

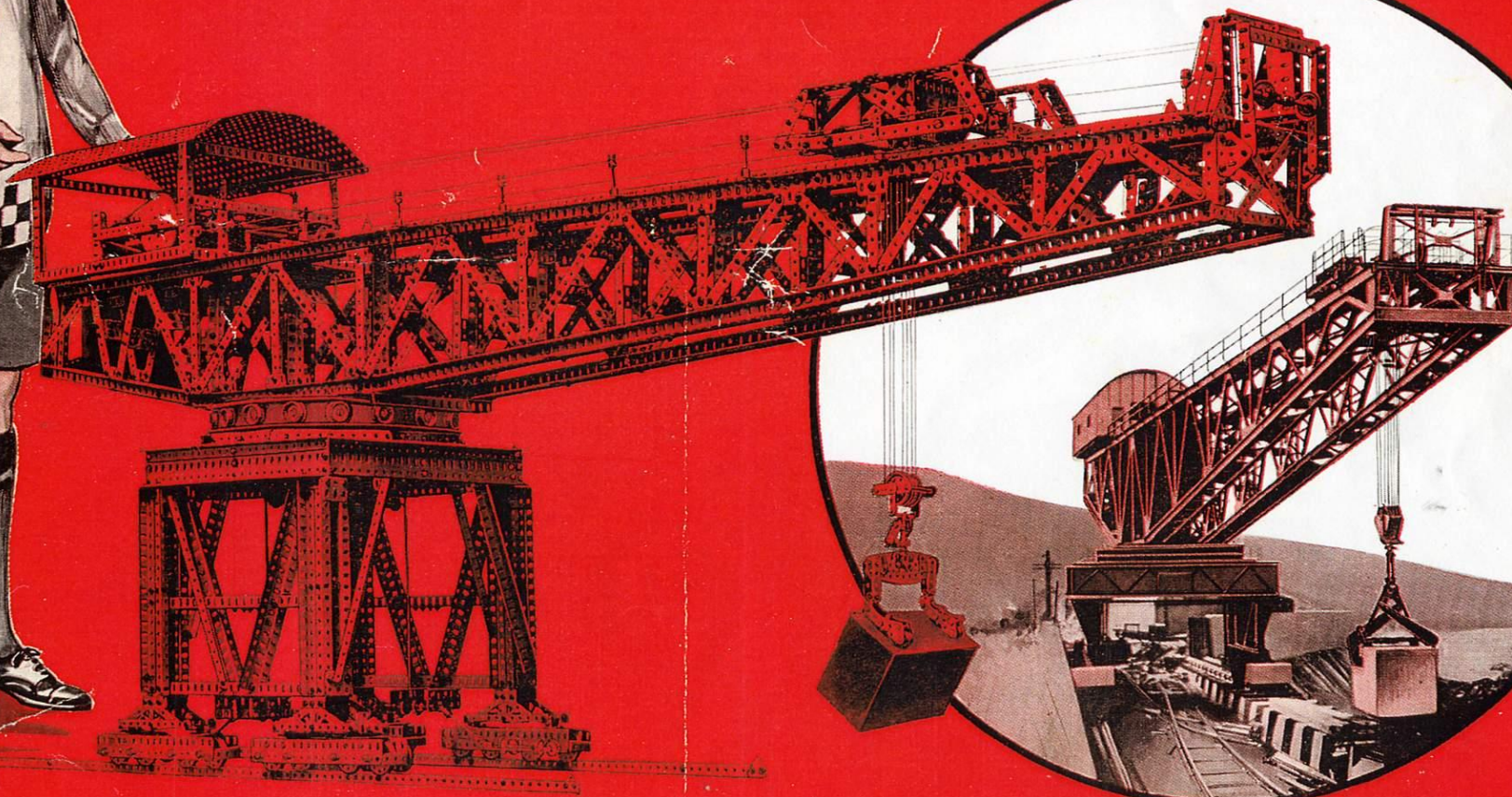
# MECCANO

HORNBY'S ORIGINAL SYSTEM — FIRST PATENTED 1901

INSTRUCTIONS FOR OUTFITS A to C

PRICE

6d.

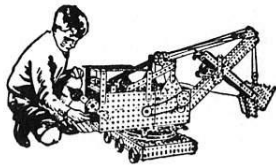


34A-C

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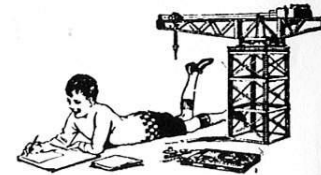
13/834/24 (U.K.)





# MECCANO

HORNBY'S ORIGINAL SYSTEM — FIRST PATENTED 1901



## MODEL-BUILDING WITH MECCANO

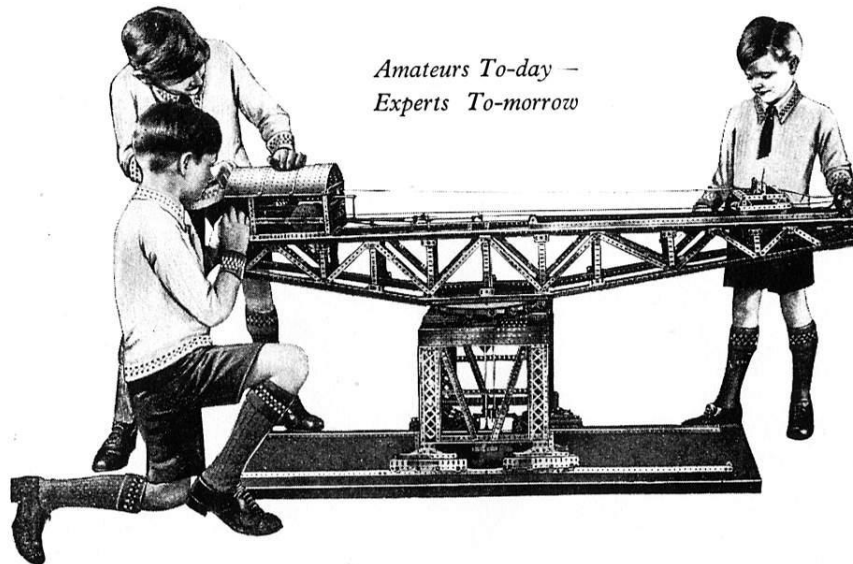
There is no limit to the number of models that can be built with Meccano—Cranes, Clocks, Motor Cars, Ship Coalers, Machine Tools, Locomotives—in fact everything that interests boys. A screwdriver and spanner, both of which are provided in the Outfit, are the only tools necessary.

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 may 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 may be converted into the one next higher by the purchase of an Accessory Outfit. Thus, Meccano Outfit A may 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



*Amateurs To-day —  
Experts To-morrow*

this way, no matter with which Outfit you commence, you may build it up by degrees until you possess an L Outfit. It is important to remember that Meccano Parts may be bought separately at any time in any quantity from your Meccano dealer.

## ELECTRIC LIGHTING OF MECCANO MODELS

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

## THE "MECCANO MAGAZINE"

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

## THE MECCANO GUILD

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

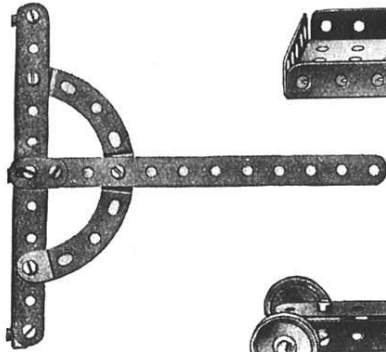
Meccano Clubs are founded and established under the guidance of the Guild Secretary at Headquarters, and at the present time there are active Clubs in nearly 250 towns and villages in the United Kingdom, and more than 100 in countries overseas. Each Club has its Leader, Secretary, Treasurer, and other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

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

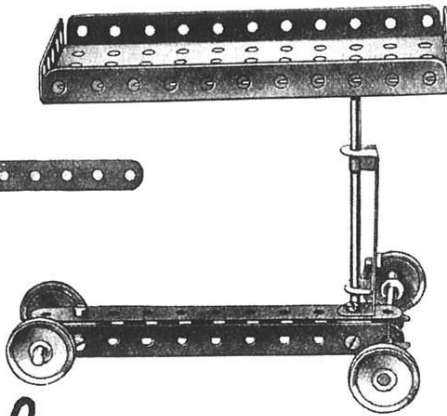
## MECCANO SERVICE

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

A1. Rake



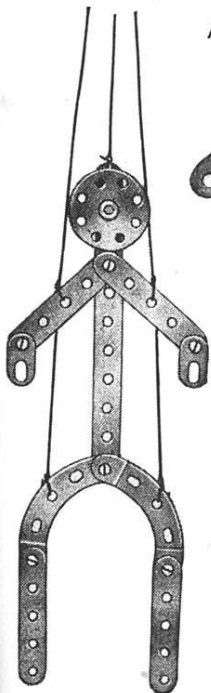
A5. Bed Table



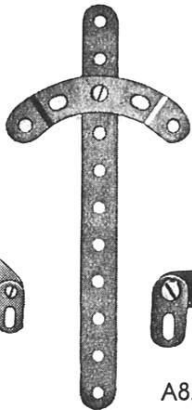
A2. Dog



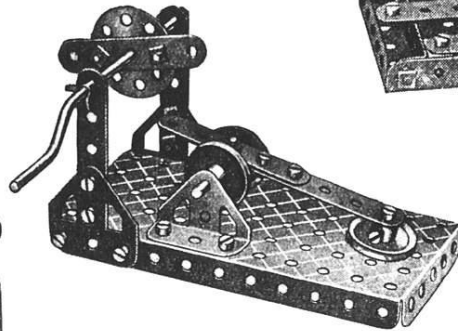
A3. Jumping Jack



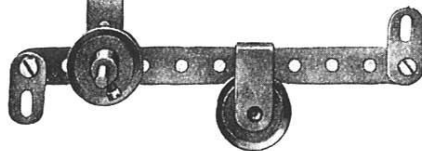
A4. Sword



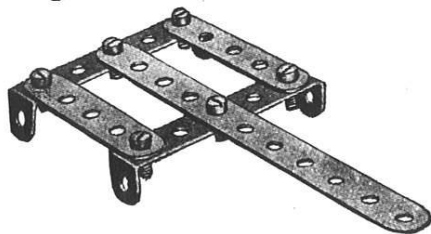
A6. Trip Hammer



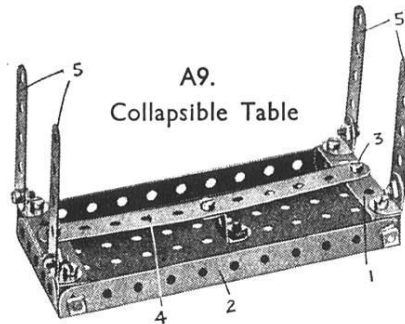
A7. Roman Balance



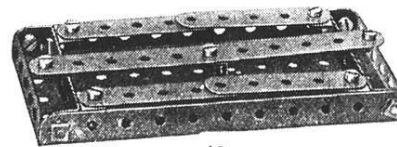
A8. Grill



A9. Collapsible Table

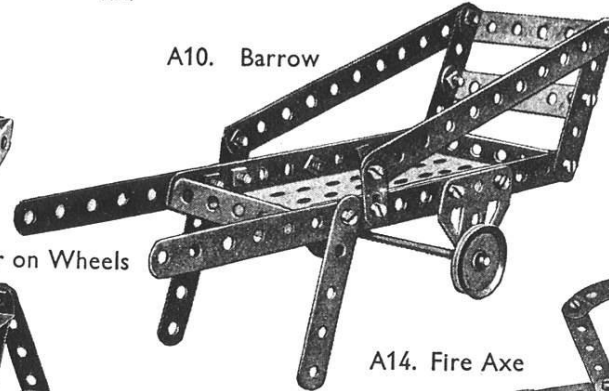


The  $2\frac{1}{2}'' \times \frac{1}{2}''$  Double Angle Strips 1 are attached to the  $5\frac{1}{2}'' \times 2\frac{1}{2}''$  Flanged Plate 2 by lock-nutted Bolts as in Standard Mechanism No. 263. The Bolts 3 are secured to the  $5\frac{1}{2}''$  Strip 4 and their shanks engage with the centre holes 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. A9a.

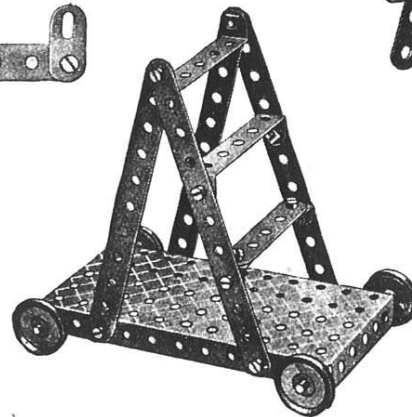


A9a.

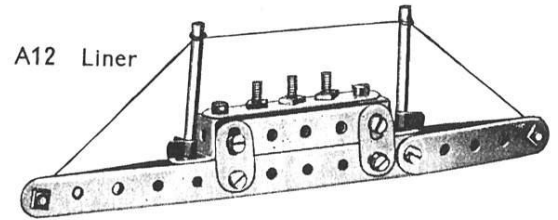
A10. Barrow



A11. Ladder on Wheels



A12. Liner



A13. Anchor



A16. Go-chair



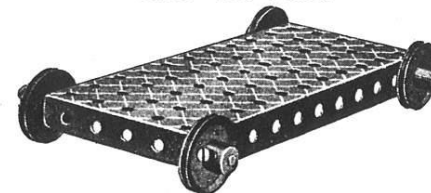
A17. Telegraph Pole



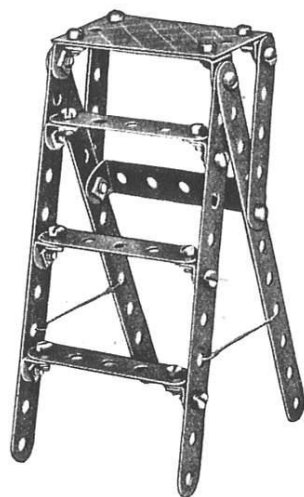
A14. Fire Axe



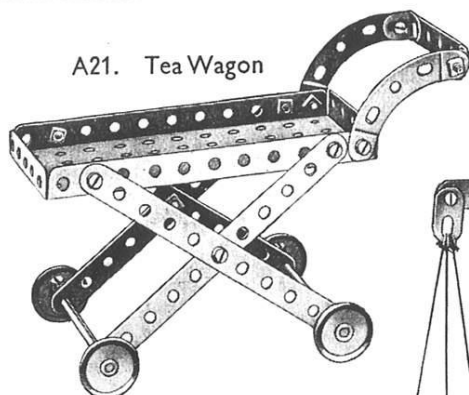
A15. Flat Truck



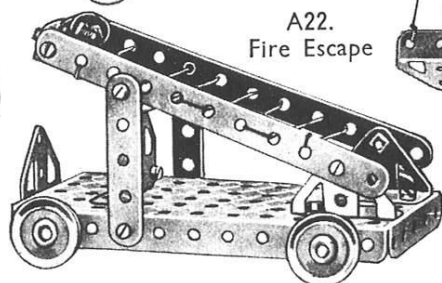
A18. Step Ladder



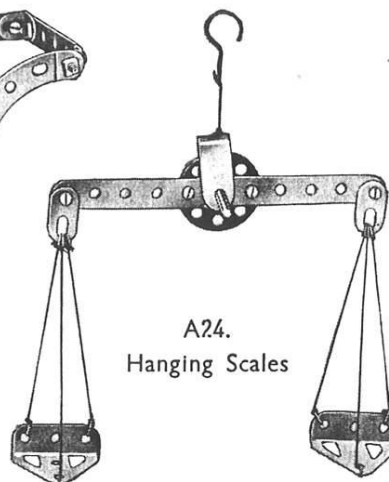
A21. Tea Wagon



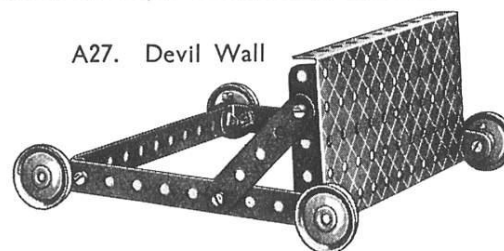
A22. Fire Escape



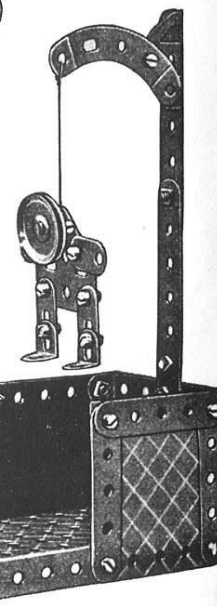
A24. Hanging Scales



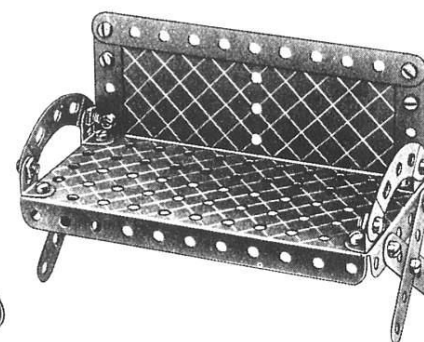
A27. Devil Wall



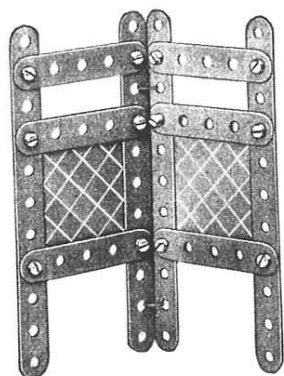
A30. Gallows



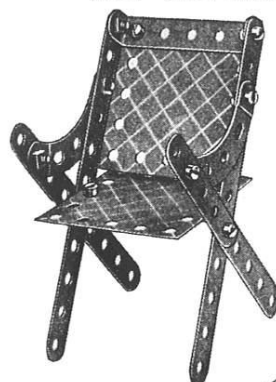
A28. Garden Seat



A19. Fire Screen



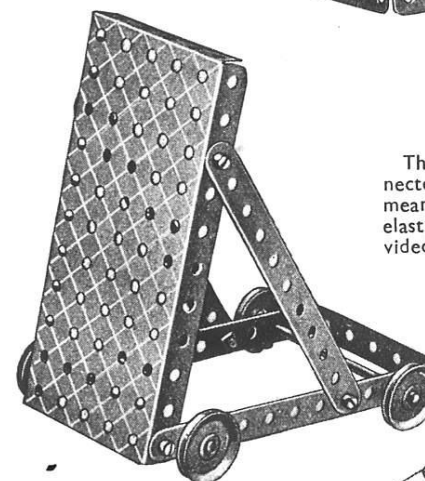
A23. Arm Chair



A25. Horse

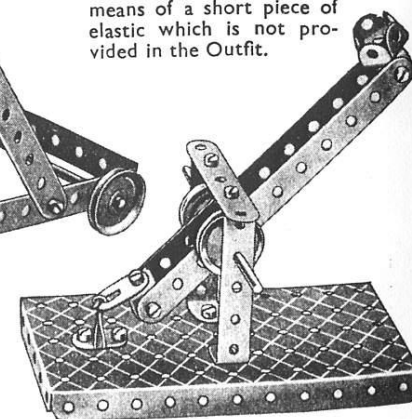


A29. Gravel Sifter

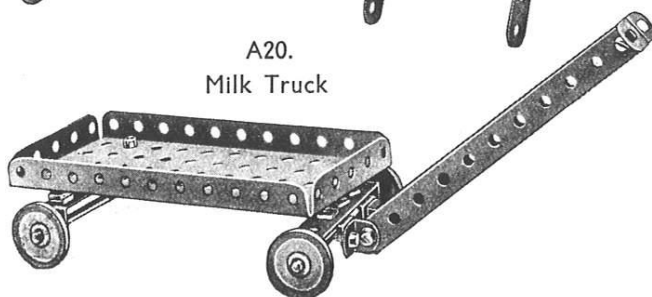


A31. Catapult

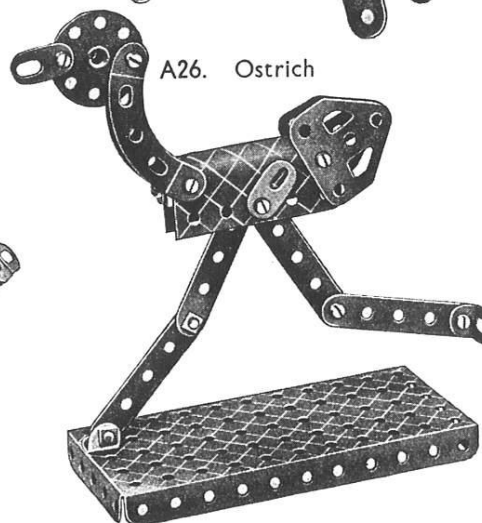
The pivoted arm is connected to the base by means of a short piece of elastic which is not provided in the Outfit.



A20. Milk Truck



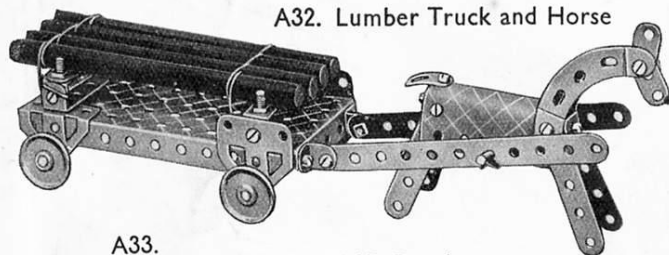
A26. Ostrich



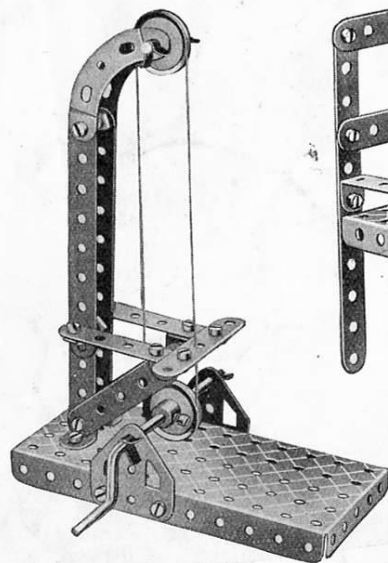


## These Models can be built with MECCANO Outfit A

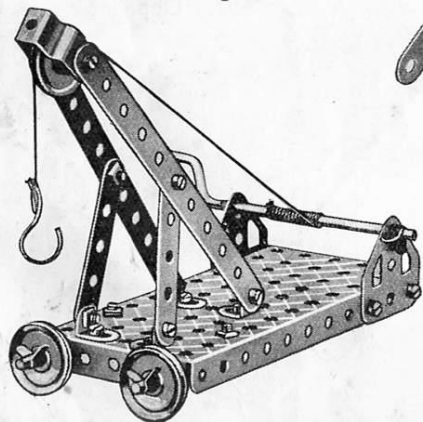
A32. Lumber Truck and Horse



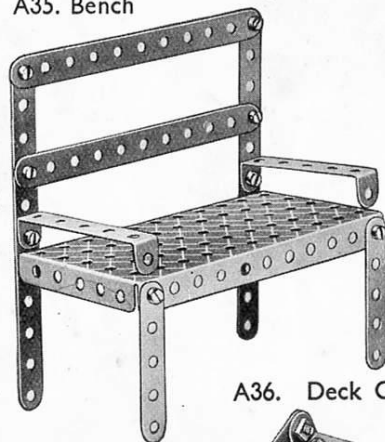
A33. Band Saw



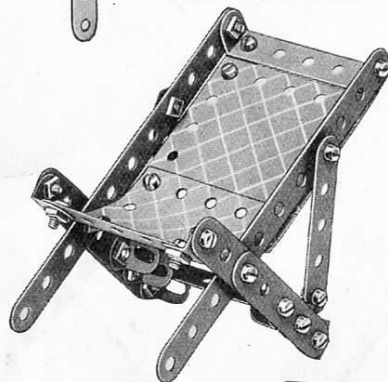
A34. Revolving Crane



A35. Bench

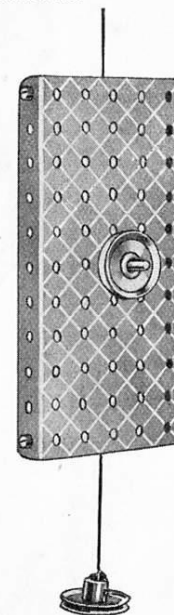


A36. Deck Chair

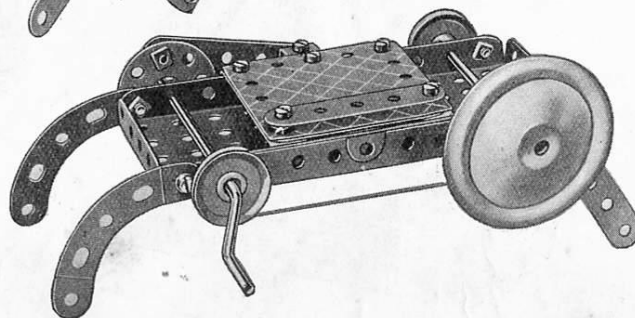


A37. Magic Plate

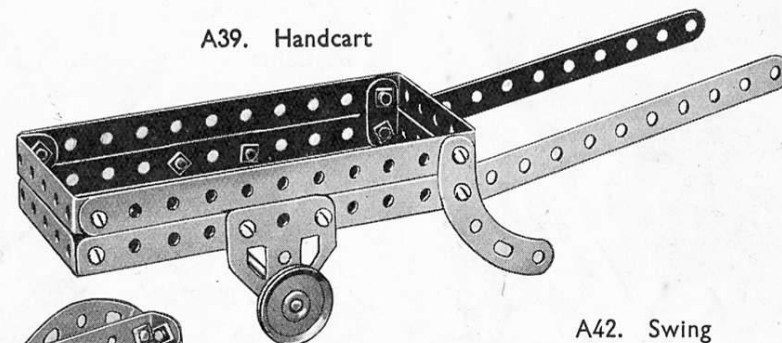
The cord is wound once round a 2 in. Axle Rod that is journaled in a  $\frac{1}{2}$ -in. Reversed Angle Bracket, which is bolted to the Plate. If the cord is held loosely the Plate will drop, but as soon as the cord is tightened the Plate becomes immovable.



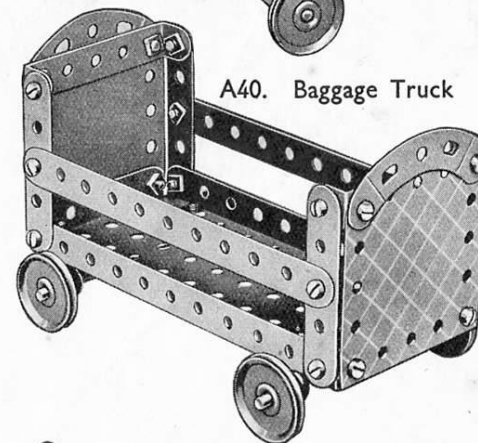
A38. Bacon Slicing Machine



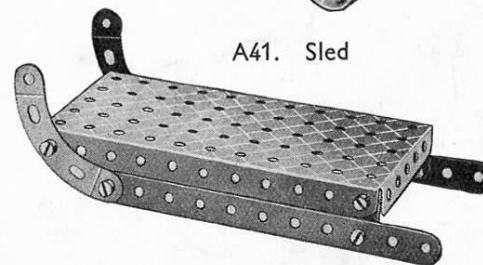
A39. Handcart



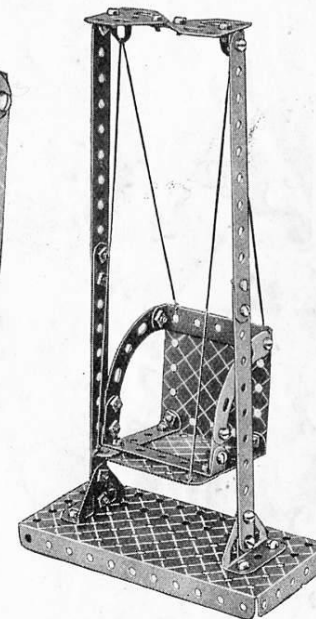
A40. Baggage Truck



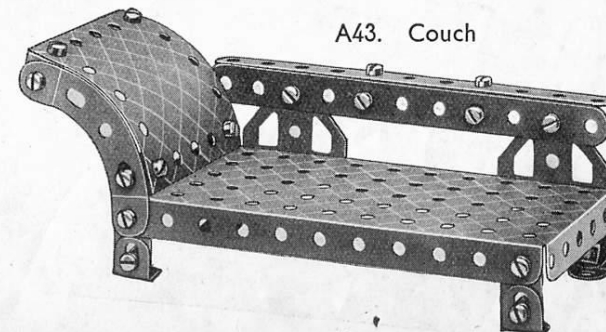
A41. Sled



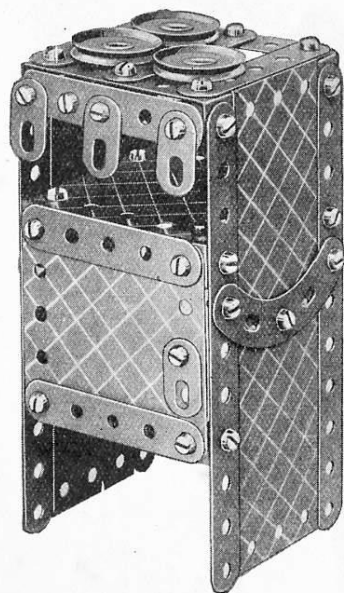
A42. Swing



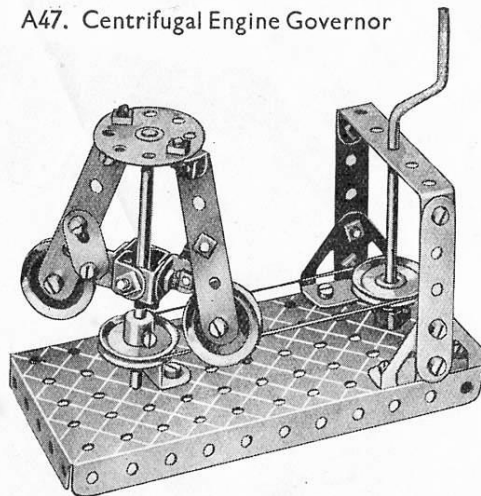
A43. Couch



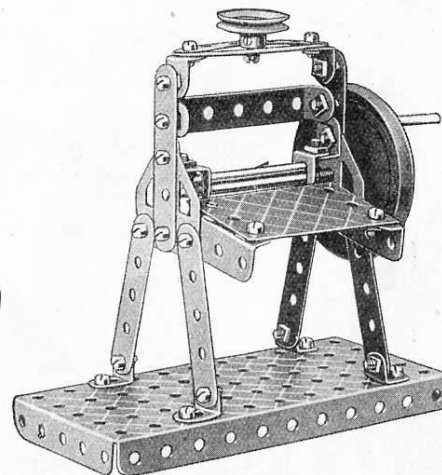
A44. Gas Stove



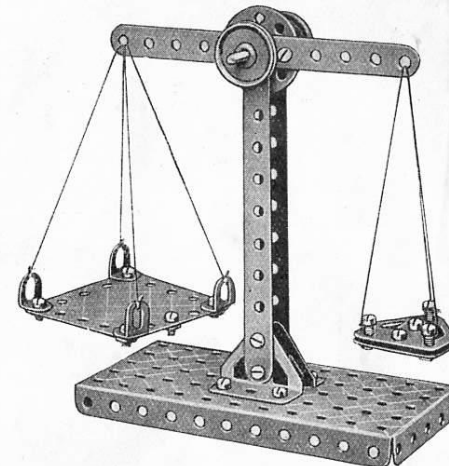
A47. Centrifugal Engine Governor



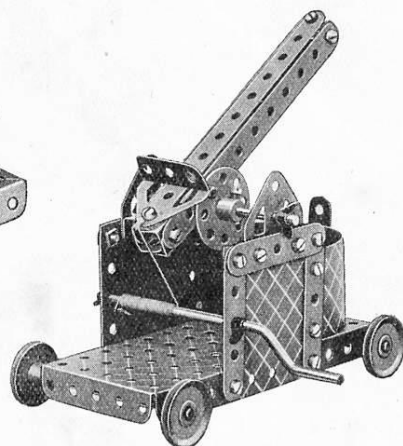
A49. Wringing Machine



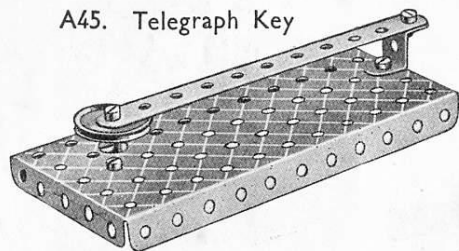
A51. Scales



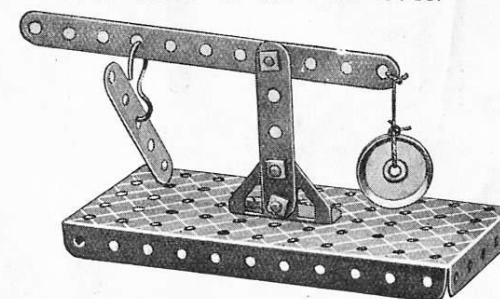
A48. Anti-aircraft Gun



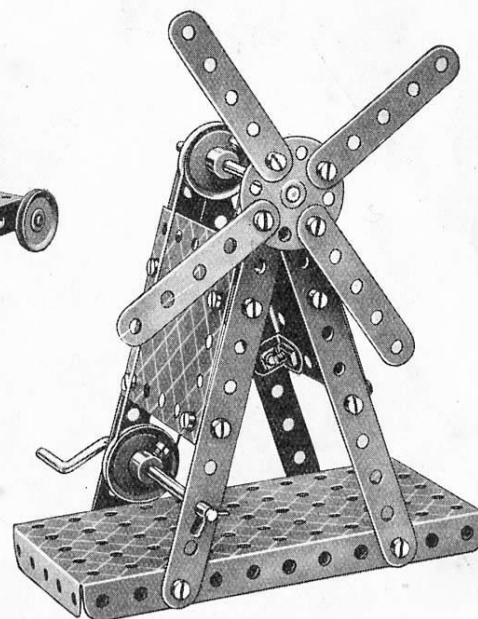
A45. Telegraph Key



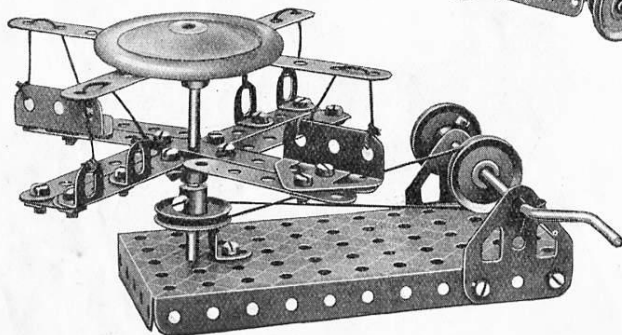
A52. Lever of the First Order



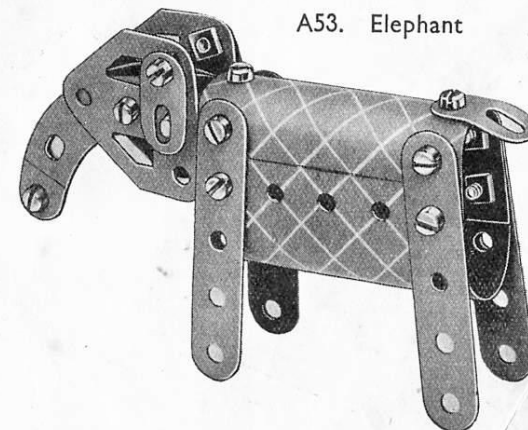
A50. Windmill



A46. Roundabout



A53. Elephant

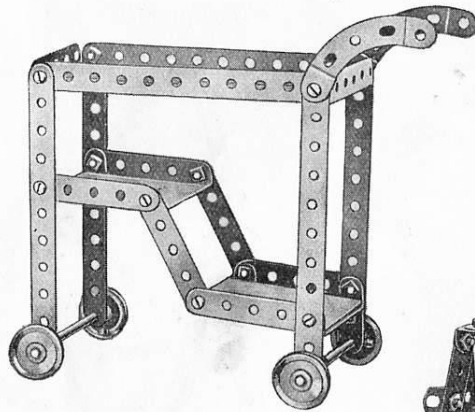




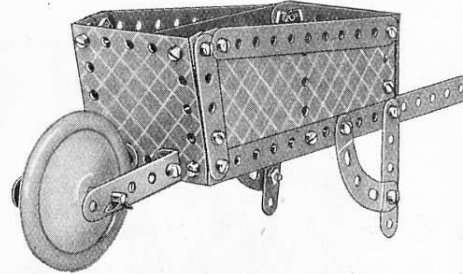
## These Models can be built with MECCANO Outfit A

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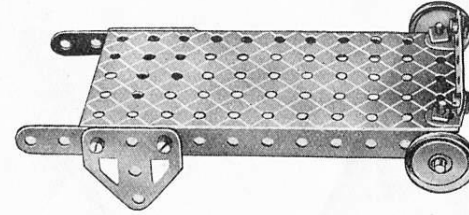
A54. Dinner Wagon



