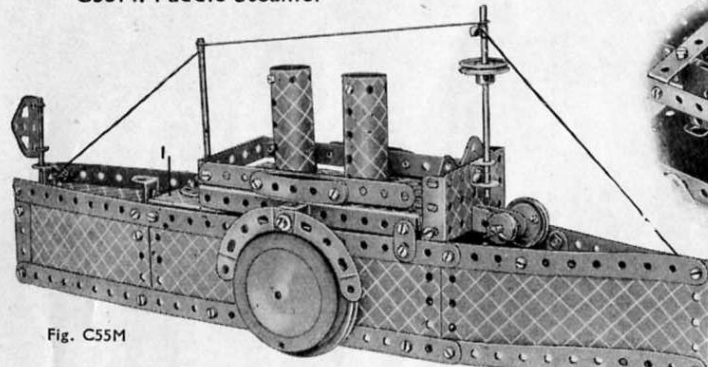
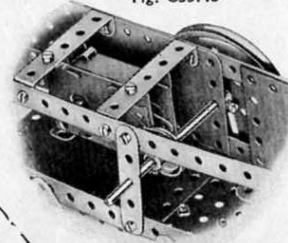


Fig. C55Mb



The Plate 1 forming part of the deck is a Hinged Flat Plate that forms also part of the side of the ship as shown in Fig. C55Mb.

Parts required		2 of No.		7 of No.		38		2 of No.		125	
4 of No.	1	1	16	1	1	1	40	2	1	126	
7	2	1	17	1	1	1	41	1	1	126a	
1	3	2	18a	1	1	1	42	1	1	176	
9	5	4	19b	1	1	1	43	2	1	187	
2	10	1	22	5	1	1	44	4	1	190	
2	11	1	23	1	1	1	45	2	1	191	
7	12	8	24	1	1	1	46	2	1	192	
4	12c	66	35	1	1	1	47	1	1	198	
2	15b	6	37a	6	1	1	48	1	1	199	

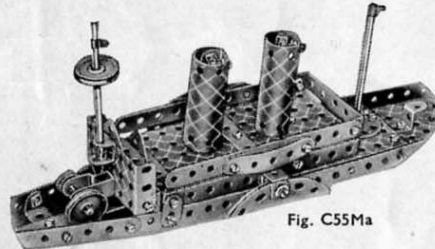


Fig. C55Ma

## **C27M. Mobile Crane**

The jib pivots on two bolts 1, which are each fitted with locknuts. A Crank Handle controls the raising and lowering of the jib and the method of winding the cord round the handle can be seen in Fig. C27Ma. A brake is fitted to the Crank Handle and consists of a pivoted  $2\frac{1}{2}$ " Curved Strip to which is tied a loop of cord that passes round the 3" Pulley.

Fig. C27Mb shows how the *Magic* Motor is mounted beneath the crane to drive the one pair of travelling wheels.



Fig. C27M

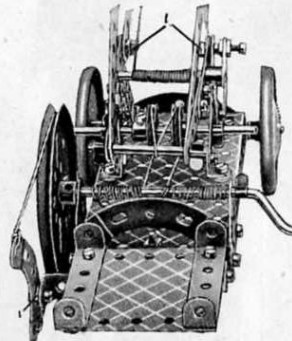


Fig. C27Ma

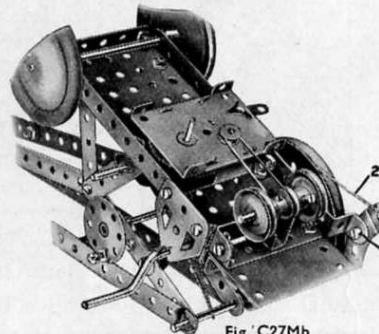


Fig. C27Mb

## **Parts required**

2 of No.	1	1 of No.	24	1 of No.	52
4	2	5	35	1	54a
9	5	42	37	4	90a
3	10	2	38	2	126
8	12	1	40	2	126a
1	15b	1	44	2	187
1	16	1	48	2	190
2	17	1	48a	2	192
1	18a	1	48		
1	19s				
1	19b				
4	22				
1	23				
1	24				
7	35				
58	37				
11	37a				
8	38				
1	40				
1	44				
1	48				
6	48a				
1	51				
1	52				
1	57c				
3	90a				
5	111c				
1	125				
2	126				
1	126a				
1	176				
2	187				
1	190				

## **C64M. Roundabout**

Parts required		1 of No.		40	
4 of No.	1	1	48a		
6	2	1	51		
8	5	1	52		
4	10	1	54a		
2	11	2	90a		
8	12	4	111c		
1	15b	6	125		
1	19b	2	126		
1	22	2	126		
1	24	1	187		
66	37	4	190		
6	37a	2	191		
5	38	2	195		

Fig. C64M

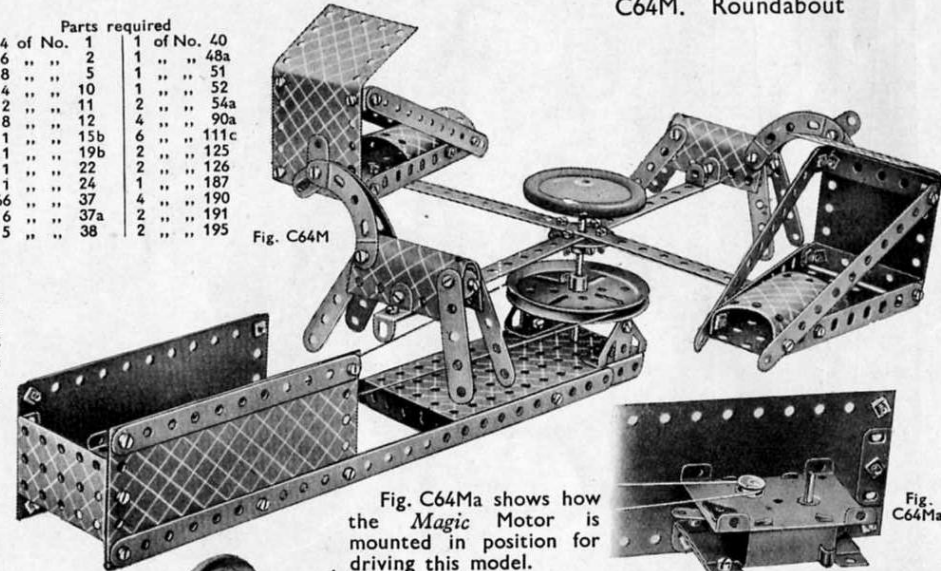


Fig. C64Ma shows how the *Magic* Motor is mounted in position for driving this model.

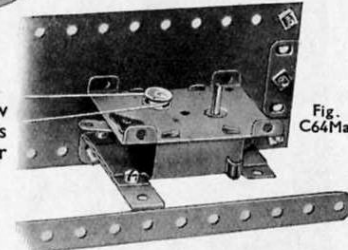


Fig. C64Ma

## **C93M. Horse and Cart**

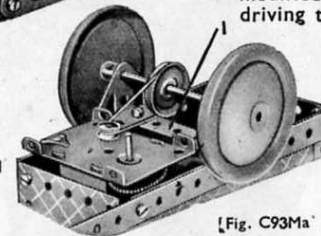


Fig. C93Ma

Parts required		1 of No.		52	
2 of No.	1	1	54a		
6	2	5	90a		
8	5	42	126		
3	10	2	126a		
1	11	1	187		
6	12	1	190		
1	16	1	192		
2	18a	1			
4	22				

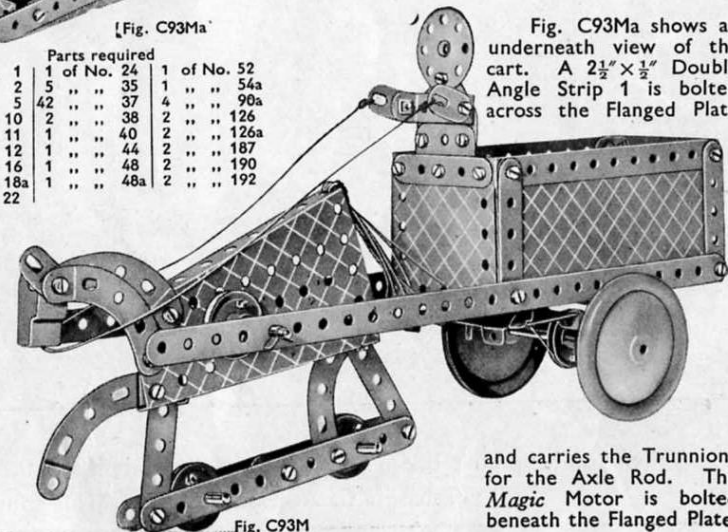


Fig. C93M

Fig. C93Ma shows an underneath view of the cart. A  $2\frac{1}{2} \times \frac{1}{2}$ " Double Angle Strip 1 is bolted across the Flanged Plate

and carries the Trunnions for the Axle Rod. The *Magic* Motor is bolted beneath the Flanged Plate,

## C11M. Sports Car

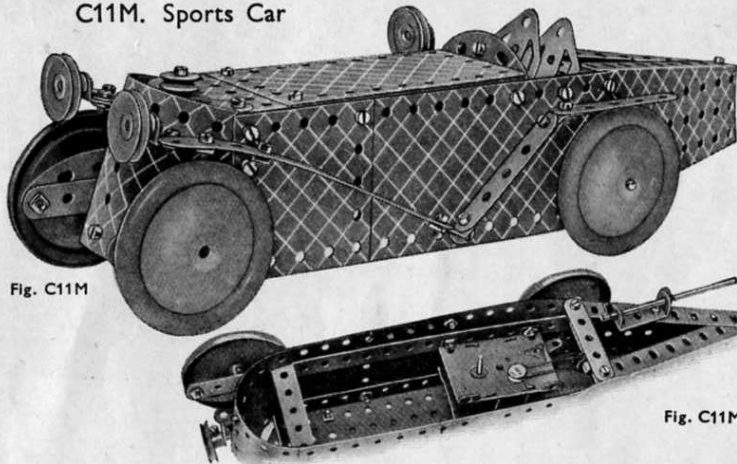


Fig. C11M

Fig. C11Ma

## Parts required

2 of No. 1
2 " " 2
5 " " 5
4 " " 10
8 " " 12
3 " " 12c
2 " " 15b
3 " " 22
1 " " 23
1 " " 24
2 " " 35
56 " " 37
8 " " 38
1 " " 48
1 " " 48a
1 " " 52
4 " " 54a
4 " " 90a
6 " " 111c
2 " " 125
2 " " 126a
4 " " 187
4 " " 190
2 " " 191
2 " " 192

The underneath view of the model shown in Fig. C11Ma shows how the chassis is formed from two  $12\frac{1}{2}$ " Strips that project beyond the front of the model. The *Magic Motor* is bolted to one Strip and drives the special  $\frac{1}{2}$ " loose Pulley on the axle of the rear Road Wheels.

## C65M. Flyboats

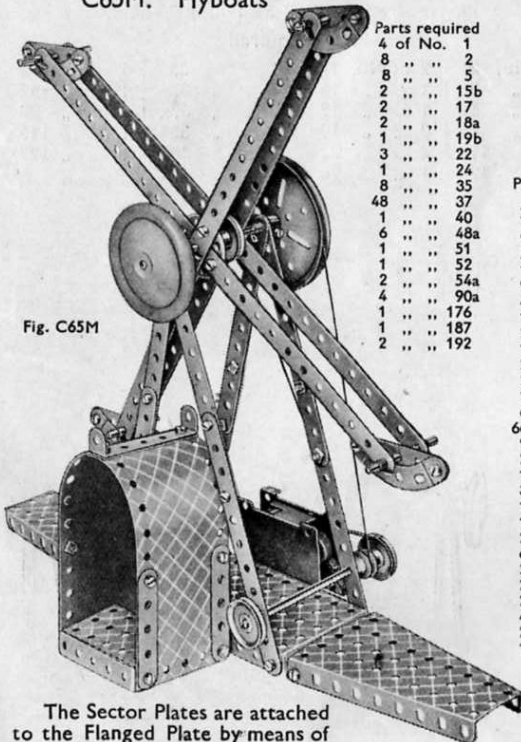


Fig. C65M

Parts required
4 of No. 1
8 " " 2
8 " " 5
2 " " 15b
2 " " 17
2 " " 18a
1 " " 19b
3 " " 22
1 " " 24
8 " " 35
48 " " 37
1 " " 40
6 " " 48a
1 " " 51
1 " " 52
2 " " 54a
4 " " 90a
1 " " 176
1 " " 187
2 " " 192

## Parts required

4 of No. 1
7 " " 2
9 " " 5
5 " " 10
1 " " 11
1 " " 12
4 " " 12c
1 " " 15b
2 " " 16
1 " " 18a
2 " " 19b
2 " " 22
1 " " 24
6 " " 35
66 " " 37
9 " " 37a
2 " " 38
1 " " 40
3 " " 48a
1 " " 51
1 " " 52
2 " " 54a
6 " " 111c
2 " " 125
2 " " 126
2 " " 126a
4 " " 190
2 " " 192
2 " " 198

The Sector Plates are attached to the Flanged Plate by means of  $2\frac{1}{2}$ "  $\times$   $\frac{1}{2}$ " Double Angle Strips.