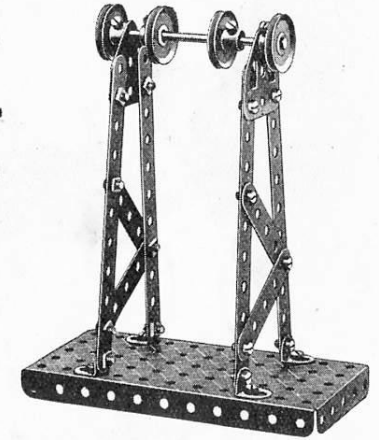
A56. Wheelbarrow



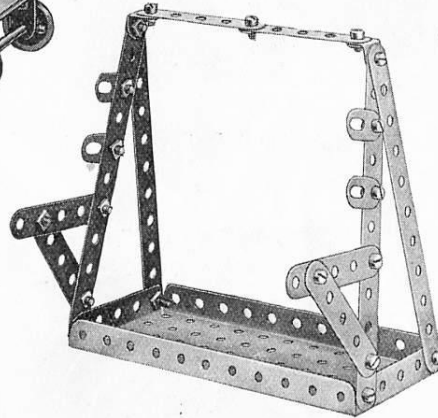
A62. Flat Truck



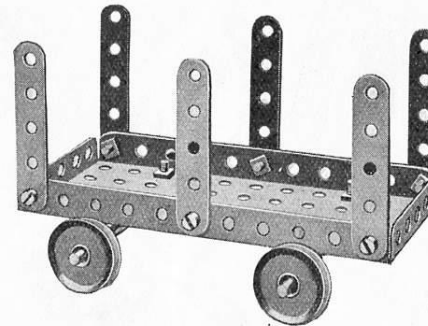
A64. Shafting Standard



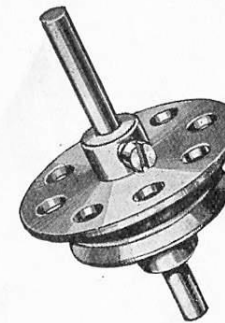
A57. Pen Rack



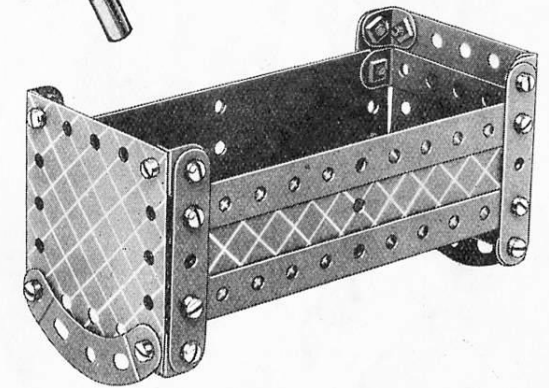
A60. Timber Truck



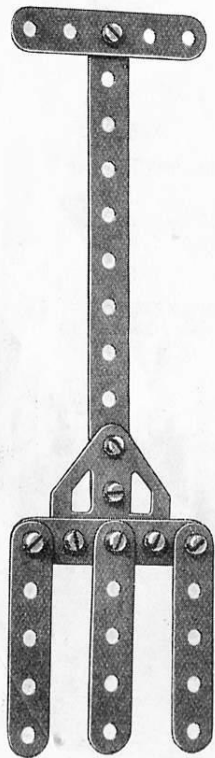
A63. Top



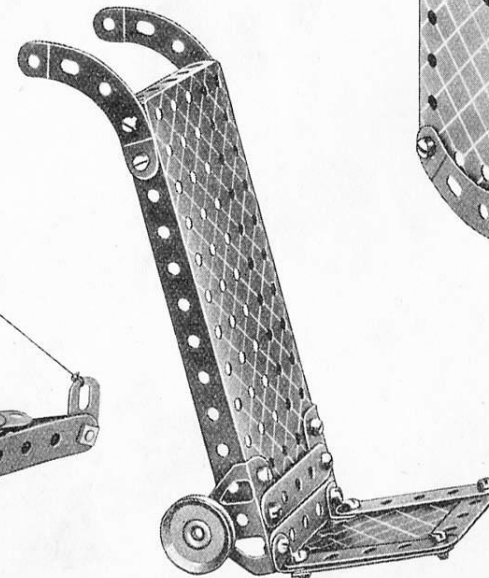
A65. Cot



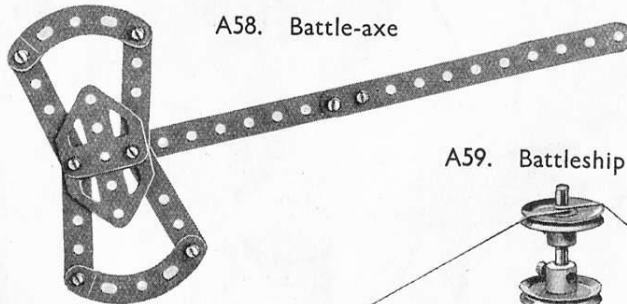
A55. Fork



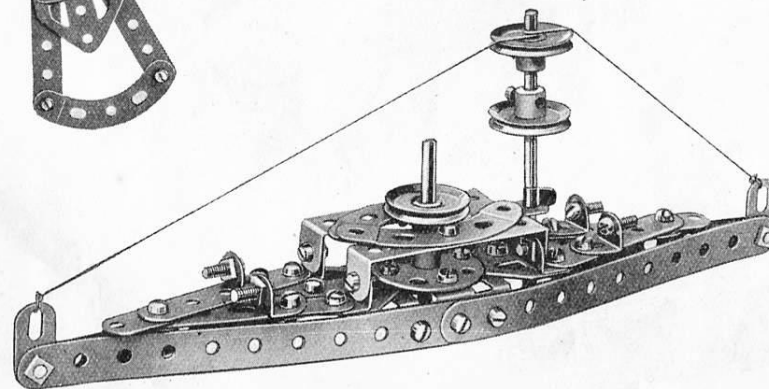
A61. Porter's Trolley



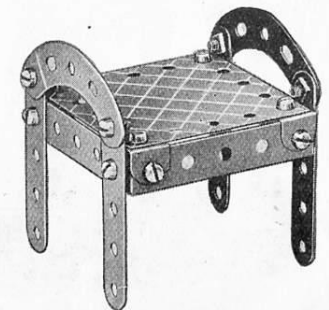
A58. Battle-axe

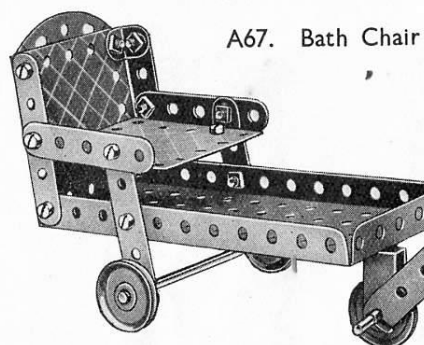


A59. Battleship

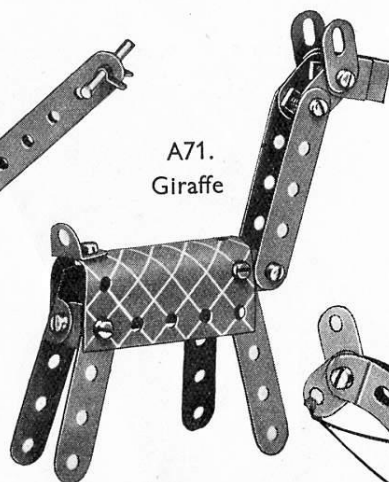
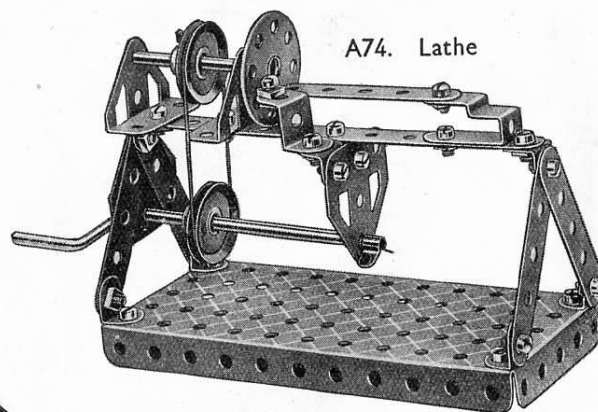


A66. Music Stool





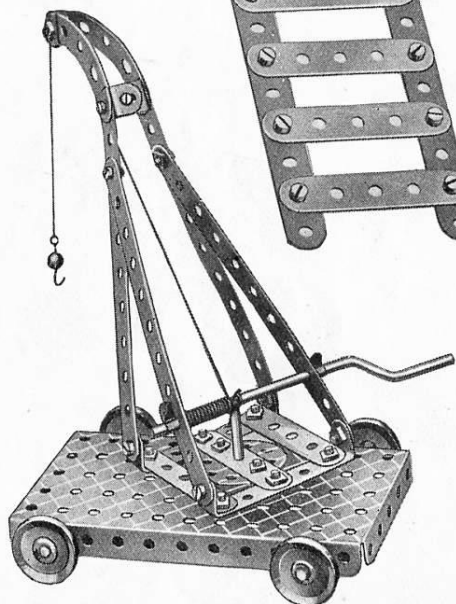
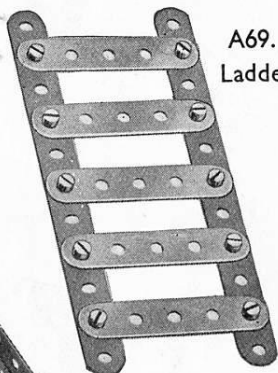
A67. Bath Chair

A71.  
Giraffe

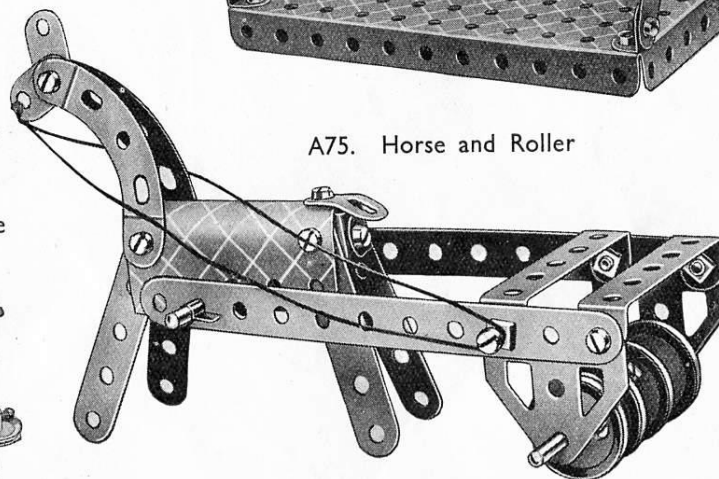
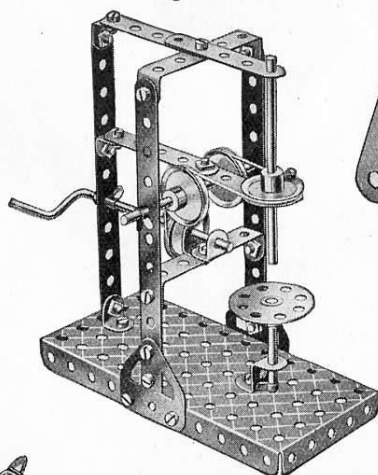
A74. Lathe



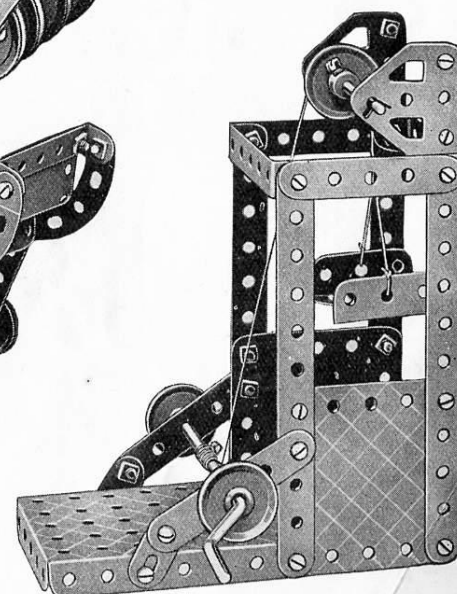
A77. Umpire's Seat

A68.  
Breakdown  
CraneA69.  
Ladder

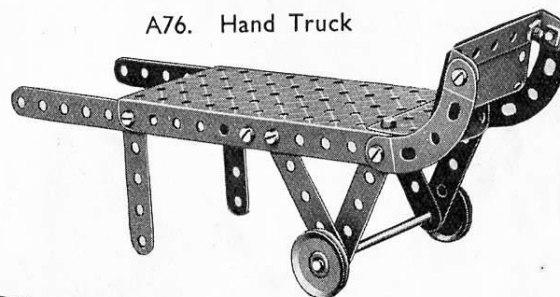
A72. Drilling Machine



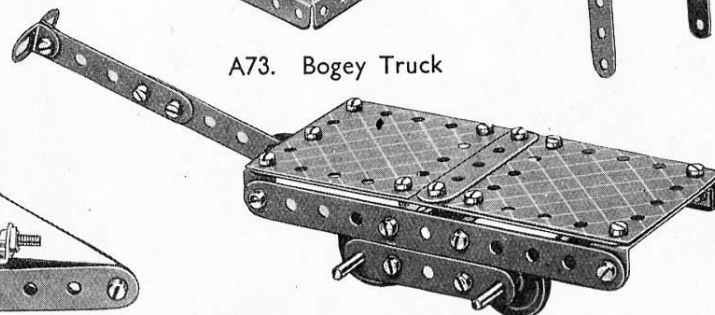
A75. Horse and Roller

A78.  
Pit-head Gear

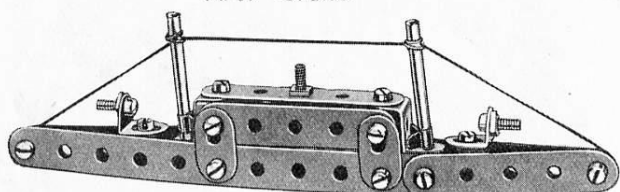
A76. Hand Truck



A73. Bogey Truck

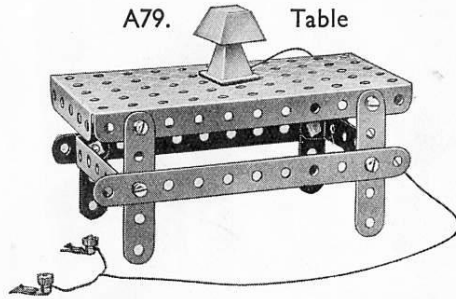
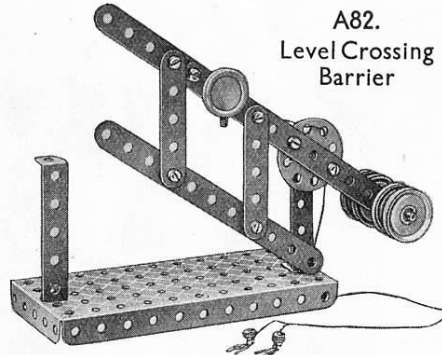
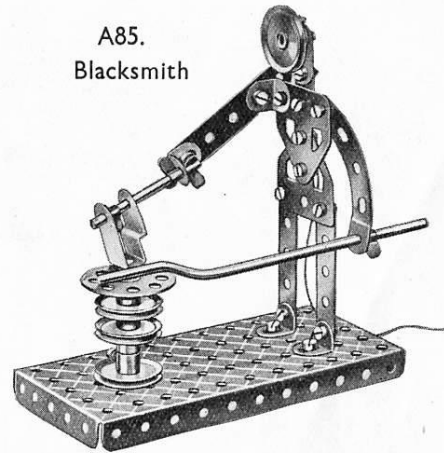


A70. Cruiser

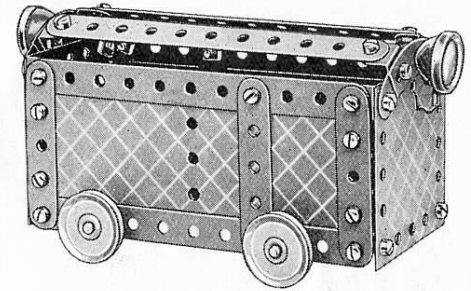




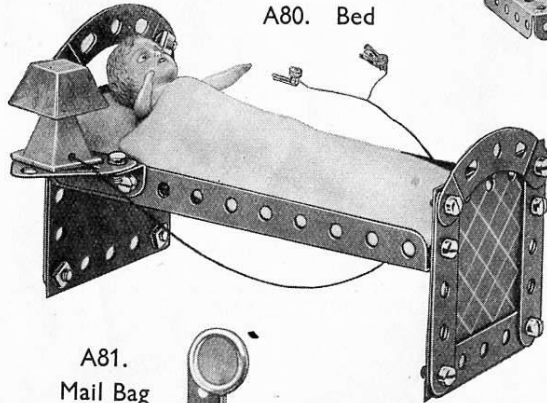
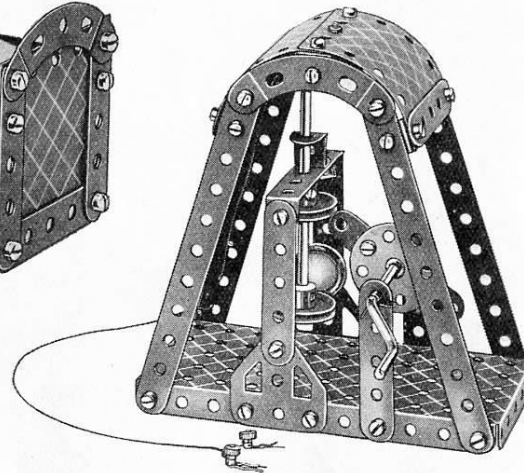
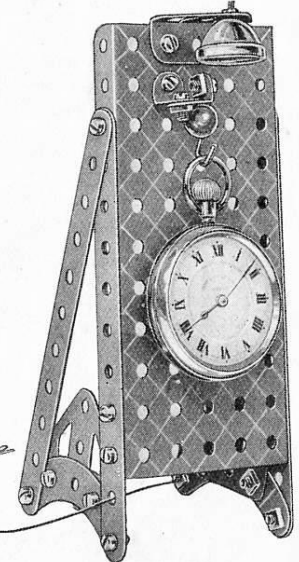
A79. Table

A82.  
Level Crossing  
BarrierA85.  
Blacksmith

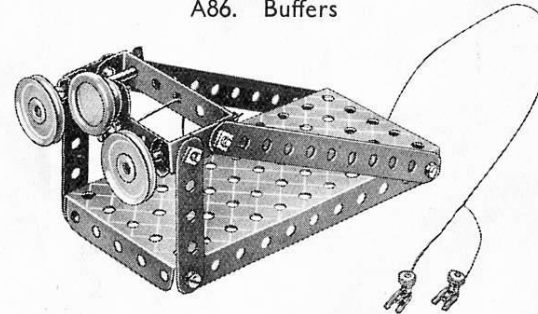
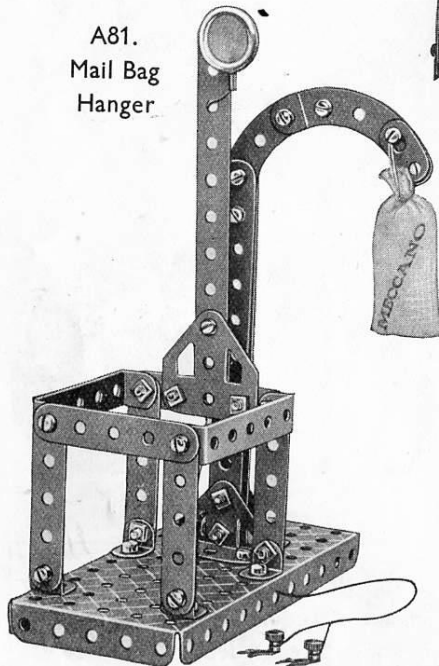
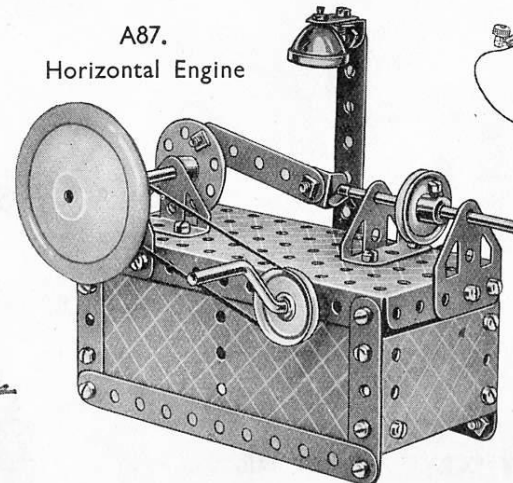
A88. Pullman Car



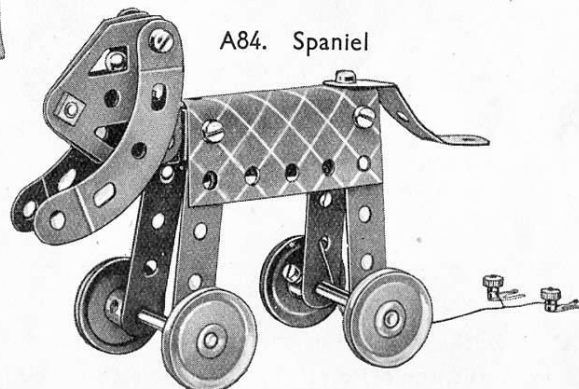
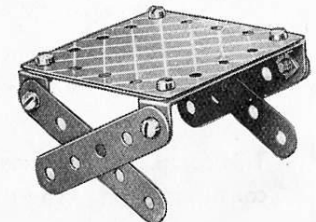
A80. Bed

A83.  
Stamping MillA89.  
Watch Stand

A86. Buffers

A81.  
Mail Bag  
HangerA87.  
Horizontal Engine

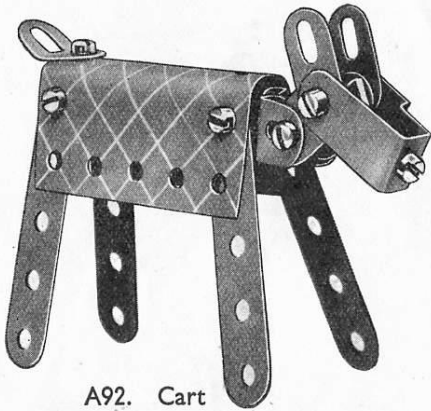
A84. Spaniel

A90.  
Coffee Table

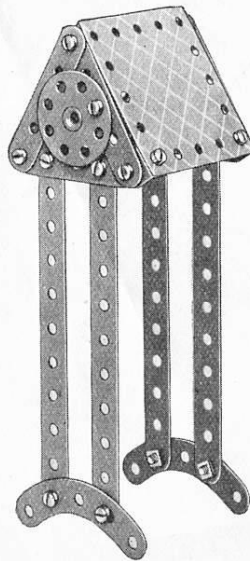
This page shows examples of the use of the Meccano Lighting Set, described on page 2 of cover

## These Models can be built with MECCANO Outfit A

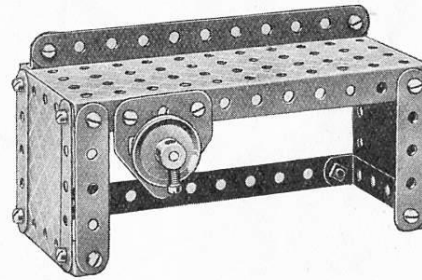
A91. Calf



A94. Grandfather Clock



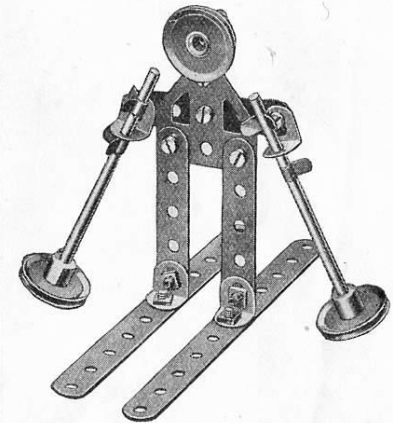
A95. Joiner's Bench



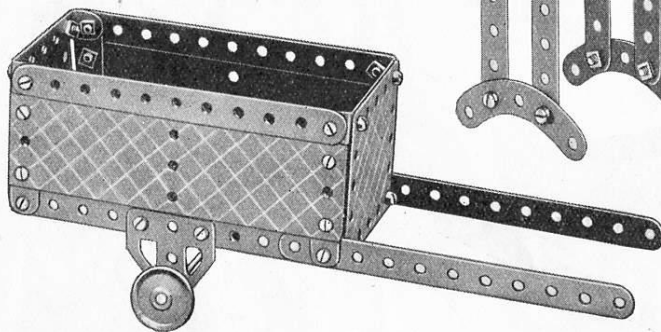
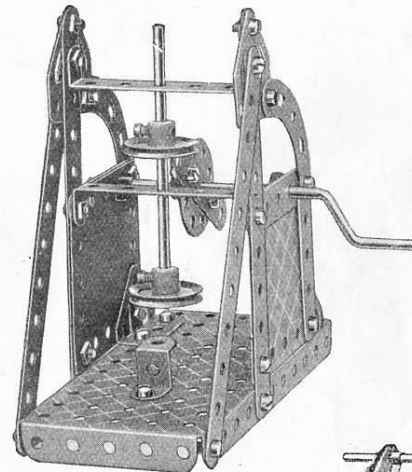
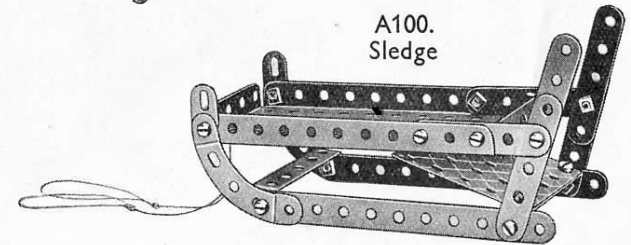
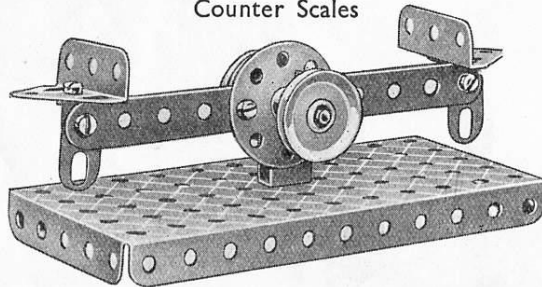
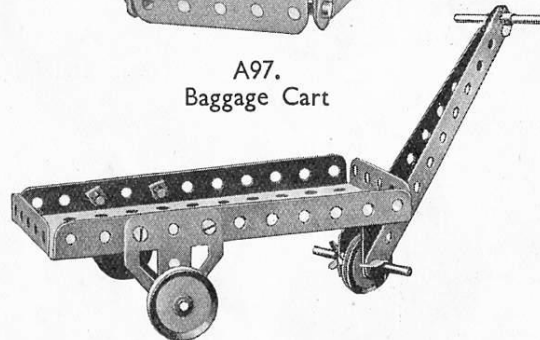
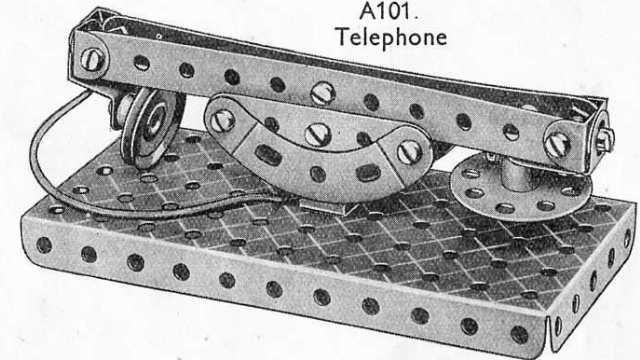
A98. Chair



A99. Skier



A92. Cart

A96.  
Ore CrusherA100.  
SledgeA93.  
Counter ScalesA97.  
Baggage CartA101.  
Telephone

## HOW TO CONTINUE

This completes our examples of models that may be made with MECCANO Outfit A. The next models are a little more advanced, requiring extra parts to construct them. The necessary parts are all contained in a No. Aa Accessory Outfit, the price of which may be ascertained from any Meccano dealer.

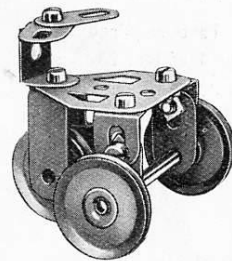


B1. Man and Boy



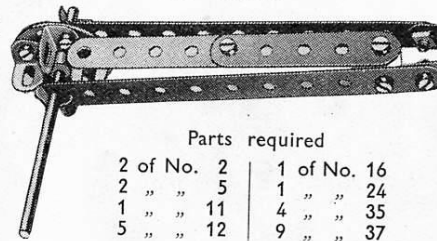
Parts required	
4 of No. 2	
2 " " 5	
5 " " 10	
1 " " 11	
8 " " 12	
1 " " 22	
1 " " 24	
25 " " 34	
1 " " 52	
2 " " 54a	
1 " " 90a	
2 " " 111c	
2 " " 125	
1 " " 126a	

B4. Tricycle



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

B7. Rattle

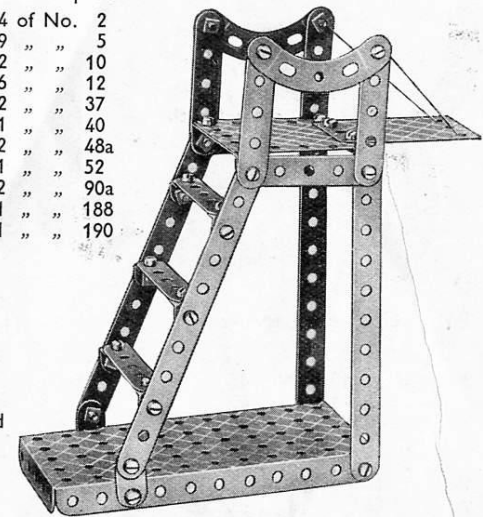


Parts required	
2 of No. 2	1 of No. 16
2 " " 5	1 " " 24
1 " " 11	4 " " 35
5 " " 12	9 " " 37

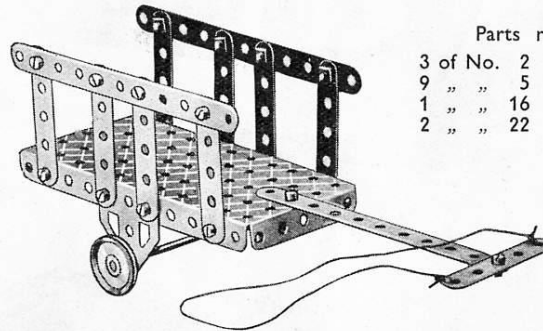
Parts required

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

B9. High Diving Board

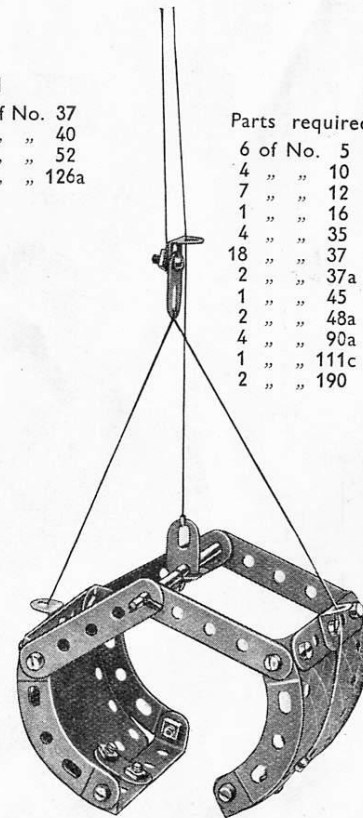


B5. Bullock Cart



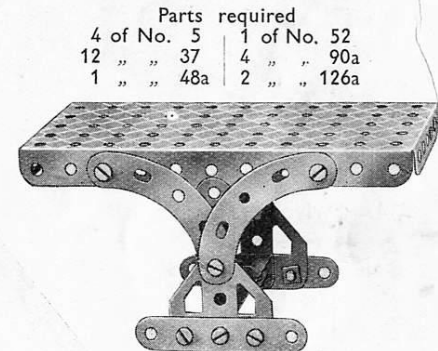
Parts required	
3 of No. 2	18 of No. 37
9 " " 5	1 " " 40
1 " " 16	1 " " 52
2 " " 22	2 " " 126a

B8. Crane Grab



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

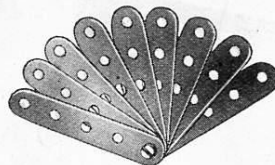
B10. Drafting Table



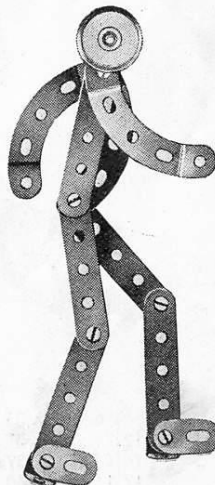
Parts required	
4 of No. 5	1 of No. 52
12 " " 37	4 " " 90a
1 " " 48a	2 " " 126a

B2. Fan

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

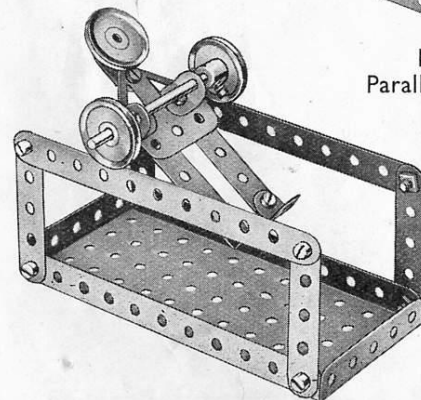


B6. Walking Man



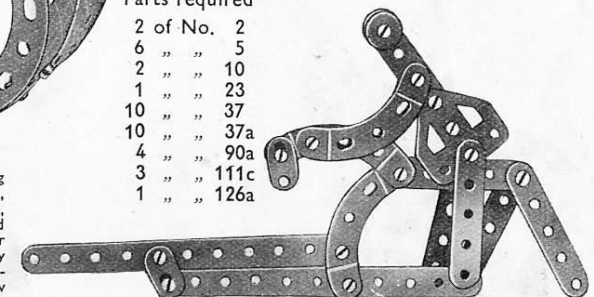
Parts required	
5 of No. 5	
3 " " 10	
2 " " 12	
1 " " 22	
5 " " 37	
1 " " 37a	
3 " " 90a	
2 " " 111c	

B3. Parallel Bars



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

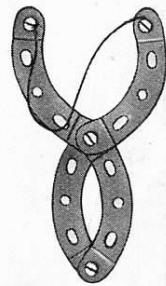
B11. Bucking Broncho



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

The  $\frac{3}{8}$ " Bolts used for connecting the  $\frac{5}{16}$ " Strips, the horse's legs, and the rider's legs and arms, are all locknutted (see Standard Mechanism No. 262). 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.

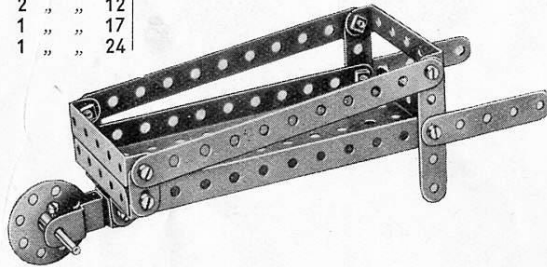
B12. Catapult



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

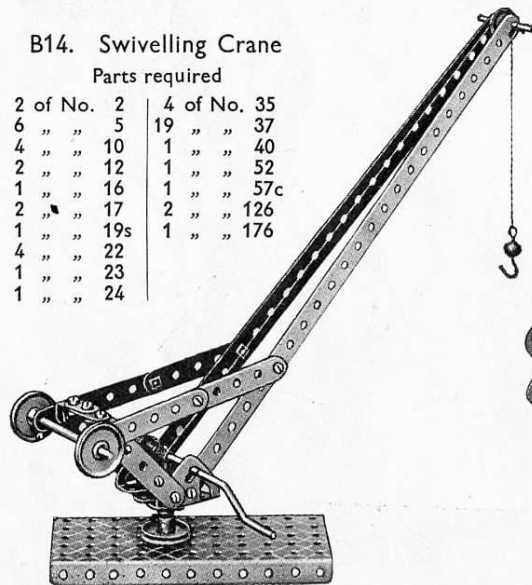
B13. Coster's Barrow

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

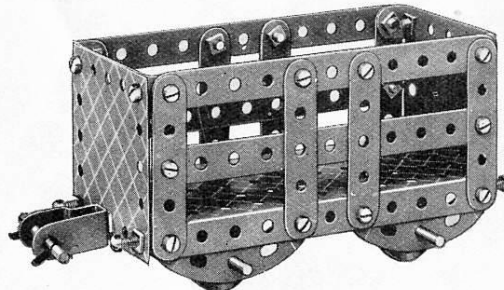


B14. Swivelling Crane

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



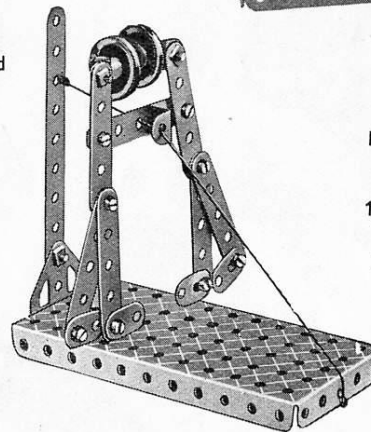
B15. Cattle Truck



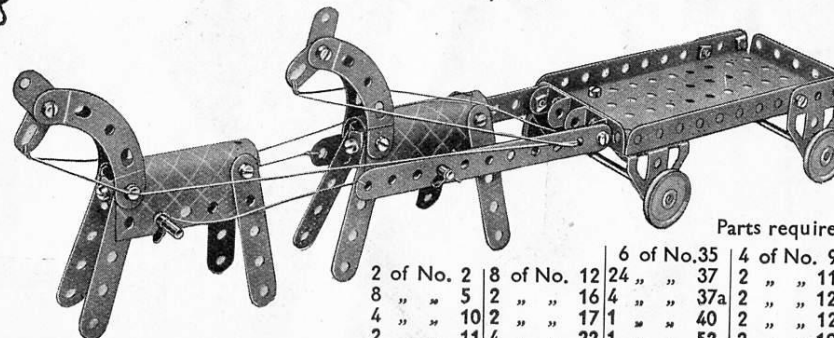
Parts required  
4 of No. 2 9 of No. 37a  
8 " " 5 1 " " 45  
2 " " 16 2 " " 48a  
1 " " 18a 1 " " 52  
4 " " 22 4 " " 90a  
2 " " 35 4 " " 111c  
25 " " 37 2 " " 190

B16. Wrestlers

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

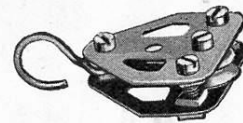


B17. Hay Cart



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

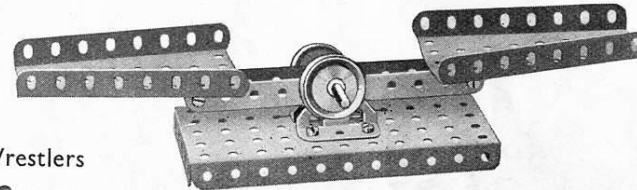
B18. Single Sheave Pulley Block



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

B19. Scales

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

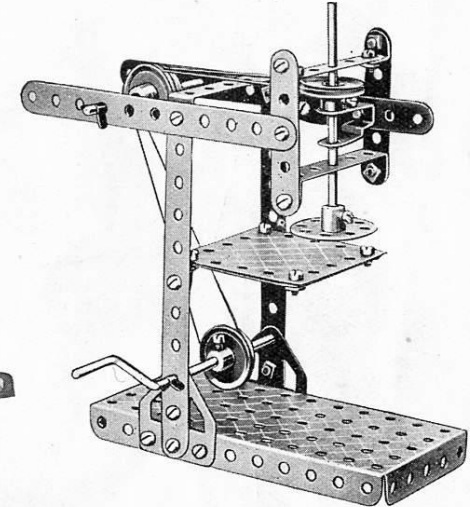


B20. Card Table

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

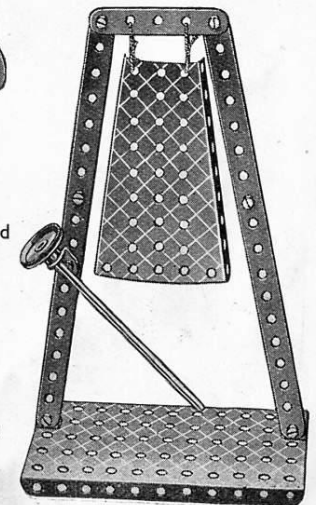


B21. Drilling Machine



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

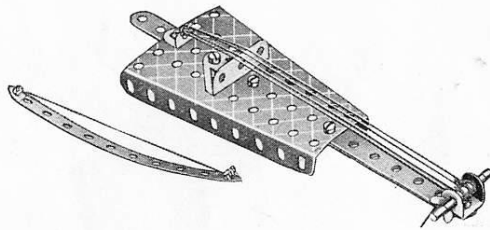
B22. Gong



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



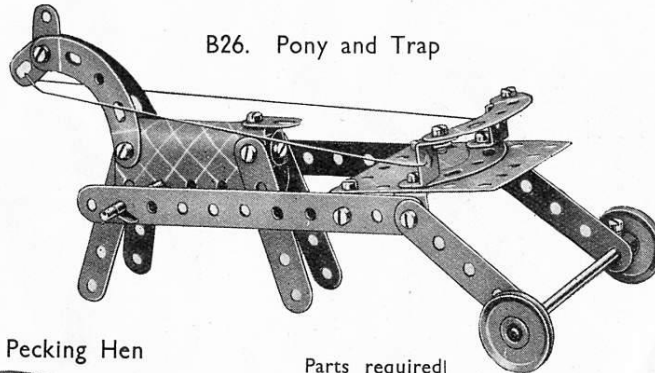
B23. Violin and Bow



## Parts required

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

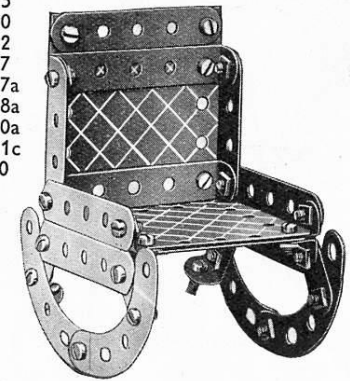
B26. Pony and Trap



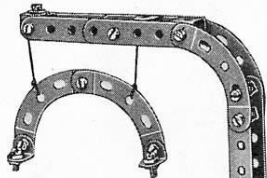
## Parts required

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

B30. Rocking Chair



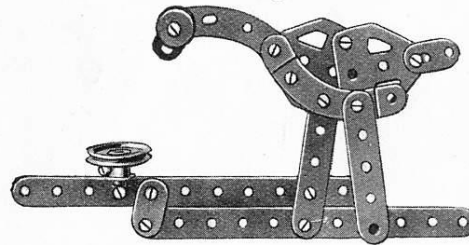
B24. Loading Gauge



## Parts required

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

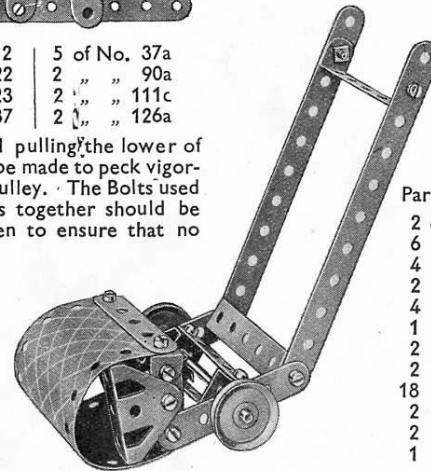
B27. Pecking Hen



## Parts required

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

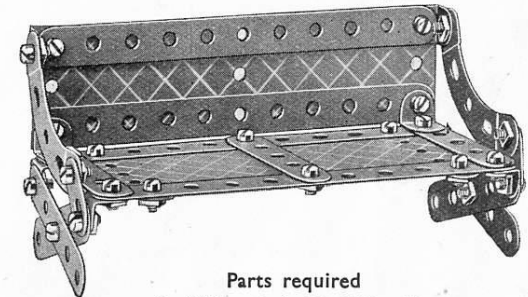
B28. Grass Cutter



## 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

B31. Station Seat



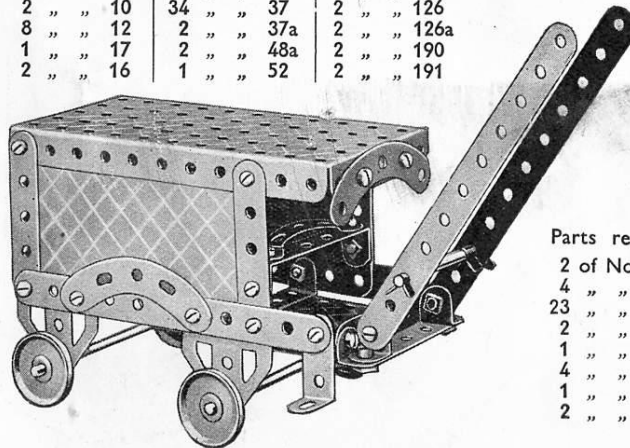
## Parts required

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

B25. Bread Van

## Parts required

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

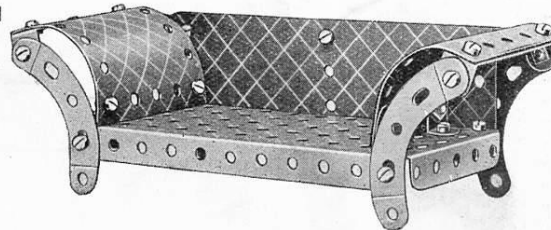


By alternately pushing and pulling the lower of the 5½ in. Strips, the hen can be made to peck vigorously at the "bowl," a 1 in. Pulley. The Bolts used for securing the 5½ in. Strips together should be locknutted, care being taken to ensure that no "side play" is permitted.

B29. Couch

## Parts required

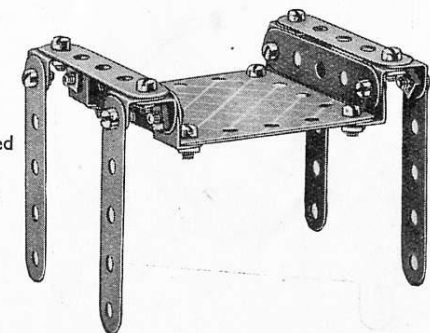
2 of No. 2
4 " " 12
23 " " 37
2 " " 48a
1 " " 52
4 " " 90a
1 " " 189
2 " " 190

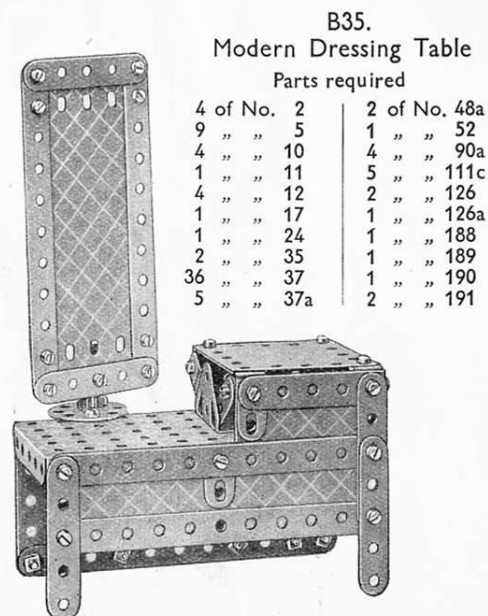
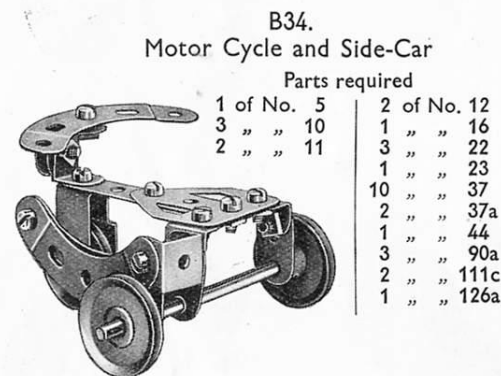
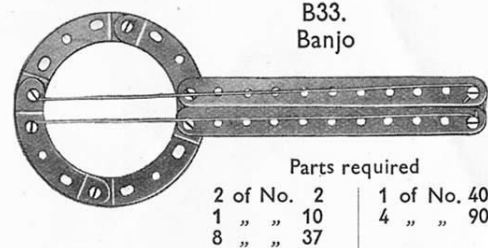


## Parts required

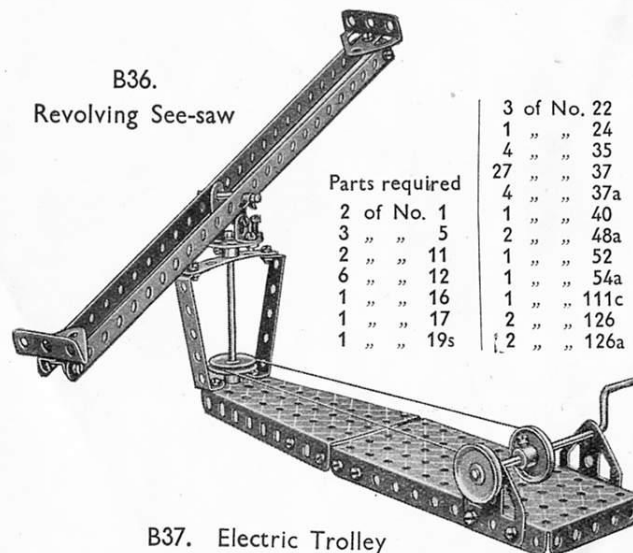
9 of No. 5
8 " " 12
16 " " 37
2 " " 125
1 " " 190

B32. Stool for Dressing Table

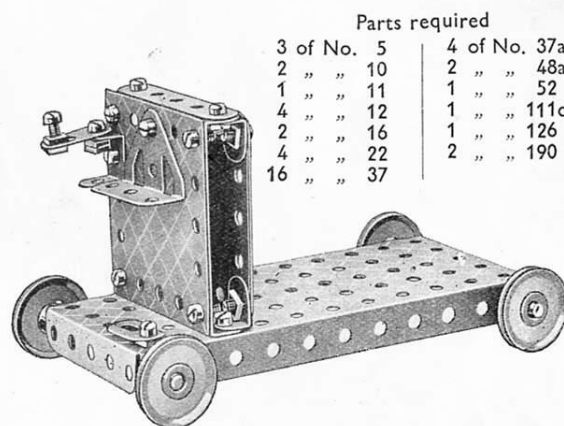




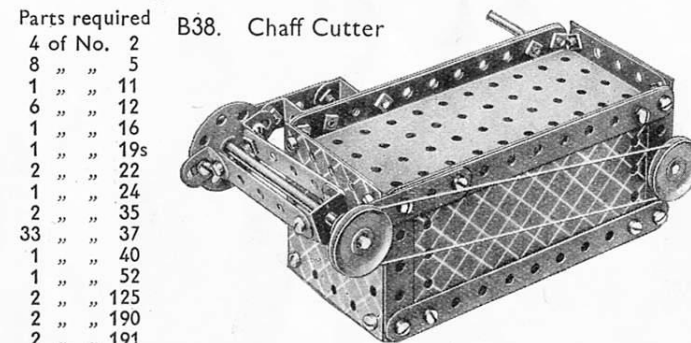
**B36. Revolving See-saw**



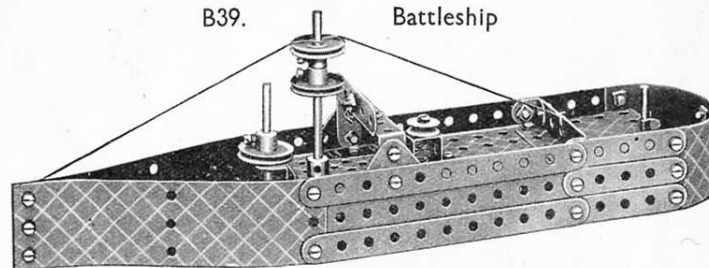
**B37. Electric Trolley**



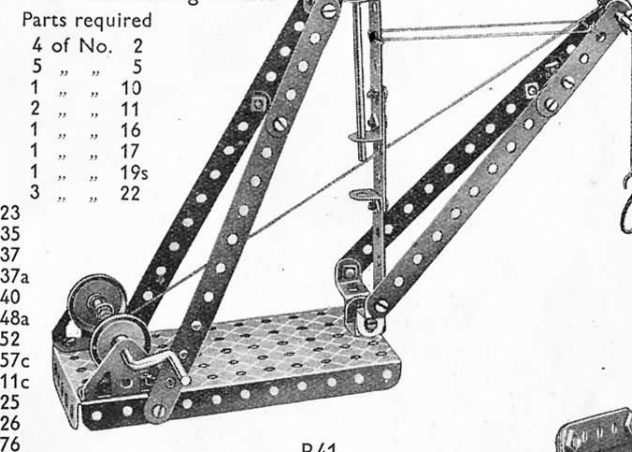
**B38. Chaff Cutter**



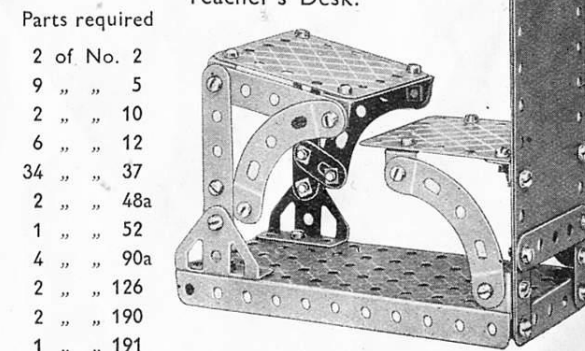
**B39. Battleship**



**B40. Derricking Crane**

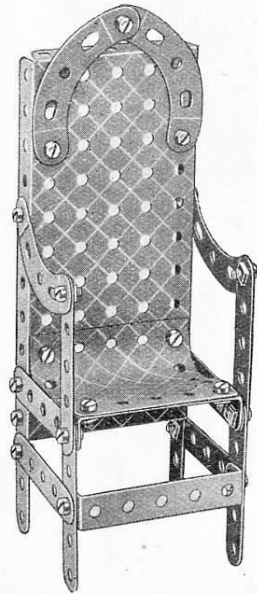


**B41. Teacher's Desk**





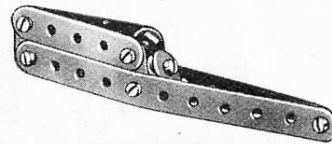
B42. Arm Chair



## Parts required

2 of No.	2
8 "	5
21 "	37
2 "	48a
1 "	52
4 "	90a
1 "	193

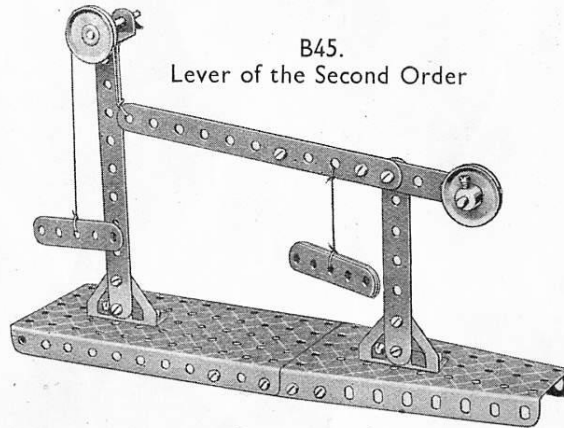
B44. Motor Boat



## Parts required

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

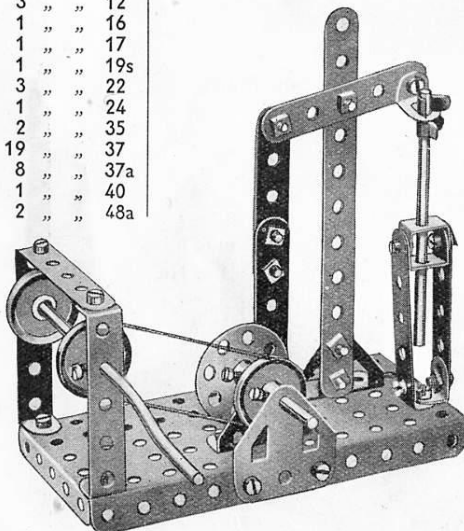
B45. Lever of the Second Order



B43. Pump

## Parts required

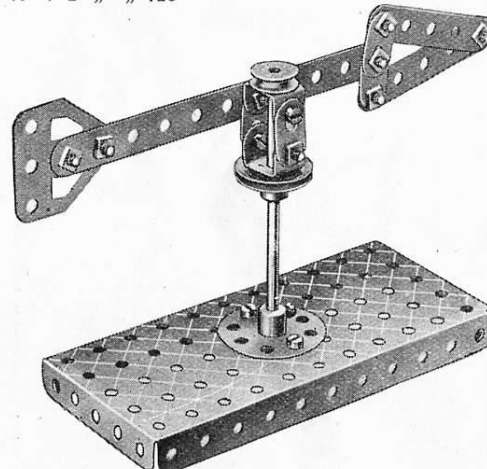
1 of No.	2	1 of No.	52
6 "	5	4 "	111c
2 "	11	2 "	126
3 "	12	1 "	126a
1 "	16		
1 "	17		
1 "	19s		
3 "	22		
1 "	24		
2 "	35		
19 "	37		
8 "	37a		
1 "	40		
2 "	48a		



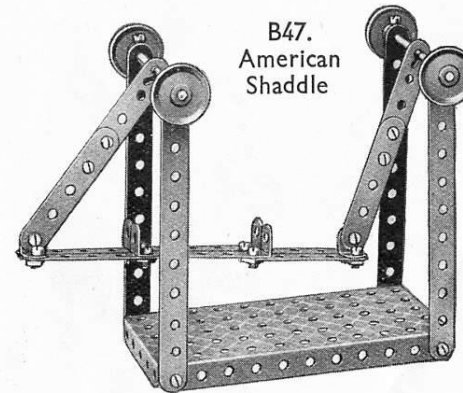
B46. Weather Vane

## 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

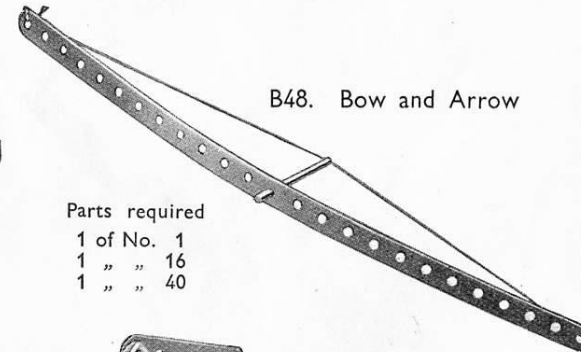


B47. American Shackle



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

B48. Bow and Arrow



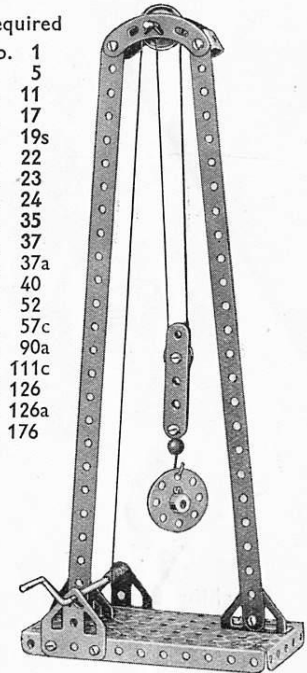
## Parts required

1 of No.	1
1 "	16
1 "	40

B49. Pulley Block

## Parts required

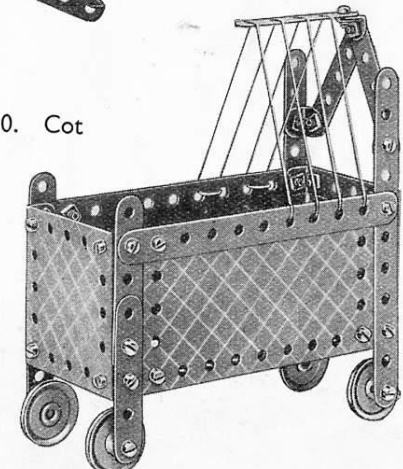
2 of No.	1
2 "	5
2 "	11
1 "	17
1 "	19s
1 "	22
1 "	23
1 "	24
4 "	35
14 "	37
2 "	37a
1 "	40
1 "	52
1 "	57c
2 "	90a
2 "	111c
2 "	126
2 "	126a
1 "	176

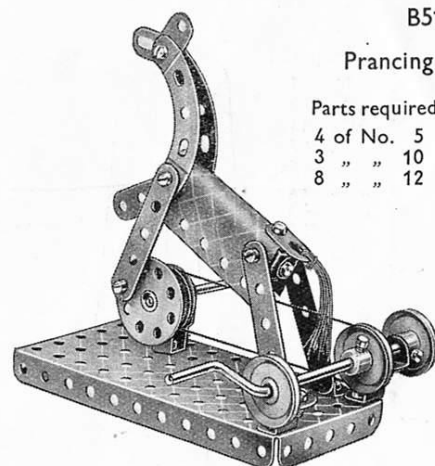


B50. Cot

## Parts required

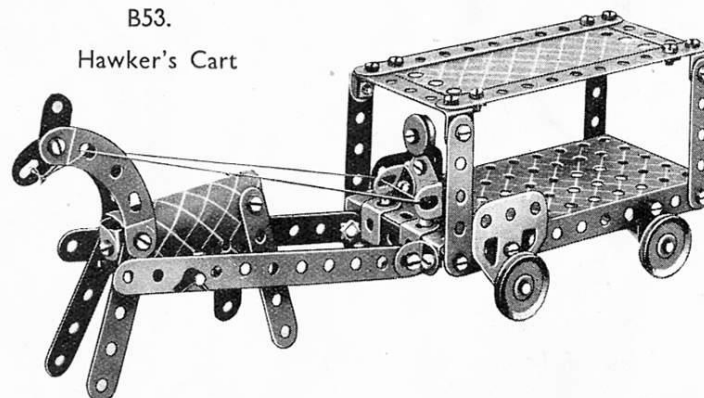
4 of No.	2
7 "	5
3 "	12
4 "	22
30 "	37
1 "	40
2 "	48a
1 "	52
4 "	111c
2 "	190
2 "	191





B51.  
Prancing Horse

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



B53.  
Hawker's Cart

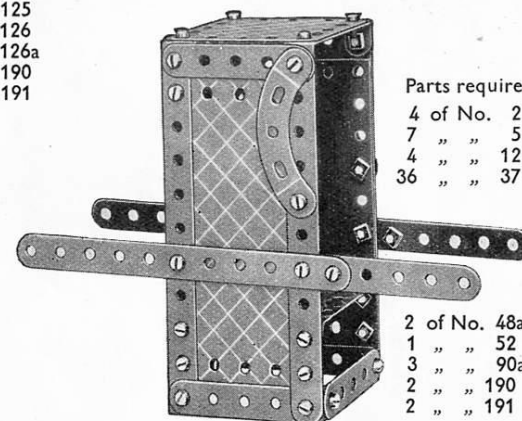
Parts required	1 of No.	17	1 of No.	40	2 of No.	125
4 of No. 2	4	22	2	48a	2	126
8 " " 5	1	23	1	52	2	126a
4 " " 10	4	35	2	90a	1	190
8 " " 12	35	37	2	111c	1	191
2 " " 16	4	37a				

B56. Shepherd's Crook

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



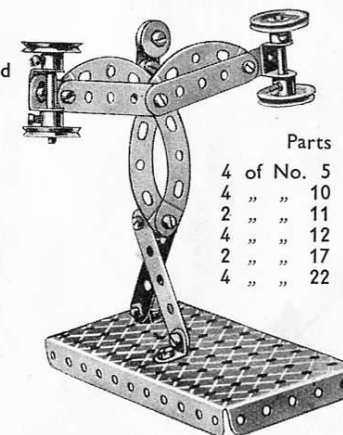
B57. Sedan Chair



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

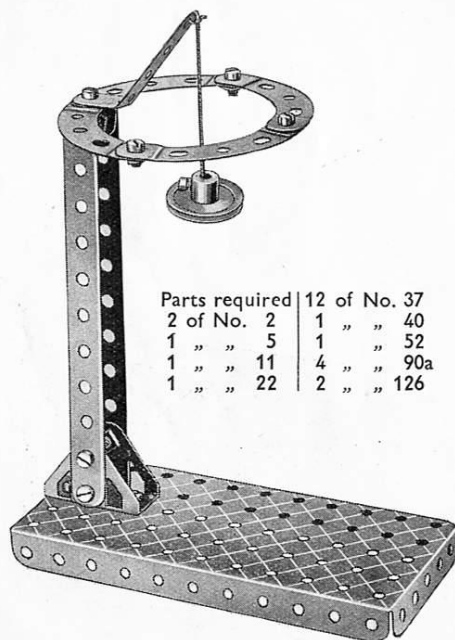
2 of No.	48a
1	52
3	90a
2	190
2	191

B58. Strong Man



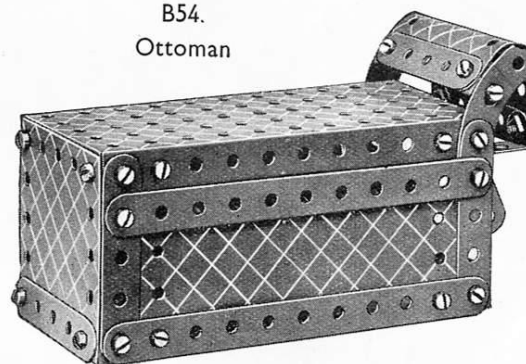
Parts required	4 of No.	5	1 of No.	23
4 " " 10			12	37
2 " " 11			2	37a
4 " " 12			1	52
2 " " 17			4	90a
4 " " 22			2	111c

B52.  
Punching Bag Stand



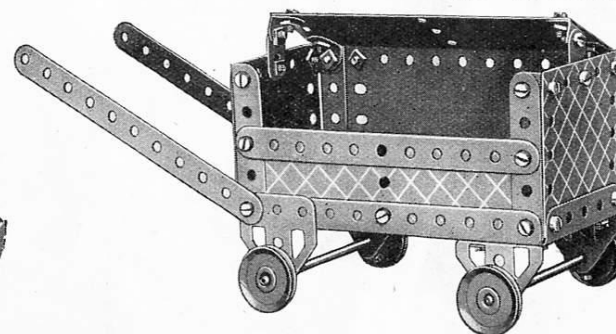
Parts required	12 of No.	37
2 of No. 2	1	40
1 " " 5	1	52
1 " " 11	4	90a
1 " " 22	2	126

B54.  
Ottoman



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

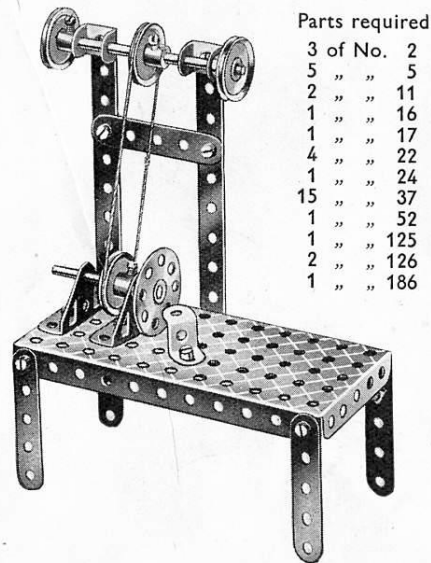
B55. Ash Cart



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



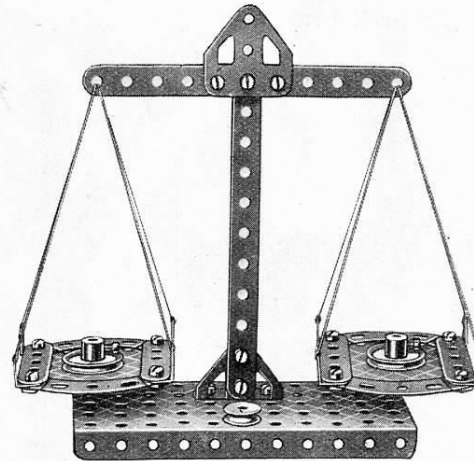
B59. Bench Lathe



## Parts required

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

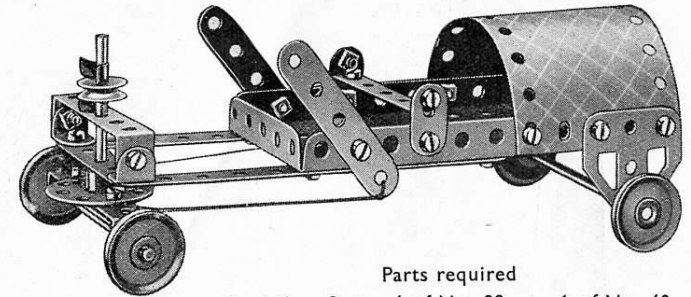
B62. Counter Scales



## 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

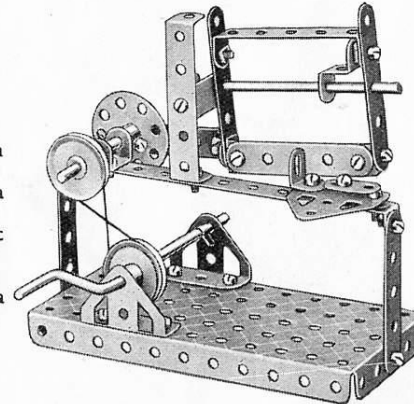
B65. Coaster



## Parts required

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

B63. Power Hack Saw



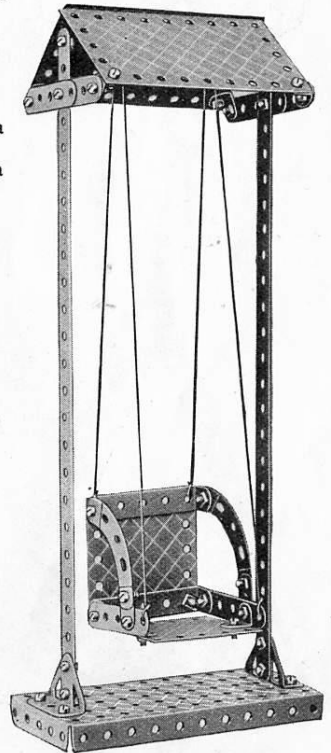
## Parts required

1 of No. 2	18 of No. 37
6 " " 5	12 " " 37a
1 " " 10	1 " " 45
1 " " 11	2 " " 48a
6 " " 12	1 " " 52
1 " " 16	5 " " 111c
1 " " 17	2 " " 125
1 " " 19s	2 " " 126
2 " " 22	1 " " 126a
1 " " 24	1 " " 186
3 " " 35	

B66. Swing

## Parts required

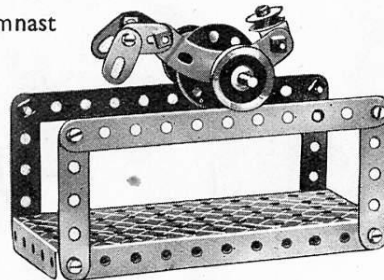
4 of No. 2
8 " " 5
8 " " 12
33 " " 37
1 " " 40
2 " " 48a
1 " " 52
2 " " 90a
2 " " 126
2 " " 190
2 " " 191



B60. Gymnast

## Parts required

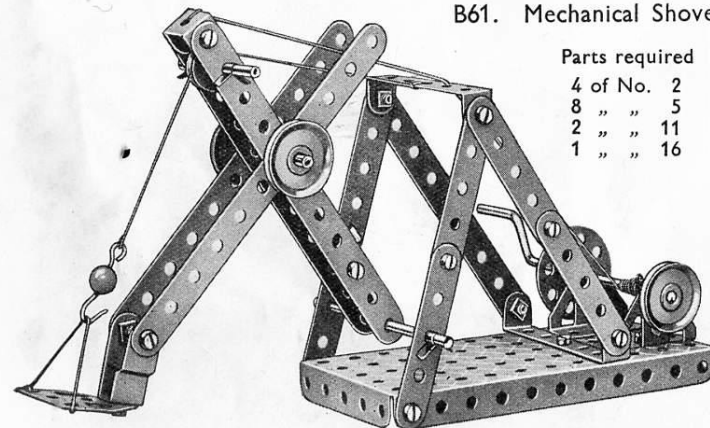
2 of No. 2	1 of No. 24
4 " " 5	13 " " 37
4 " " 10	1 " " 37a
1 " " 12	1 " " 52
1 " " 16	1 " " 90a
2 " " 22	1 " " 111c
1 " " 23	



B61. Mechanical Shovel

## Parts required

4 of No. 2
8 " " 5
2 " " 11
1 " " 16



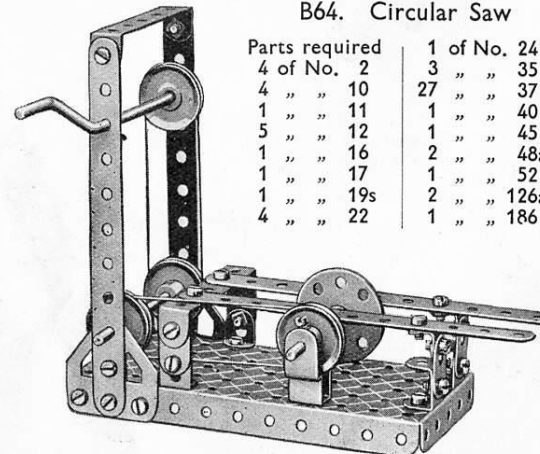
2 of No. 17
1 " " 19s
3 " " 22
1 " " 23
1 " " 24
5 " " 35
20 " " 37
1 " " 40
1 " " 45
2 " " 48a
1 " " 52
1 " " 57c
2 " " 126
1 " " 126a
1 " " 176

B64. Circular Saw

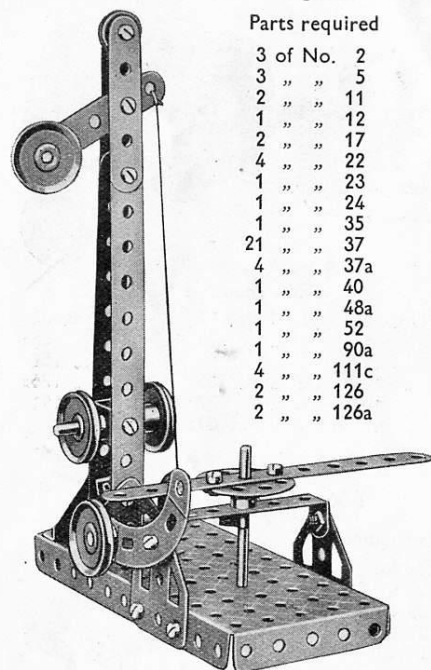
## Parts required

4 of No. 2
4 " " 10
1 " " 11
5 " " 12
1 " " 16
1 " " 17
1 " " 19s
4 " " 22

1 of No. 24
3 " " 35
27 " " 37
1 " " 40
1 " " 45
2 " " 48a
1 " " 52
2 " " 126a
1 " " 186



B67. Automatic Signals

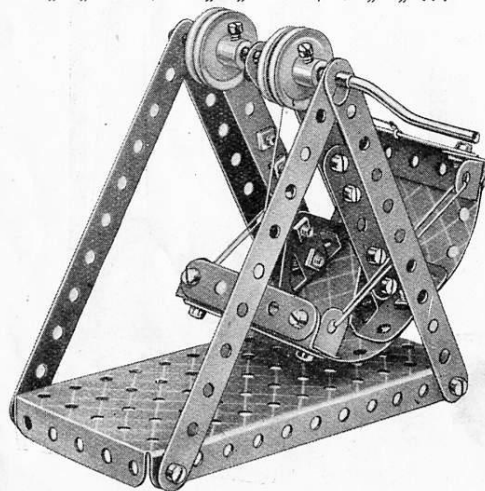


## Parts required

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

B68. Swinging Boat

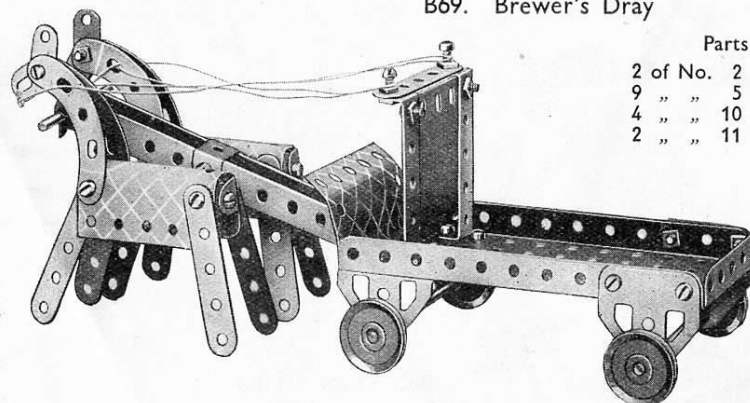
Parts required	1 of No. 19s	1 of No. 40
4 of No. 2	4 "	2 "
8 "	6 "	1 "
1 "	10 "	2 "
4 "	12 "	1 "
	22 "	2 "
	37 "	1 "
	37a "	1 "



## Parts required

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

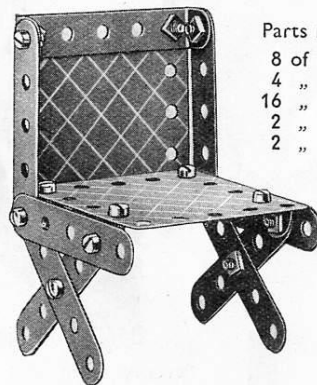
B69. Brewer's Dray



## Parts required

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

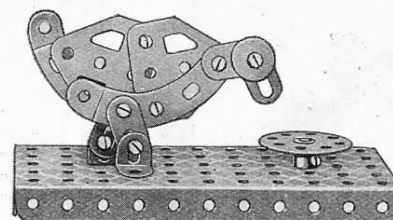
B70. Chair



## Parts required

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

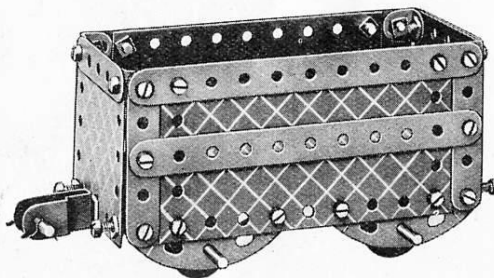
B71. Goose



## Parts required

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

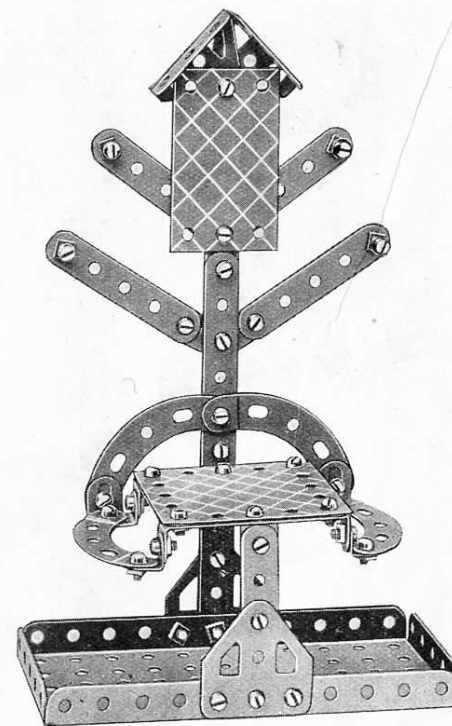
B72. Cattle Truck



## Parts required

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

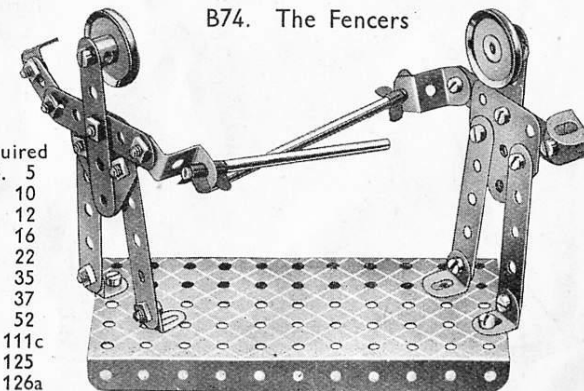
B73. Hat Rack



## Parts required

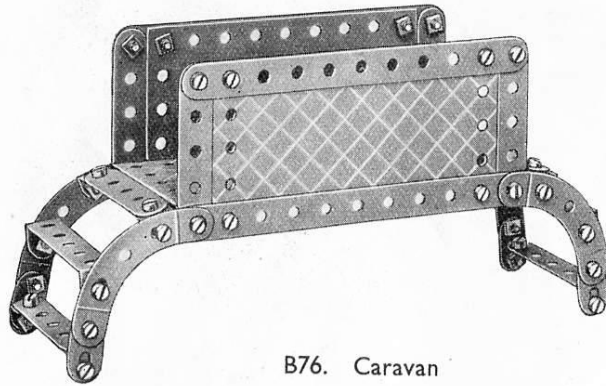
2 of No.	2	8 of No.	37a	2 of No.	126
9 "	5	2 "	48a	2 "	126a
2 "	10	1 "	52	1 "	188
8 "	12	4 "	90a	1 "	190
34 "	37	4 "	111c		