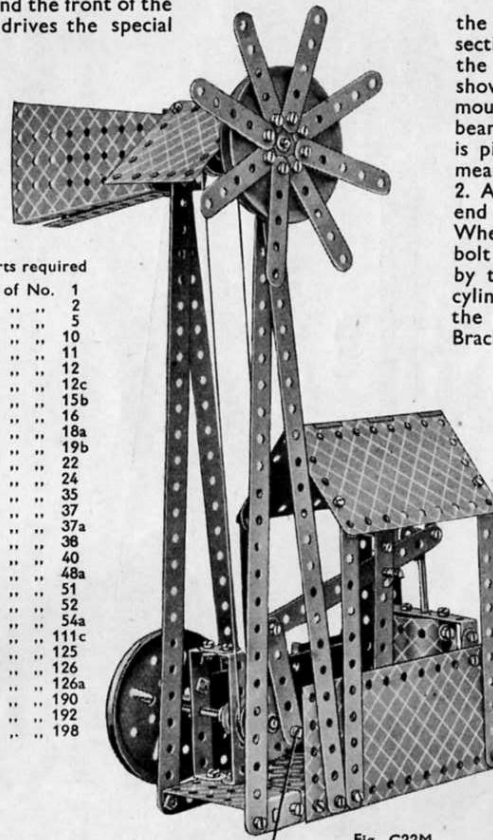


Fig. C22M

## C22M. Windmill Pump

The construction of the model is seen in the sectional view in Fig. C22Ma the *Magic Motor* being shown ready to be mounted in position. The beam operating the pump is pivoted at each end by means of locknutt bolts 2. A  $2\frac{1}{2}$ " Strip connects one end of the beam to a Bush Wheel and pivots on the bolt 1 that is fixed in place by two nuts. The pump cylinder 3 is attached to the base Plate by Angle Brackets.

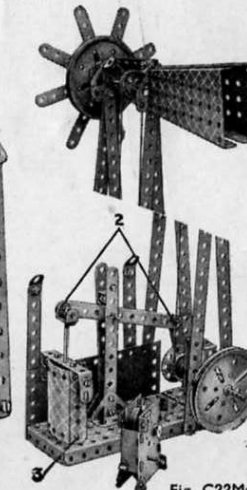


Fig. C22Ma

## Parts required

4 of No. 1
6 " " 2
1 " " 3
1 " " 5
2 " " 10
2 " " 11
6 " " 12
1 " " 16
1 " " 18a
2 " " 22
1 " " 23
1 " " 24
3 " " 35
40 " " 37
6 " " 37a
2 " " 38
1 " " 48
1 " " 90a
5 " " 111c
2 " " 125
2 of No. 126a
4 " " 190
2 of No. 192

## C77M. Aeroplane

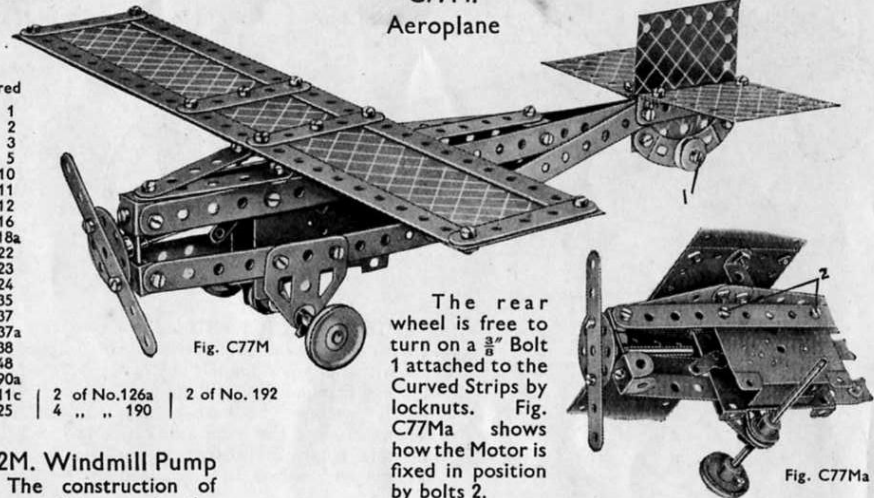


Fig. C77M

Fig. C77Ma

The rear wheel is free to turn on a  $\frac{3}{8}$ " Bolt 1 attached to the Curved Strips by locknuts. Fig. C77Ma shows how the Motor is fixed in position by bolts 2.

## C100M. Sports Coupé

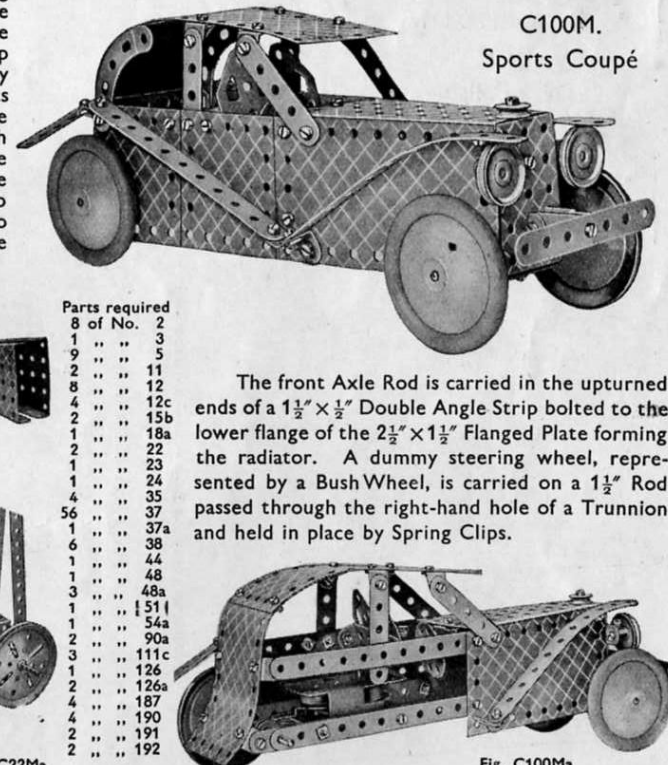


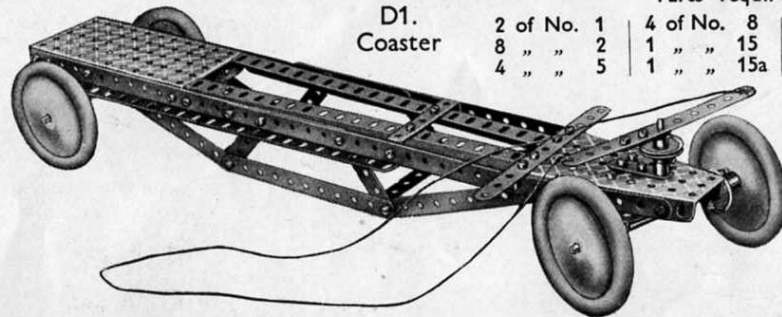
Fig. C100Ma

## Parts required

8 of No. 2
1 " " 3
9 " " 5
2 " " 11
8 " " 12
4 " " 12c
2 " " 15b
1 " " 18a
2 " " 22
1 " " 23
1 " " 24
4 " " 35
56 " " 37
1 " " 37a
6 " " 38
1 " " 44
1 " " 48
3 " " 48a
1 " " 51
1 " " 54a
2 " " 90a
3 " " 111c
1 " " 126
2 " " 126a
4 " " 187
2 " " 190
4 " " 191
2 " " 192

The front Axle Rod is carried in the upturned ends of a  $1\frac{1}{2}$ "  $\times$   $\frac{1}{2}$ " Double Angle Strip bolted to the lower flange of the  $2\frac{1}{2}$ "  $\times$   $1\frac{1}{2}$ " Flanged Plate forming the radiator. A dummy steering wheel, represented by a Bush Wheel, is carried on a  $1\frac{1}{2}$ " Rod passed through the right-hand hole of a Trunnion and held in place by Spring Clips.



D1.  
Coaster

Parts required			
2 of No. 1	4 of No. 8	1 of No. 17	
8 " " 2	1 " " 15	3 " " 22	
4 " " 5	1 " " 15a	1 " " 23	
		1 " " 24	
		44 " " 37	
		4 " " 38	
		1 " " 48	
		4 " " 48a	
		1 " " 52	
		1 " " 54a	
		2 " " 62	
		2 " " 126	
		4 " " 187	

The chassis is built up from two 12½" Angle Girders and two 12½" Strips, joined together as shown and spaced apart by a 5½"×2½" Flanged Plate, a Flanged Sector Plate and a 2½"×½" Double Angle Strip. The rear axle is carried in two Trunnions and the front axle Fig. D1a in a 2½"×½" Double Angle Strip that is secured by a Bush Wheel to a short Rod mounted in the boss of a Crank.

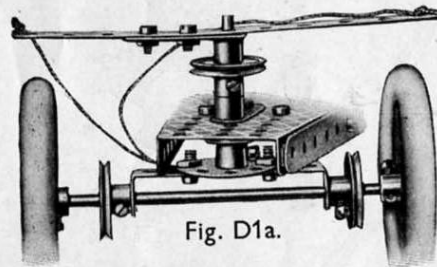
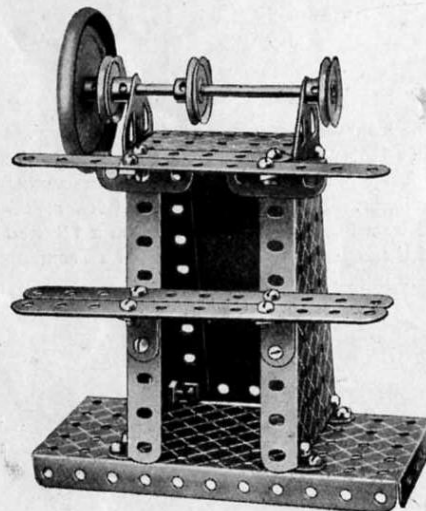


Fig. D1a.

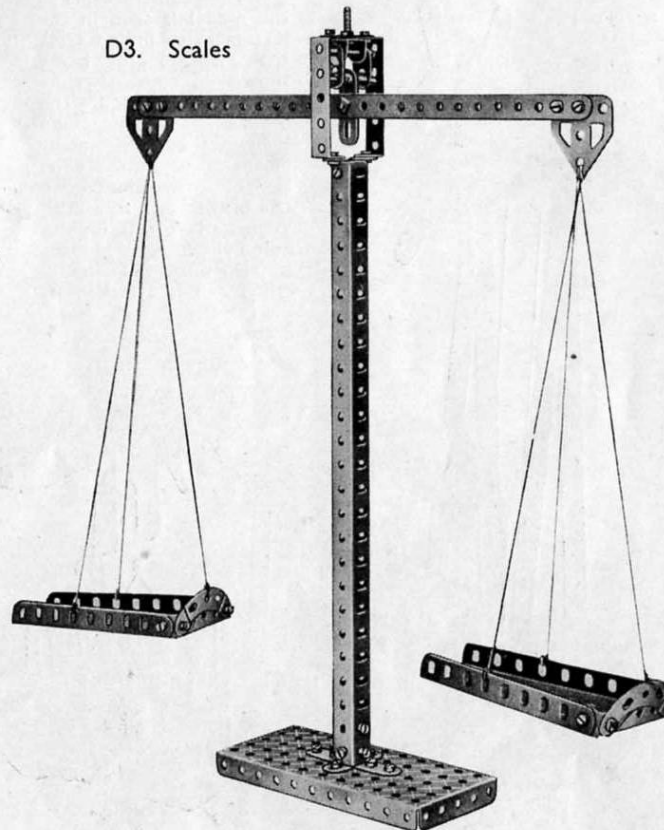
D2. Polishing Spindle

Parts required			
3 of No. 2	3 of No. 22	2 of No. 126	
1 " " 5	30 " " 37	2 " " 126a	
4 " " 12	1 " " 51	1 " " 187	
2 " " 12a	1 " " 52	1 " " 191	
1 " " 15b	2 " " 54a		