B74. The Fencers





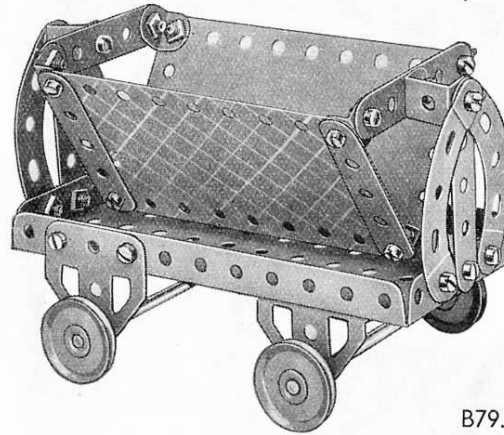
B75. Footbridge



## 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

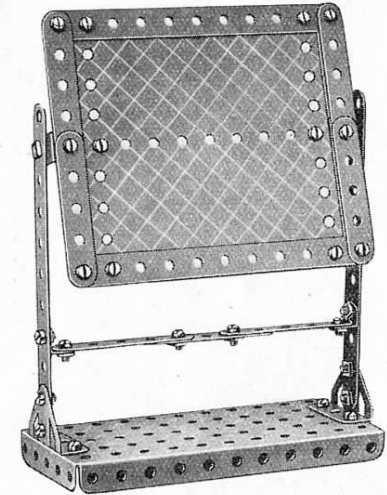
B78. Dump Car



## 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

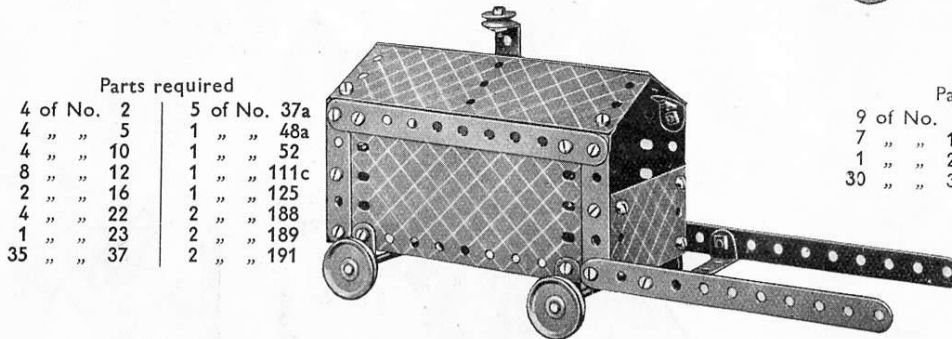
B81. School Blackboard



## Parts required

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

B76. Caravan



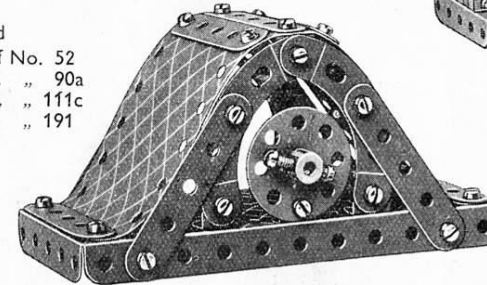
## Parts required

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

## Parts required

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

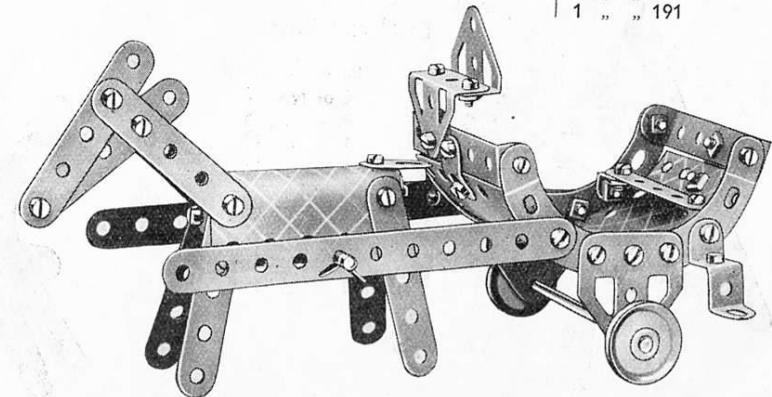
B79. Clock



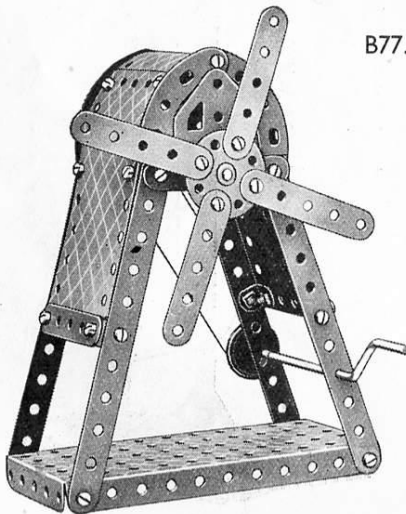
B82. Two-wheeled Trap

## 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



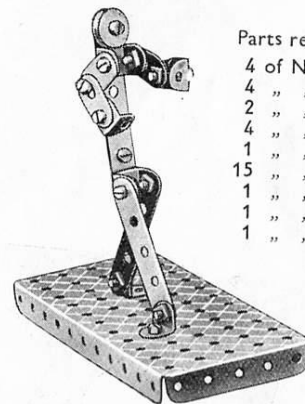
B77. Windmill



## Parts required

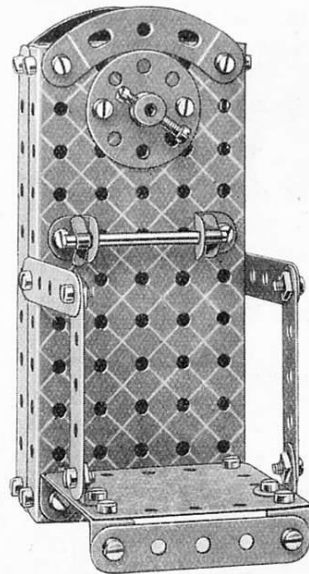
4 of No.	2
8 "	5
4 "	10
4 "	12
1 "	16
1 "	19s
2 "	22
1 "	24
1 "	35
36 "	37
2 "	37a
2 "	48a
1 "	52
4 "	90a
2 "	111c
2 "	126a
1 "	186
1 "	190
2 "	191

B80. Boxer



## Parts required

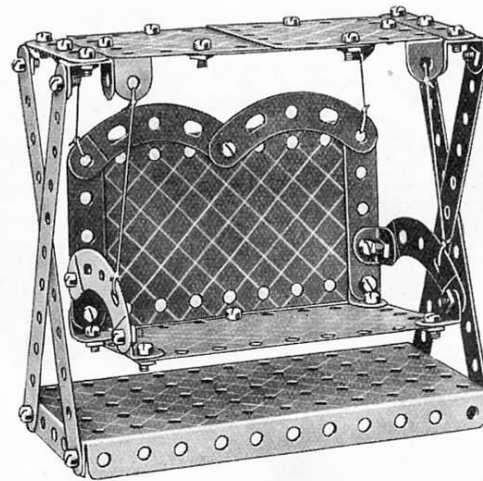
4 of No.	5
4 "	10
2 "	11
4 "	12
1 "	23
15 "	37
1 "	37a
1 "	52
1 "	111c



**B83.**  
Weighing  
Machine

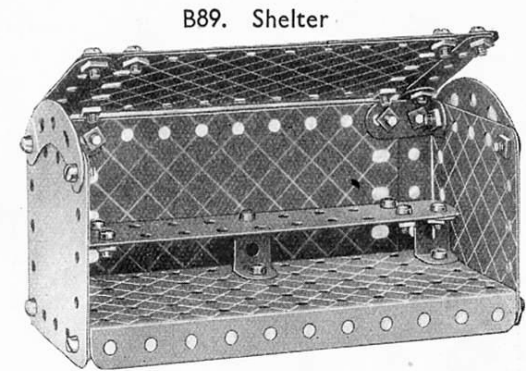
Parts required

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

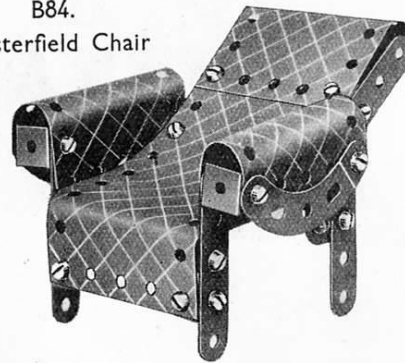
4 of No.	2
8 "	5
2 "	11
8 "	12
34 "	37
1 "	40
2 "	48a
1 "	52
4 "	90a
2 "	126a
2 "	190
2 "	191



**B89.** Shelter

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		

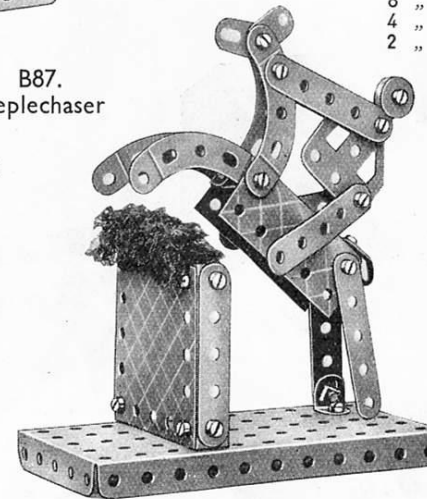
**B84.**  
Chesterfield Chair



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

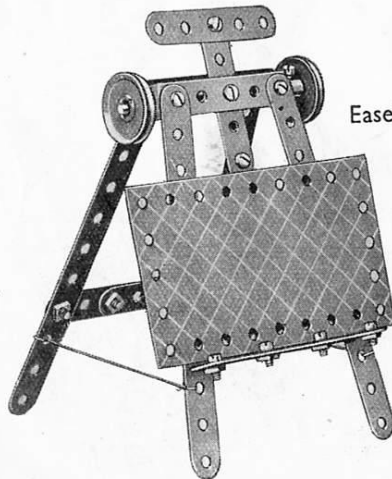
**B87.**  
Steeplechaser



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

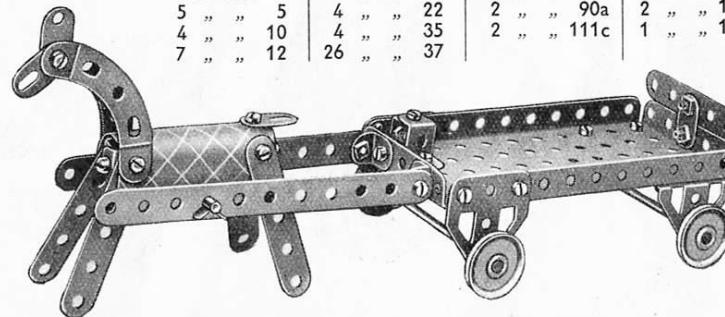
**B85.**  
Easel and Board



Parts required

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

**B88.**  
Horse and Cart

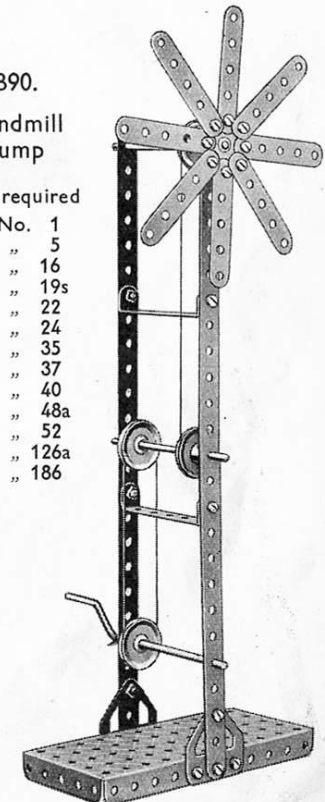


Parts required	2 of No.	16	2 of No.	37a	1 of No.	125
2 of No.	2	1 "	52	2 "	126	
5 "	5	4 "	90a	2 "	126a	
4 "	10	4 "	111c	1 "	190	
7 "	12	26 "				

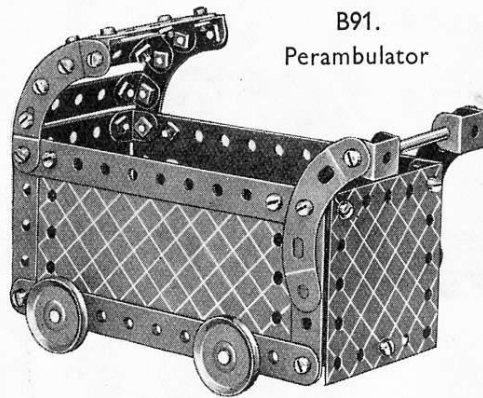
**B90.**  
Windmill  
Pump

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



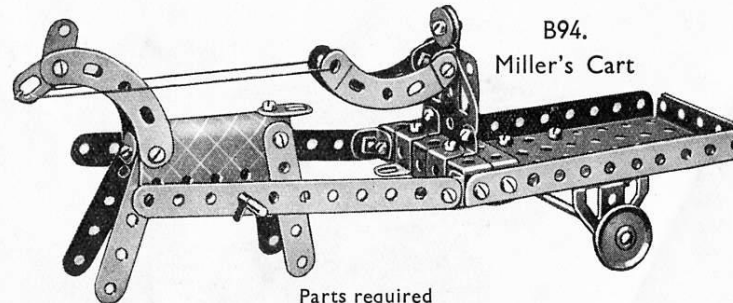




B91.  
Perambulator

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

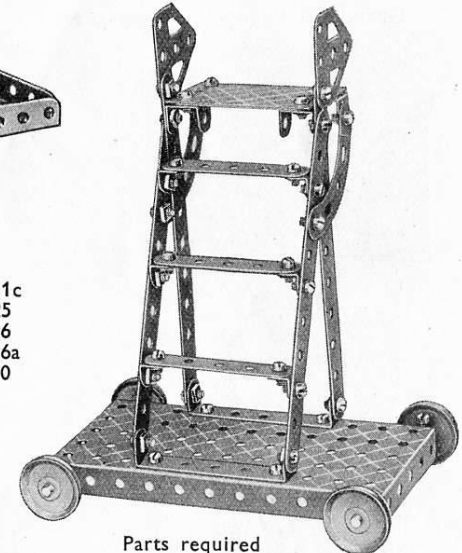


B94.  
Miller's Cart

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

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

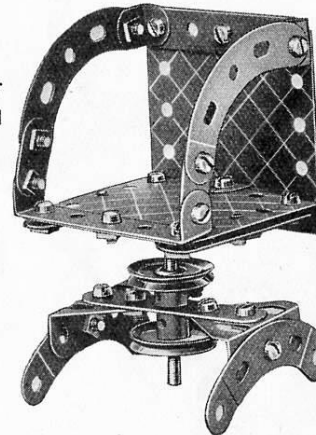
2 of No. 2	2 of No. 35	3 of No. 111c
9 " " 5	34 " " 37	2 " " 126
2 " " 10	3 " " 37a	2 " " 126a
6 " " 12	2 " " 48a	1 " " 188
1 " " 16	1 " " 52	1 " " 190
1 " " 23	4 " " 90a	2 " " 191

B95.

Revolving  
Office Chair

Parts required

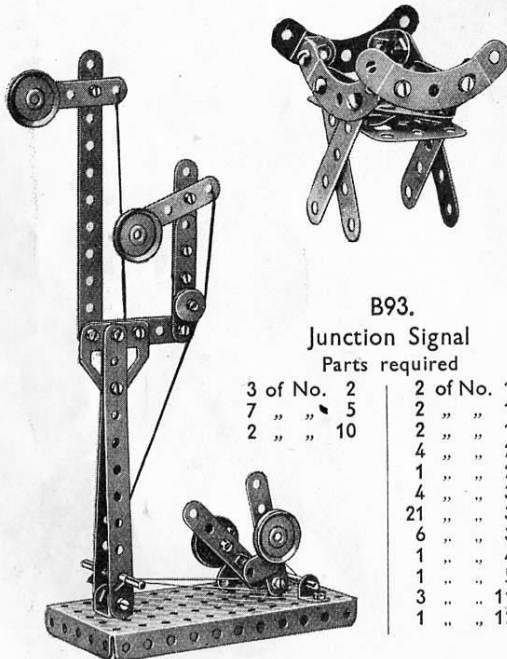
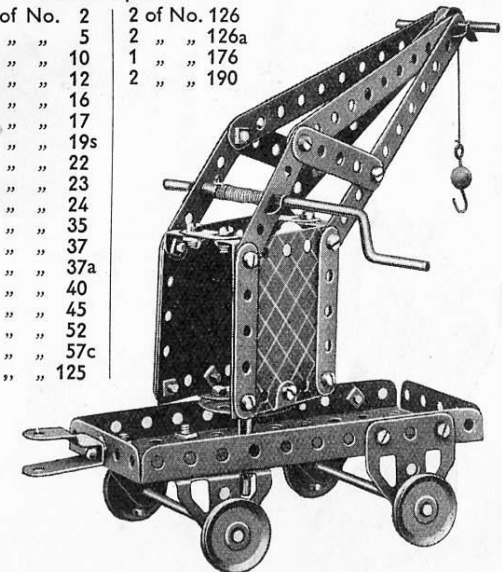
6 of No. 5
4 " " 10
3 " " 12
1 " " 17
2 " " 22
1 " " 24
26 " " 37
4 " " 37a
1 " " 48a
4 " " 90a
2 " " 126
2 " " 190



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	



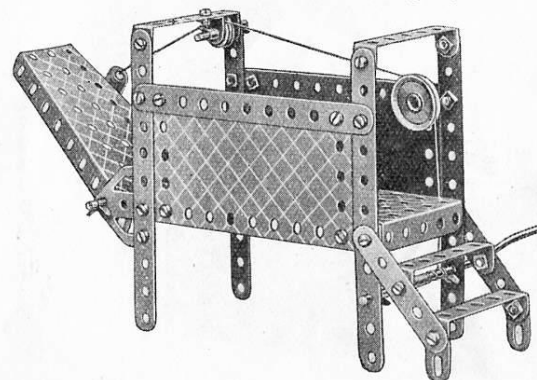
B93.

Junction Signal

Parts required

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

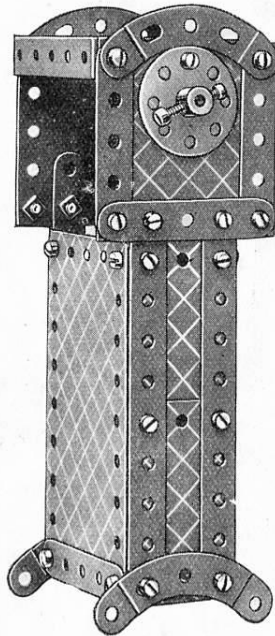
B96. Gangway



Parts required

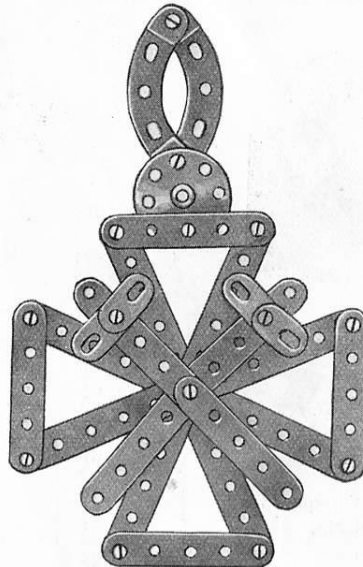
6 of No. 2
4 " " 5
3 " " 10
5 " " 12
1 " " 16
1 " " 17
1 " " 19s
1 " " 22
1 " " 23
6 " " 35
32 " " 37
1 " " 37a
1 " " 40
2 " " 48a
1 " " 52
1 " " 54a
1 " " 111c
2 " " 126a
1 " " 176
2 " " 191

B99.  
Grandfather Clock



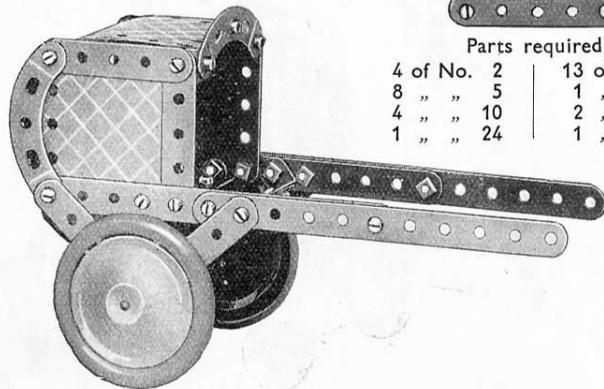
Parts required	
4 of No. 2	
8 " " 5	
8 " " 12	
1 " " 24	
31 " " 37	
2 " " 48a	
4 " " 90a	
1 " " 111c	
2 " " 188	
2 " " 190	
2 " " 191	

B101.  
Medal



B100.  
Rickshaw

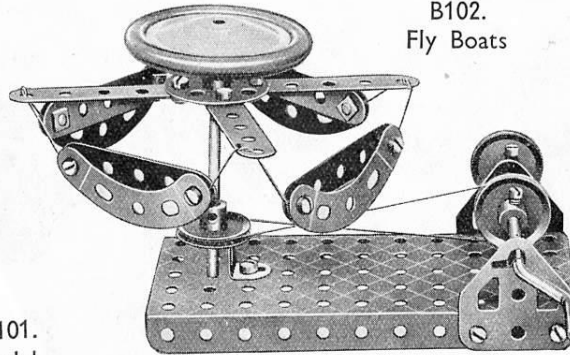
Parts required	
4 of No. 2	3 of No. 90a
9 " " 5	2 " " 126a
7 " " 12	2 " " 187
1 " " 15b	2 " " 190
31 " " 37	2 " " 191
2 " " 48a	



Parts required

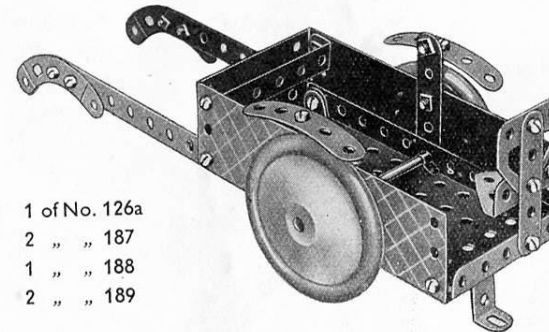
4 of No. 2	13 of No. 37
8 " " 5	1 " " 37a
4 " " 10	2 " " 90a
1 " " 24	1 " " 111c

B102.  
Fly Boats



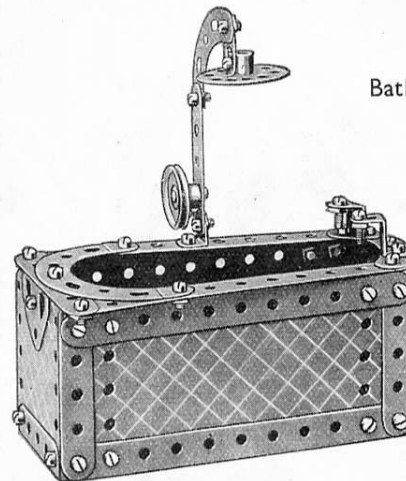
Parts required	
2 of No. 2	
6 " " 5	
5 " " 12	
1 " " 15b	
26 " " 37	
2 " " 48a	
1 " " 52	
2 " " 90a	
1 " " 125	
1 " " 126	

B103. Milk Float



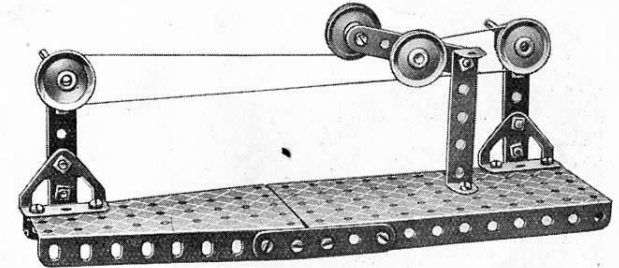
1 of No. 126a	
2 " " 187	
1 " " 188	
2 " " 189	

B104.  
Bath with Shower



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

B105. Jockey Pulley



5 of No. 2	
2 " " 17	
4 " " 22	
2 " " 35	
20 " " 37	

Parts required

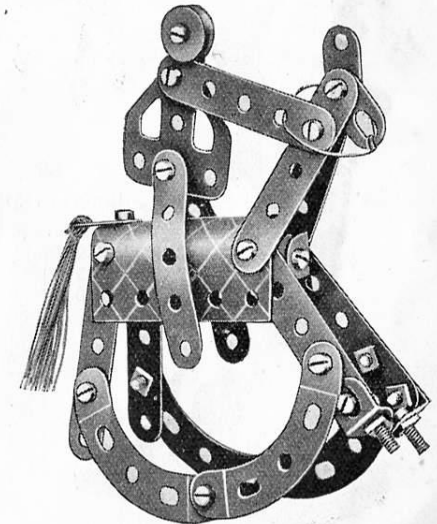
1 of No. 37a	
1 " " 40	
1 " " 48a	
1 " " 52	

1 of No. 54a	
2 " " 111c	
2 " " 125	
2 " " 126	

B106.  
Rocking Horse

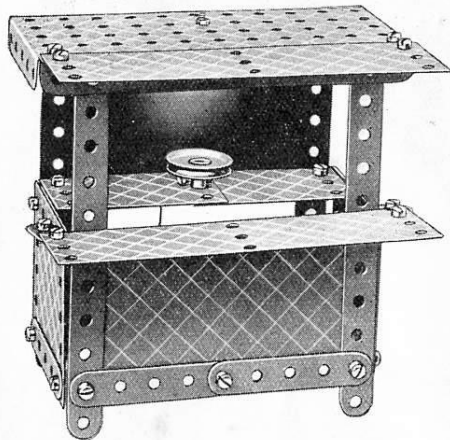
Parts required

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



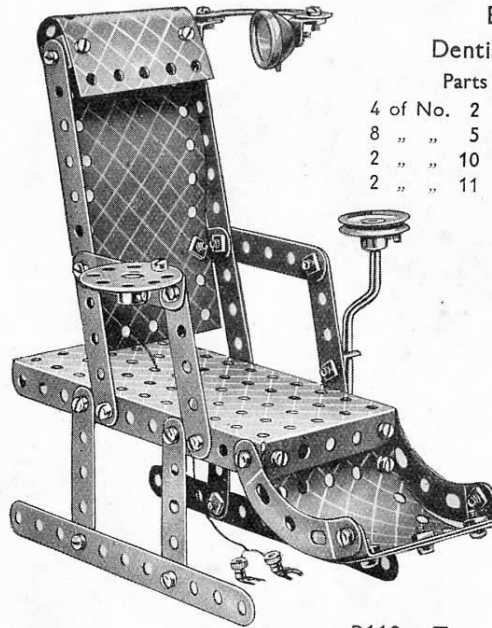


B107.  
Coffee Stall



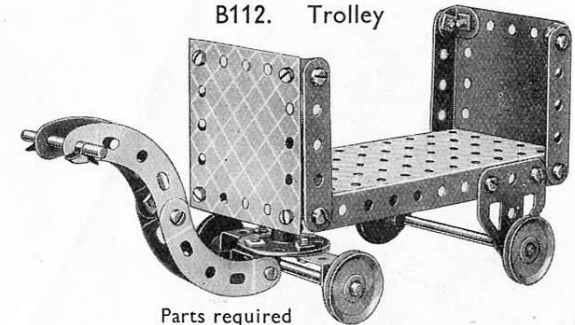
Parts required		
4 of No.	2	
8 "	5	
4 "	10	
8 "	12	
1 "	22	
35 "	37	
2 "	48a	
1 "	52	
1 "	111c	
2 "	188	
2 "	189	
2 "	190	
2 "	191	
Lighting Set		

B109.  
Dentist's Chair



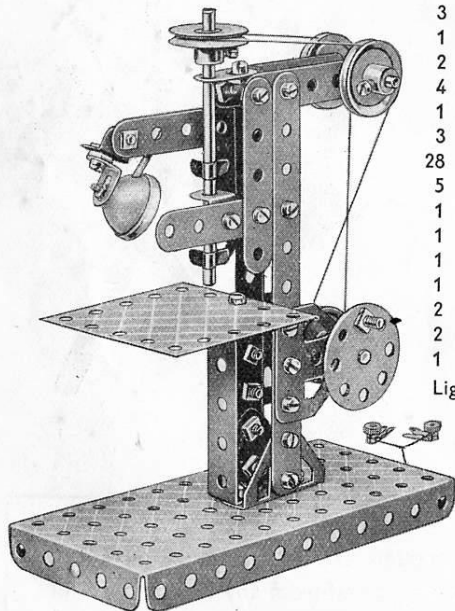
Parts required		
4 of No.	2	7 of No. 12
8 "	5	1 " 19s
2 "	10	1 " 22
2 "	11	1 " 24
		3 " 35
		36 " 37
		6 " 37a
		1 " 48a
		1 " 52
		3 " 90a
		4 " 111c
		1 " 126a
		2 " 190
		1 " 191
Lighting Set		

B112. Trolley



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

B108.  
Sensitive Drill

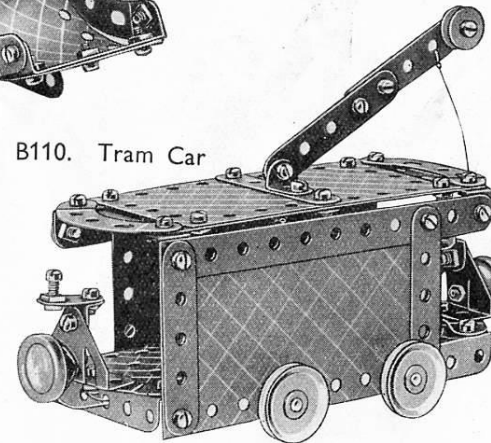


Parts required		
2 of No.	2	
6 "	5	
2 "	10	
2 "	11	
3 "	12	
1 "	16	
2 "	17	
4 "	22	
1 "	24	
3 "	35	
28 "	37	
5 "	37a	
1 "	40	
1 "	48a	
1 "	52	
1 "	111c	
2 "	126	
2 "	126a	
1 "	190	
Lighting Set		

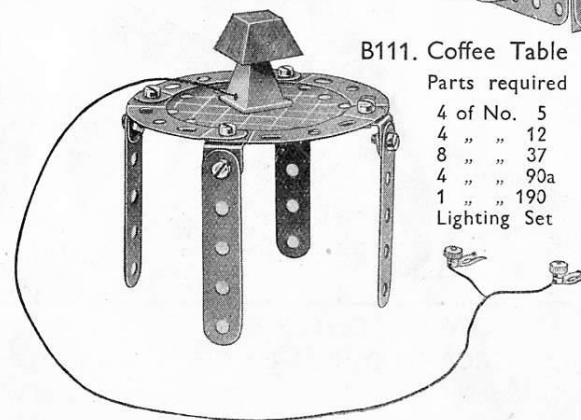
Parts required

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	

B110. Tram Car



B111. Coffee Table



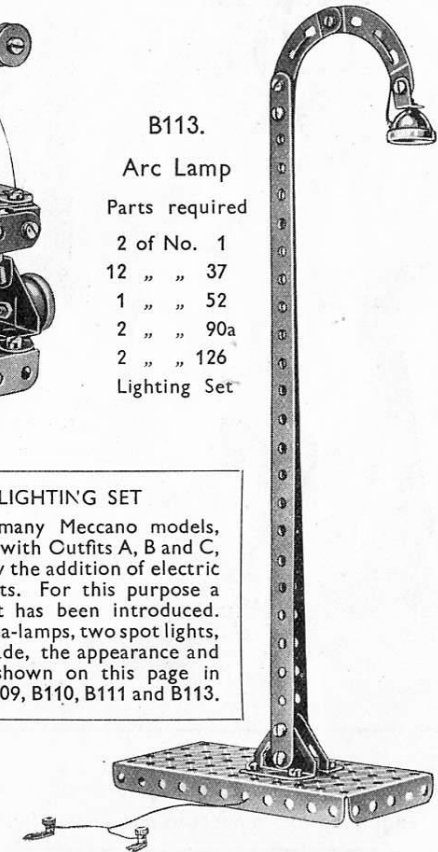
Parts required		
4 of No.	5	
4 "	12	
8 "	37	
4 "	90a	
1 "	190	
Lighting Set		

B113.  
Arc Lamp

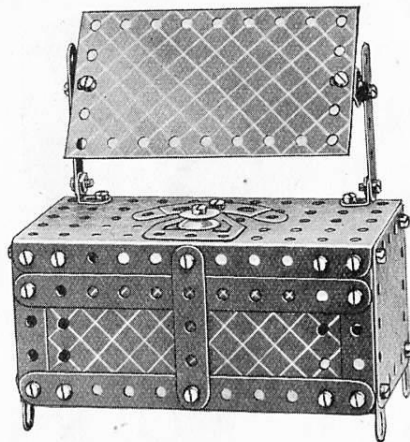
Parts required		
2 of No.	1	
12 "	37	
1 "	52	
2 "	90a	
2 "	126	
Lighting Set		

#### 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 spot lights, and a fancy lamp shade, the appearance and uses of which are shown on this page in models B107, B108, B109, B110, B111 and B113.



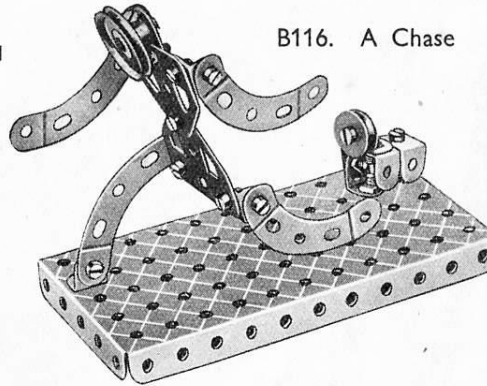
B114. Dressing Table



## Parts required

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

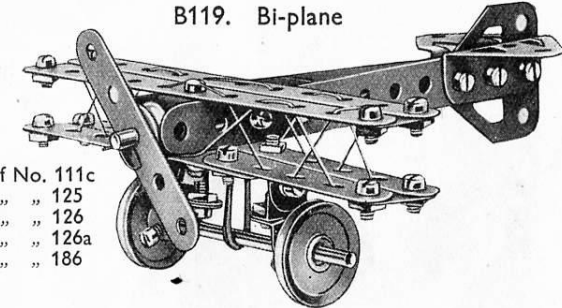
B116. A Chase



## Parts required

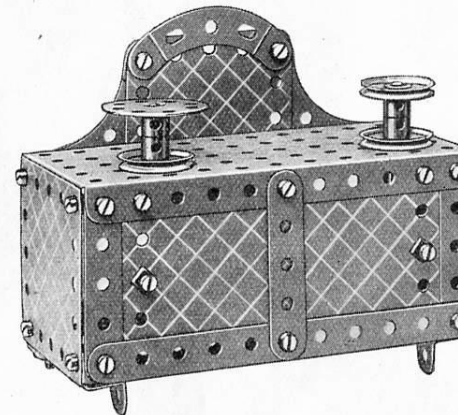
4	of No.	2
6	" "	5
4	" "	10
2	" "	11
4	" "	12
2	" "	16
2	" "	22
1	" "	23
2	" "	35
22	" "	37
3	" "	37a
1	" "	40

B119. Bi-plane



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

B120. Sideboard



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

B121. Stamping Machine

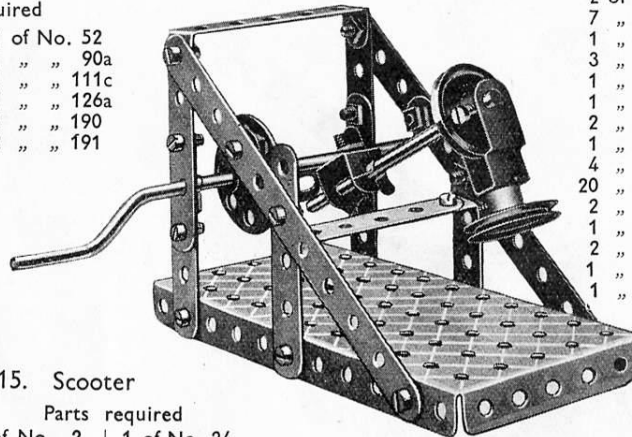
## Parts required

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

## 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			

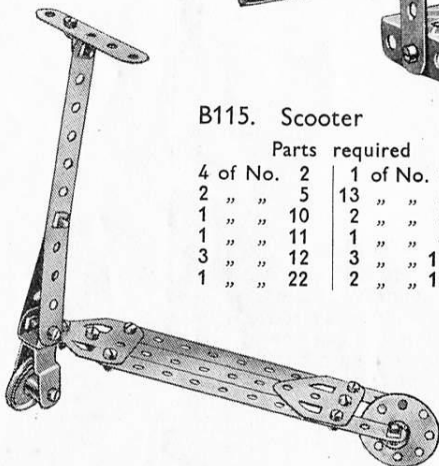
B117. Trip Hammer



## Parts required

2	of No.	2
7	" "	5
1	" "	11
3	" "	12
1	" "	16
1	" "	19s
2	" "	22
1	" "	24
4	" "	35
20	" "	37
2	" "	37a
1	" "	45
2	" "	48a
1	" "	52
1	" "	111c

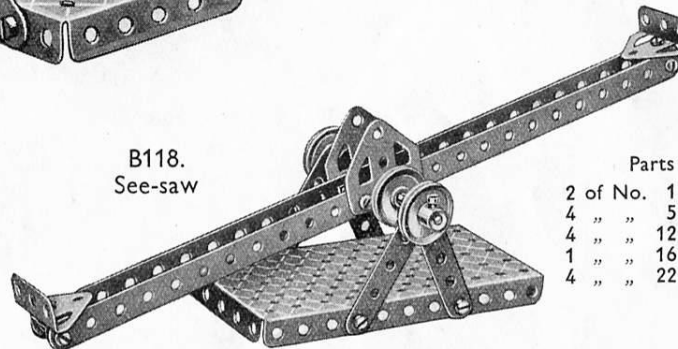
B115. Scooter



## Parts required

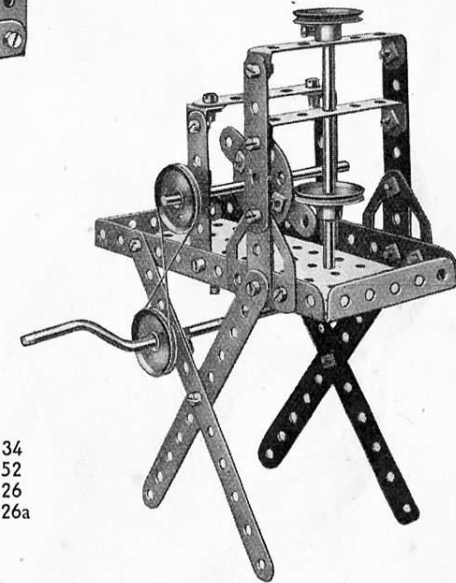
4	of No.	2	1	of No.	24
2	" "	5	13	" "	37
1	" "	10	2	" "	37a
1	" "	11	1	" "	45
3	" "	12	3	" "	111c
1	" "	22	2	" "	126a

B118. See-saw



## Parts required

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

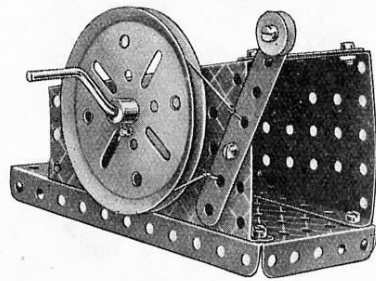


## HOW TO CONTINUE

This completes our examples of models that may be made with MECCANO Outfit B (or Outfits A and Aa). The next models are a little more advanced, requiring extra parts to construct them. The necessary parts are all contained in a Ba Accessory Outfit, the price of which may be obtained from any Meccano dealer.