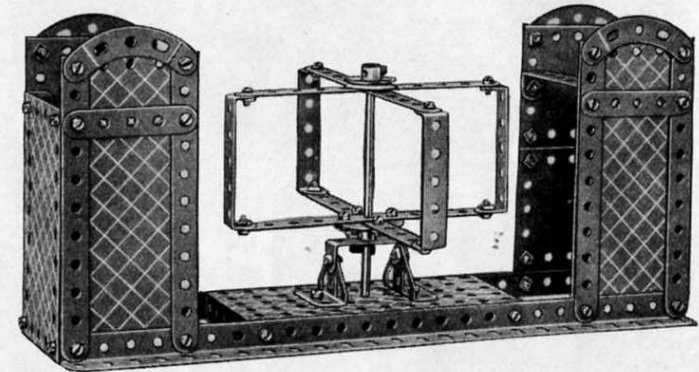
Parts required	
2 of No. 1	
1 " " 6a	
2 " " 8	
2 " " 10	
1 " " 11	
2 " " 12	
2 " " 12a	
2 " " 18a	
2 " " 35	
31 " " 37	
4 " " 38	
1 " " 40	
1 " " 45	
4 " " 48a	
1 " " 52	
2 " " 54a	
2 " " 62	
2 " " 90a	
1 " " 115	
2 " " 126a	

D3. Scales



Parts required	
12 of No. 2	
4 " " 5	
2 " " 8	
4 " " 12	
1 " " 15a	
1 " " 22	
1 " " 24	
1 " " 35	
52 " " 37	
1 " " 38	
1 " " 48	
8 " " 48a	
1 " " 52	
4 " " 90a	
2 " " 126	
4 " " 190	
2 " " 191	
2 " " 195	

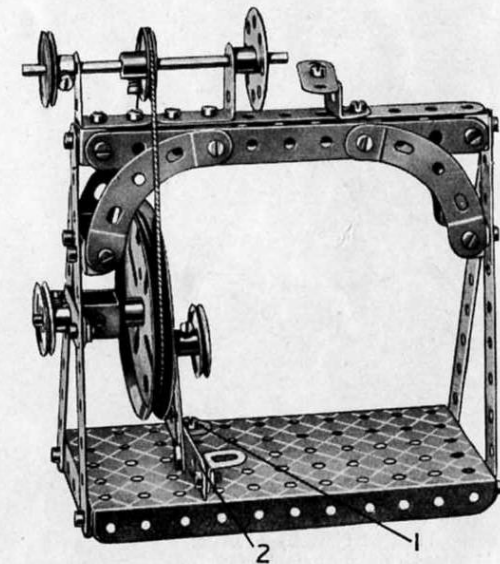
D4. Turnstile

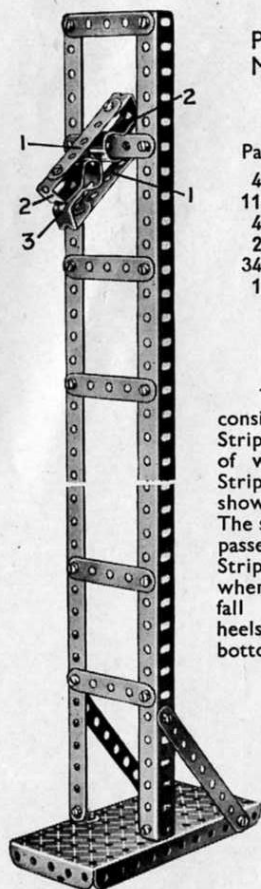


D5. Treadle Lathe

The 2½" Strip 2, forming the treadle, is attached pivotally by means of a bolt and two nuts to the Angle Bracket 1. One end of a further 2½" Strip is connected by the same means to the 2½" Strip 2, and the other end is mounted on a Threaded Pin secured to the 3" Pulley Wheel.

Parts required			
7 of No. 2	2 of No. 12a	1 of No. 35	1 of No. 45
1 " " 3	1 " " 16	34 " " 37	1 " " 52
1 " " 5	1 " " 17	2 " " 37a	4 " " 90a
2 " " 6a	3 " " 19b	4 " " 38	1 " " 115
4 " " 11	4 " " 22	1 " " 40	1 " " 125
6 " " 12	1 " " 24		



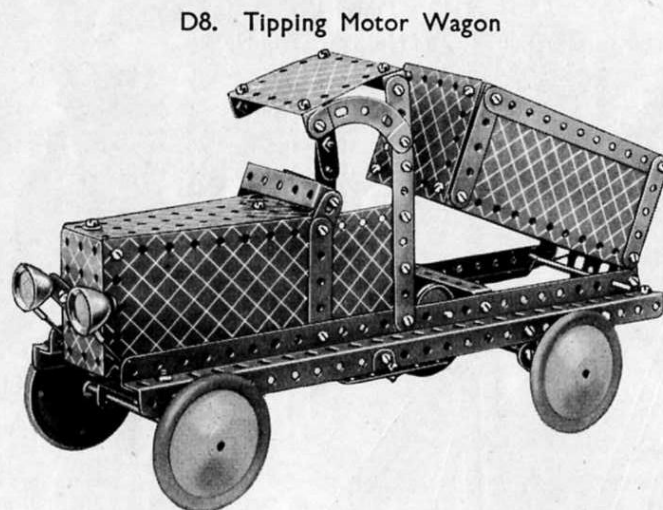


**D6.**  
Performing  
Meccanitian

Parts required

4 of No.	2
11 "	5
4 "	8
2 "	12
34 "	37
1 "	52

The Meccanitian consists of two  $2\frac{1}{2}$ " Strips 1 to the ends of which two  $5\frac{1}{2}$ " Strips 2, bent as shown, are bolted. The slot 3 should be passed over the top Strip of the ladder, when the device will fall "head over heels" to the bottom.



**D8.** Tipping Motor Wagon

The steering column is journaled at its upper end in a  $\frac{1}{2}$ " Reversed Angle Bracket, and at its lower end in one of the holes of a Flanged Sector Plate. A Bush Wheel on the lower end of the steering column is attached by two short lengths of cord to a  $2\frac{1}{2}$ " x  $\frac{1}{2}$ " Double Angle Strip forming the front axle bearing. This bearing is pivotally connected to the underside of the wagon by means of a Double Bent Strip.

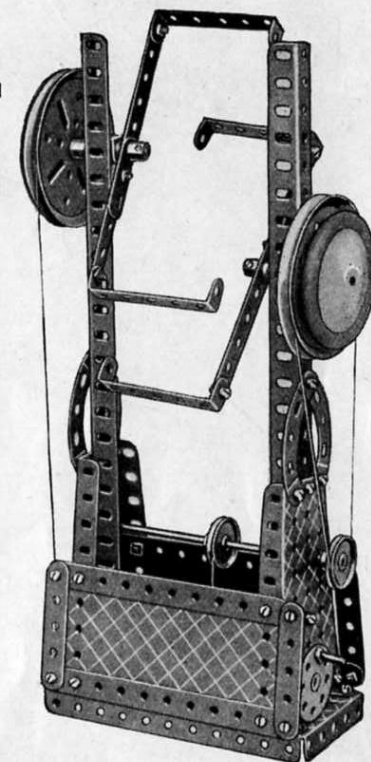
The body of the wagon, when tipping, pivots about two  $\frac{3}{8}$ " Bolts that pass through the end holes of the chassis girders and are attached to Flat Brackets on the body. The tipping movement is controlled by a cord attached to the Crank Handle by an Anchoring Spring.

Parts required

2 of No.	2
2 "	3
12 "	5
4 "	8
8 "	10
2 "	12
1 "	15
1 "	15a
1 "	15b
1 "	16
1 "	19s
3 "	22
1 "	24
5 "	35
65 "	37
6 "	37a
7 "	38
1 "	40
1 "	45
8 "	48a
1 "	51
1 "	52
2 "	54a
4 "	90a
2 "	111c
1 "	125
2 "	126a
1 "	176
4 "	187
4 "	190
2 "	191
2 "	192

(1 Lighting Set not included in Outfit)

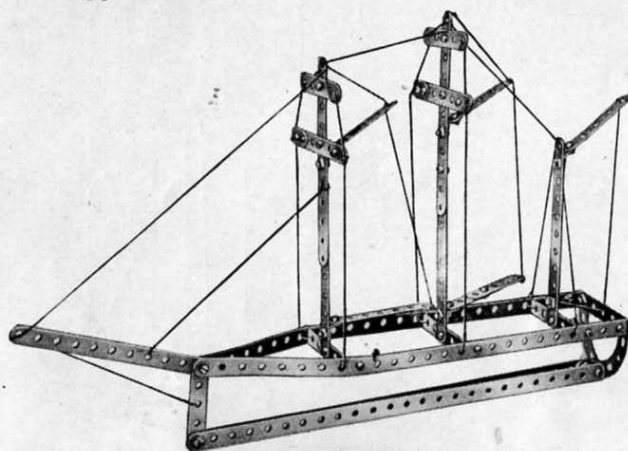
**D9.** Candy Puller



Parts required

6 of No.	2
4 "	5
2 "	8
4 "	12
2 "	15
2 "	17
2 "	19b
4 "	22
1 "	24
44 "	37
8 "	38
1 "	40
1 "	45
4 "	48a
1 "	52
2 "	54a
2 "	62
4 "	90a
1 "	115
2 "	125
1 "	176
1 "	186
2 "	187
2 "	191

**D7.**  
Square-Topsail Schooner



Parts required

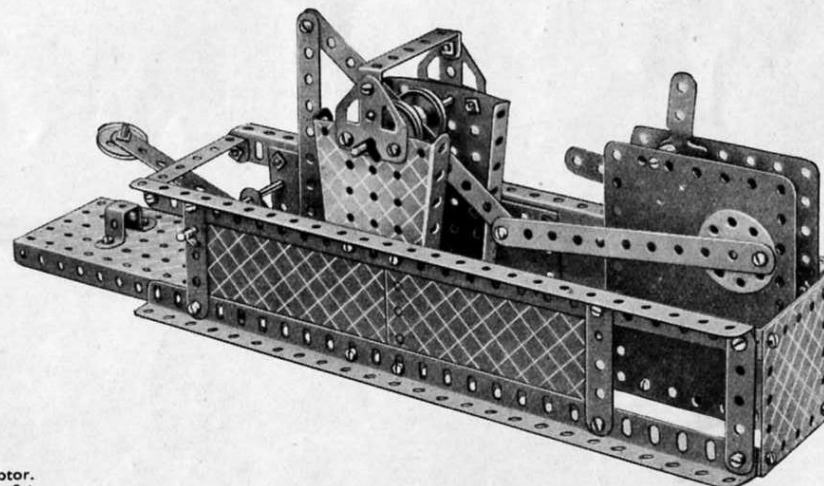
4 of No.	1
6 "	2
1 "	3
10 "	5
4 "	10
1 "	11
5 "	12
41 "	37
1 "	40
4 "	48a
2 "	90a

Parts required

4 of No.	2
5 "	5
4 "	8
1 "	11
1 "	12
2 "	16
2 "	22
1 "	22a
1 "	24
6 "	35
41 "	37
9 "	37a
8 "	38
1 "	45
4 "	48a
1 "	52
2 "	54a
6 "	111c
2 "	126a
2 "	190
2 "	191
2 "	195

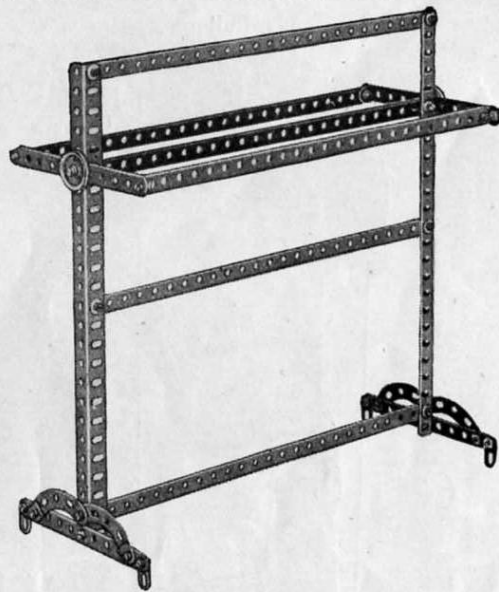
No. 2 Clockwork Motor.  
(not included in Outfit)

**D10.** Mechanical Hammer



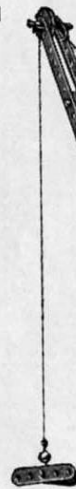


These Models can be built with **MECCANO** Outfit D (or Outfits C and Ca)



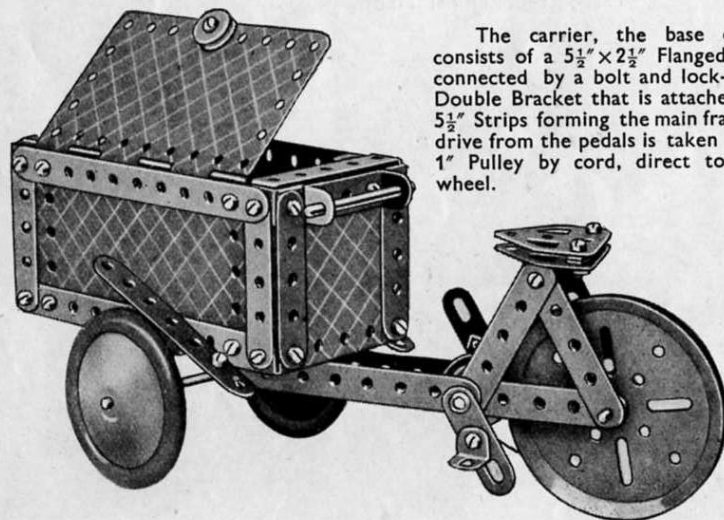
D11.  
Towel Horse

Parts required	
6 of No. 1	
4 " " 2	
2 " " 8	
4 " " 10	
4 " " 12	
2 " " 22a	
28 " " 37	
2 " " 37a	
8 " " 38	
4 " " 90a	
2 " " 111c	



D12. Carrier Tricycle

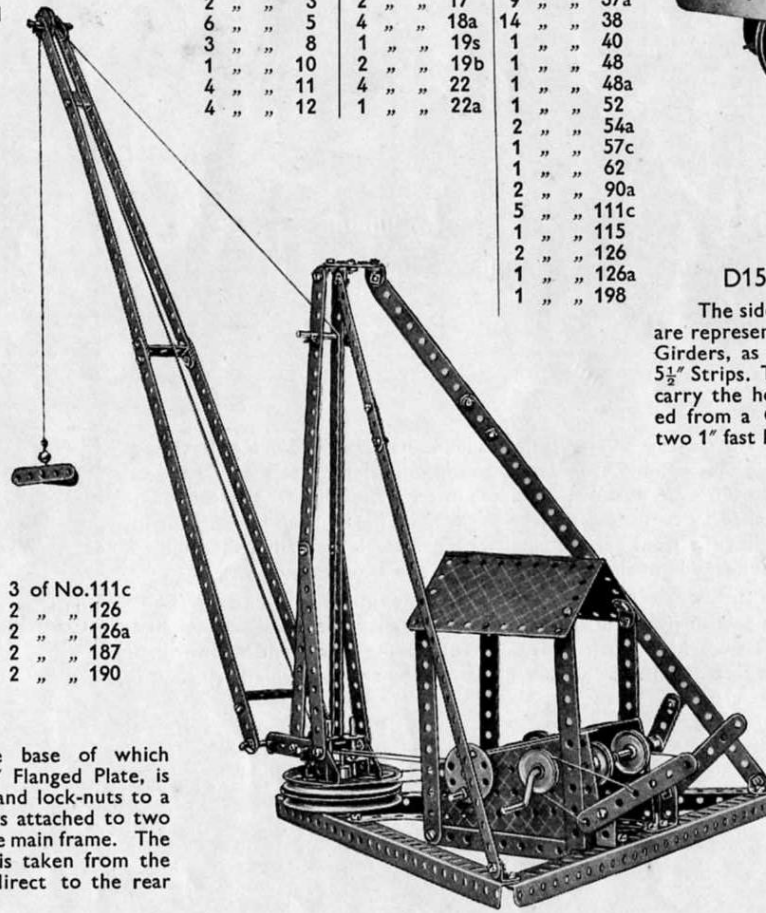
Parts required	
4 of No. 2	1 of No. 15b
2 " " 3	1 " " 17
12 " " 5	2 " " 18a
2 " " 11	1 " " 19b
6 " " 12	1 " " 22
1 of No. 23	1 of No. 40
4 " " 35	1 " " 48
40 " " 37	4 " " 48a
10 " " 37a	1 " " 52
9 " " 38	2 " " 62
1 of No. 191	1 of No. 198



The carrier, the base of which consists of a  $5\frac{1}{2} \times 2\frac{1}{2}$ " Flanged Plate, is connected by a bolt and lock-nuts to a Double Bracket that is attached to two  $5\frac{1}{2}$ " Strips forming the main frame. The drive from the pedals is taken from the 1" Pulley by cord, direct to the rear wheel.

D13. Derrick

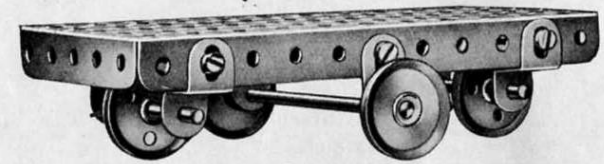
Parts required	
8 of No. 1	2 of No. 12a
8 " " 2	4 " " 12c
2 " " 3	3 " " 16
6 " " 5	2 " " 17
3 " " 8	4 " " 18a
1 " " 10	1 " " 19s
4 " " 11	2 " " 19b
4 " " 12	4 " " 22
	1 " " 22a
	1 of No. 24
	11 " " 35
	56 " " 37
	9 " " 37a
	14 " " 38
	1 " " 40
	1 " " 48
	1 " " 48a
	1 " " 52
	2 " " 54a
	1 " " 57c
	1 " " 62
	2 " " 90a
	5 " " 111c
	1 " " 115
	2 " " 126
	1 " " 126a
	1 " " 198



The base of this model is built up of three  $12\frac{1}{2}$ " Angle Girders fitted with a  $5\frac{1}{2} \times 2\frac{1}{2}$ " Flanged Plate held in place at its unsupported end by means of two  $2\frac{1}{2}$ " small radius Curved Strips. Two Flanged Sector Plates are secured to this Flanged Plate as shown and these carry the three hoisting, slewing and luffing barrels. Brakes for two of these consist of  $3\frac{1}{2}$ " Strips and Cord, the Strips being pivotally attached to the base by means of  $1 \times 1$ " Angle Brackets.

The roof is represented by a Hinged Plate secured to  $5\frac{1}{2}$ " Strips, as uprights, by means of Obtuse Angle Brackets.

D14. Revolving Truck



Parts required

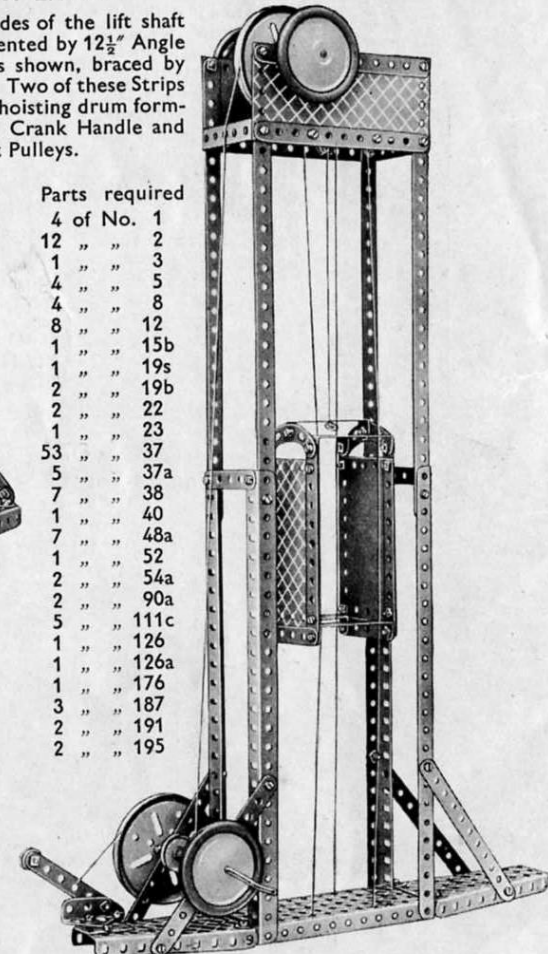
2 of No. 10	2 of No. 22	6 of No. 37
1 " " 16	2 " " 22a	1 " " 52
2 " " 17	4 " " 35	4 " " 125

D15. Elevator

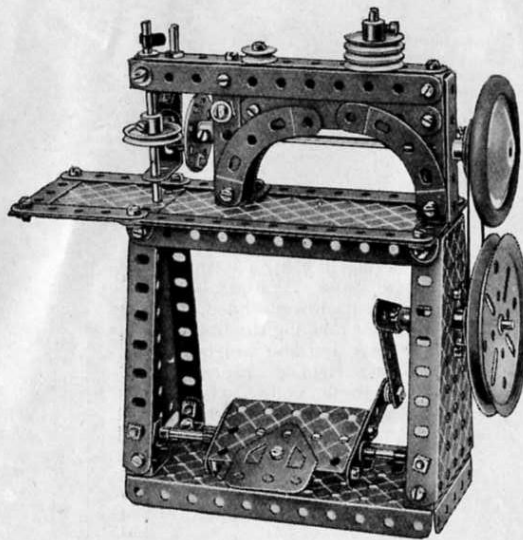
The sides of the lift shaft are represented by  $12\frac{1}{2}$ " Angle Girders, as shown, braced by  $5\frac{1}{2}$ " Strips. Two of these Strips carry the hoisting drum formed from a Crank Handle and two 1" fast Pulleys.

Parts required

4 of No. 1	
12 " " 2	
1 " " 3	
4 " " 5	
4 " " 8	
8 " " 12	
1 " " 15b	
1 " " 19s	
2 " " 19b	
2 " " 22	
1 " " 23	
53 " " 37	
5 " " 37a	
7 " " 38	
1 " " 40	
7 " " 48a	
1 " " 52	
2 " " 54a	
2 " " 90a	
5 " " 111c	
1 " " 126	
1 " " 126a	
1 " " 176	
3 " " 187	
2 " " 191	
2 " " 195	



D16. Sewing Machine

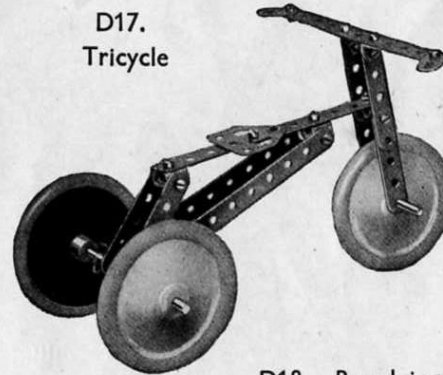


Parts required	
7 of No. 2	
2 " " 3	
6 " " 5	
1 " " 6a	
3 " " 10	
1 " " 11	
10 " " 12	
2 " " 12a	
2 " " 15	
1 " " 16	
1 " " 17	
1 " " 18a	
1 " " 19b	
2 " " 22	
4 " " 22a	
1 " " 23	
1 " " 24	
5 " " 35	
50 " " 37	
8 " " 37a	
8 " " 38	
1 " " 45	
7 " " 48a	
1 " " 51	
1 " " 52	
2 " " 54a	
1 " " 62	
4 " " 90a	
3 " " 111c	
1 " " 115	
1 " " 125	
1 " " 126a	
1 " " 176	
1 " " 186	
1 " " 187	
1 " " 190	
1 " " 195	

The base, a  $5\frac{1}{2} \times 2\frac{1}{2}$  Flanged Plate, carries two  $2\frac{1}{2} \times \frac{1}{2}$  Double Angle Strips, each of which supports a Flanged Sector Plate. The upper ends of these two Plates are coupled together by  $5\frac{1}{2}$  Strips, further Strips and Plates being secured to these by  $\frac{1}{2} \times \frac{1}{2}$  Angle Brackets. The sewing machine frame is built up on two vertical standards, each of which is constructed from two  $2\frac{1}{2} \times \frac{1}{2}$  Double Angle Strips. One of these standards is secured to a transverse  $2\frac{1}{2}$  Strip and the other to a  $1 \times 1$  Angle Bracket.

Three  $5\frac{1}{2}$  Strips are now arranged across the top of the two standards as shown, and immediately below these are fitted two  $3\frac{1}{2}$  Strips and two Flat Brackets. Four  $2\frac{1}{2}$  small radius Curved Strips complete the structure. The vertical needle holder is journaled at its upper end in one of the  $5\frac{1}{2}$  Strips mentioned earlier, and its lower end in a  $1 \times 1$  Angle Bracket, attached to the machine by a Flat Bracket and  $\frac{1}{2}$  Reversed Angle Bracket.