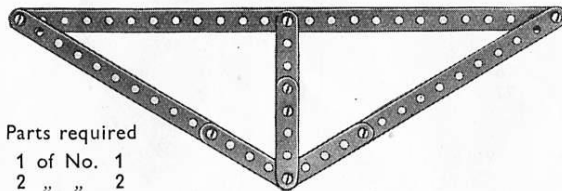
C1. Band Brake



## 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

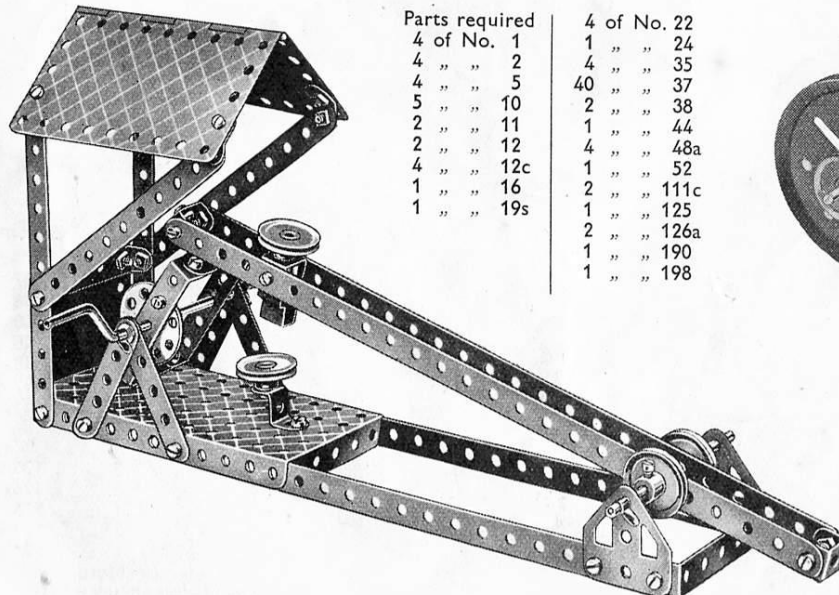
C2. Triangulated Truss



## Parts required

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

C3. Helve Hammer



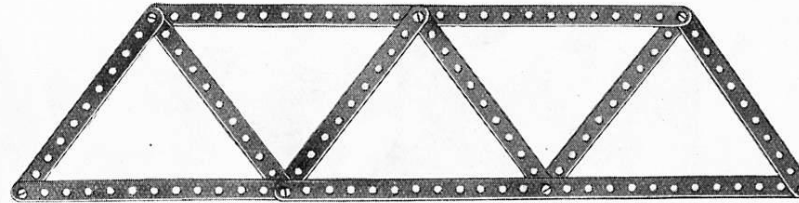
## Parts required

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
1	"	52
2	"	111c
1	"	125
2	"	126a
1	"	190
1	"	198

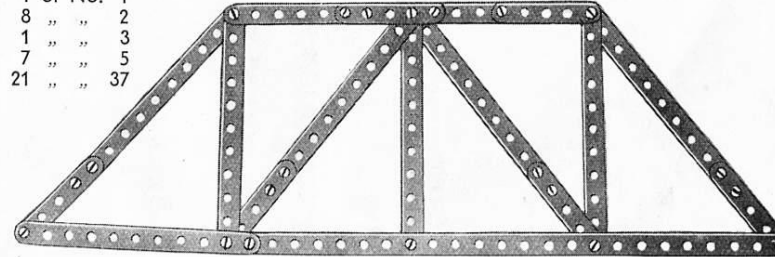
C4. Compound Triangulated Truss



## Parts required

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

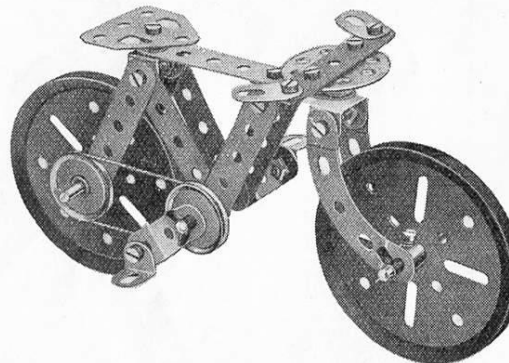
C5. Howe Truss



## Parts required

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

C6. Bicycle



## Parts required

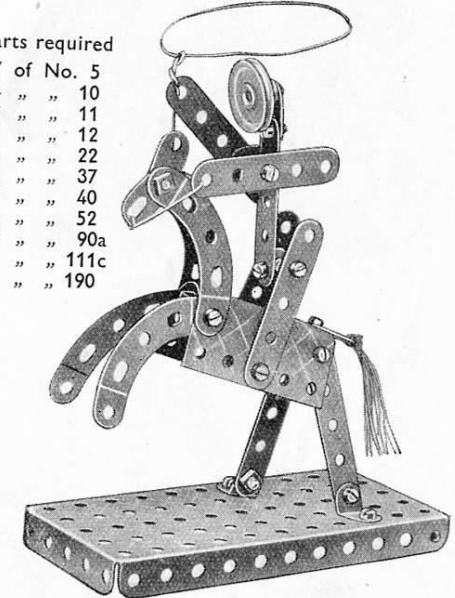
1	of No.	3
7	"	5
2	"	10
2	"	11
4	"	12
1	"	17
2	"	18a
2	"	19b
2	"	22

1	of No.	24
4	"	35
14	"	37
4	"	37a
3	"	38
2	"	90a
1	"	111c
2	"	125
1	"	126a
1	"	186

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



C8. Bath Chair

## Parts required

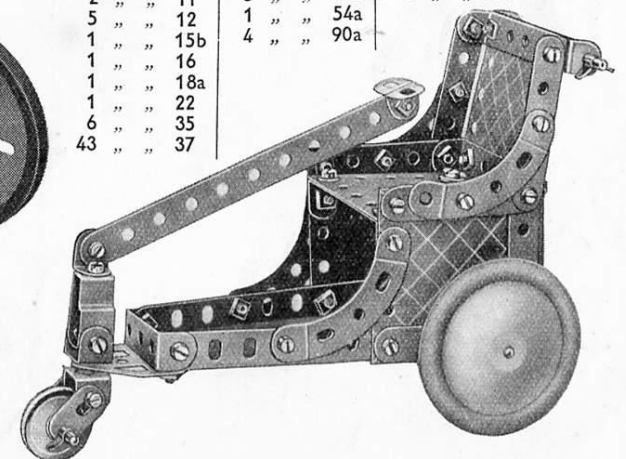
1	of No.	2
9	"	5
4	"	10
2	"	11
5	"	12
1	"	15b
1	"	16
1	"	18a
1	"	22
6	"	35
43	"	37

## 4 of No. 37a

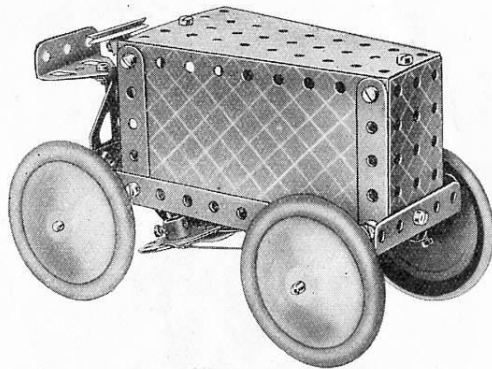
8	"	38
1	"	44
1	"	48
5	"	48a
1	"	54a
4	"	90a

## 1 of No. 111c

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



C9. Motor Tractor



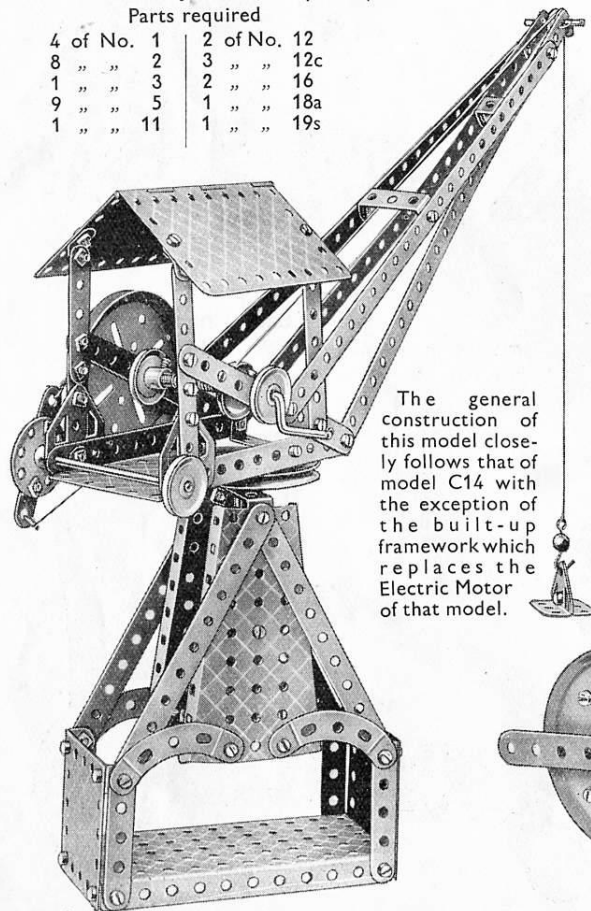
Parts required

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
2 " " 191

C10. 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

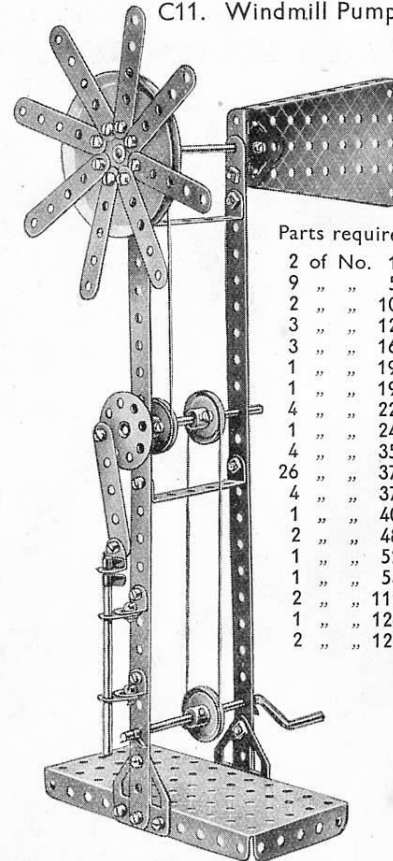


The general construction of this model closely follows that of model C14 with the exception of the built-up framework which replaces the Electric Motor of that model.

Parts required for C10 (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

C11. Windmill Pump



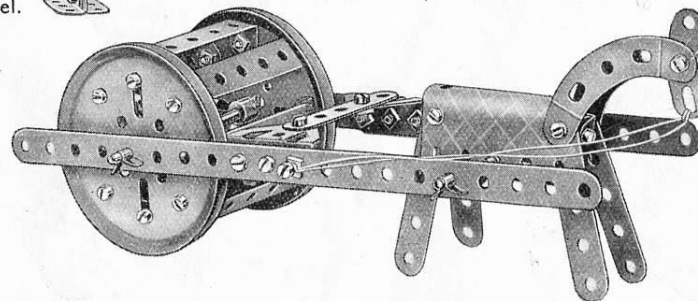
Parts required

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

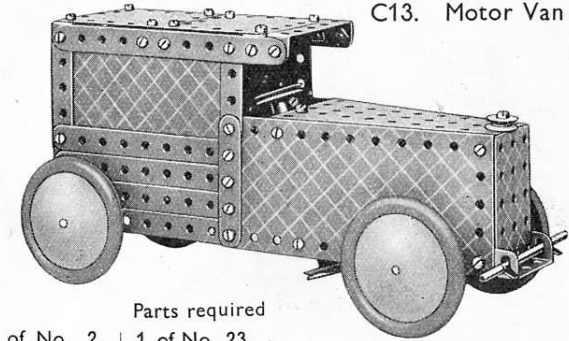
C12. Field Roller

Parts required

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



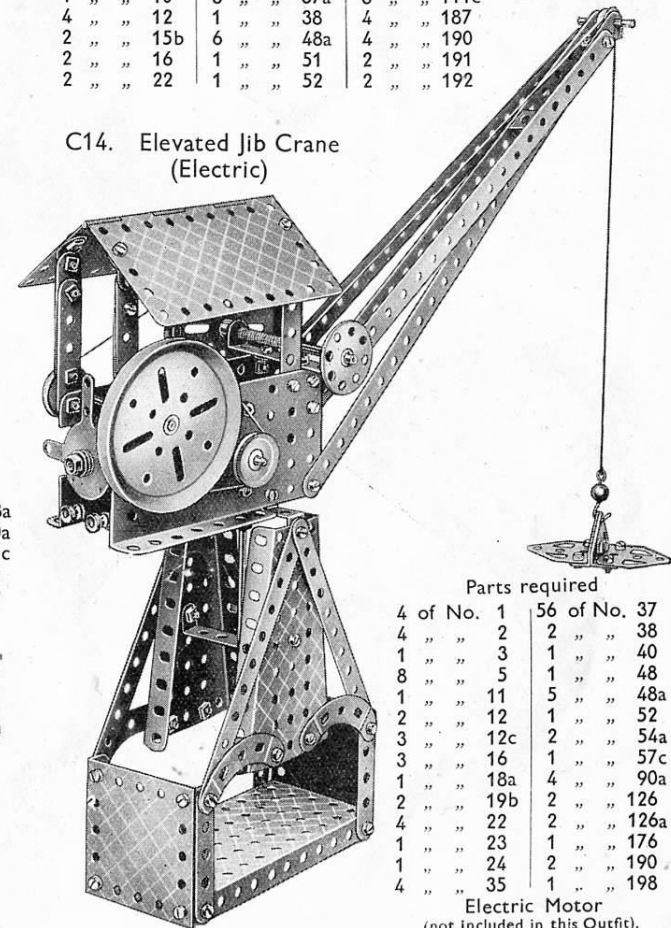
C13. Motor Van



Parts required

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

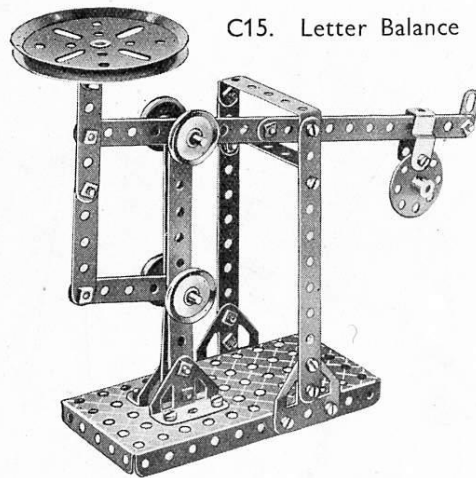
C14. Elevated Jib Crane (Electric)



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

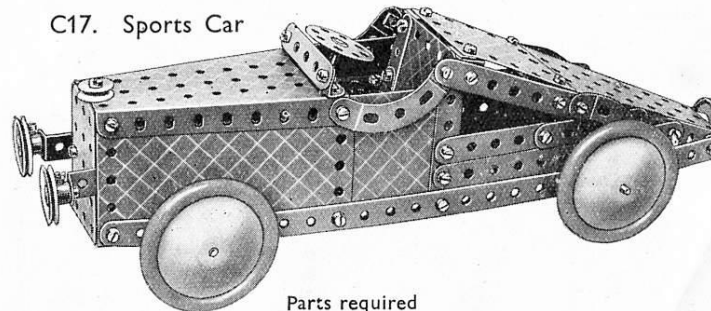
Electric Motor  
(not included in this Outfit).



C15. 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



C17. Sports Car

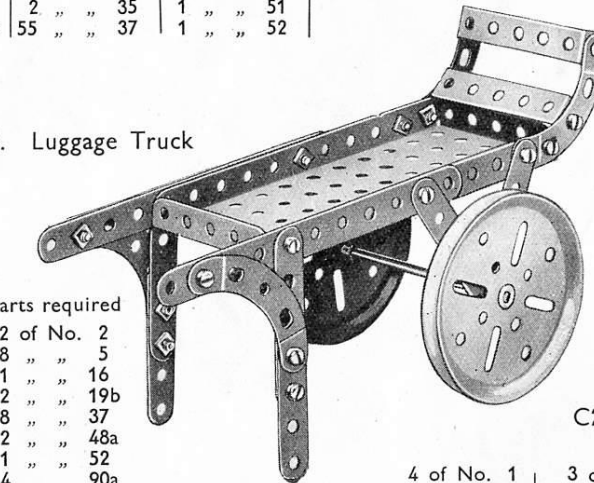
## Parts required

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

C18. Luggage Truck

## Parts required

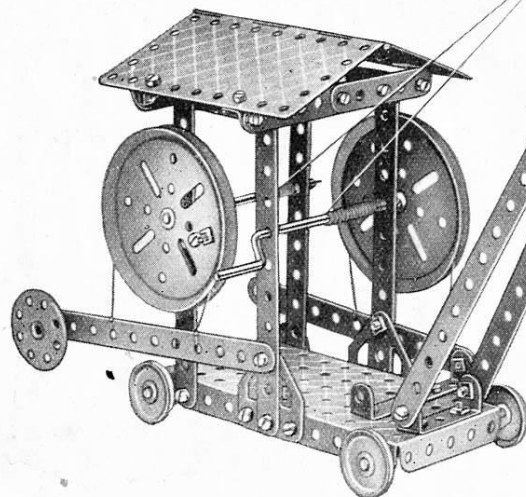
2 of No.	2
8 "	5
1 "	16
2 "	19b
18 "	37
2 "	48a
1 "	52
4 "	90a



C16. Travelling Crane

## Parts required

2 of No.	1	2 of No.	19b	1 of No.	48
6 "	2	4 "	22	1 "	48a
6 "	5	1 "	23	1 "	52
1 "	11	1 "	24	1 "	57c
8 "	12	3 "	35	4 "	111c
3 "	16	34 "	37	2 "	126a
1 "	18a	9 "	37a	1 "	176
1 "	19s	1 "	40	1 "	198

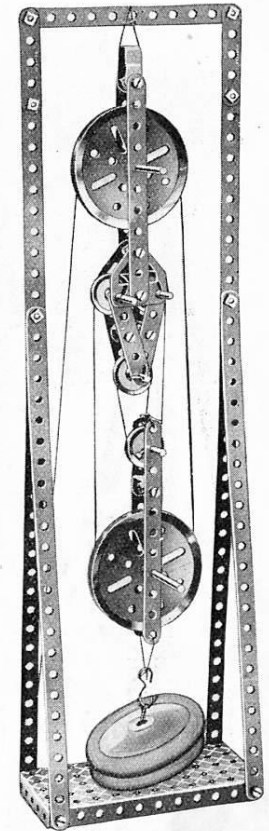


C19.

Pulley Block,  
5:1

## Parts required

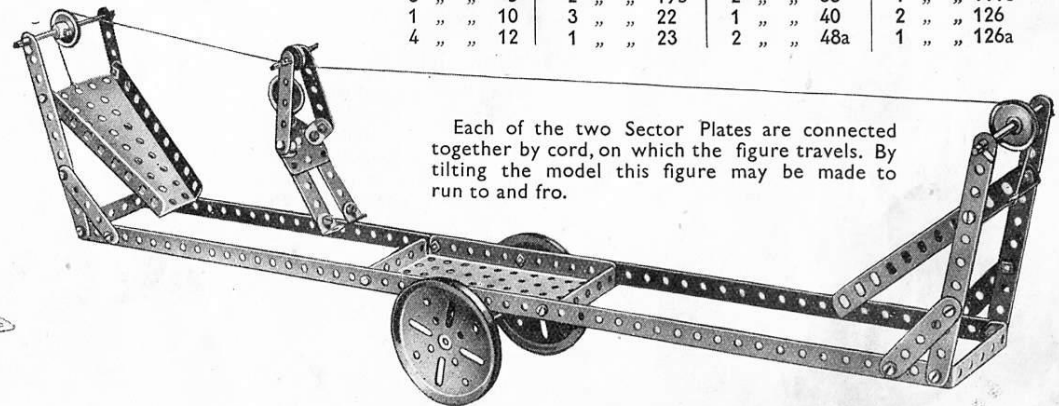
4 of No.	1
7 "	2
6 "	5
2 "	11
2 "	12
2 "	16
2 "	17
2 "	18a
2 "	19b
4 "	22
6 "	35
24 "	37
2 "	38
1 "	40
1 "	44
1 "	52
1 "	57c
2 "	126a
2 "	187



C20. Aerial Flight

## Parts required

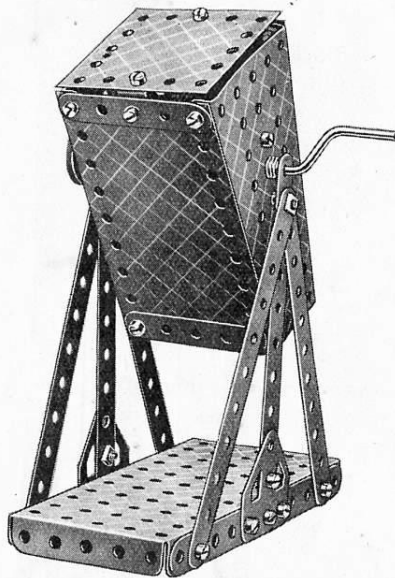
4 of No.	1	3 of No.	16	6 of No.	35	1 of No.	52
4 "	2	1 "	18a	33 "	37	2 "	54a
8 "	5	2 "	19b	2 "	38	1 "	111c
1 "	10	3 "	22	1 "	40	2 "	126
4 "	12	1 "	23	2 "	48a	1 "	126a



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.



C21. Butter Churn



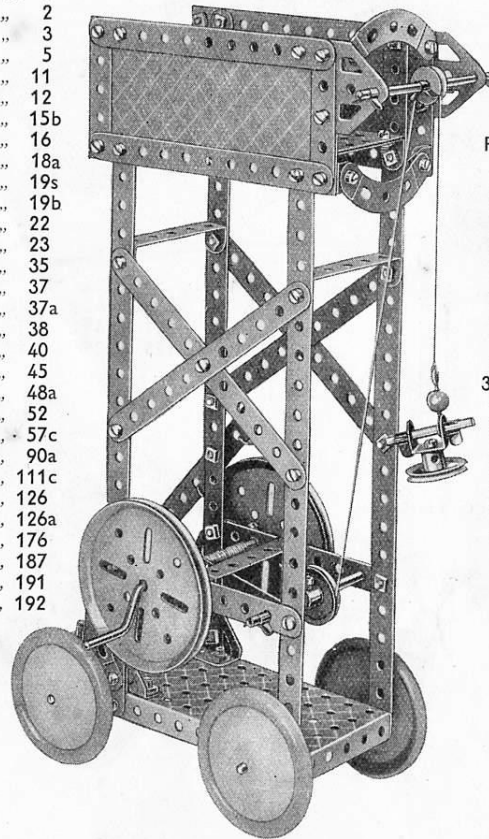
Parts required

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

Parts required

4 of No. 1	
8 " " 2	
1 " " 3	
8 " " 5	
1 " " 11	
4 " " 12	
2 " " 15b	
2 " " 16	
2 " " 18a	
1 " " 19s	
2 " " 19b	
2 " " 22	
1 " " 23	
8 " " 35	
52 " " 37	
2 " " 37a	
3 " " 38	
1 " " 40	
1 " " 45	
5 " " 48a	
1 " " 52	
1 " " 57c	
4 " " 90a	
2 " " 111c	
2 " " 126	
2 " " 126a	
1 " " 176	
4 " " 187	
1 " " 191	
2 " " 192	

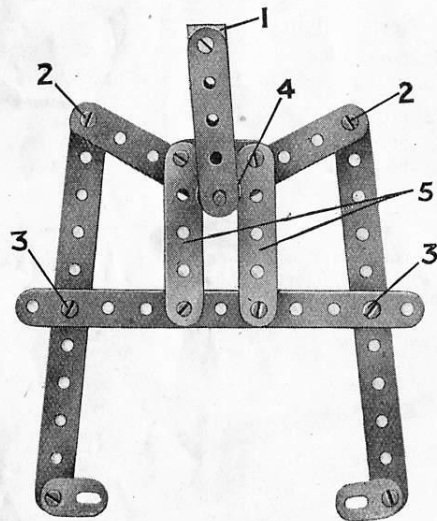
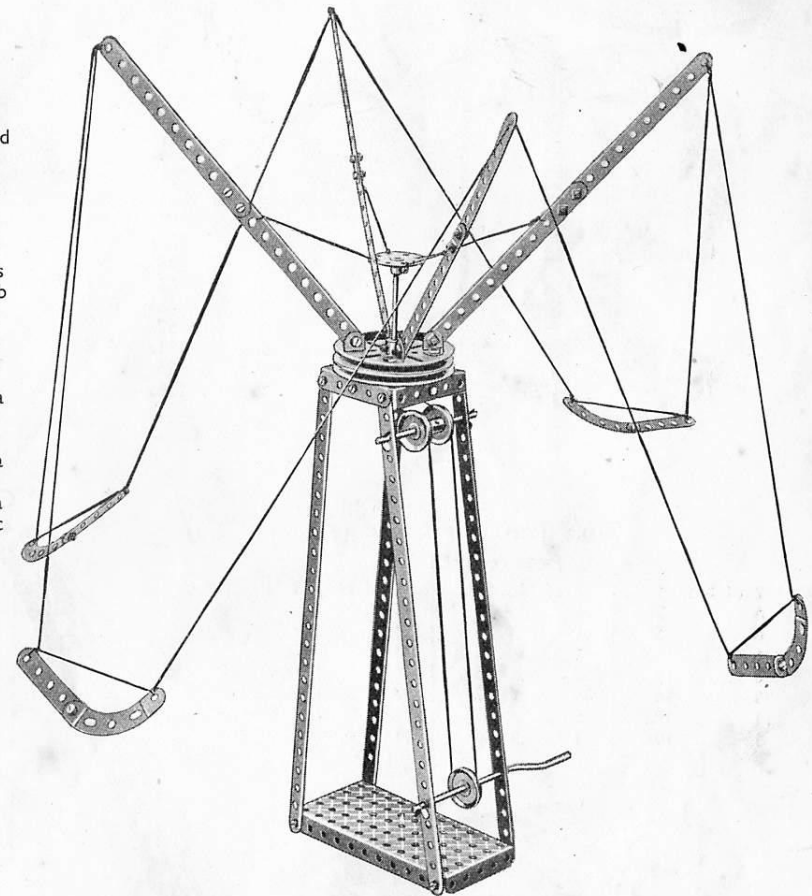
C22. Tower Wagon



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	

C24. Fly Boats



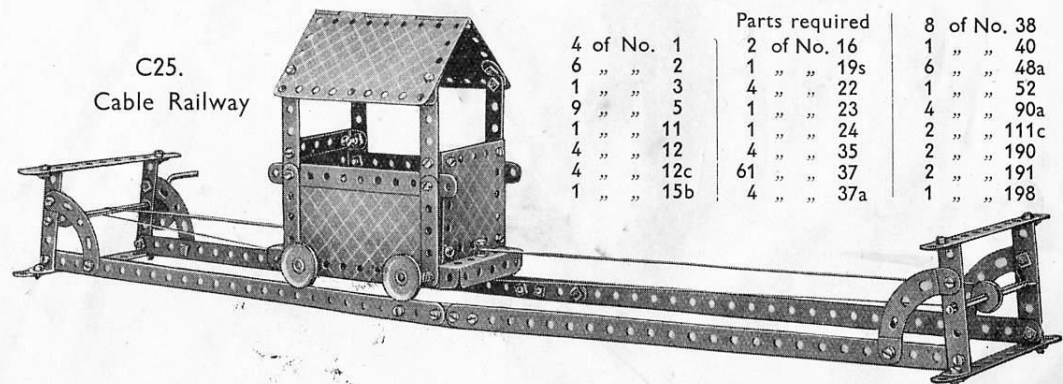
C23.

Friction Grip Tongs

The hoisting cord is attached to the Double Bracket 1. The joints 2, 3 are lock-nutted, 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

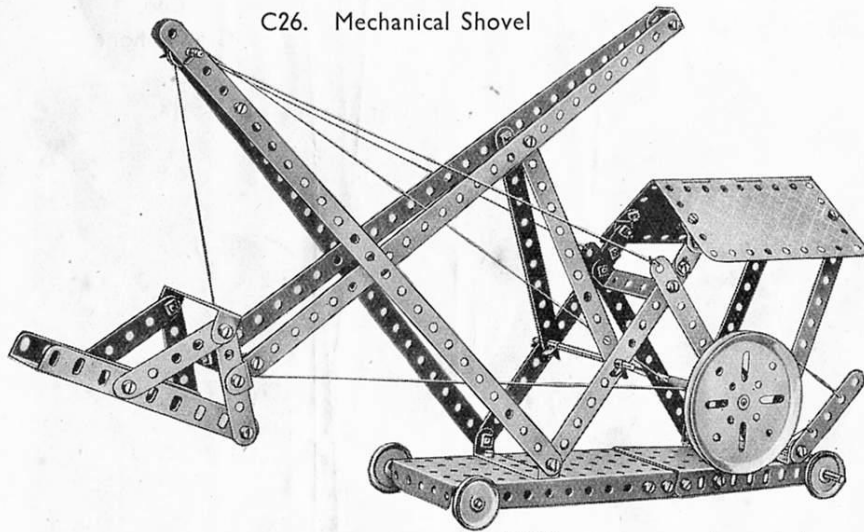
3 of No. 2	1 of No. 23
5 " " 5	2 " " 35
4 " " 10	12 " " 37
1 " " 11	4 " " 37a
1 " " 18a	4 " " 38

C25.  
Cable Railway

Parts required

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

C26. Mechanical Shovel

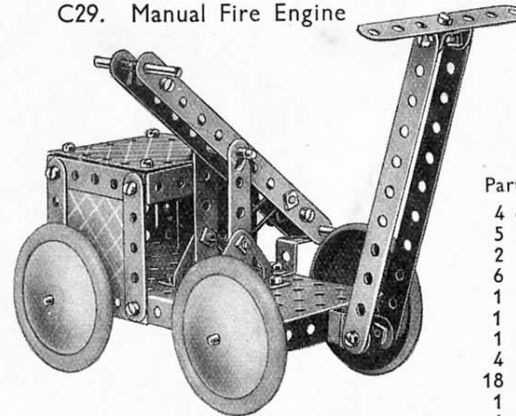


Parts required

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
6	48a
1	54a
2	111c
1	176
1	198

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 secured at its inner end to a Crank Handle that is controlled by the hand brake shown in the photograph.

C29. Manual Fire Engine



Parts required

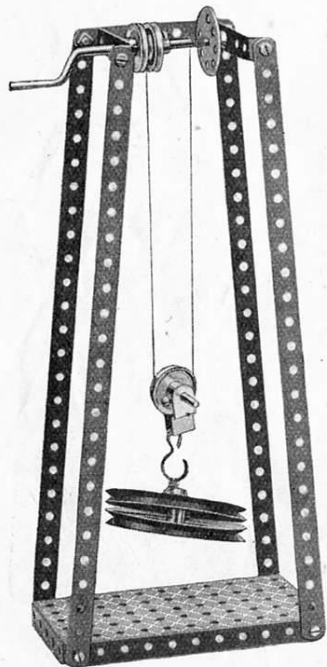
4 of No.	2	1 of No.	18a	1 of No.	52
1	3	6	35	2	111c
8	5	34	37	1	125
2	11	6	37a	2	126
6	12	1	38	1	186
2	15b	1	45	4	187
2	17	2	48a	4	190

C31. Telescope Mast

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

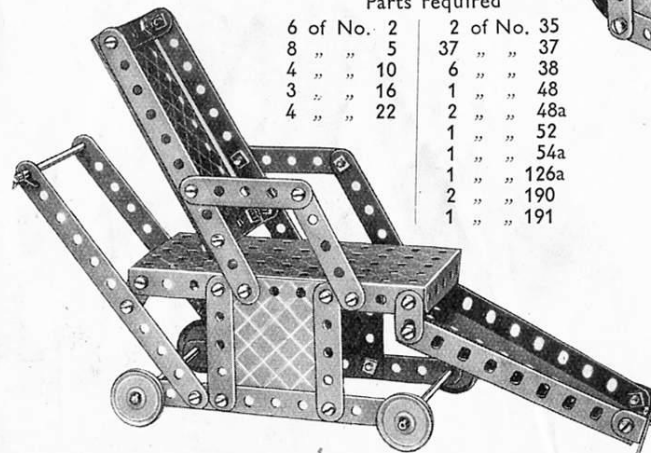
C27. Chinese Windlass



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

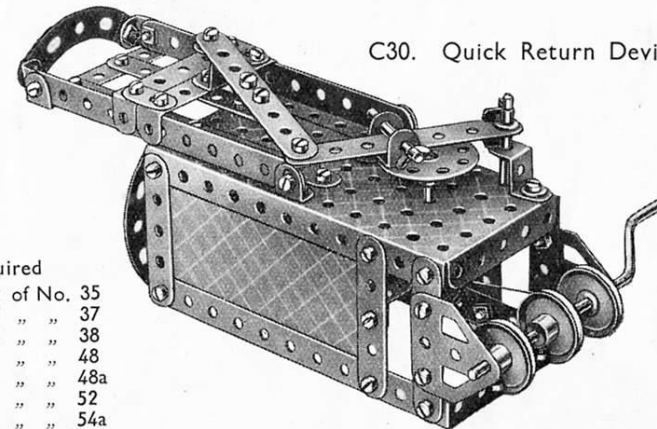
C28. Invalid Chair



Parts required

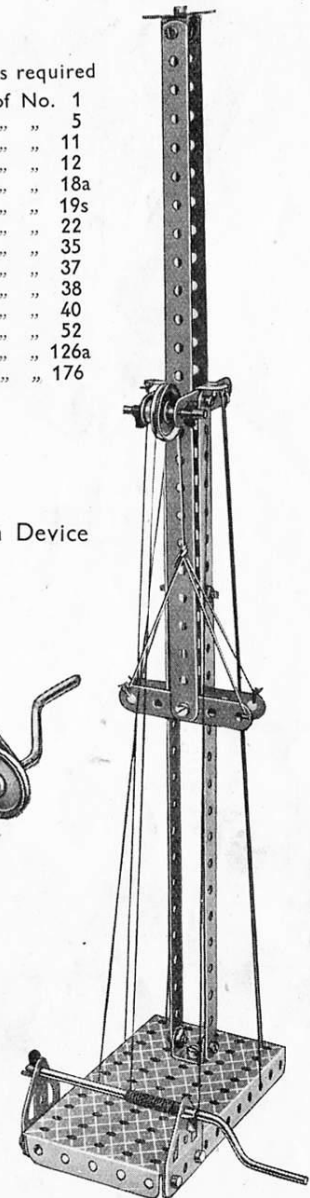
6 of No.	2	2 of No.	35
8	5	37	37
4	10	6	38
3	16	1	48
4	22	2	48a
		1	52
		1	54a
		1	126a
		2	190
		1	191

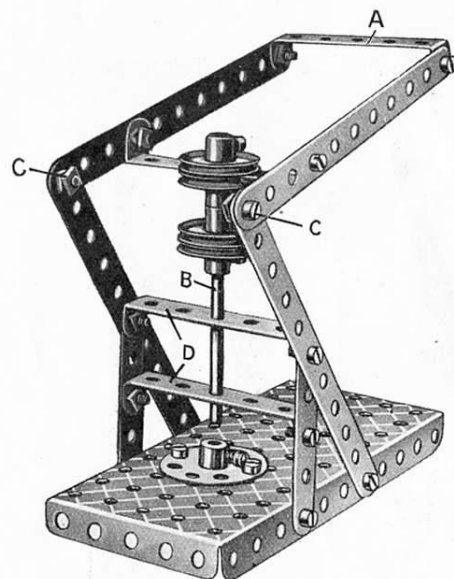
C30. Quick Return Device



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





C32.  
Punching  
Machine

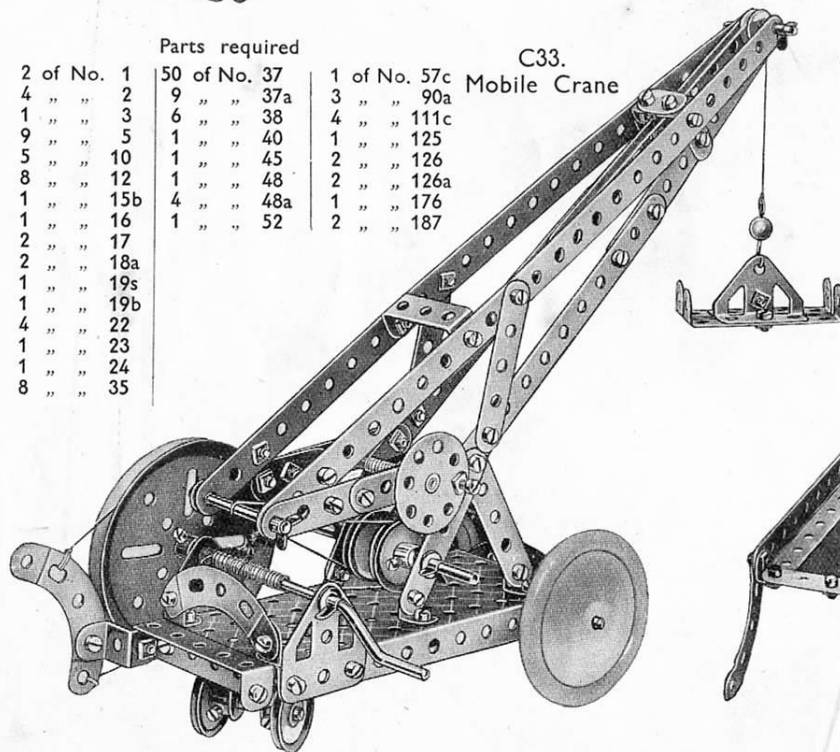
Parts required

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 1/2 in. Rod, slides vertically in two 2 1/2 in. x 1/2 in. Double Angle Strips D. The operating handle A is locknotted at the points C.