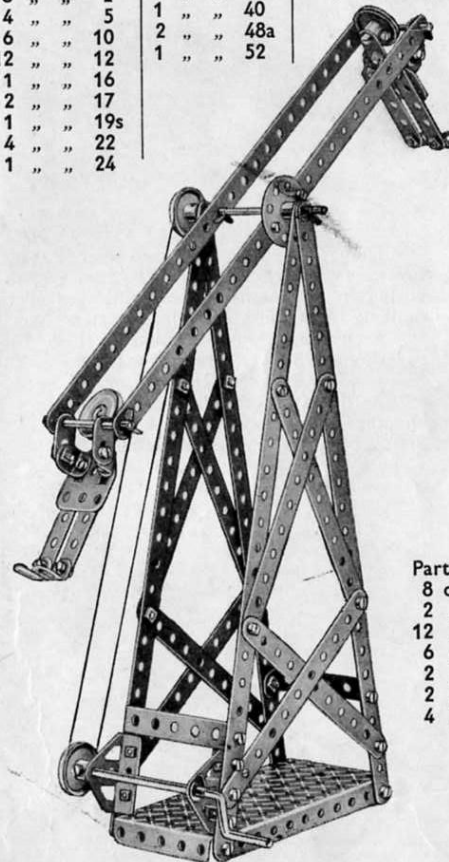
A  $1$  fast Pulley on the needle holder is caused to vibrate by a  $\frac{1}{2} \times \frac{1}{2}$  Angle Bracket secured to a Bush Wheel that is carried on a  $5$  Axle Rod. The opposite end of this Rod is fitted with a  $1$  fast Pulley and Road Wheel, the  $1$  Pulley being connected by a Driving Band to a similar Pulley on the crank shaft. The treadle and its method of operation will be seen clearly from the illustration.

D17.  
Tricycle

Parts required	
4 of No. 2	
6 " " 5	
2 " " 10	
3 " " 11	
2 " " 12	
1 " " 16	
1 " " 18a	
2 " " 35	
15 " " 37	
2 " " 37a	
1 " " 111c	
1 " " 126a	
3 " " 187	

D18. Revolving Meccanicians

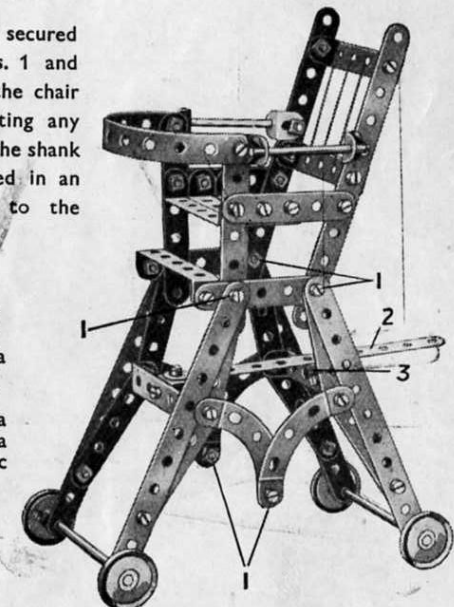
Parts required		8 of No. 35	2 of No. 111c
6 of No. 1	42 " " 37	2 " " 126	
8 " " 2	1 " " 38	2 " " 126a	
4 " " 5	1 " " 40		
6 " " 10	2 " " 48a		
12 " " 12	1 " " 52		
1 " " 16			
2 " " 17			
1 " " 19s			
4 " " 22			
1 " " 24			



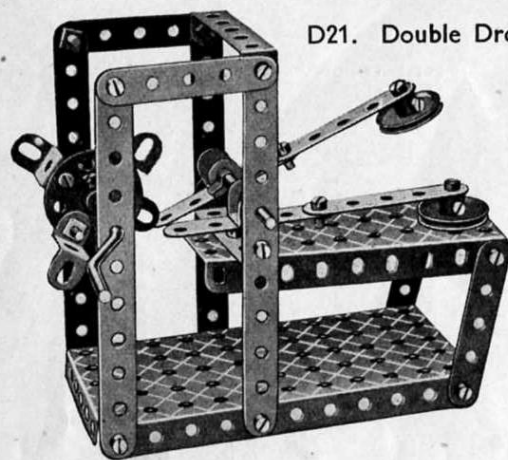
D20. Baby Chair

The Bolts 1 are all secured pivotally (see S.M. Nos. 1 and 1a), and the height of the chair can be adjusted by fitting any hole in the Strip 2 over the shank of a Bolt that is secured in an Angle Bracket bolted to the Double Angle Strip 3.

Parts required		4 of No. 35	
8 of No. 2	35 " " 37		
2 " " 3	2 " " 37a		
12 " " 5	4 " " 38		
6 " " 12	1 " " 40		
2 " " 16	8 " " 48a		
2 " " 17	4 " " 90a		
4 " " 22	1 " " 111c		







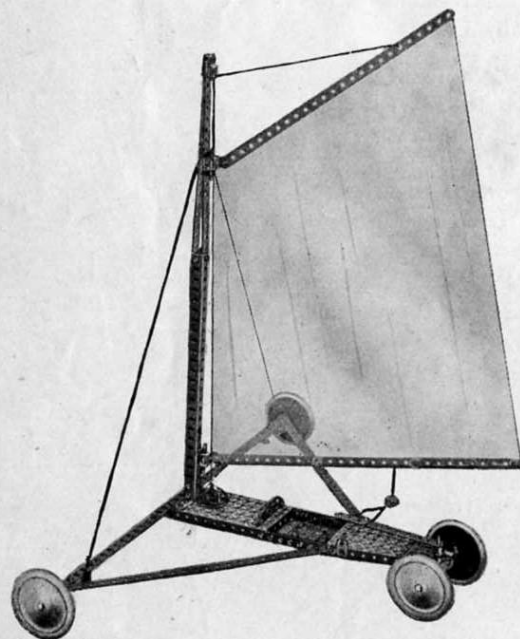
D21. Double Drop Hammer

## Parts required

4 of No.	2
8 "	5
2 "	11
1 "	16
1 "	19s
2 "	22
1 "	24
6 "	35
23 "	37
2 "	48a
1 "	52
1 "	54a
4 "	125

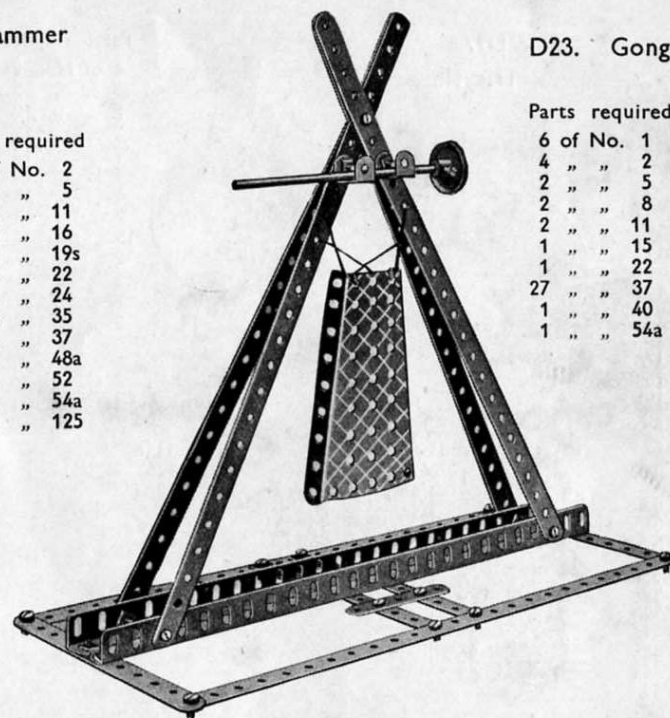
D22. Land Yacht

The chassis of the model is represented by a  $5\frac{1}{2}'' \times 2\frac{1}{2}''$  Flanged Plate and a Flanged Sector Plate, the two parts being joined together as shown by Strips, and the intermediate space filled in by  $2\frac{1}{2}'' \times \frac{1}{2}''$  Double Angle Strips. The rear axle bearing, a  $2\frac{1}{2}'' \times \frac{1}{2}''$  Double Angle Strip, is secured to its pivot by a Bush Wheel. A Crank and  $5\frac{1}{2}''$  Strip form the tiller.



## Parts required

8 of No.	1
2 "	2
1 "	5
4 "	8
4 "	10
4 "	11
2 "	12
2 "	12a
3 "	16
1 "	17
2 "	18a
1 "	23
1 "	24
12 "	35
60 "	37
9 "	38
1 "	40
8 "	48a
1 "	52
1 "	54a
1 "	62
1 "	90a
1 "	115
4 "	125
1 "	126
2 "	126a
4 "	187



D23. Gong

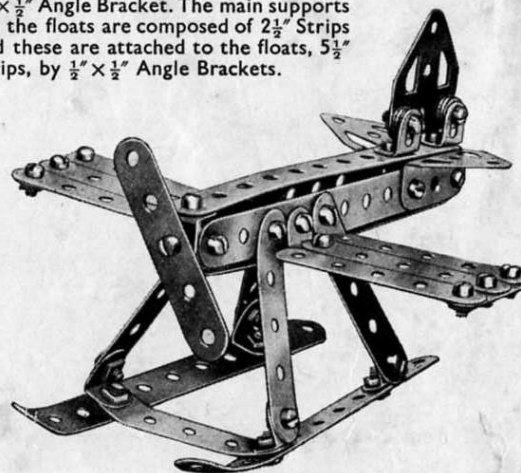
## Parts required

6 of No.	1
4 "	2
2 "	5
2 "	8
2 "	11
1 "	15
1 "	22
27 "	37
1 "	40
1 "	54a

D24. Schneider Trophy Seaplane

Four  $5\frac{1}{2}''$  Strips held together by means of Double Brackets form the fuselage, the rear end of which is fitted with two Trunnions representing tail planes. The fin is built up from a Flat Trunnion and two  $\frac{1}{2}'' \times \frac{1}{2}''$  Angle Brackets.

Each of the wings consists of three  $2\frac{1}{2}''$  Strips secured together by a  $1\frac{1}{2}''$  Strip and attached to the fuselage by a  $\frac{1}{2}'' \times \frac{1}{2}''$  Angle Bracket. The main supports for the floats are composed of  $2\frac{1}{2}''$  Strips and these are attached to the floats,  $5\frac{1}{2}''$  Strips, by  $\frac{1}{2}'' \times \frac{1}{2}''$  Angle Brackets.



D25. "Try-Your-Strength" Machine

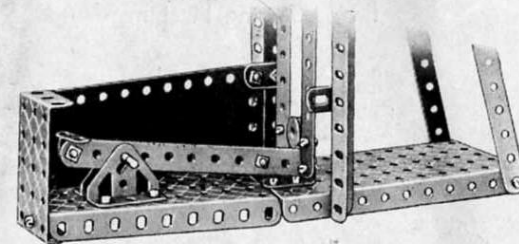


Fig. D25a

The striker (Fig. D25b), a Bush Wheel mounted on a 2" Rod, is allowed to rest at its lower end on one end of the lever forming the link between the striker and the weight (Fig. D25a). The weight is represented by a  $\frac{1}{2}''$  loose Pulley, and slides vertically between two lengths of Strips.