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

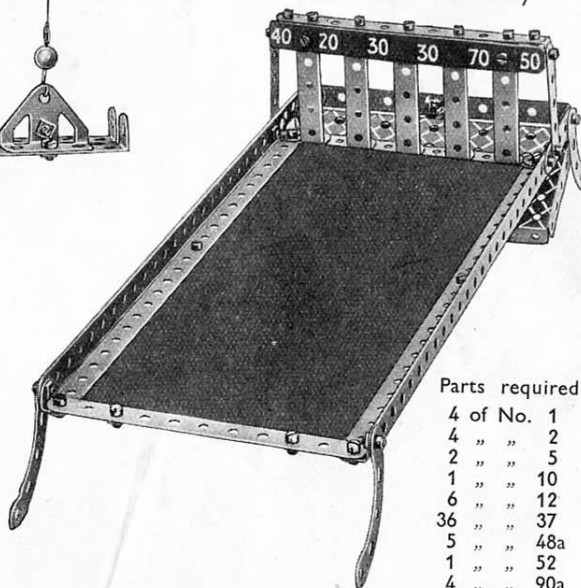
C33.  
Mobile Crane



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 " " 54	2 " " 192
4 " " 35		

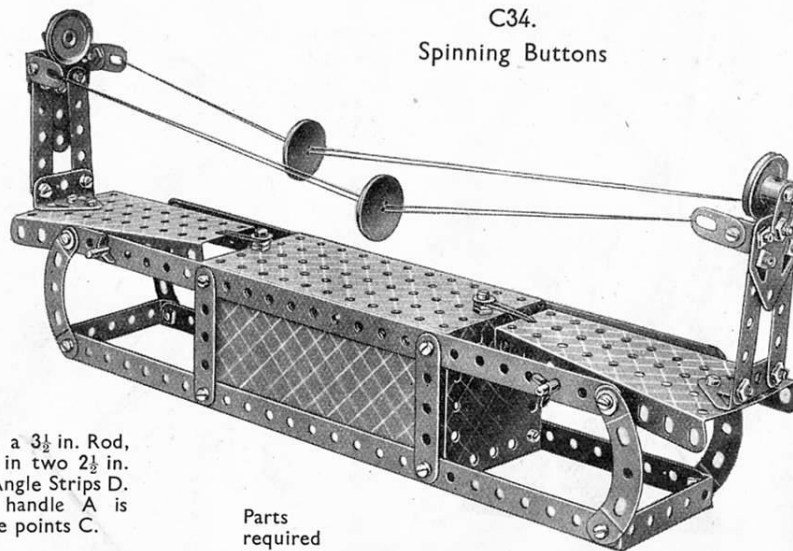
C35. Box Ball Alley



Parts required

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

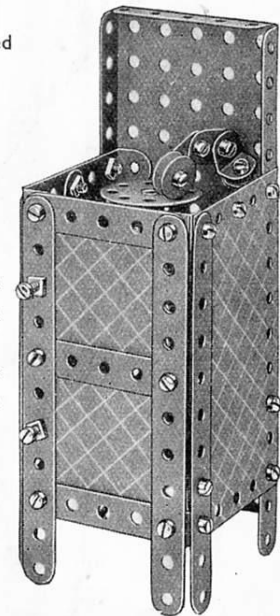
C34.  
Spinning Buttons



C36.  
Gramophone

Parts required

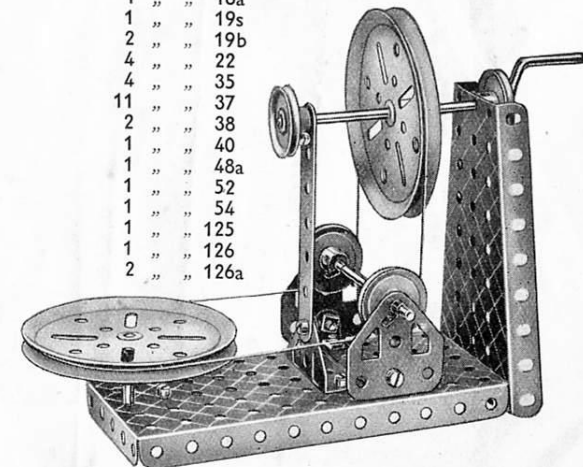
4 of No. 2
5 " " 5
2 " " 10
4 " " 12
1 " " 23
1 " " 24
29 " " 37
5 " " 37a
5 " " 48a
1 " " 52
4 " " 111c
2 " " 126a
2 " " 190
2 " " 191



Parts required

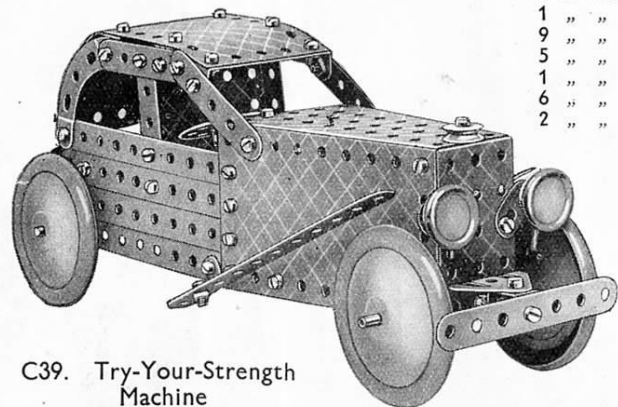
1 of No. 3
1 " " 16
1 " " 18a
1 " " 19s
2 " " 19b
4 " " 22
4 " " 35
11 " " 37
2 " " 38
1 " " 40
1 " " 48a
1 " " 52
1 " " 54
1 " " 125
1 " " 126
2 " " 126a

C37.  
Belt Gear





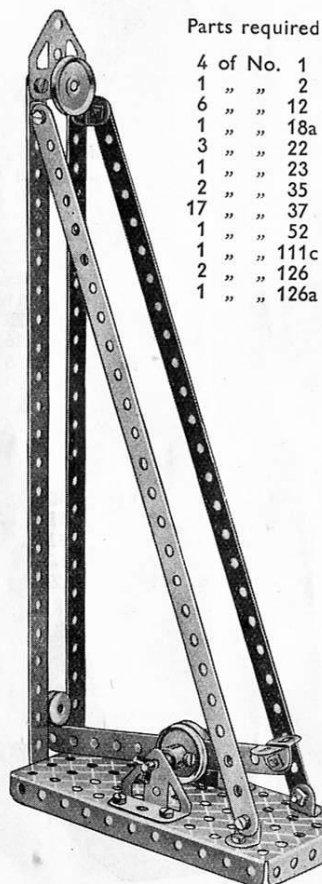
C38. Sports' Coupé



Parts required	
8 of No. 2	66
1 " " 3	37
1 " " 5	37a
5 " " 10	48a
1 " " 11	51
6 " " 12	52
2 " " 15b	54

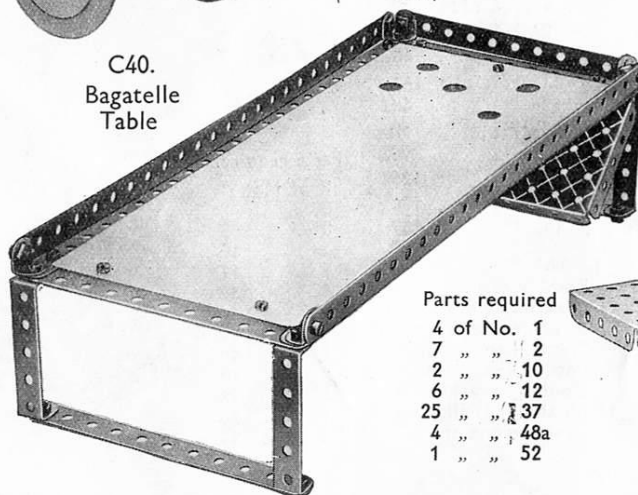
1 of No. 17	22
2 " " 22	37
4 " " 37a	48a
6 " " 48a	51
1 " " 51	52
1 " " 52	54
2 " " 54	90a
2 " " 90a	111c
1 " " 111c	125
1 " " 125	126
2 " " 126a	187
4 " " 187	190
2 " " 190	191
2 " " 191	192
1 " " 192	
Lighting Set	(not included in Outfit)

C39. Try-Your-Strength Machine



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

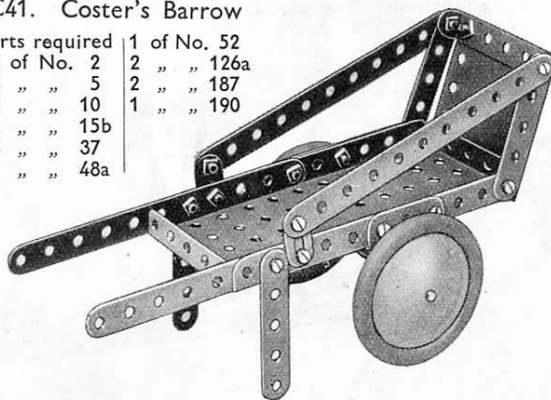
C40. Bagatelle Table



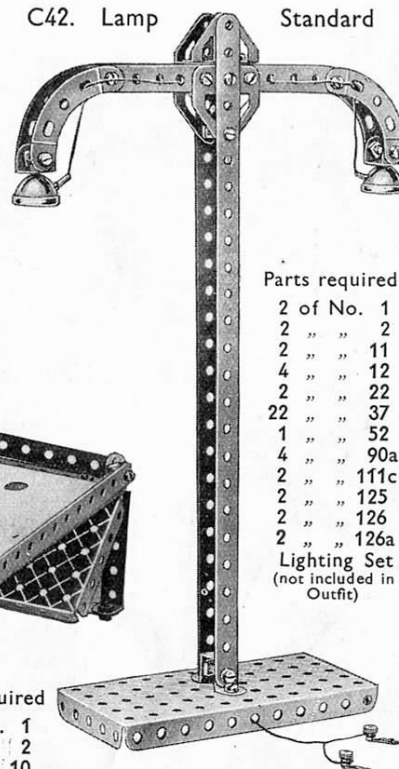
Parts required	
4 of No. 1	2
7 " " 2	10
2 " " 10	12
6 " " 12	37
25 " " 37	48a
4 " " 48a	52
1 " " 52	

C41. Coster's Barrow

Parts required	
1 of No. 52	126a
4 of No. 2	187
4 " " 5	190
2 " " 10	
1 " " 15b	
16 " " 37	
1 " " 48a	



C42. Lamp

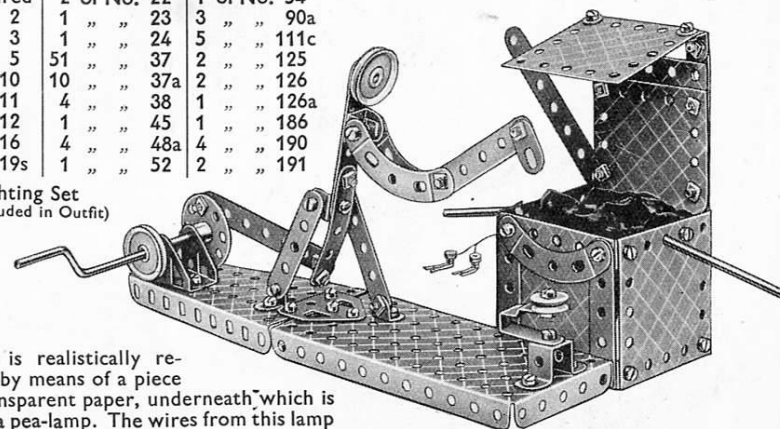


Parts required	
2 of No. 1	2
2 " " 2	11
4 " " 12	22
2 " " 22	37
22 " " 37	52
1 " " 52	90a
4 " " 90a	111c
2 " " 111c	125
2 " " 125	126
2 " " 126	126a
2 " " 126a	
Lighting Set	(not included in Outfit)

C44. Blacksmith

Parts required	
3 of No. 2	1 " " 23
1 " " 3	5 " " 24
7 " " 5	51 " " 37
2 " " 10	10 " " 37a
2 " " 11	4 " " 38
7 " " 12	1 " " 45
2 " " 16	4 " " 48a
1 " " 19s	1 " " 52
	1 of No. 54
	3 " " 90a
	5 " " 111c
	2 " " 125
	2 " " 126
	1 " " 126a
	1 " " 186
	4 " " 190
	2 " " 191

Lighting Set  
(not included in Outfit)

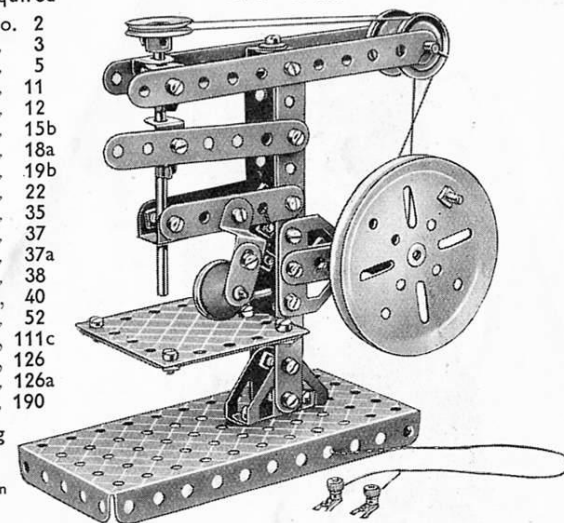


The fire is realistically represented by means of a piece of red transparent paper, underneath which is concealed a pea-lamp. The wires from this lamp are shown at the back of the model.

C43. Drill

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

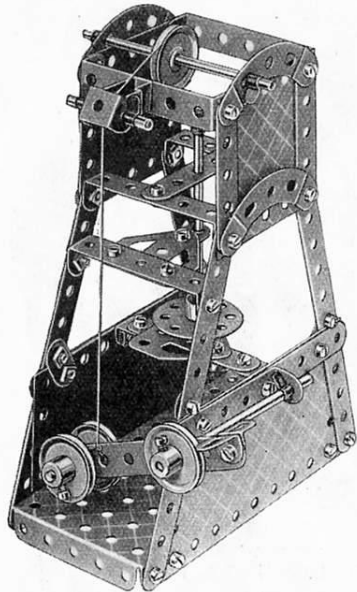
Lighting Set  
(not included in Outfit)



## MECCANO LIGHTING SET

The appearance of many Meccano models, especially those built with Outfit A, B, C, may 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 spot lights, and a fancy lamp shade, the appearance and uses of which are shown in models C38, C42, C43 and C44.

C45. Pneumatic Hammer

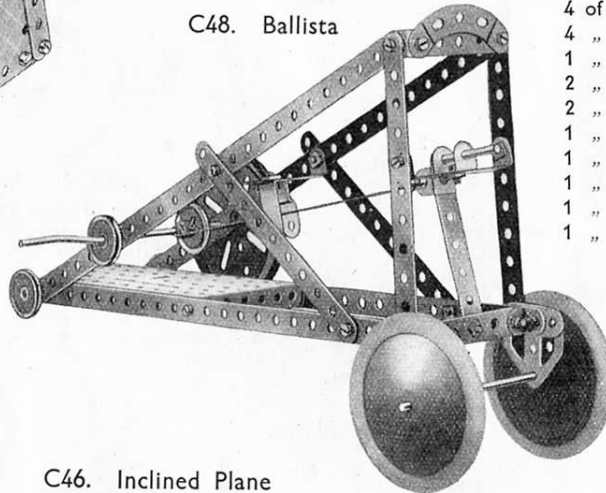


Parts required	
4 of No. 2	39 of No. 37
1 " " 3	8 " " 38
9 " " 5	1 " " 40
5 " " 10	1 " " 45
1 " " 11	6 " " 48a
4 " " 12	1 " " 52
3 " " 16	4 " " 90a
2 " " 18a	2 " " 126a
4 " " 22	1 " " 176
1 " " 23	2 " " 190
1 " " 24	2 " " 191
6 " " 35	

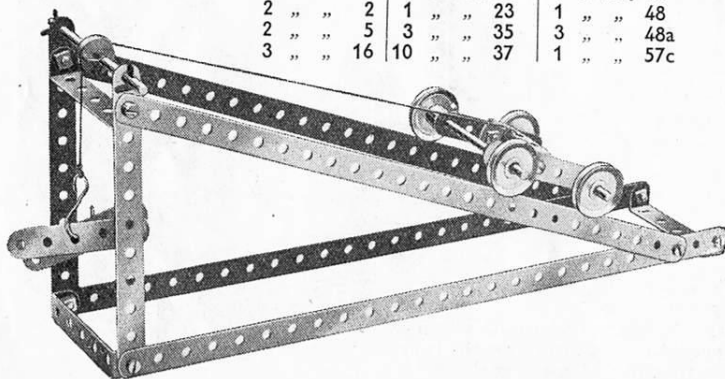
Parts required	
4 of No. 1	
6 " " 2	
1 " " 3	
8 " " 5	
5 " " 10	
2 " " 11	
8 " " 12	
1 " " 15b	
1 " " 17	
2 " " 22	

1 of No. 24	2 of No. 125
49 " " 37	2 " " 126a
2 " " 37a	1 " " 176
1 " " 48	1 " " 186
2 " " 90a	4 " " 190
2 " " 111c	2 " " 191

C48. Ballista



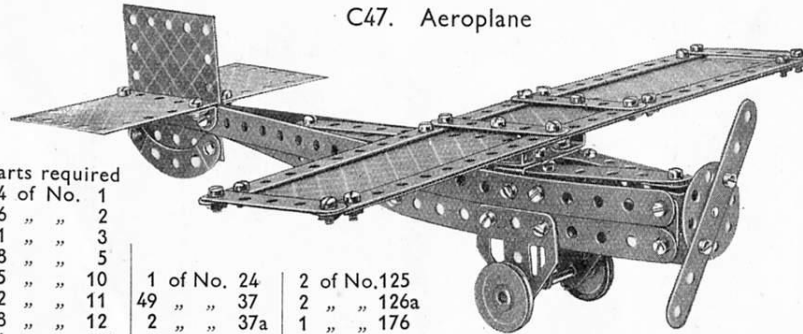
C46. Inclined Plane



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

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  $\frac{1}{2}$ " Pulley running along the upper section of the cord.

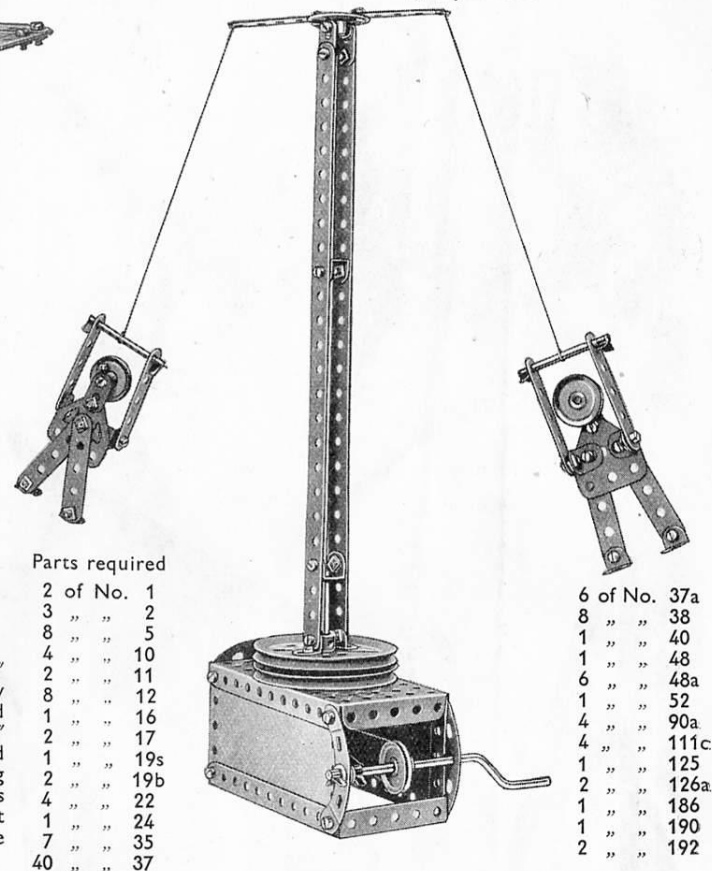
C47. Aeroplane



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

The "bolt," a  $1\frac{1}{2}$ " Rod, is carried loosely in a Double Bracket and is projected by a  $3\frac{1}{2}$ " Strip, bent backward until the retaining Double Bracket slips off the end, allowing it to strike one end of the "bolt."

C49. Revolving Gymnasts

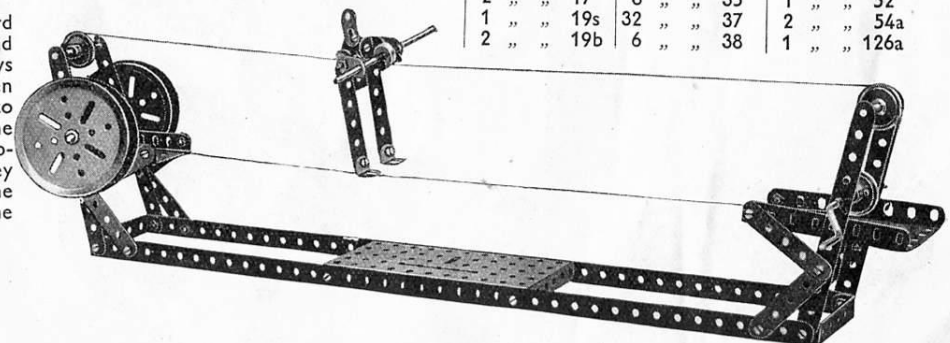


Parts required	
2 of No. 1	
3 " " 2	
8 " " 5	
4 " " 10	
2 " " 11	
8 " " 12	
1 " " 16	
2 " " 17	
1 " " 19s	
2 " " 19b	
4 " " 22	
1 " " 24	
7 " " 35	
40 " " 37	

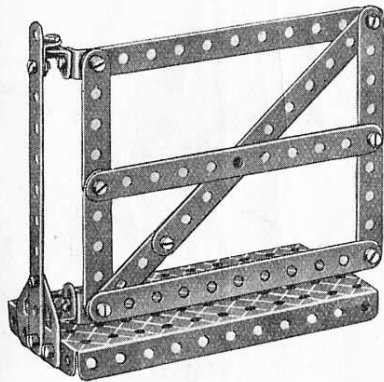
6 of No. 37a	
8 " " 38	
1 " " 40	
1 " " 48	
6 " " 48a	
1 " " 52	
4 " " 90a	
4 " " 111c	
1 " " 125	
2 " " 126a	
1 " " 186	
1 " " 190	
2 " " 192	

C50. Tight-rope Walker

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



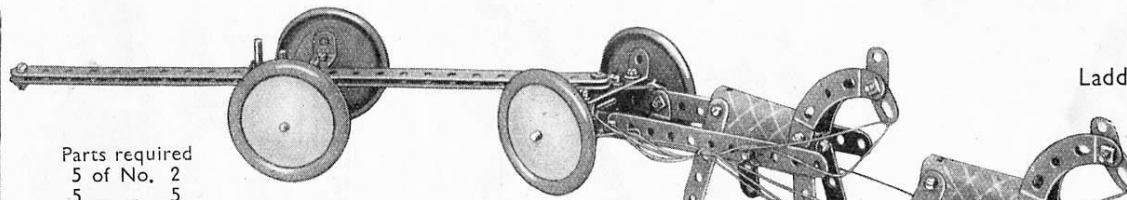
C51. Gate



Parts required

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

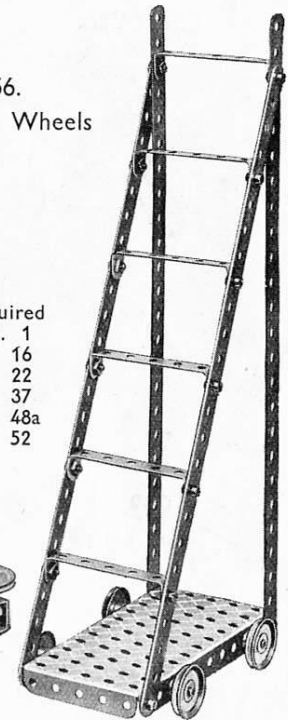
C53. Timber Drag



Parts required

2	of No.	1
2	"	2
8	"	5
4	"	10
2	"	11
8	of No.	12
2	"	15b
2	"	17
2	"	18a
8	"	35
27	"	37
3	of No.	37a
8	"	38
1	"	40
1	"	48
3	"	48a
4	"	90a

C56. Ladder on Wheels



Parts required

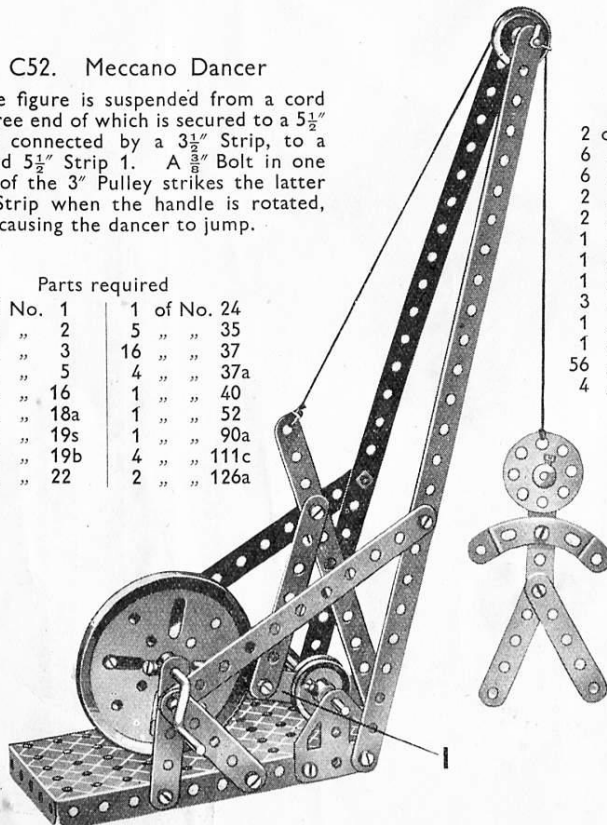
4	of No.	1
2	"	16
4	"	22
16	"	37
6	"	48a
1	"	52

C52. 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  $\frac{3}{8}$ " 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.

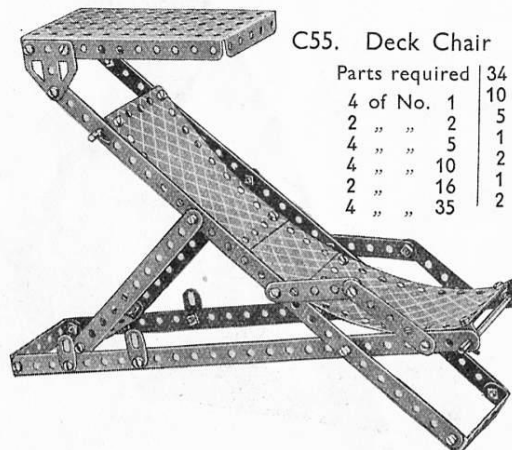
Parts required

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



Parts required

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

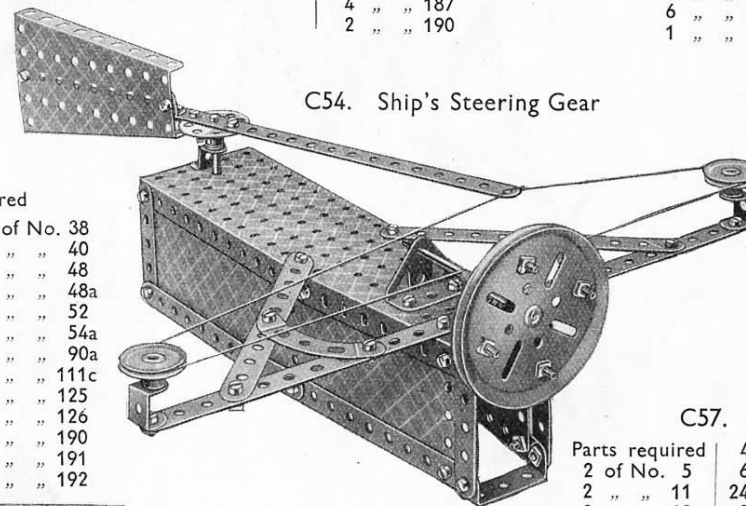


C55. Deck Chair

Parts required

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

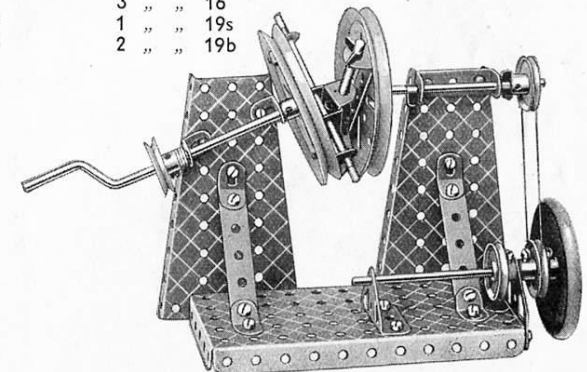
C54. Ship's Steering Gear



C57. Hooke's Coupling

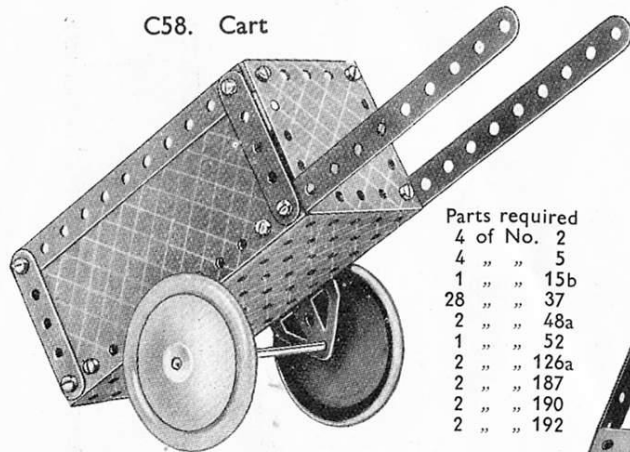
Parts required

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





C58. Cart

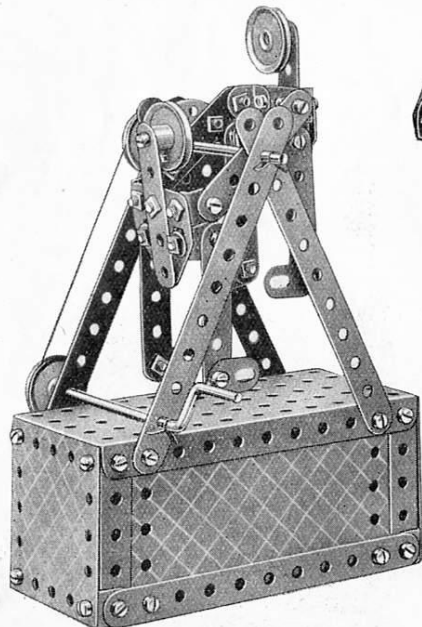


Parts required	
4 of No. 2	
4 " 5	
1 " 15b	
28 " 37	
2 " 48a	
1 " 52	
2 " 126a	
2 " 187	
2 " 190	
2 " 192	

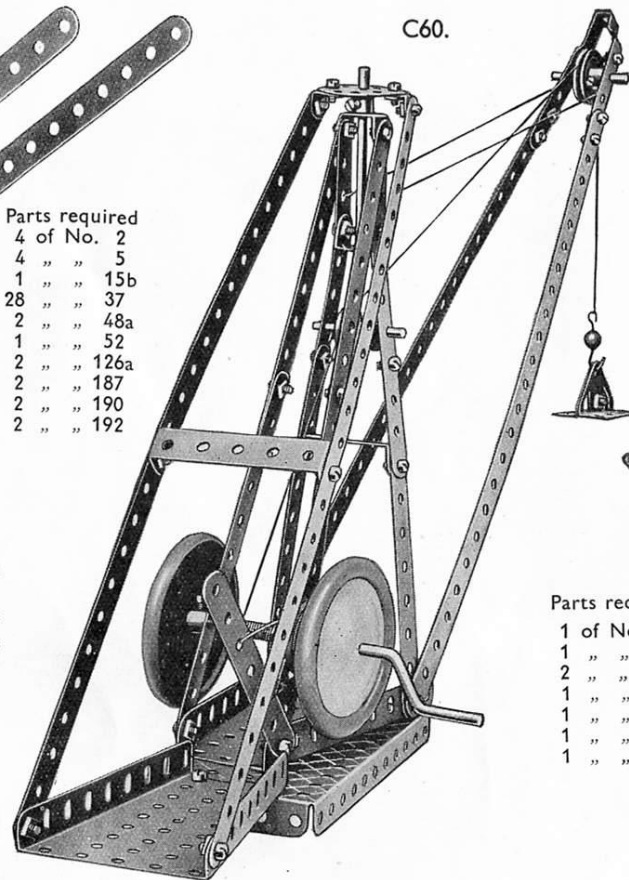
C59. Wrestlers

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	4 " 37	2 " 126a
1 " 16	12 " 37a	2 " 190
1 " 19s	6 " 38	2 " 191
	1 " 40	



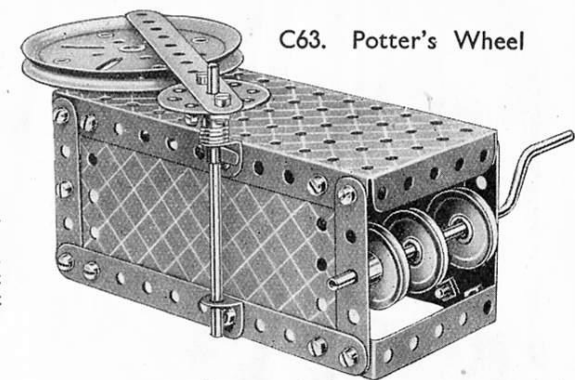
C60.



Jib Crane

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

C63. Potter's Wheel



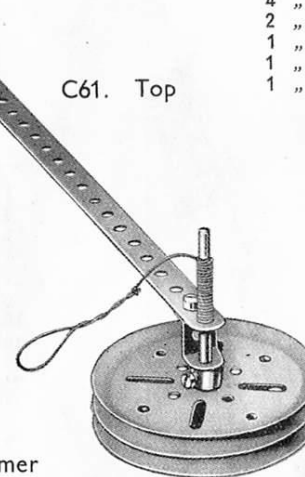
Parts required

3 of No. 2	1 of No. 19b	1 of No. 40
4 " 5	4 " 22	2 " 48a
2 " 12	1 " 24	1 " 52
1 " 16	1 " 35	2 " 191
1 " 17	22 " 37	
1 " 19s	5 " 38	

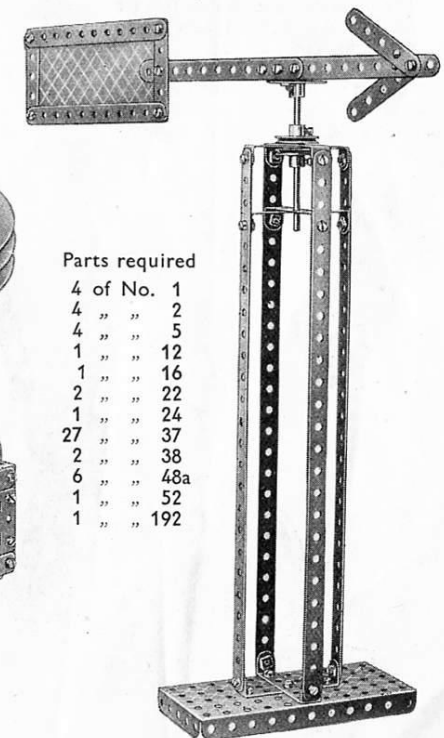
C61. Top

Parts required

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



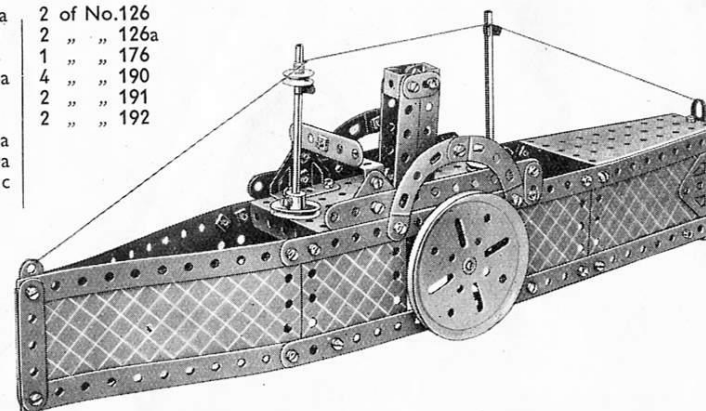
C64. Weather Vane



Parts required

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

C62. 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	
2 " 19b		
3 " 22		
1 " 23		
6 " 35		
58 " 37		

## C65. 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
	3 " " 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.

## C67. 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

## C69. 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	

## C70. 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	

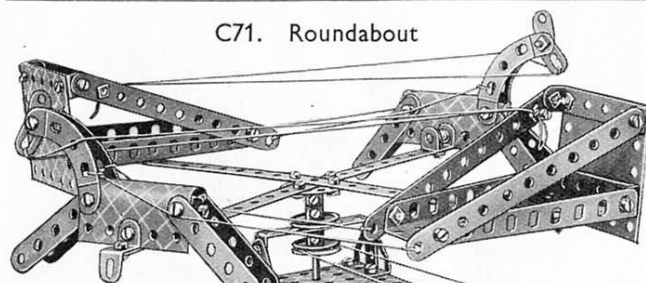
## C66. Sliding Gate

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

## C68. Belt Gear (Shafts not in Line)

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

C71. Roundabout

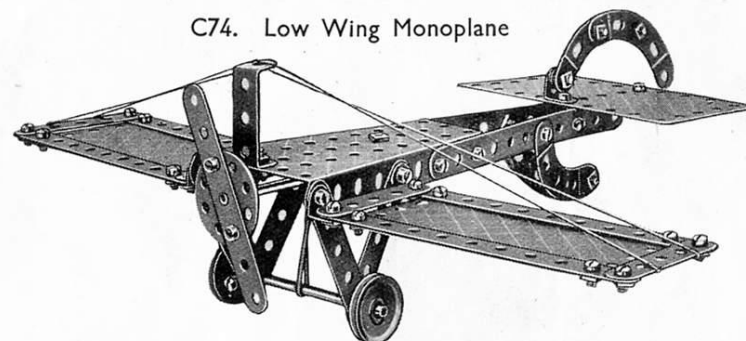


## Parts required

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

Owing to the strain of turning the roundabout, the cord should be passed twice round each of the 1" Pulleys shown in the illustration.

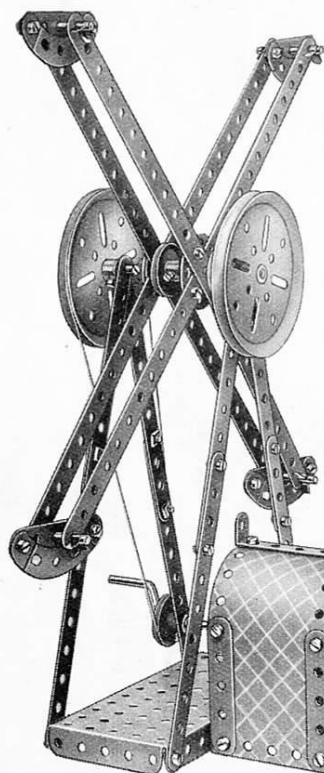
C74. Low Wing Monoplane



## 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

C72. Flying Boats

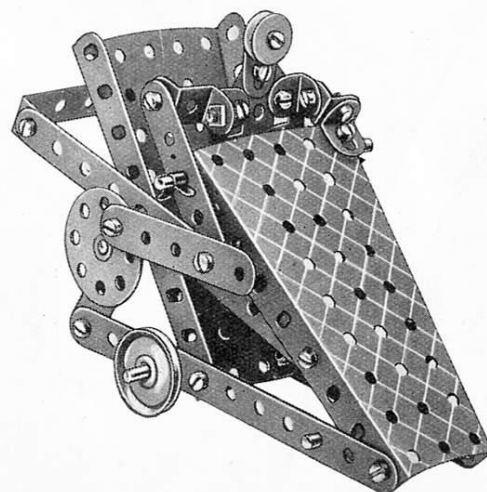


## Parts required

4 of No. 1
8 " " 2
8 " " 5
2 " " 10
8 " " 12
2 " " 16
2 " " 17
2 " " 18
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

C73. 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 also carries a BushWheel 1. As will be seen, a  $2\frac{1}{2}$ " Strip is pivoted at one end to this BushWheel and at the other end to a second  $2\frac{1}{2}$ " Strip 2, which, rocking about an axle journaled through its centre hole is again pivoted to the invalid's hands.



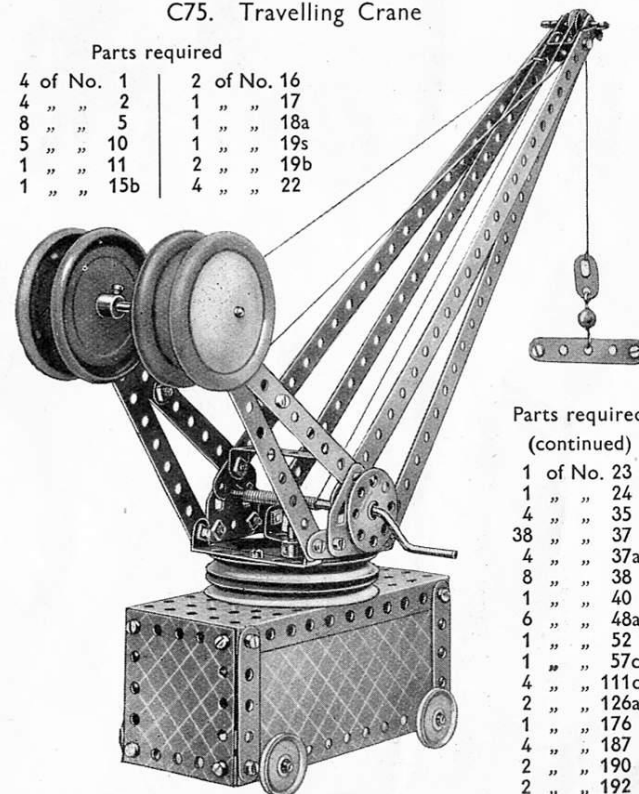
## Parts required

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

C75. Travelling Crane

## Parts required

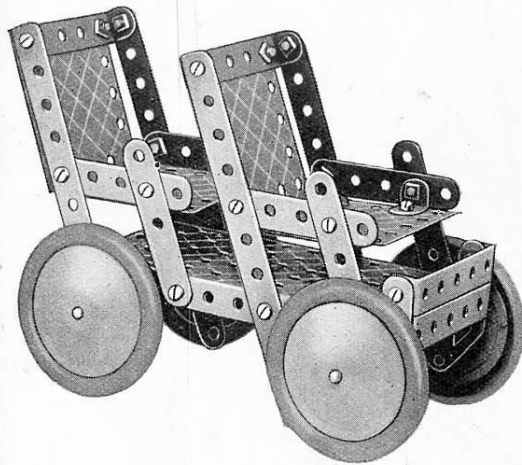
4 of No. 1	2 of No. 16
4 " " 2	1 " " 17
8 " " 5	1 " " 18a
5 " " 10	1 " " 19s
1 " " 11	2 " " 19b
1 " " 15b	4 " " 22

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



C76. Tandem Car



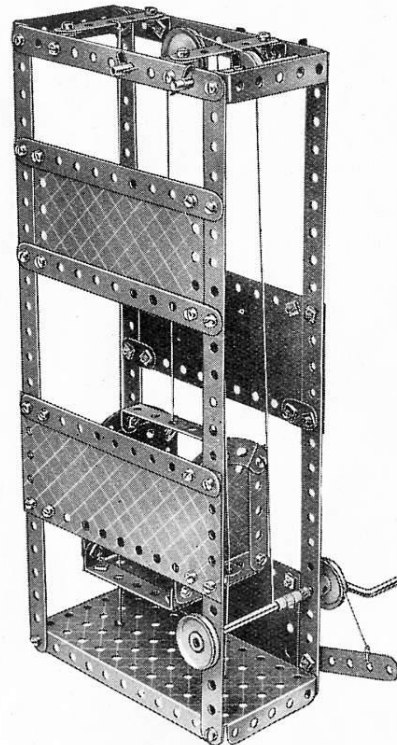
Parts required

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

C78. Elevator

Parts required

4 of No. 1	2
7 " " 3	5
8 " " 10	12
4 " " 16	19s
1 " " 22	23
1 " " 35	37
61 " " 37a	38
2 " " 40	48a
7 " " 52	90a
1 " " 111c	176
1 " " 190	191
3 " " 191	192
2 " " 192	

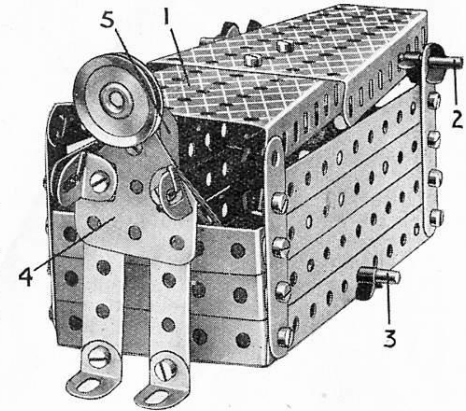


C80. Disappearing Meccanician

Parts required

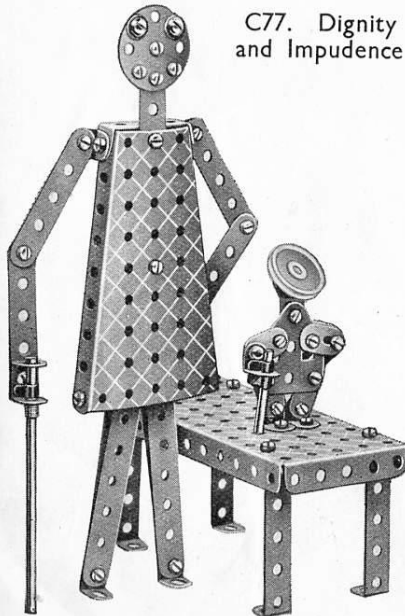
6 of No. 2	23 of No. 37
6 " " 5	1 " " 45
1 " " 10	6 " " 48a
4 " " 12	1 " " 52
2 " " 16	2 " " 54a
1 " " 22	1 " " 111c
6 " " 35	1 " " 126a

Four short lengths of elastic



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 consists of three  $2\frac{1}{2} \times \frac{1}{2}$ " 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 "Meccanician" 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.

C77. Dignity and Impudence



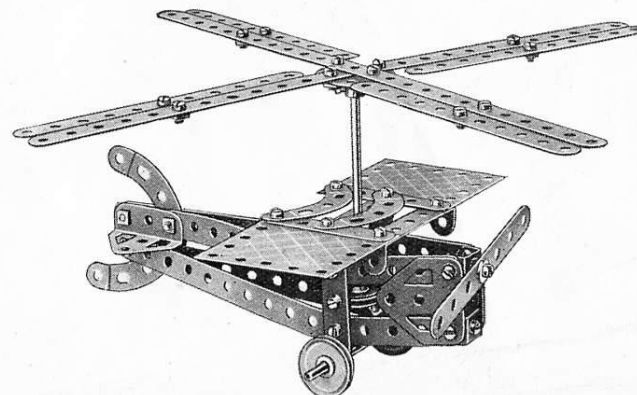
Parts required

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

C79. Autogiro

Parts required

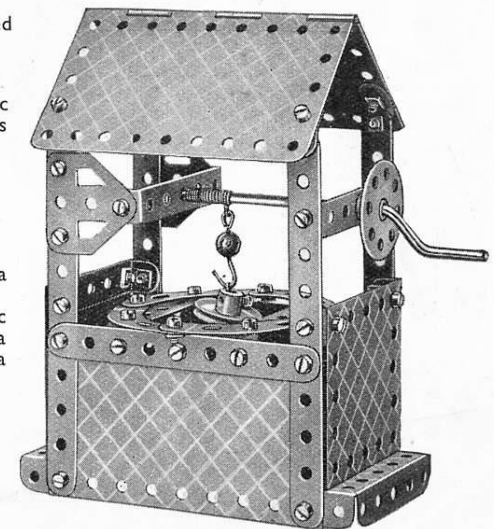
2 of No. 1	2 of No. 11	33 of No. 37	4 of No. 90a
8 " " 2	2 " " 12	3 " " 37a	2 " " 111c
1 " " 3	2 " " 16	7 " " 38	2 " " 126
9 " " 5	4 " " 22	1 " " 48	2 " " 126a
5 " " 10	1 " " 24	1 " " 48a	2 " " 190

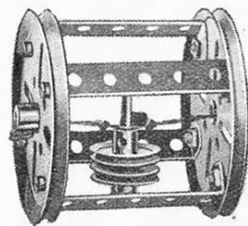


C81. Well Windlass

Parts required

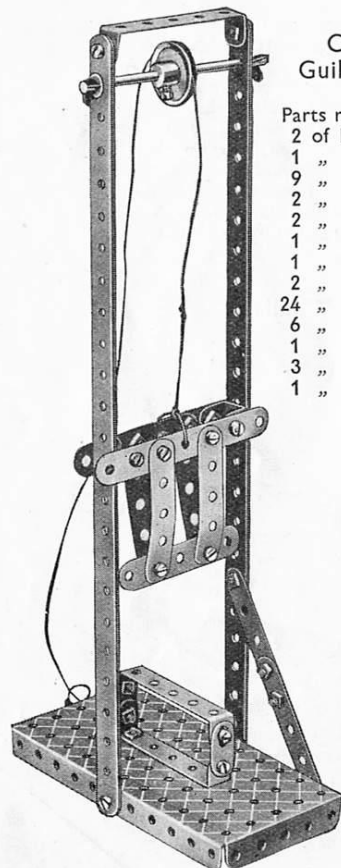
4 of No. 2	5
4 " " 12c	19s
1 " " 22	24
1 " " 35	37
46 " " 38	40
1 " " 48a	52
1 " " 57c	90a
4 " " 126a	176
2 " " 190	191
1 " " 191	198





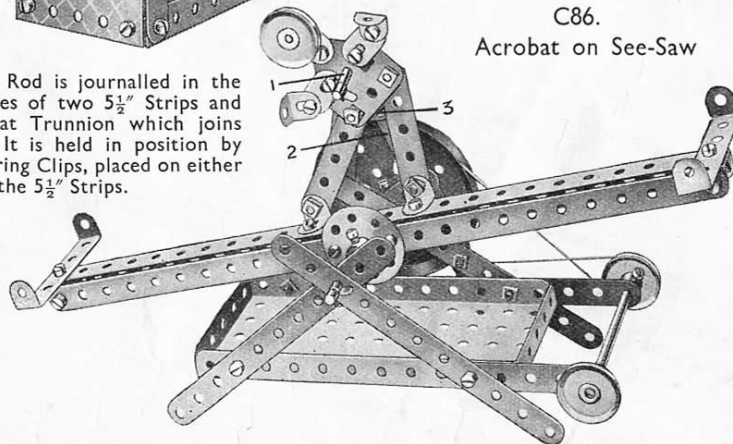
**C82. Cum Bak**  
Parts required  
1 of No. 18a  
2 " " 19b  
2 " " 22  
1 " " 35  
8 " " 37  
4 " " 48a  
1 " " 186

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 1½" 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.

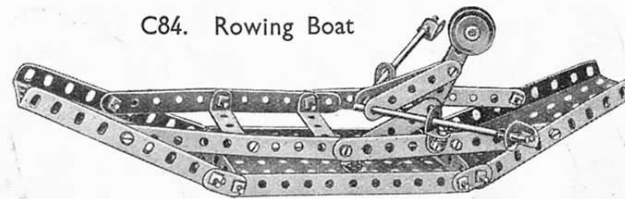


**C83. Guillotine**  
Parts required  
2 of No. 1  
1 " " 3  
9 " " 5  
2 " " 10  
2 " " 11  
1 " " 16  
1 " " 22  
2 " " 35  
24 " " 37  
6 " " 38  
1 " " 40  
3 " " 48a  
1 " " 52

A 1" Rod is journalled in the end holes of two 5½" Strips and in a Flat Trunnion which joins them. It is held in position by two Spring Clips, placed on either side of the 5½" Strips.



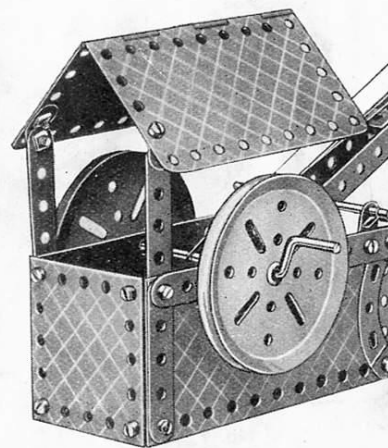
**C86. Acrobat on See-Saw**



**C84. Rowing Boat**  
Parts required  
4 of No. 2  
4 " " 5  
4 " " 10  
7 " " 12  
2 of No. 16  
1 " " 22  
6 " " 35  
25 " " 37  
3 of No. 48a  
1 " " 52  
2 " " 54a  
1 " " 111c

**C85. Gymnast**

Parts required  
4 of No. 2  
6 " " 5  
3 " " 10  
2 " " 12  
1 " " 16  
1 " " 19s  
3 " " 22  
1 " " 24  
4 " " 35  
32 " " 37  
4 " " 37a  
8 " " 38  
1 " " 40  
1 " " 48  
2 " " 48a  
1 " " 52  
2 " " 90a  
3 " " 111c  
2 " " 125  
1 " " 126a  
2 " " 190  
2 " " 192



**C88. Telephone**

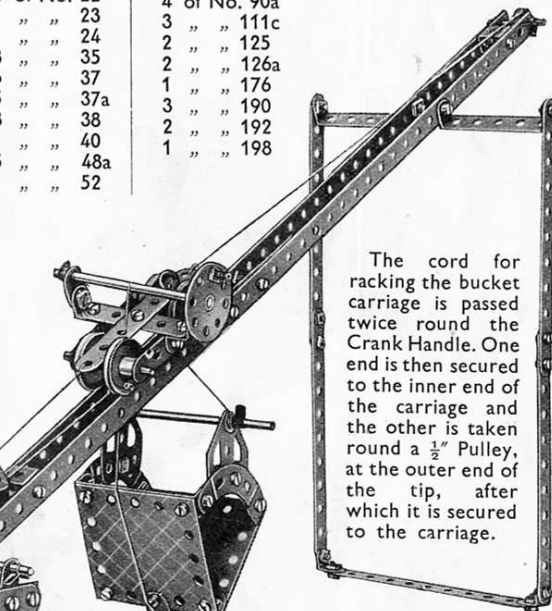
Parts required  
8 of No. 2  
1 " " 3  
4 " " 5  
5 " " 10  
2 " " 11  
8 " " 12  
2 " " 16  
1 of No. 19b  
1 " " 22  
1 " " 24  
4 " " 35  
37 " " 37  
20 " " 37a  
4 " " 38  
1 of No. 40  
1 " " 44  
5 " " 48a  
1 " " 52  
4 " " 111c  
2 " " 125  
1 " " 126

Parts required  
4 of No. 22  
1 " " 23  
1 " " 24  
8 " " 35  
66 " " 37  
5 " " 37a  
3 " " 38  
1 " " 40  
5 " " 48a  
1 " " 52

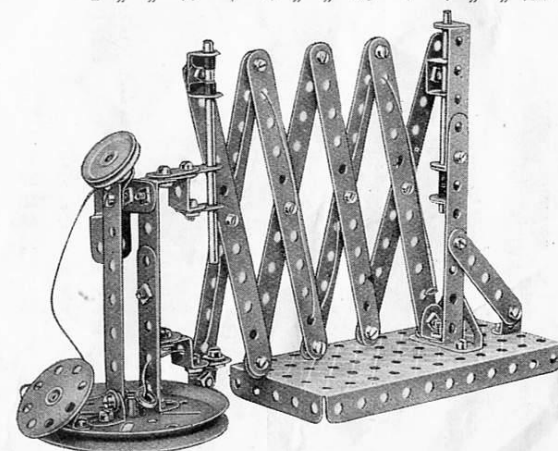
**C87. Extended Ash Tip**

4 of No. 90a  
3 " " 111c  
2 " " 125  
2 " " 126a  
1 " " 176  
3 " " 190  
2 " " 192  
1 " " 198

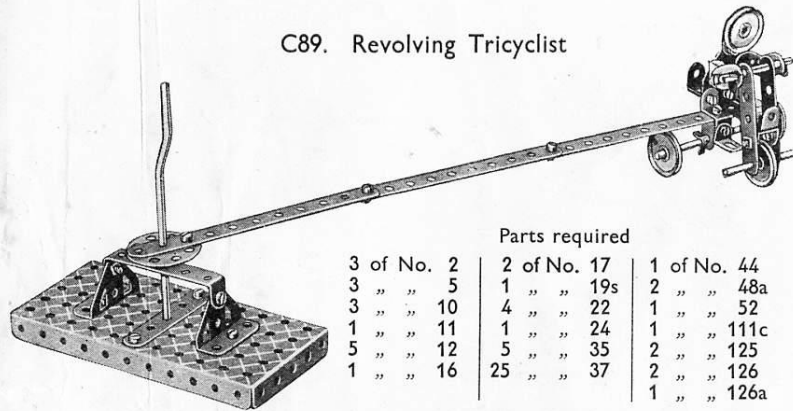
The cord for racking the bucket carriage is passed twice round the Crank Handle. One end is then secured to the inner end of the carriage and the other is taken round a ½" Pulley, at the outer end of the tip, after which it is secured to the carriage.



Parts required  
3 of No. 1  
6 " " 2  
4 " " 5  
3 " " 10  
2 " " 11  
2 " " 12  
4 " " 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

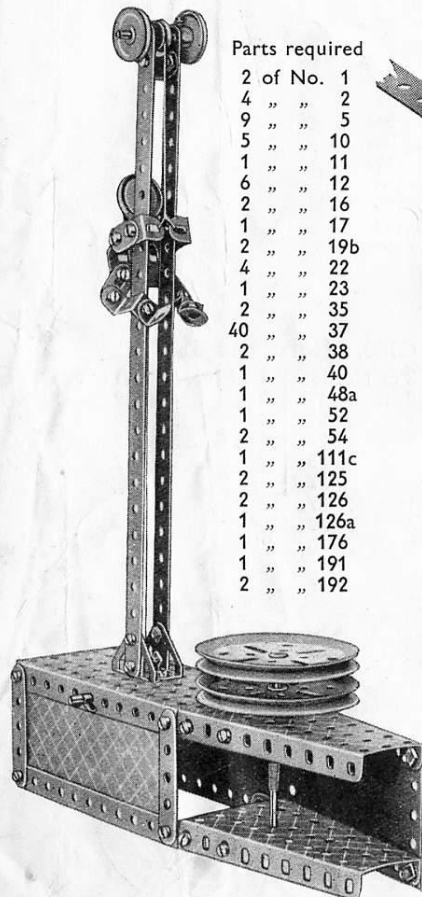


C89. Revolving Tricyclist



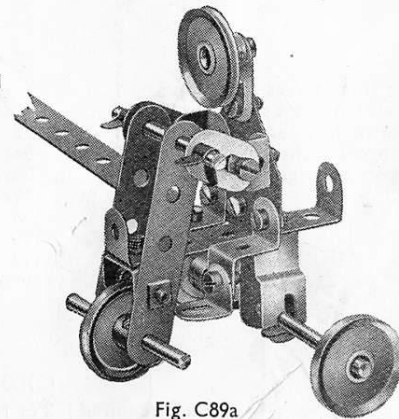
Parts required		
3 of No. 2	2 of No. 17	1 of No. 44
3 " " 5	1 " " 19s	2 " " 48a
3 " " 10	4 " " 22	1 " " 52
1 " " 11	1 " " 24	1 " " 111c
1 " " 12	5 " " 35	2 " " 125
1 " " 16	25 " " 37	2 " " 126
		1 " " 126a

C90. 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 " " 54		
1 " " 111c		
2 " " 125		
2 " " 126		
1 " " 126a		
1 " " 176		
1 " " 191		
2 " " 192		

Fig. C89a

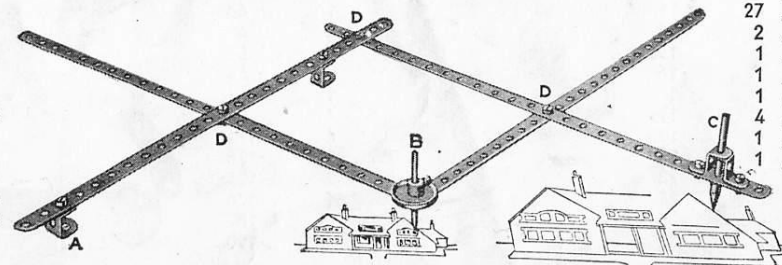


C92. Pantograph

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.

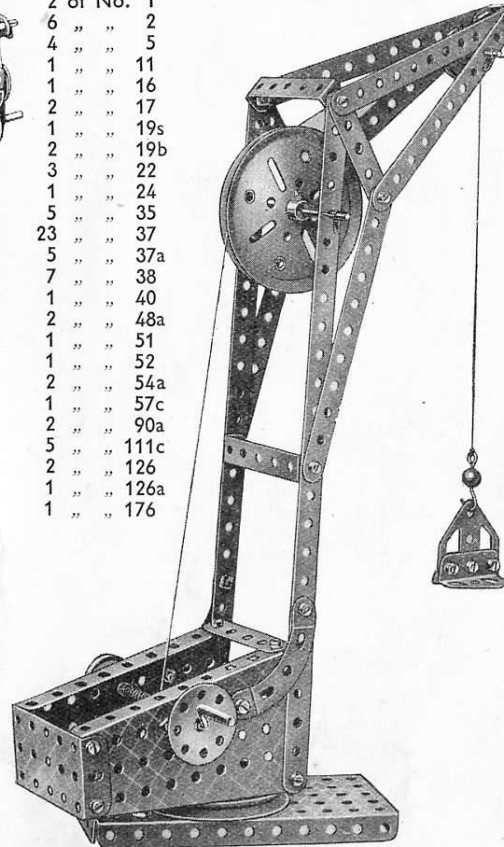
The Bolts at D are fitted with lock-nuts to allow free movement of the  $12\frac{1}{2}$ " Strips.

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



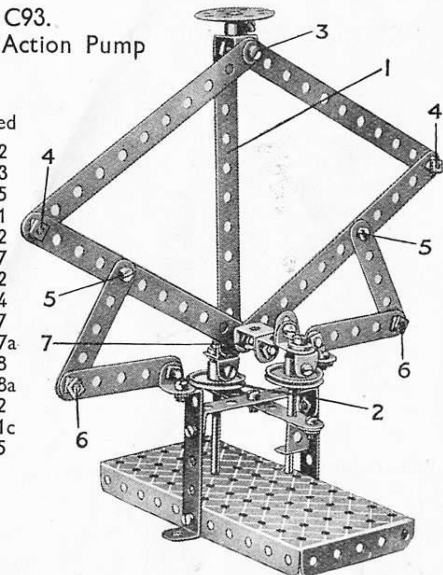
C91. Warehouse Crane

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		



C93. Double Action Pump

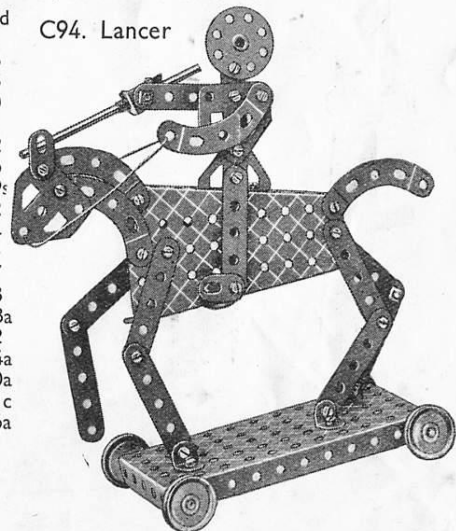
Parts required		
5 of No. 2		
1 " " 3		
4 " " 5		
2 " " 11		
6 " " 12		
2 " " 17		
2 " " 22		
1 " " 24		
24 " " 37		
9 " " 37a		
7 " " 38		
3 " " 48a		
1 " " 52		
3 " " 111c		
2 " " 125		



The  $5\frac{1}{2}$ " Strip 1 is attached to the 1" Pulley Wheel 2 by means of two Angle Brackets, through the lower 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 lock-nutted, 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.

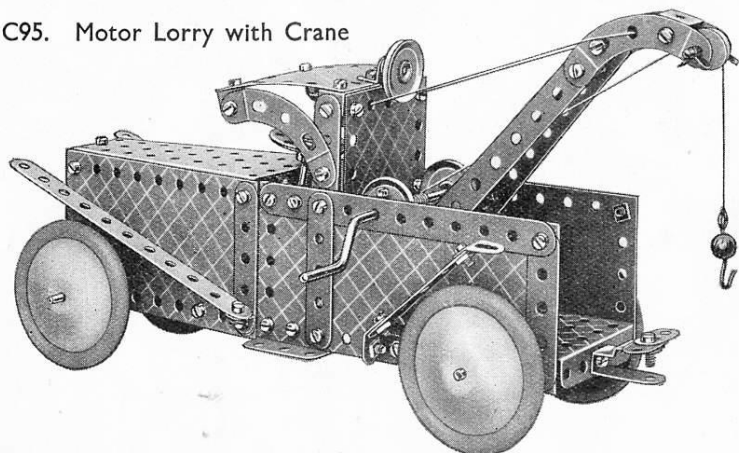
Parts required		
1 of No. 2		
1 " " 3		
9 " " 5		
2 " " 10		
2 " " 11		
5 " " 12		
2 " " 16		
1 " " 19s		
4 " " 22		
1 " " 24		
1 " " 35		
1 " " 37		
2 " " 38		
1 " " 48a		
1 " " 52		
1 " " 54a		
4 " " 90a		
1 " " 111c		
1 " " 126a		

C94. Lancer





C95. 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

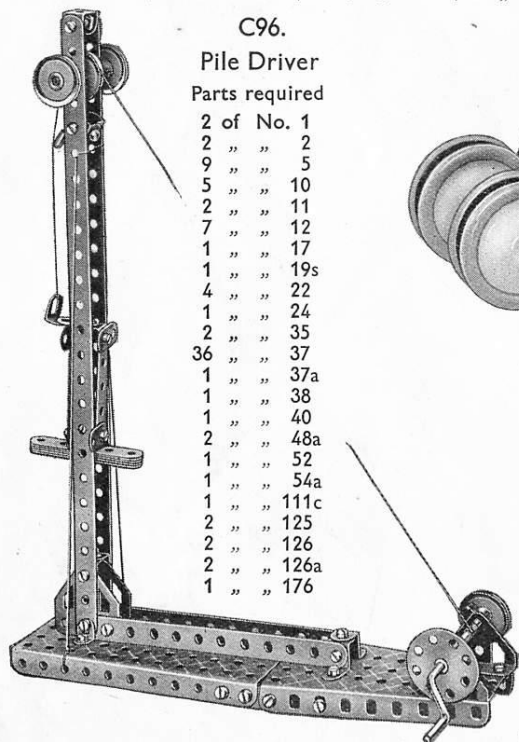
8	of No. 2	4	of No. 12c	1	of No. 24	5	of No. 48a	2	of No. 126
1	3	2	15b	4	35	1	51	2	126a
9	5	1	16	66	37	1	52	1	176
4	10	2	17	1	37a	2	54a	4	187
1	11	1	19s	2	38	1	57c	3	190
1	12	4	22	1	40	4	90a	2	191
7		1	23	1	44	2	111c	1	192

C96.

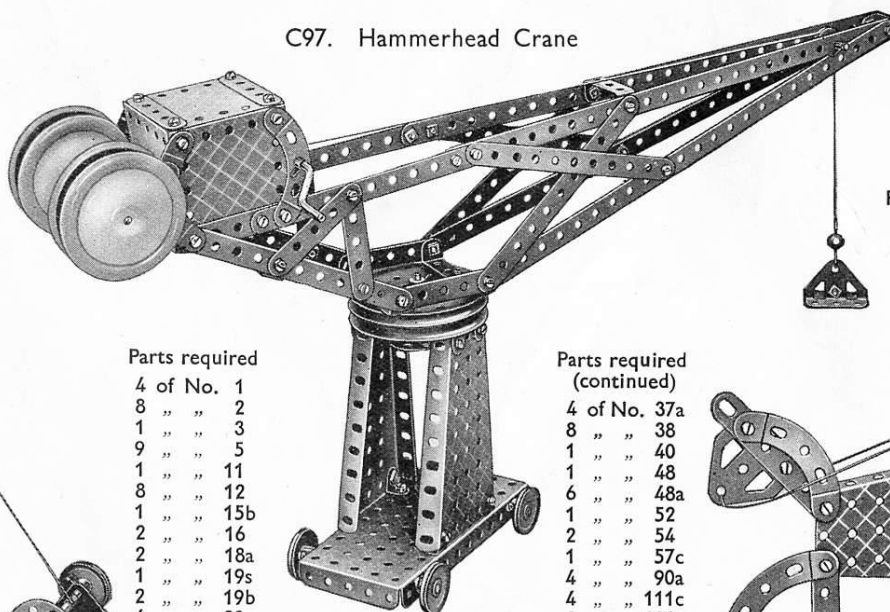
Pile Driver

## 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



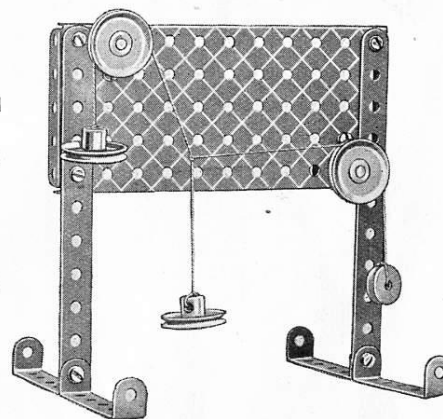
C97. Hammerhead Crane



## 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

C98. 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.

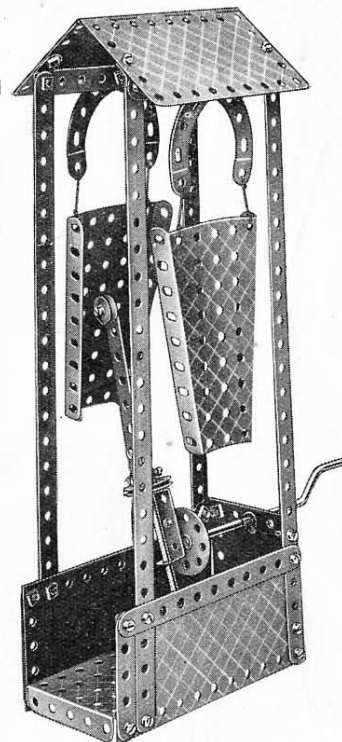
Parts required  
(continued)

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

C99. Mechanical Gong

## Parts required

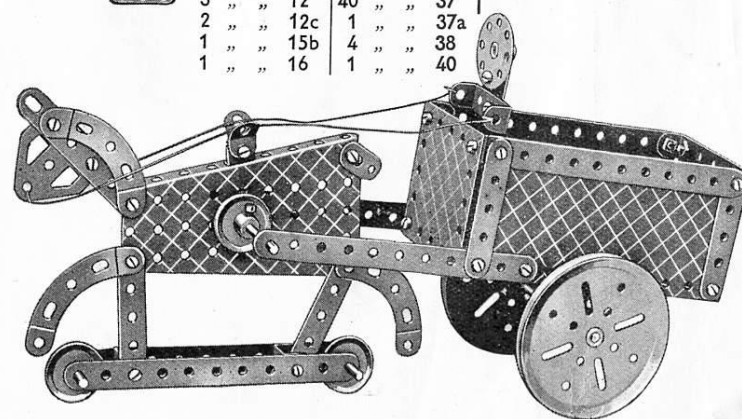
4	of No. 1
2	2
1	3
7	5
2	10
1	12
4	12c
1	16
1	19s
2	22
1	23
1	24
2	35
39	37
2	37a
7	38
1	40
1	48
2	48a
1	52
2	54a
4	90a
1	111c
1	126
1	190
2	192
1	198

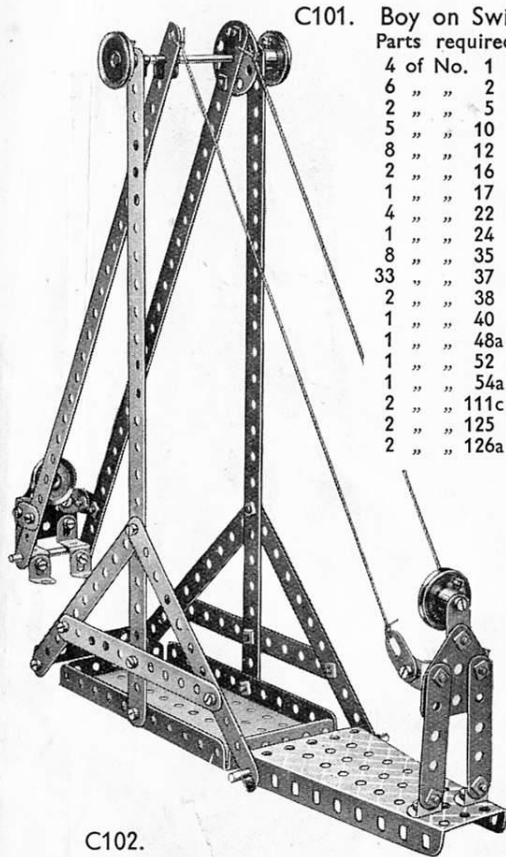


C100. Horse and Cart

## Parts required

6	of No. 2	2	of No. 18a	1	of No. 48	1	of No. 111c
9	5	2	19b	2	48a	2	126
3	10	4	22	1	52	2	126a
2	11	1	24	1	54a	2	190
3	12	3	37		90	2	192
2	12c	1	37a				
1	15b	4	38				
1	16	1	40				

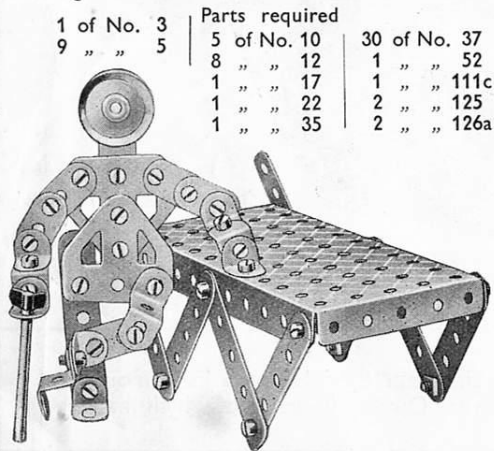




C101. Boy on Swing

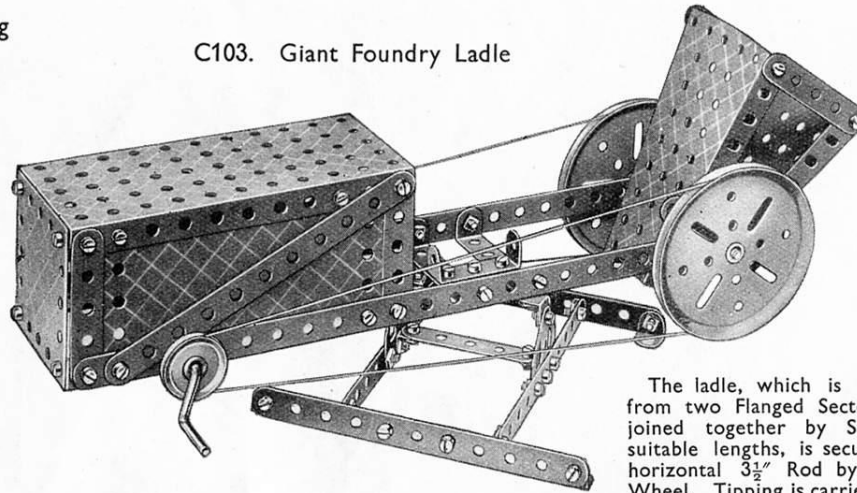
Parts required	
4 of No. 1	2
6 " " 2	5
2 " " 5	10
5 " " 10	12
8 " " 12	16
2 " " 16	17
1 " " 17	22
4 " " 22	24
1 " " 24	35
8 " " 35	37
33 " " 37	38
2 " " 38	40
1 " " 40	48a
1 " " 48a	52
1 " " 52	54a
1 " " 54a	111c
2 " " 111c	125
2 " " 125	126a

C102. King Meccano



Parts required	
1 of No. 3	5 of No. 10
9 " " 5	1 " " 12
	1 " " 17
	1 " " 22
	1 " " 35
	30 of No. 37
	1 " " 52
	1 " " 111c
	2 " " 125
	2 " " 126a

C103. Giant Foundry Ladle

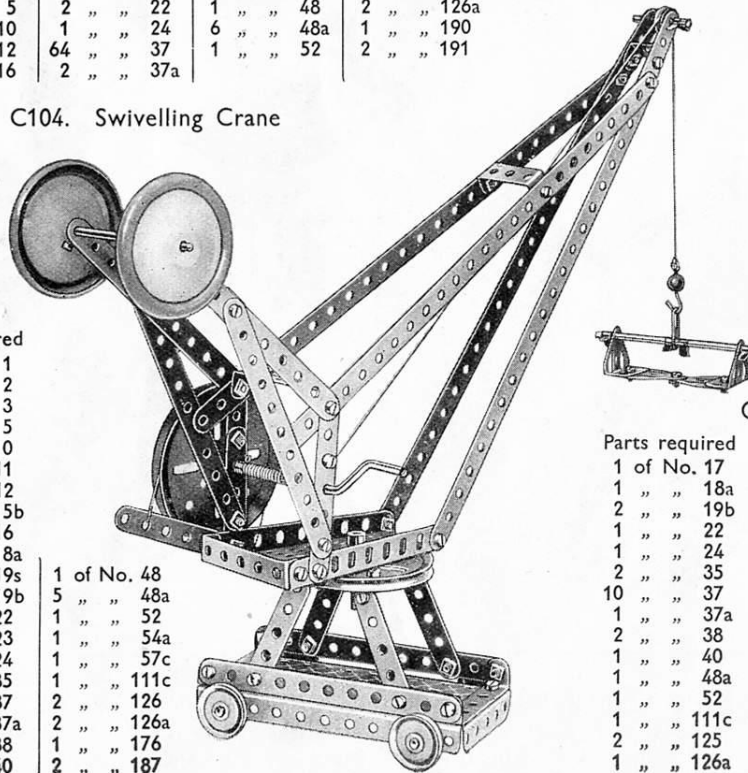


The ladle, which is built up from two Flanged Sector Plates joined together by Strips of suitable lengths, is secured to a horizontal  $3\frac{1}{2}$ " Rod by a Bush Wheel. Tipping is carried out by two cords as shown.

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		

C104. Swivelling Crane



Parts required

4 of No. 1	1 of No. 48
8 " " 2	5 " " 48a
1 " " 3	1 " " 52
8 " " 5	1 " " 54a
1 " " 10	1 " " 57c
1 " " 11	1 " " 111c
4 " " 12	2 " " 126
1 " " 15b	2 " " 126a
3 " " 16	1 " " 176
2 " " 18a	1 " " 187
1 " " 19s	
2 " " 19b	
4 " " 22	
1 " " 23	
1 " " 24	
6 " " 35	
46 " " 37	
2 " " 37a	
6 " " 38	
1 " " 40	

Parts required

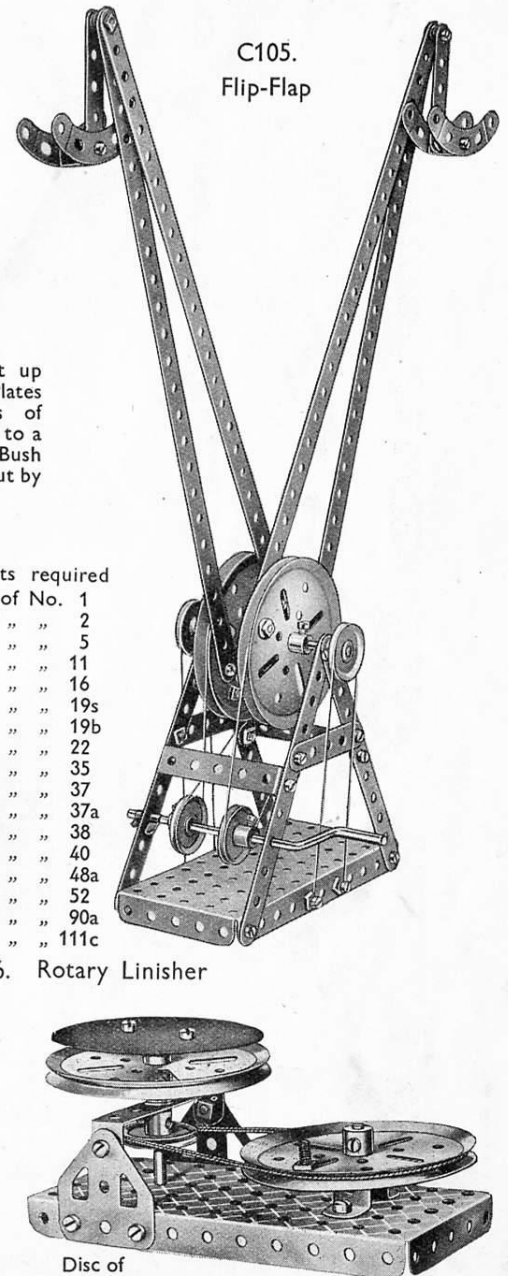
4 of No. 1	1
4 " " 2	2
4 " " 5	11
2 " " 11	16
1 " " 16	19s
1 " " 19s	19b
2 " " 19b	22
4 " " 22	35
4 " " 35	37
20 " " 37	37a
20 " " 37a	38
8 " " 38	40
1 " " 40	48a
2 " " 48a	52
1 " " 52	90a
4 " " 90a	111c
6 " " 111c	

C106. Rotary Linisher

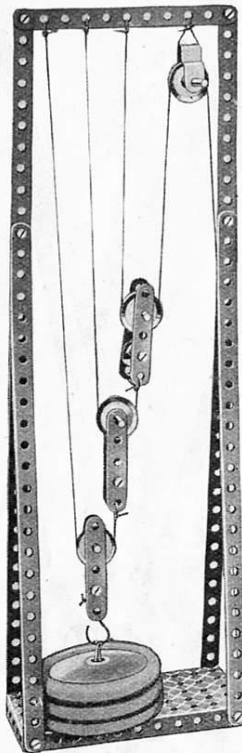
Parts required

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

Disc of  
Emery Cloth  
(not included in  
Outfit)



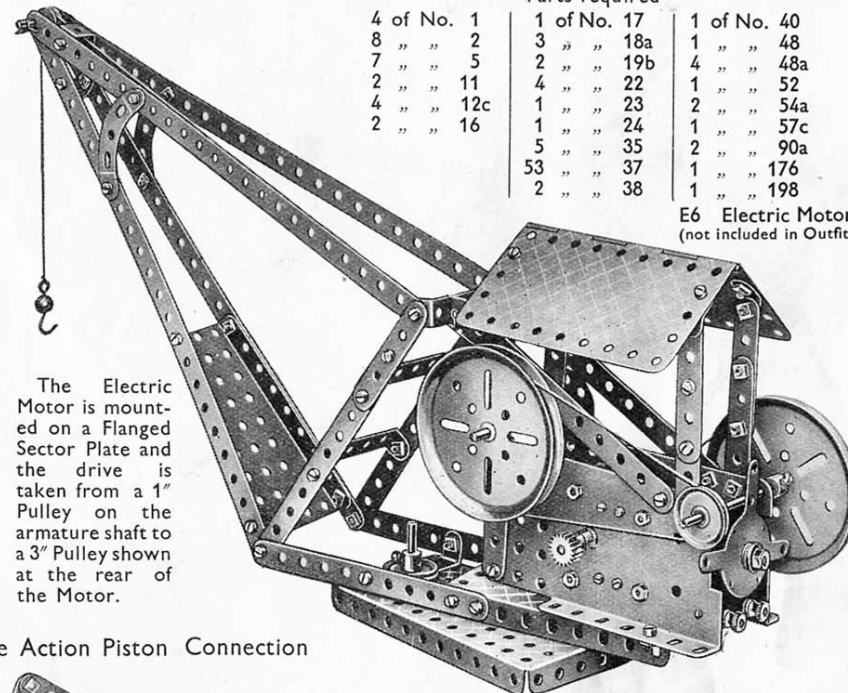
C105. Flip-Flap



**C107.**  
Pulley Block  
8:1

## Parts required

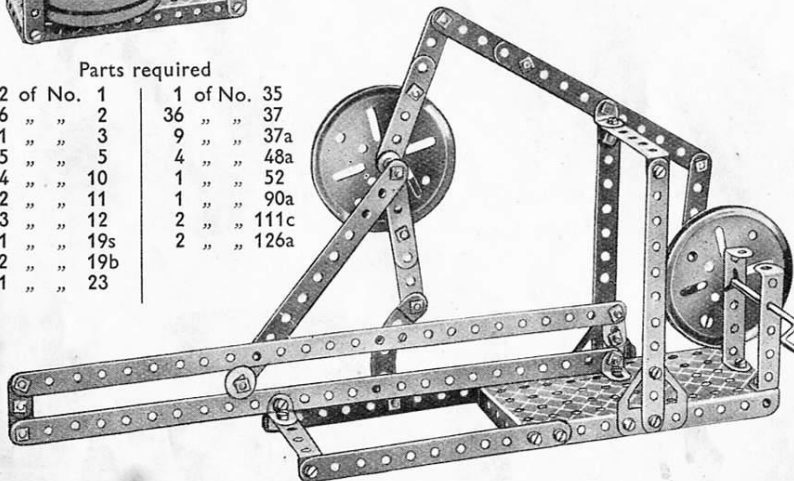
4 of No.	1
3 "	2
6 "	5
2 "	11
2 "	12
2 "	17
2 "	18a
4 "	22
15 "	37
2 "	38
1 "	40
1 "	45
1 "	52
1 "	57c
3 "	187



**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		



**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)

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.