## Parts required

6 of No.	1	4 of No.	5
6 "	2	2 "	6a
1 "	3	4 "	8
		4 "	10
		3 "	12
		2 "	12a
		1 "	17
		1 "	18a
		1 "	23
		1 "	24
		2 "	35
		66 "	37
		5 "	37a
		2 "	38
		1 "	45
		1 "	48a
		1 "	51
		1 "	52
		2 "	54a
		3 "	90a
		5 "	111c
		2 "	126
		1 "	176
		2 "	195

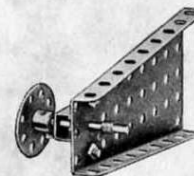
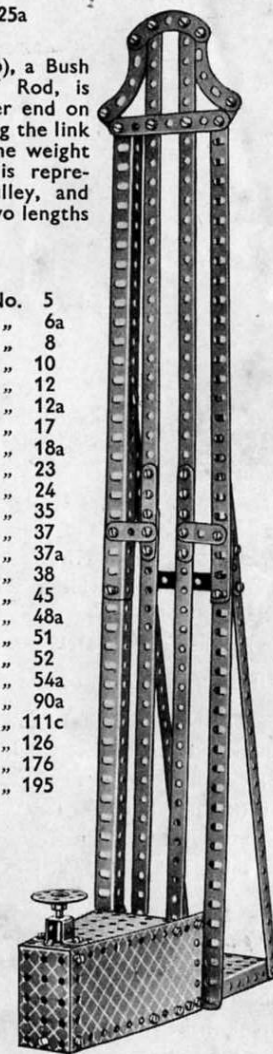
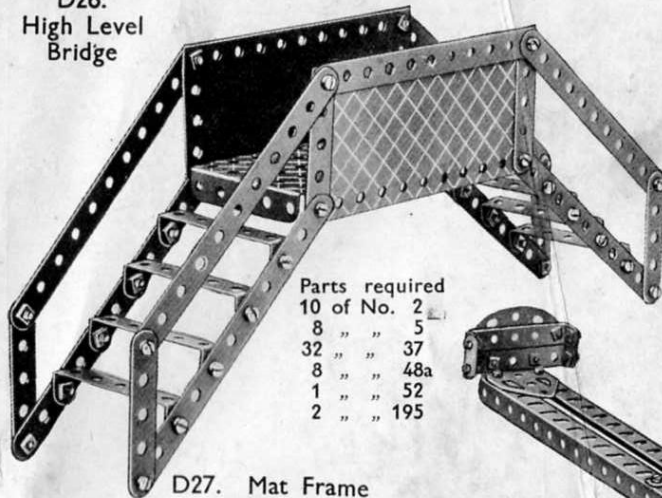


Fig. D25b

## Parts required

6 of No.	2
12 "	5
2 "	6a
2 "	11
12 "	12
34 "	37
3 "	37a
6 "	38
2 "	111c
2 "	126
1 "	126a

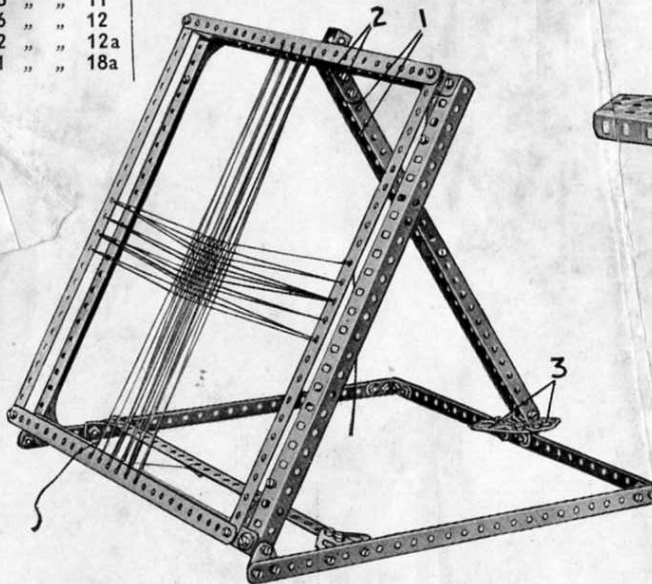


D26.  
High Level  
Bridge

Parts required  
10 of No. 2  
8 " " 5  
32 " " 37  
8 " " 48a  
1 " " 52  
2 " " 195

D27. Mat Frame

Parts required	54 of No. 37	2 of No. 62	4 of No. 125
10 of No. 1	2 " " 37a	4 " " 90a	2 " " 126
4 " " 8	2 " " 38	2 " " 111c	2 " " 126a
4 " " 10	1 " " 45	1 " " 115	
3 " " 11			
6 " " 12			
2 " " 12a			
1 " " 18a			



Parts required

8 of No. 1	6 of No. 38
14 " " 3	1 " " 40
2 " " 5	1 " " 44
8 " " 6a	8 " " 48a
2 " " 8	1 " " 52
4 " " 12	2 " " 54a
4 " " 16	4 " " 90a
2 " " 19b	5 " " 111c
3 " " 22	2 " " 126a
1 " " 24	1 " " 176
5 " " 35	3 " " 190
6 " " 37	2 " " 191
6 " " 37a	

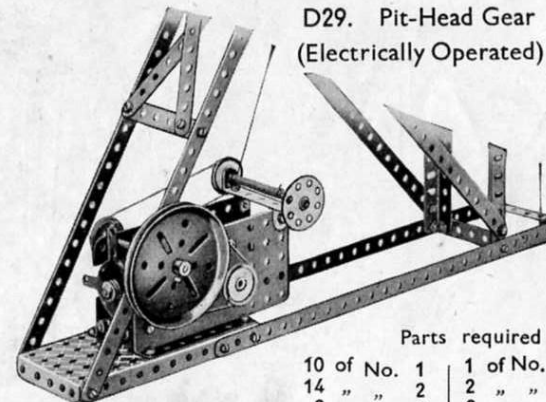
No. E6.  
Electric Motor  
(not included in  
Outfit).

D28. Roundabout See-Saw

Parts required	4 of No. 10	2 of No. 35
2 of No. 6a	4 " " 12	34 " " 37
4 " " 8	1 " " 16	4 " " 37a
	1 " " 18a	6 " " 38
	2 " " 19b	1 " " 48
	1 " " 24	6 " " 48a
		2 " " 54a
		2 " " 90a
		4 " " 111c
		2 " " 126
		2 " " 126a

D27 (continued)

The Strips 1 are hinged to the frame in the following manner. Two Cranks 2 with their bosses facing inward are bolted to the Strips 1 and two Angle Brackets are secured to the frame. A Rod is then pushed through the holes in the Angle Brackets and secured in the bosses of the Cranks. A Double Bracket fastened to the ends of the Strips 1 carries a Threaded Pin, which fits in the holes in the Flat Trunnions 3. By removing this Pin, the frame can be folded flat.

D29. Pit-Head Gear  
(Electrically Operated)

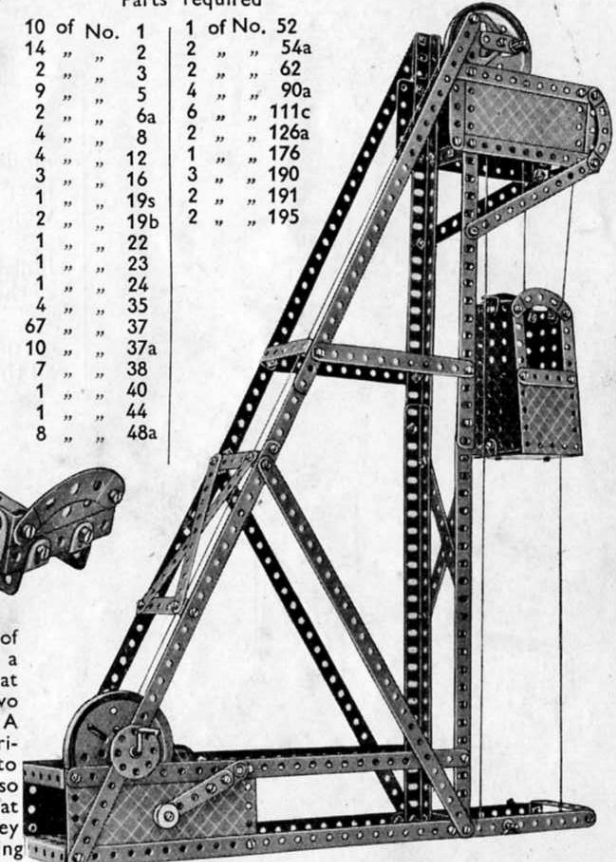
The Motor is carried on a  $5\frac{1}{2} \times 2\frac{1}{2}$  Flanged Plate, and supports on its armature shaft a 1" fast Pulley. This is connected by a short length of cord to a 3" Pulley that in turn rotates a second 1" fast Pulley. This is coupled to a third similar Pulley on the hoisting shaft. The head of the model is similar to that of model D30.

D30. Pit-Head Gear  
(Hand Operated)

Parts required	10 of No. 1	1 of No. 52
14 " " 2	2 " " 54a	
2 " " 3	2 " " 62	
9 " " 5	4 " " 90a	
2 " " 6a	6 " " 111c	
4 " " 8	2 " " 126a	
4 " " 12	1 " " 176	
3 " " 16	3 " " 190	
1 " " 19s	2 " " 191	
2 " " 19b	2 " " 195	
1 " " 22		
1 " " 23		
1 " " 24		
4 " " 35		
67 " " 37		
10 " " 37a		
7 " " 38		
1 " " 40		
1 " " 44		
8 " " 48a		

D30 (continued)

The rear of the base of this model is fitted with a  $5\frac{1}{2} \times 2\frac{1}{2}$  Flanged Plate that carries at its sides two  $5\frac{1}{2} \times 2\frac{1}{2}$  Strip Plates. A  $12\frac{1}{2}$  Strip secured horizontally to each of these to form a strengthener, also carries the brake that operates on a 3" Pulley mounted on the winding handle.

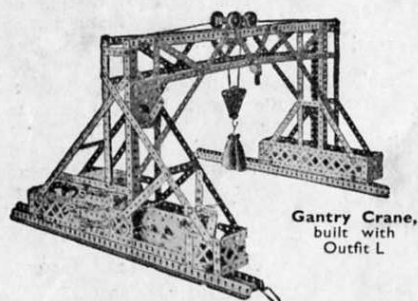


## HOW TO CONTINUE

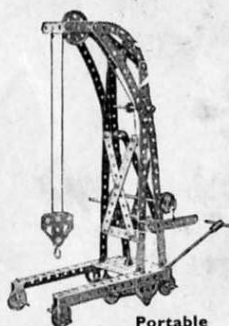
This completes our examples of models that can be made with MECCANO Outfit D (or C and Ca). The next models are a little more advanced, requiring a number of extra parts to construct them. The necessary parts are all contained in a Da Accessory Outfit, which can be obtained from any Meccano Dealer.



# Build Bigger and Better Models



Gantry Crane,  
built with  
Outfit L



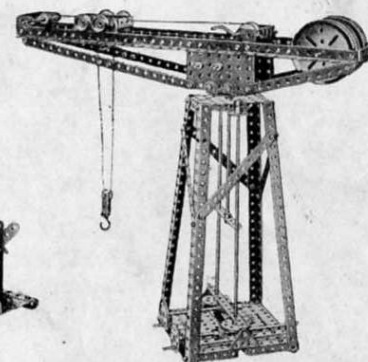
Portable  
Crane,  
built with  
Outfit K



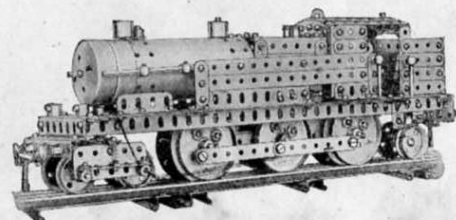
Gantry Crane,  
built with  
Outfit H



Stone Sawing  
Machine,  
built with Outfit K



Girder Crane,  
built with  
Outfit G



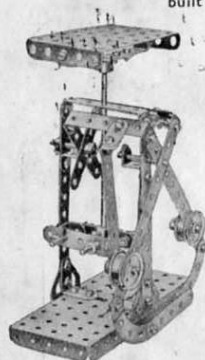
Clockwork Pacific  
Tank Locomotive,  
built with Outfit L

## Keep adding to your Outfit

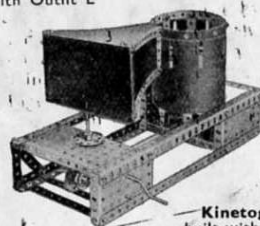
The more Meccano parts you have, the bigger and better the models you are able to build. Keen and enthusiastic model-builders keep adding to their Outfits, until they are able to build all the wonderful models shown in the Meccano Manuals.

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.

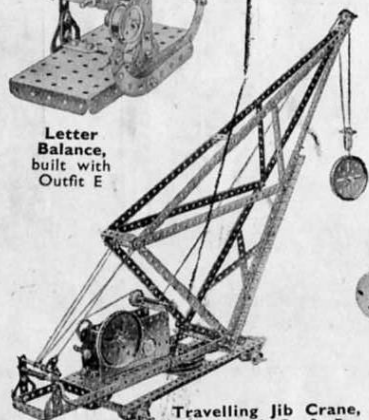
You can purchase separate Meccano parts as you require them or, if you prefer, you can purchase Accessory Outfits that connect all the main Outfits.



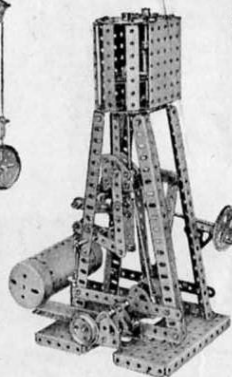
Letter  
Balance,  
built with  
Outfit E



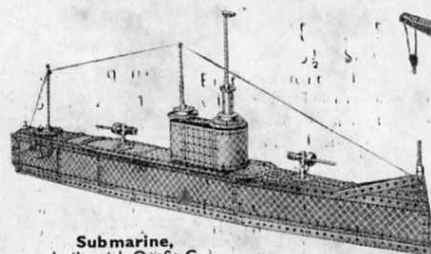
Kinetograph,  
built with Outfit F



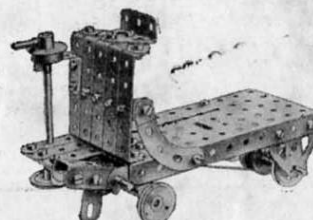
Travelling Jib Crane,  
built with Outfit E



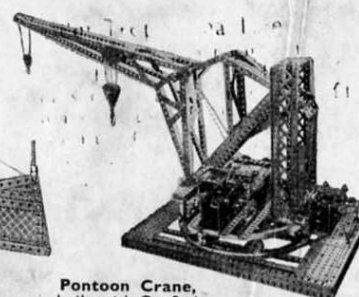
Vertical  
Marine Engine,  
built with Outfit H



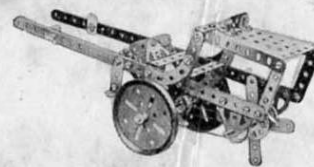
Submarine,  
built with Outfit G



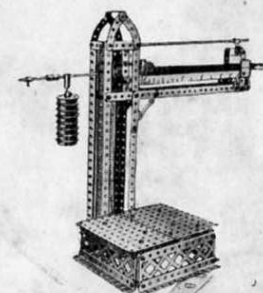
Electric Truck,  
built with Outfit E



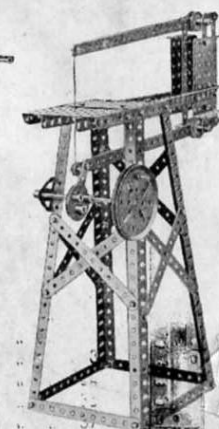
Pontoon Crane,  
built with Outfit L



Hay Tedder,  
built with Outfit E



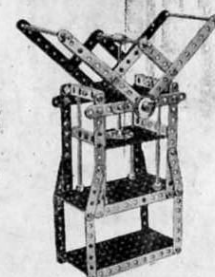
Platform Scale,  
built with Outfit



Fret Saw,  
built with Outfit H



Windmill,  
built with  
Outfit, E



Bale Press,  
built with Outfit G

# MECCANO

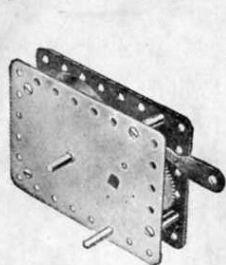
## POWER UNITS FOR OPERATING MECCANO MODELS

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

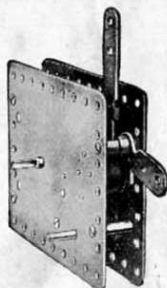
These are the finest Clockwork motors obtainable for model driving. They have exceptional power and length of run and their gears are cut with such precision as to make them perfectly smooth and steady in operation.

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.



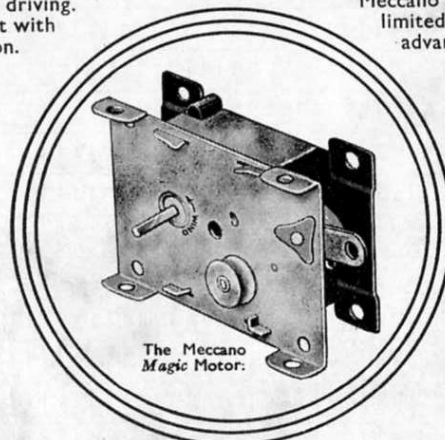
**No. 1 Clockwork Motor**

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**

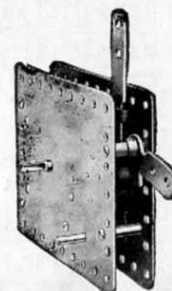
This Motor is more powerful than the No. 1 Motor and is fitted with reversing motion. It has brake and reverse levers.



The Meccano Magic Motor:

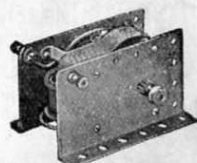
### The Meccano Magic Motor

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.



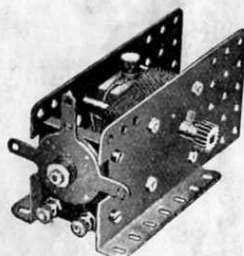
**No. 2 Clockwork Motor**

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.

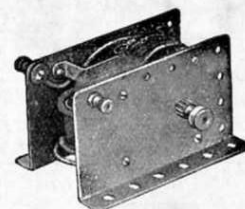


**No. E6 Electric Motor (6-volt)**

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.

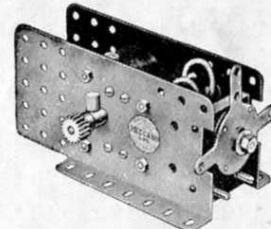
### MECCANO ELECTRIC MOTORS

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.

**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. T20a Transformer



No. T20 Transformer

Ask your dealer for a complete price list.



# CONTENTS OF OUTFITS AND COMPLETE LIST OF MECCANO PARTS

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**FOR ILLUSTRATIONS OF MECCANO PARTS REFER TO BACK PAGE OF COVER**



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

No.	Description.	A	Ba	C	Ca	D	Da	E	Ed	F	Fa	G	Ga	H	Ha	K	Ka	L
142c	Motor Tyres, 1" diam.																	1
142d	"Circular Girders, 5 1/2" diam.																	1
143	Dog Clutches																	2
144	Circular Plates, 6" diam.																	2
145	"Pawls with pivot bolt and nuts																	4
146a	"Pawls with 2 Nuts																	8
147	"Pawls without Boss																	2
147b	"Ratchet with 2 Nuts																	4
147c	"Ratchet with 1 Nut																	2
148	"Collector Shoes for Loco																	2
149	"Collector Shoes for Loco																	2
150	"Cone Gears																	2
151	"Pulley Blocks, 1" Sheave																	2
152	"Pulley Blocks, 2" Sheaves																	4
153	"Corner Angle Brackets, R.H.																	2
154a	"Rubber Rings, 1/2" diam.																	2
154b	"Rubber Rings, 3/4" diam.																	2
155	"Pointers, 2 1/2" with boss																	1
156	"Fans 2" diam.																	1
157	"Signal Arms, Home																	1
158a	"Signal Arms, Distant																	1
158b	"Channel Bearings, 1 1/2" x 1 1/2" x 1 1/2"																	1
159	"Girder Brackets, 2" x 1" x 1 1/2"																	1
160	"Boiler with ends, complete																	1
161	"Boiler Ends																	1
162a	"Boilers without Ends																	1
162b	"Sleeve Pieces																	1
163	"Chimney Adaptors																	1
164	"Swivel Bearings																	1
165	"End Bearings																	1
166	"Geared Roller Bearings																	1
167	"Roller Races, Geared, 192 teeth																	1
167a	"Pinions 16-teeth																	1
167b	"Ball Bearings, 4" diam.																	1
168	"Ball Bearings, 4" diam.																	1
168a	"Ball Races, Flanged Disc																	1
168b	"Toothed																	1
168c	"Ball Casings complete with Balls																	1
169	"Digger Buckets																	1
170	"Eccentrics 1/2" throw																	1
171	"Socket Couplings																	1
172	"Pendulum Connections																	1
173	"Rail Adaptors																	1
174	"Grease Cups																	1
175	"Flexible Coupling Units																	1
176	"Anchoring Springs for Cord																	1
177	"Shafting Standard, Large																	1
178	"Rod Socket																	1
179	"Gear Ring 3 1/2"																	1
180	"Bobbins																	1
181	"Insulating Bushes																	1
182	"Lamp Holders																	1
183	"Lamps, 2 1/2" volt																	1
184a	"Lamps, 3 1/2" volt																	1
184b	"Lamps, 6" volt																	1
184c	"Lamps, 10" volt																	1
184d	"Lamps, 20" volt																	1
184e	"Steering Wheel 1 1/2" diam.																	1
185	"Driving Bands																	1
186	"Road Wheels																	1
187	"Flexible Plates, 2 1/2" x 1 1/2"																	1
188	"Strip, 2 1/2" x 1 1/2"																	1
189	"Strip, 2 1/2" x 1 1/2"																	1
190	"Strip, 2 1/2" x 1 1/2"																	1
191	"Strip, 2 1/2" x 1 1/2"																	1
192	"Strip, 2 1/2" x 1 1/2"																	1
193	"Strip, 2 1/2" x 1 1/2"																	1
194	"Strip, 2 1/2" x 1 1/2"																	1
195	"Strip, 2 1/2" x 1 1/2"																	1
196	"Strip, 2 1/2" x 1 1/2"																	1
197	"Strip, 2 1/2" x 1 1/2"																	1
198	"Hinged Flat Plates, 4 1/2" x 2 1/2"																	1
199	"Lamps with Flex																	1
200	"Angle Brackets (for Headlamps)																	1
201	"Headlamps																	1
202	"Headlamp Nuts																	1
203	"Lampshades																	1
204	"Lamp Bases																	1
205	"Battery Tags and Stud																	1
206	"Washers for Battery Stud																	1
207	"Nuts																	1
208a	"Helical Gear 1/2" (Can only be used together)																	1
208b	"Terminals, 1/2" (Can only be used together)																	1
209	"Washers, Insulating																	1
210	"6 B.A. Screws																	1
211a	"Clockwork Motor No. 2																	1
211b	"Electric Motor No. E6 (6 volt)																	1

## SPECIAL INSTRUCTION LEAFLETS

No. 1a—Motor Chassis  
 " 2—High-speed Ship-Coaler  
 " 3—Dredger  
 " 4—Stiff Leg Derrick  
 " 5—Platform Scales  
 " 6—Bagatelle Table  
 " 7—Log Saw  
 " 8—Horizontal Engine  
 " 9—Scissorsawing Machine  
 " 10—Meccano-graph

No. 14a—New Grandfather Clock  
 " 15a—New Loom  
 " 16—Planing Machine  
 " 17—Revolving Crane  
 " 18—Steam Shovel  
 " 19—Electric Mobile Crane  
 " 20—Transporter Bridge  
 " 21—Traction Engine  
 " 22—Vertical Log Saw  
 " 23—Travelling Gantry Crane

No. 25—Hydraulic Crane  
 " 26—Twin-elliptic Harmonograph  
 " 27—Pontoon Crane  
 " 28—Hammerhead Crane  
 " 29—Breakdown Crane  
 " 30—Warehouse  
 " 31—Automatic Grabbing Crane  
 " 32—Electric Derrick Crane  
 " 33—Howitzer Limber and Tractor

Outfits Ha and K contain Special Instruction Leaflets Nos. 7, 9, 10, 11a, 12 and 37.  
 Outfit Ka contains Special Instruction Leaflets Nos. 1a, 2, 3, 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.

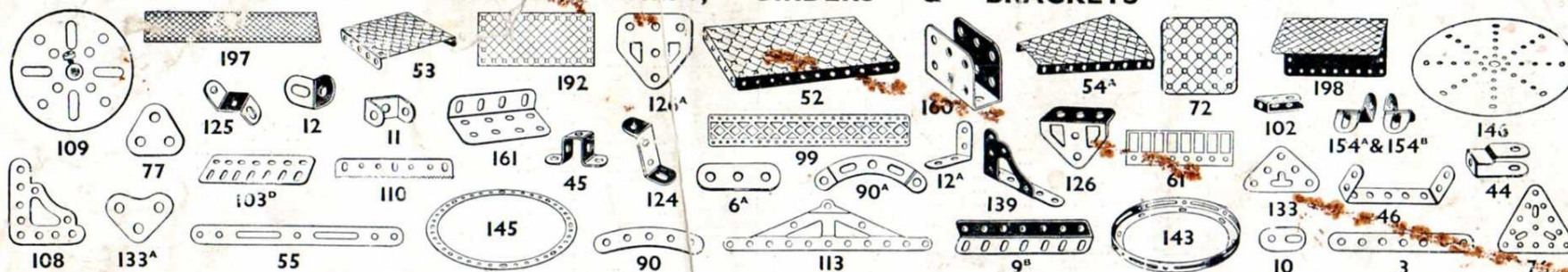
## LIST OF MODELS ILLUSTRATED IN THIS MANUAL

Acrobat on Seesaw ...	C41	Crane, Travelling ...	C10 ; C68	King Meccano ...	C95	Saw Bench ...	B27
Aerial Flight ...	C14	Crane, Warehouse ...	C84	Ladder ...	A69	Scales ...	A57 ; B19 ; D3
Aeroplane ...	C77 ; C77M	Cruiser ...	A53	Ladder on Wheels ...	A10 ; C49	Schneider Trophy Seaplane ...	D24
American Saddle ...	B40	Cum Bak ...	C40	Lamp Standard ...	C104	School Blackboard ...	B81
Anchor ...	A12	Deck Chair ...	A68 ; C48	Lancer ...	C87	Scooter ...	B115
Anti-Aircraft Gun ...	A26	Dentist Chair ...	B109	Land Yacht ...	C92	See-saw ...	B118
Arc Lamp ...	B113	Derrick ...	D13	Letter Balance ...	C9	Sedan Chair ...	B65
Arm Chair ...	A48 ; B31	Derrick Crane ...	B30 ; B30M	Lever of 1st Order ...	A28	Sensitive Drill ...	B1C8 ; B108M
Ash Cart ...	B63	Devil Wall ...	A46	Lever of 2nd Order ...	A45	Sewing Machine ...	D16
Autogiro ...	C70	Dignity and Impudence ...	C59	Level Crossing Barrier ...	A77	Shifting Standard ...	A21
Automatic Signals ...	B67	Dinner Wagon ...	A91	Liner ...	A11	Shelter ...	B89
Baby Chair ...	D20	Disappearing Meccanician ...	C71	Loading Gauge ...	B50	Shepherd's Crook ...	B64
Bagatelle Table ...	C102	Dog ...	A9	Low Wing Monoplane ...	C67	Ship's Steering Gear ...	C47
Baggage Cart ...	A88	Double Action Piston Connection ...	C108	Luggage Truck ...	C12	Sideboard ...	B120
Baggage Truck ...	A70	Double Action Pump ...	C86	Lumber Truck and Horse ...	A62 ; A62M	Single Sheave Pulley Block ...	B18
Ballista ...	C81	Double Drop Hammer ...	D21	Magic Plate ...	A67	Skier ...	A66
Band Brake ...	C1	Drafting Table ...	B10	Mail Bag Hanger ...	A76	Sled ...	A71
Band Saw ...	A63	Drill ...	C105	Man and Boy ...	B1	Sledge ...	A95
Banjo ...	B33	Drilling Machine ...	A52 ; A52M ; B21	Man Climbing Pole ...	C83	Sliding Gate ...	C79
Barrow ...	A35	Dressing Table ...	B114	Manual Fire Engine ...	C35	Spaniel ...	A79
Bath Chair ...	A24 ; C8	Dump Car ...	B78	Mat Frame ...	D27	Spinning Buttons ...	C28
Bath with Shower ...	B29	Easel ...	D19	Meccano Lancer ...	C45	Sports Car ...	C1 ; C11M
Battle-axe ...	A31	Easel and Board ...	B85	Mechanica Gong ...	C92	Sports Coupe ...	C100 ; C100M
Battleship ...	A25 ; B28	Electric Trolley ...	B46	Mechanica Hammer ...	D10	Square-Topsail Schooner ...	D7
Bed ...	A75	Elephant ...	A94	Mechanical Shovel ...	B34 ; C32	Stamping Machine ...	B121
Bed Table ...	A5	Elevated Jib Crane (Hard) ...	C21	Medal ...	B101	Stamping Mill ...	A78
Belt Gear ...	C31 ; C61 ; C62	Elevated Jib Crane (Electric) ...	C25	Milk Float ...	B103	Station Seat ...	B57
Bench ...	A65	Elevator ...	C75 ; D15	Milk Truck ...	A41	Steeplechaser ...	B87
Bench Lathe ...	B43	Extended Ash Tip ...	C42	Miller's Cart ...	B94 ; B94M	Step Ladder ...	A39
Bicycle ...	C99	Fan ...	B2	Mobile Crane ...	C27 ; C27M	Step Ladder on Wheels ...	B97
Biplane ...	B119	Fencers ...	B74	Modern Dressing Table ...	B41	Stool for Dressing Table ...	B58
Blacksmith ...	A80 ; C106	Field Roller ...	C23	Motor Boat ...	B44	Strong Man ...	B66
Bogie Truck ...	A6	Fire Axe ...	A14	Motor Cycle and Sidecar ...	B25	Sulky ...	B52
Bow and Arrow ...	B37	Fire Screen ...	A50	Motor Lorry with Crane ...	C88	Swing ...	A72 ; B38
Box Ball Alley ...	C29	Flat Truck ...	A15 ; A33	Motor Tractor ...	C20	Swinging Boat ...	B68
Boxer ...	B60	Flip-Flop ...	C98	Motor Van ...	C24	Swinging Garden Seat ...	B86
Boy on Swing ...	C94	Fly Boats ...	B102 ; C65 ; C73 ; C65M	Mounted Cowboy ...	C7	Swivelling Crane ...	B14 ; C97
Bread Van ...	B51 ; B51M	Footbridge ...	B75	Music Stool ...	A18	Swivelling Jib Crane (Electric) ...	C109
Breakdown Crane ...	A96 ; B98	Fork ...	A38	Ore Crusher ...	A19	Swivelling Jib Crane (Hand) ...	C111
Brewer's Dray ...	B69	Friction Grip Tongs ...	C17	Ostrich ...	A43	Sword ...	A3
Bucking Broncho ...	B11	Gallows ...	A49	Ostrich ...	B62	Table ...	A74
Buffers ...	A81	Gangway ...	B96	Overhead Crane ...	C110	Tandem Car ...	C6
Bullock Cart ...	B5	Garden Seat ...	A42	Paddle Steamer ...	C55 ; C55M	Tea Wagon ...	A40
Butter Churn ...	C15	Gas Stove ...	A27	Pantograph ...	C85	Teacher's Desk ...	B41
Cable Railway ...	C19	Gate ...	C44	Parallel Bars ...	B3	Telegraph Pole ...	A17
Calf ...	A90	Giant Foundry Ladle ...	C96	Pecking Hen ...	B53	Telegraph Key ...	A55
Candy Puller ...	D9	Giraffe ...	A44	Per Rack ...	A36	Telephone ...	A23 ; C43
Caravan ...	B76	Go-Chair ...	A16	Perambulator ...	B91	Telescopic Mast ...	C36
Cart ...	A64 ; C51	Gong ...	B22 ; D23	Performing Meccanician ...	D6	Telpher Span (Electric) ...	C58
Card Table ...	B20	Goose ...	B71	Pilgrimage ...	C89	Telpher Span (Hand) ...	C60
Carrier Tricycle ...	D12	Gramophone ...	C30	Pilgrimage ...	A61 ; D29 ; D30	Tightrope Walker ...	C38
Catapult ...	A56 ; B12	Grandfather Clock ...	A60 ; B99	Pneumatic Hammer ...	C18	Timber Drag ...	C46
Cattle Truck ...	B15 ; B72	Grass Cutter ...	B54	Polishing Spindle ...	D2	Timber Truck ...	A29
Centrifugal Engine Governor ...	A22	Gravel Sifter ...	A4	Porter's Trolley ...	A89	Tipping Motor Wagon ...	D8
Centrifugal Governor ...	C63	Grill ...	C39	Porter's Wheel ...	C56	Top ...	A92 ; C54
Chaff Cutter ...	B42	Guillotine ...	B26 ; C33	Power Hack Saw ...	B106 ; B106M	Towel Horse ...	D11
Chair ...	A34 ; B70	Gymnast ...	C91	Power Hack Saw ...	B59	Tower Wagon ...	C16
Chase ...	B116	Hammerhead Crane ...	A13	Punch Bag Stand ...	B32 ; B32M	Tram Car ...	B110
Chesterfield Chair ...	B84	Hand Truck ...	A69	Punching Machine ...	C26	Travelling Crane ...	C10 ; C68
Chinese Windlass ...	C69	Handcart ...	A30	Quick Return Device ...	C37	Treadle Lathe ...	D5
Clock ...	B79	Hanging Scales ...	B73	Rake ...	A1	Triangle of Forces ...	C90
Coaster ...	B23 ; D1	Hat Rack ...	B61	Rattle ...	B7	Triangulated Truss ...	C2
Coffee Stall ...	B107	Hawker's Cart ...	B17	Revolving Crane ...	A37	Tricycle ...	B4 ; D17
Coffee Table ...	A85 ; B111	Hay Cart ...	C3	Revolving Gymnasts ...	C78	Trip Hammer ...	A97 ; B117 ; B117M
Collapsible Table ...	A8	Helve Hammer ...	C3	Revolving Meccanicians ...	D18	Trolley ...	B112 ; D12
Compound Triangulated Truss ...	C4	High Diving Board ...	D26	Revolving Office Chair ...	B95	Try-your-strength Machine ...	C101 ; D25
Cot ...	A87 ; B39	High Level Bridge ...	C50	Revolving Seesaw ...	B24	Turnstile ...	D4
Couch ...	A20 ; B35	Hooke's Coupling ...	A82 ; A82M	Revolving Tricycle ...	C82	Two-Wheeled Trap ...	B82
Coster's Barrow ...	B13 ; C103	Horizontal Engine ...	B88 ; C93 ; C93M	Revolving Truck ...	D14	Umpire's Seat ...	A51
Counter Scales ...	A73 ; B104	Horse ...	A45	Rickshaw ...	B100 ; B100M	Violin and Bow ...	B49
Crane Grab ...	B8	Horse and Cart ...	C5	Rocking Chair ...	B56	Walking Man ...	B6
Crane, Breakdown ...	B98	Horse and Feller ...	A54	Rocking Horse ...	B36	Warehouse Crane ...	C84
Crane, Derrick ...	B30 ; B30M	Howe Truss ...	C76	Roman Balance ...	A7	Watch Stand ...	A84
Crane, Hammerhead ...	C91	Inclined Plane ...	C66	Rotary Linisher ...	C80	Watchman's Hut and Fire ...	B92
Crane, Elevated Jib (Electric) ...	C25	Invalid ...	C34	Roundsabout ...	A9P ; C64 ; C64M	Weather Vane ...	B35 ; C57
Crane, Elevated Jib (Hand) ...	C21	Invalid Chair ...	C53	Rowing Boat ...	C74	Weighing Machine ...	B83
Crane, Jib ...	C53	Jib Crane ...	B105			Well Windlass ...	C72
Crane, Mobile ...	C27 ; C27M	Joiner's Bench ...	A86			Wheelbarrow ...	A93
Crane, Overhead ...	C10	Jumping Jack ...	A2			Windmill ...	A32 ; B77 ; B77M
Crane, Revolving ...	A37	Junction Signal ...	B93			Windmill Pump ...	E90 ; B90M ; C22 ; C22M
Crane, Swivelling ...	B14 ; C97					Wringing Machine ...	A58
Crane, Swivelling Jib (Hand) ...	C111					Wrestlers ...	B16 ; C52
Crane, Swivelling Jib (Electric) ...	C109						

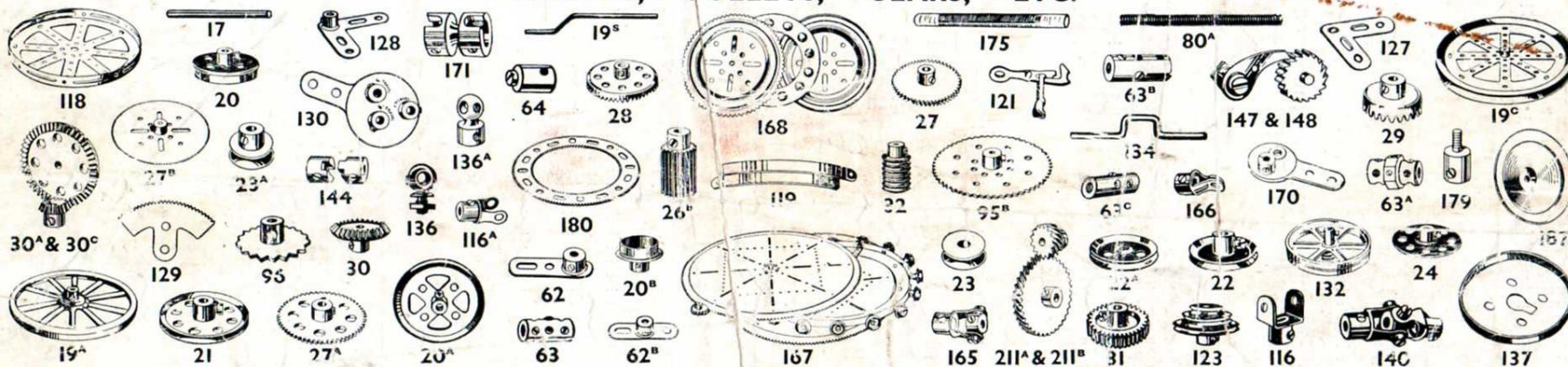


# MECCANO PARTS & ACCESSORIES

## PLATES, STRIPS, GIRDERS & BRACKETS



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



## MISCELLANEOUS