**C110.**  
Overhead  
Crane

## Parts required

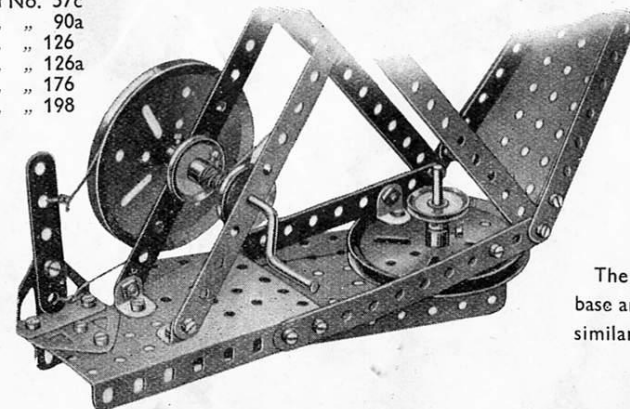
4 of No.	1
4 "	2
8 "	5
2 "	10
8 "	12
2 "	16
1 "	18a
1 "	19s
4 "	22
1 "	23
4 "	35
48 "	37
2 "	37a
1 "	40
6 "	48a
1 "	57c
4 "	90a
1 "	111c
2 "	126a
1 "	176
2 "	191



**C111.** Swivelling Jib Crane  
(Hand)

## 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		



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

## HOW TO CONTINUE

This completes our examples of models that may be made with **MECCANO Outfit C** (or Outfits B and Ba). 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 **Ca Accessory Outfit**, the price of which may be obtained from any Meccano Dealer.



# 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.

The side plates and bases of each motor are pierced with the standard Meccano equidistant holes, which enables the motor to be built into any Meccano model in the exact position required.

## Meccano Clockwork Motors

These are the finest clockwork Motors obtainable for driving models. 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.

**X SERIES CLOCKWORK MOTOR.** A fine Motor specially designed to drive with ease any of the X Series models. It is non-reversing.

**No. 1 CLOCKWORK MOTOR.** An efficient and long-running Motor fitted with a brake lever. 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 start, stop and reverse levers.

**No. 2 CLOCKWORK MOTOR.** This is a Motor of super quality. Brake and reverse levers enable the Motor to be started stopped or reversed, as required.

## Meccano Electric Motors

The five Meccano Electric Motors detailed below provide smooth-running power units for the operation of Meccano models. The 6-volt Motors may be operated either from a 6-volt Accumulator, or through a Transformer direct from the mains providing that the supply is alternating current. They cannot be run satisfactorily from dry cells. The 20-volt Motors are most conveniently operated through a 20-volt Transformer from alternating current supply mains.

- No. E1 Electric Motor (6-volt). Non-reversing.
- No. E6 Electric Motor (6-volt). Reversing.
- No. E120 Electric Motor (20-volt). Non-reversing.
- No. E20A Electric Motor (20-volt). Non-reversing.
- No. E20B Electric Motor (20-volt). Reversing.

## Meccano Transformers

A Meccano Transformer provides a convenient and safe means of driving a Meccano Electric Motor from the mains supply where this is alternating current.

There are six Transformers in the series, 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. T6 Transformer** (Output 25 VA at 9 volts) for 6-volt Electric Motors. Fitted with speed regulator.

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

**No. T6A Transformer** (Output 40 VA at 9/3½ volts) for 6-volt Electric Motors. Fitted with speed regulator and separate circuit for supplying current for eighteen 3½-volt lamps.

**No. T20 Transformer** (Output 20 VA at 20 volts) for 20-volt Electric Motors. Fitted with 5-stud speed regulator.

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

**No. T20A Transformer** (Output 35 VA at 20/3½ volts) for 20-volt Electric Motors. Fitted with speed regulator and output sockets for lighting lamps.

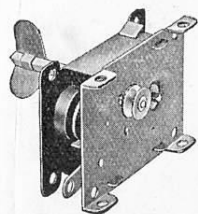
## Accumulators

The 6-volt 20-amp. hr. Accumulator is specially suitable for running Meccano 6-volt Motors and Hornby 6-volt Electric Trains.

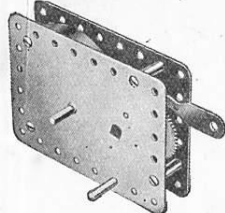
The 2-volt 20-amp. hr. Meccano Accumulator is supplied for converting 4-volt Accumulators to 6-volt.

## Resistance Controller

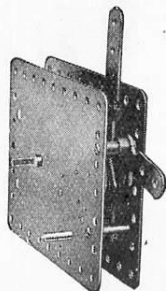
This Controller enables the speed of Meccano 6-volt and 20-volt Motors and Hornby 6-volt and 20-volt Electric Trains to be regulated as desired.



X Clockwork Motor



No. 1 Clockwork Motor



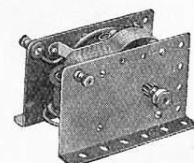
No. 2 Clockwork Motor



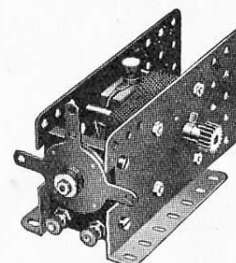
Resistance Controller



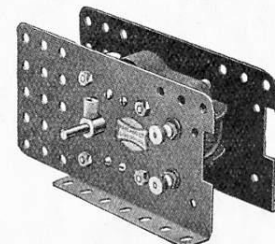
6-volt 20-amp. hr. Accumulator



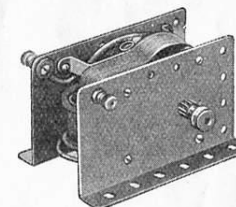
No. E1 Electric Motor (6-volt)



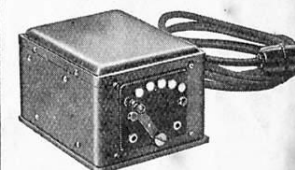
No. E6 Electric Motor (6-volt)



No. E20a Electric Motor (20-volt)



No. E1/20 Electric Motor (20-volt)



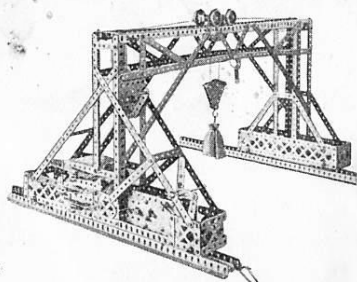
No. T20 Transformer

Ask your dealer for a complete price list

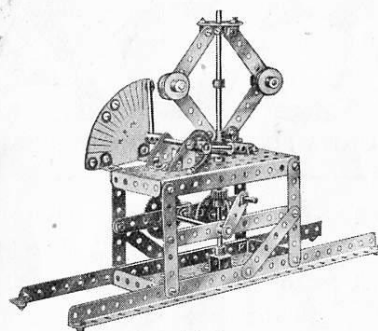
## Build Bigger and Better Models



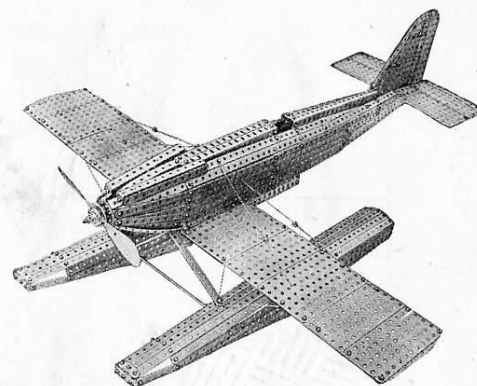
**Windmill,**  
built with Outfit E



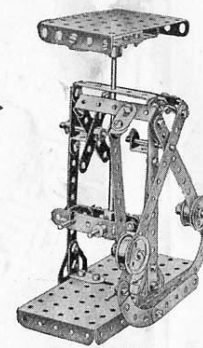
**Travelling Gantry Crane,**  
built with Outfit L



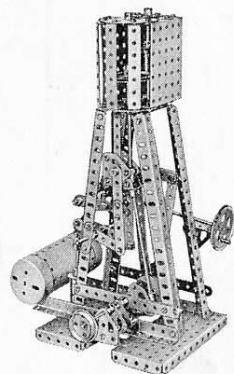
**Speed Indicator,**  
built with Outfit G



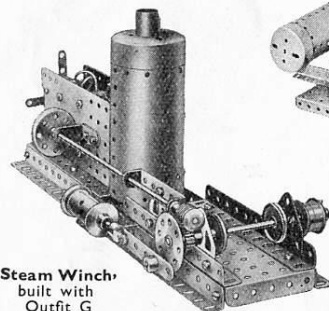
**Racing Seaplane,**  
built with Outfit L



**Letter Balance,**  
built with Outfit E



**Vertical Marine Engine,**  
built with Outfit H



**Steam Winch,**  
built with Outfit G

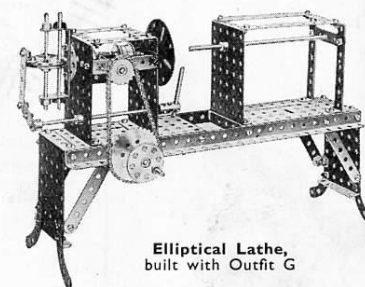
**Keep Adding to your Outfit**

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 fine models shown in the Meccano Manuals.

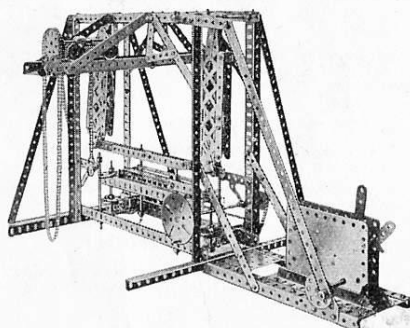
The model-building possibilities of the Meccano System are limitless. All the fine models illustrated on this and the opposite page are examples of the types you will be able to build as your Outfit develops.

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.

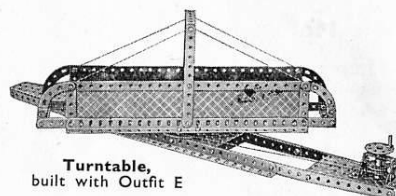
**Make friends with your Dealer — he can help you**



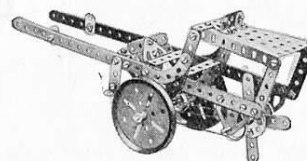
**Elliptical Lathe,**  
built with Outfit G



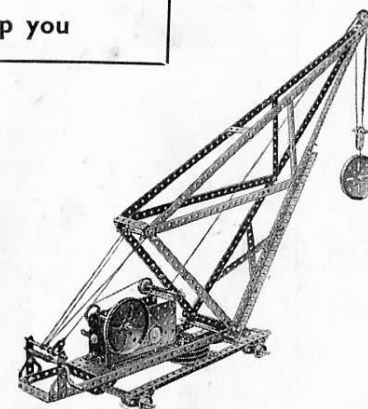
**Stone Sawing Machine,**  
built with Outfit K



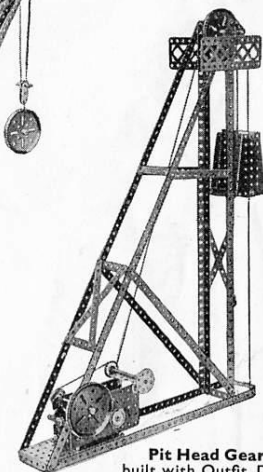
**Turntable,**  
built with Outfit E



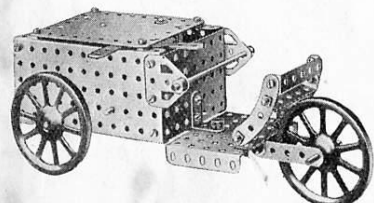
**Hay Tedder,**  
built with Outfit



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

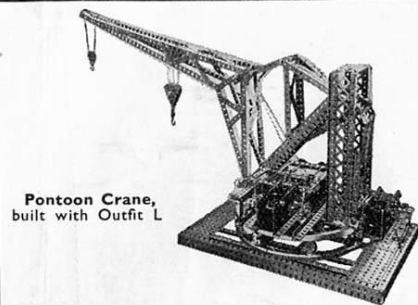


**Pit Head Gear,**  
built with Outfit D

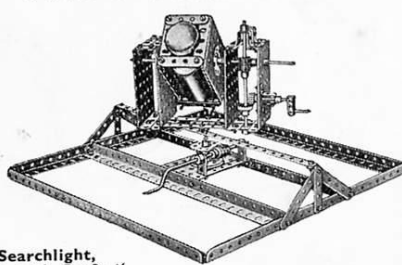


**Delivery Van,**  
built with Outfit H

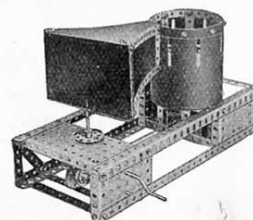
# The Possibilities of Meccano are unlimited



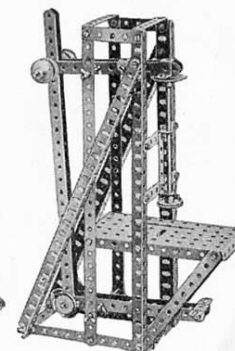
Pontoon Crane,  
built with Outfit L



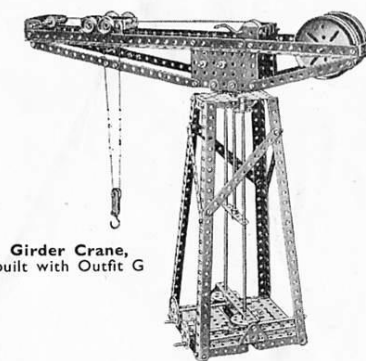
Searchlight,  
built with Outfit K



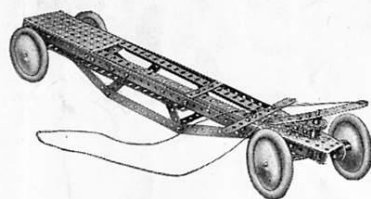
Kinetograph,  
built with Outfit F



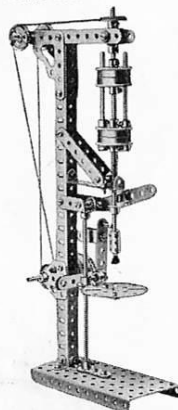
Embossing Machine,  
built with Outfit E



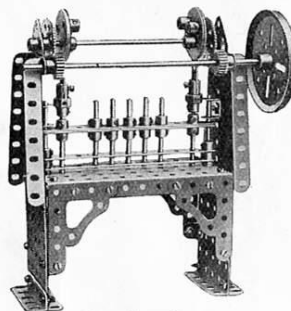
Girder Crane,  
built with Outfit G



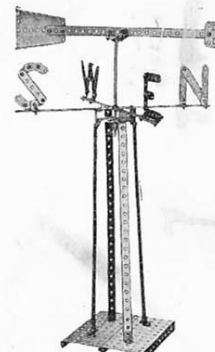
Coaster,  
built with Outfit D



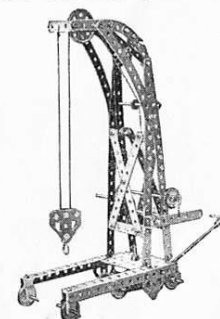
Vertical Drill,  
built with Outfit H



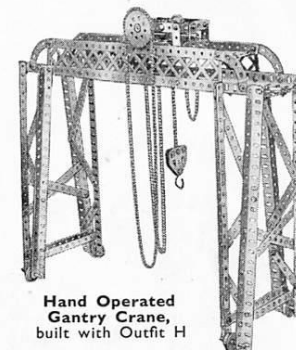
Punching Press,  
built with Outfit K



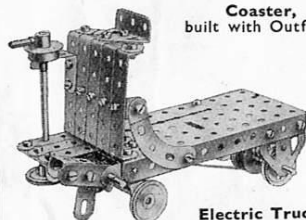
Weather Vane,  
built with Outfit G



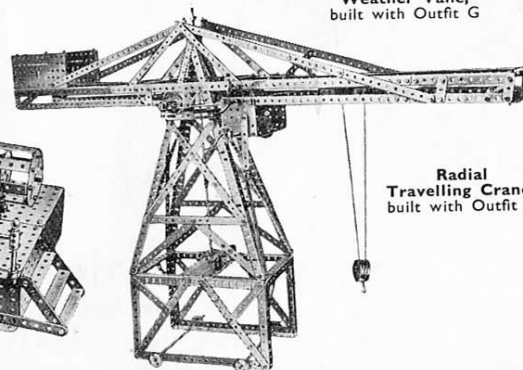
Portable Crane,  
built with Outfit K



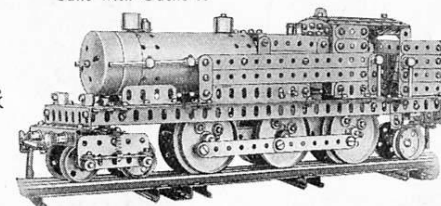
Hand Operated  
Gantry Crane,  
built with Outfit H



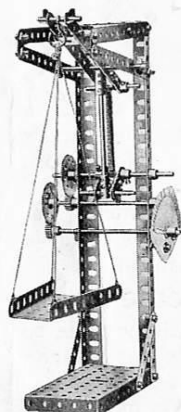
Electric Truck,  
built with Outfit E



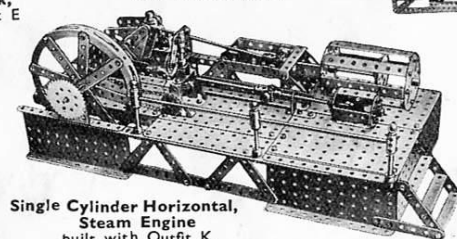
Radial  
Travelling Crane,  
built with Outfit K



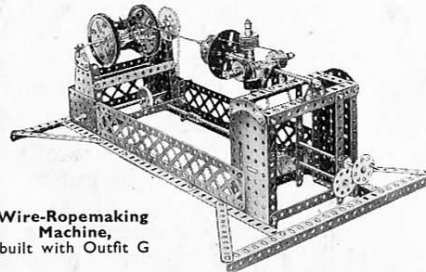
Clockwork Pacific  
Tank Locomotive,  
built with Outfit L



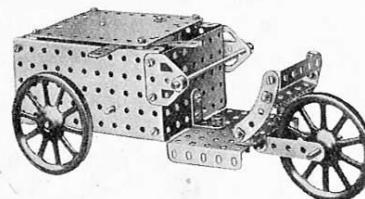
Spring Scales,  
built with Outfit H



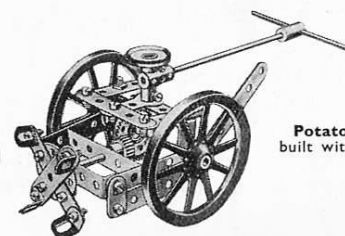
Single Cylinder Horizontal,  
Steam Engine  
built with Outfit K



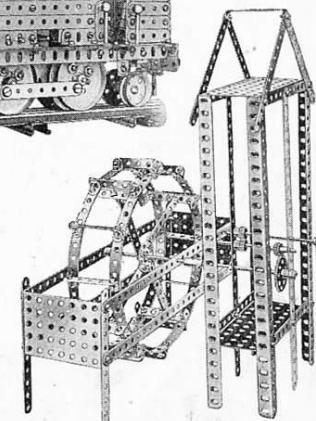
Wire-Ropemaking  
Machine,  
built with Outfit G



Delivery Van,  
built with Outfit H



Potato Reaper,  
built with Outfit H



Belgian Water Wheel,  
built with Outfit H



## A Selection of Meccano Standard Mechanisms

Here are a few simple and interesting movements showing how easily real mechanisms can be reproduced with Meccano.

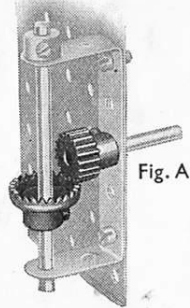


Fig. A

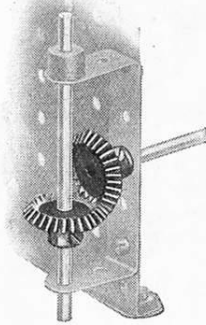


Fig. C

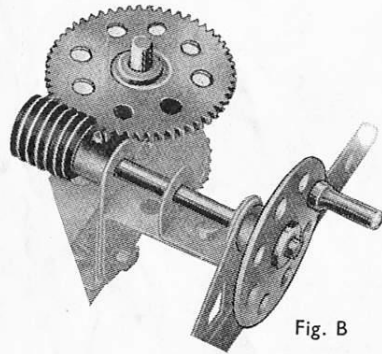


Fig. B

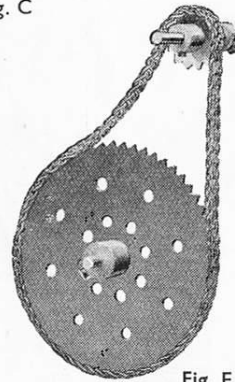


Fig. E

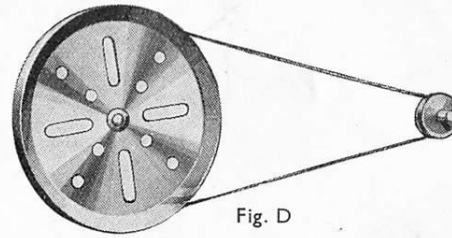


Fig. D

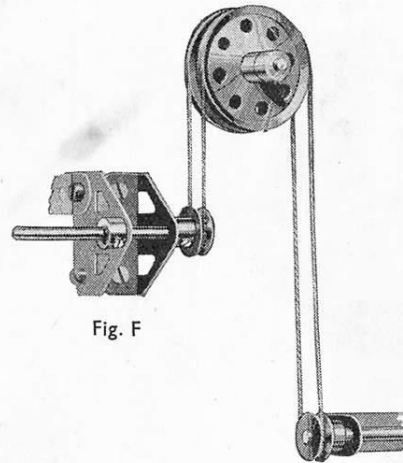


Fig. F

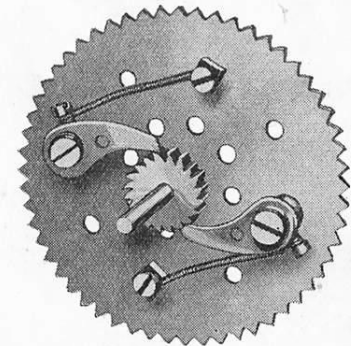


Fig. J

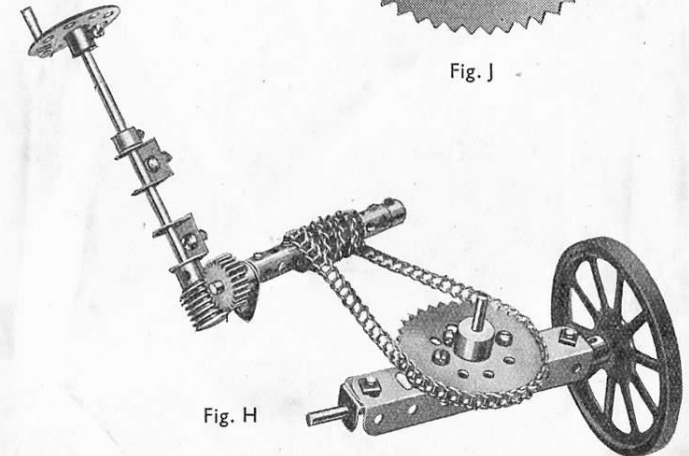


Fig. H

### Gears

The Meccano system includes a wide range of Gear Wheels, Bevel Gears, Pinion Wheels, Contrate Wheels and Worm Wheels in various sizes. All manner of interesting movements can be obtained by the use of these gears.

Fig. A shows how a drive can be transmitted from a vertical to a horizontal shaft or vice versa. Fig. B shows a Worm engaged with a Gear Wheel, giving a very great reduction in shaft speed. Fig. C illustrates another right angle drive, obtained by using Meccano Bevel Gears.

### Belt and Chain Drives

In Figs. D, E and F we show examples of belt and chain drives. The movements illustrated require no explanation excepting, perhaps, Fig. F, which shows a simple method for transmitting the drive from one shaft to another when they are out of line.

Cords usually take the place of belts in Meccano models but miniature belting can be made from strips of canvas, indiarubber, etc., in which case Flanged Wheels should be used instead of grooved Pulleys.

### Steering Gears

The various types of steering mechanism commonly in use on vehicles of all descriptions can readily be reproduced with Meccano.

Fig. H. In this case the road wheels are controlled by an endless belt of Sprocket Chain operated by a worm and pinion mechanism.

### Pawl & Ratchet Movement

By means of this type of gear it is possible to construct certain types of automatic brakes and free wheels.

Fig. J. This model illustrates the method of building up a free-wheel unit.

## A Selection of Meccano Standard Mechanisms

(continued)

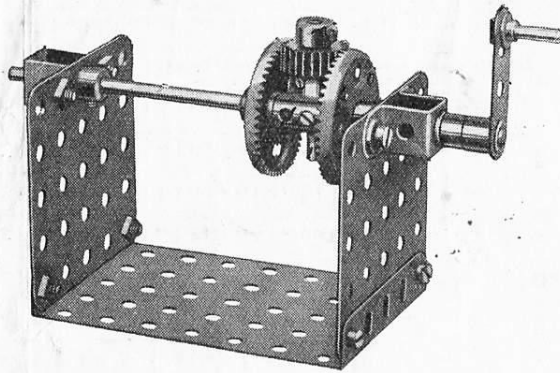


Fig. K

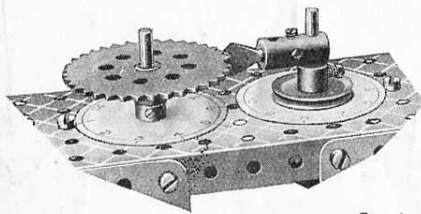


Fig. L

### Epicyclic Transmission Gear

This device, Fig. K is designed to provide a gear ratio between two shafts mounted in direct line with one another. Its chief merit lies in the compactness of its construction and lack of external bearings.

### Intermittent Rotary Motion

Fig. L shows one device by means of which intermittent rotary motion can be obtained. Such an arrangement is useful in revolution counters, measuring machines, etc. In addition to mechanisms that give true intermittent motion, different types of cams, converting a regular rotary motion into a constant or intermittent reciprocating motion, are described in the S.M. Manual.

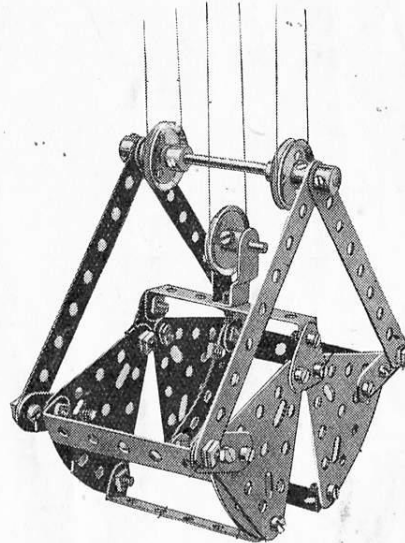


Fig. M

### Grabs

A typical example of the many kinds of grab that can be constructed from Meccano is shown in Fig. M. If the grab is fitted to a model crane or ship-coaler, all the movements can be controlled from an operating box built into the frame of the model. The outer sides of the jaws may be filled in with cardboard and the grab can then be used to pick up loads of sand, grain, marbles, etc.

### Screw Traverse

Fig. N shows how a Threaded Rod can be applied to a model in order to give a slow, powerful traversing movement. The model illustrated is the slide-rest of a model lathe. The rotary movement of the 1" fast Pulley is transmitted to the tool holder via a short Threaded Rod and a Threaded Boss.

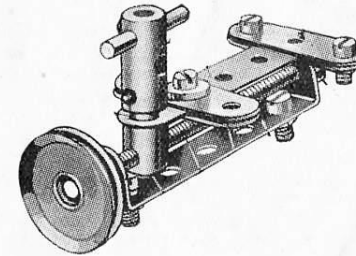


Fig. N

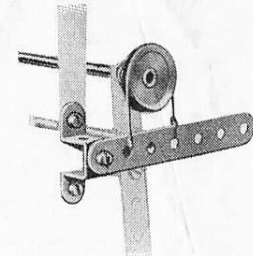


Fig. O

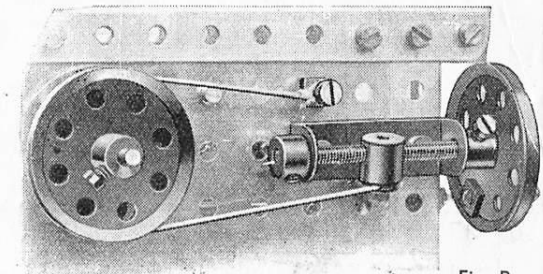


Fig. P

### Strap and Lever Brake

This device, Fig. O, will be found very useful as a quick emergency hand-brake. Although it is the most simple of such devices, it is also one of the most valuable.

### Strap and Screw Brake

The type of brake shown in Fig. P is used to apply a constant retarding effect to a rotating shaft. It can thus be utilised in a crane to prevent the load from falling back when the winding spindle is released. An advantage of the brake is that the speed of the shaft to which it is applied can be varied as required; the action of the brake cannot vary when once set unless the hand wheel is turned.

[illegible]



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

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

No.	Description.	A	Aa	B	Ba	C	Ca	D	Da	E	Ea	F	Fa	G	Ga	H	Ha	K	Ka	L
142c	Motor Tyres, 1"																			
142d	"Circular Girders, 5 1/2" diam.																			1
143	Dog Clutches																			1
144	"Circular Strips, 7" diam.																			2
145	"Plates, 6" diam.																			2
146a	"Pawls with pivot bolt and nuts																			2
147	"Pawls																			2
147a	"Pivot Bolt with 2 Nuts																			4
147b	"Pawl without Boss																			8
147c	"Ratchet Wheels																			2
148	"Collector Shoes for Locos																			2
149	"Crane Grabs																			
150	"Pulley Blocks, 1 Sheave																			
151	"Pulley Blocks, 2 Sheaves																			
152	"Corner Angle Brackets, 1/2" R.H.																			
153a	"Rubber Rings, 8" "																			
153b	"Pointers, 2 1/2", with boss																			2
154	"Fans, 2" diam.																			1
155a	"Signal Arms, Home																			1
155b	"Channel Brackets, 1 1/2" x 1 1/2"																			1
156	"Girder Brackets, 2 1/2" x 1 1/2"																			2
157	"Boiler with ends, complete																			1
158a	"Boiler Ends																			1
158b	"Boilers without Ends																			1
159	"Sleeve Pieces																			1
160	"Chimney Adaptors																			1
161	"Swivel Bearings																			1
162	"End Bearings																			1
163	"Geared Roller Bearings																			1
164	"Ring Races, Geared 192 teeth																			1
165	"Pinions																			1
166	"Ring Frames for Rollers																			1
167a	"Ball Bearings, 4" diam.																			1
167b	"Ball Races, Flanged Disc																			1
168	"Toothed																			1
168a	"Ball Casings complete with Balls																			1
168b	"Digger Buckets																			1
169	"Eccentrics 1/2" throw																			1
170	"Socket Couplings																			1
171	"Pendulum Connections																			1
172	"Rail Adaptors																			1
173	"Grease Cups																			1
174	"Flexible Coupling Units																			1
175	"Anchoring Springs for Cord																			1
176	"Shafting Standard, Large																			1
177	"Rod Socket																			1
178	"Gear Ring 3 1/2"																			1
179	"Bobbins																			1
180	"Insulating Bushes																			1
181	"Lamp Holders																			1
182	"Lamps, 2 1/2" volt																			1
183	"Lamps, 3 1/2" "																			1
184a	" " 6" "																			1
184b	" " 10" "																			1
184c	" " 20" "																			1
184d	"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	" " 2 1/2" x 2 1/2"																			1
189	" " 4 1/2" x 2 1/2"																			1
190	" " 5 1/2" x 2 1/2"																			1
191	" " 5 1/2" x 3 1/2"																			1
192	" " 5 1/2" x 4 1/2"																			1
193	" " 5 1/2" x 5 1/2"																			1
194	" " 5 1/2" x 6 1/2"																			1
195	" " 5 1/2" x 7 1/2"																			1
196	" " 12 1/2" x 7 1/2"																			1
197	"Hinged Flat Plates, 4 1/2" x 2 1/2"																			1
198	"Terminals																			1
1543	"Washers, insulating																			1
1570	"6 B.A. Nuts																			1
1575	"Clockwork Motor No. 2																			1
1583	"Electric Motor No. E6 (6 volt)																			1

## Special Instruction Leaflets

No.	1—Motor Chassis	...
"	2—High-speed Ship-Coaler	...
"	3—Dredger	...
"	4—Stiff Leg Derrick	...
"	5—Platform Scales	...
"	6—Bagatelle Table	...
"	7—Log Saw	...
"	8—Stone-sawing Machine	...
"	9—Meccanograph	...
"	10—New Loom	...
"	11—Revolving Crane	...
"	12—Electric Mobile Crane	...
"	13—Transporter Bridge	...
"	14—Traction Engine	...
"	15—Vertical Log Saw	...
"	16—Travelling Gantry Crane	...
"	17—Hydraulic Crane	...
"	18—Twin-elliptic Harmonograph	...
"	19—Pontoon Crane	...
"	20—Hammerhead Crane	...
"	21—Breakdown Crane	...
"	22—Warehouse	...
"	23—Automatic Grabbing Crane	...
"	24—Electric Derrick Crane	...
"	25—Howitzer Limber and Tractor	...

Full instructions for building a fine range of models are included with each Outfit.

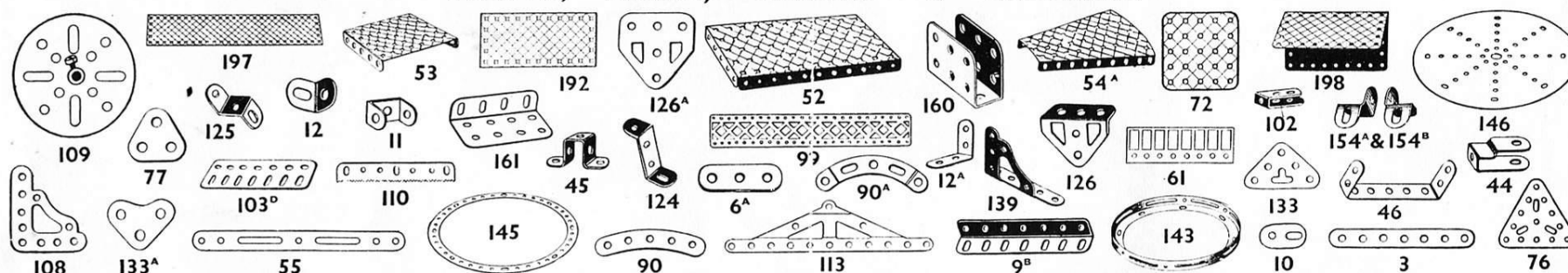
## LIST OF MODELS ILLUSTRATED IN THIS MANUAL

Acrobat on Seesaw ...	C85	Crane, Swivelling ...	B14 ; C104	Jib Crane ...	C64	Roman Balance ...	A7
Aerial Flight ...	C20	Crane, Swivelling Jib (Hand) ...	C111	Jockey Pulley ...	B105	Rotary Linisher ...	C106
Aeroplane ...	C47	Crane, Swivelling Jib (Electric) ...	C109	Joiner's Bench ...	A95	Roundabout ...	A46 ; C71
American Saddle ...	B47	Crane, Travelling ...	C16 ; C75	Jumping Jack ...	A3	Rowing Boat ...	C84
Anchor ...	A13	Crane, Warehouse ...	C91	Junction Signal ...	B93		
Anti-Aircraft Gun ...	A48	Cruiser ...	A70			Scales ...	A51 ; B19
Arc Lamp ...	B113	Cum Bak ...	C82	King Meccano ...	C102	School Blackboard ...	B81
Arm Chair ...	A23 ; B42					Scooter ...	B115
Ash Cart ...	B55	Deck Chair ...	A36 ; C55	Ladder ...	A69	Seesaw ...	B118
Autogiro ...	C79	Dentist Chair ...	B109	Ladder on Wheels ...	A11 ; C56	Sedan Chair ...	B57
Automatic Signals ...	B67	Derricking Crane ...	B40	Lamp Standard ...	C42	Sensitive Drill ...	B108
		Devil Wall ...	A27	Lancer ...	C94	Shafting Standard ...	A64
Bacon Slicing Machine ...	A38	Dignity and Impudence ...	C77	Lathe ...	A74	Shelter ...	B89
Bagatelle Table ...	C40	Dinner Wagon ...	A54	Letter Balance ...	C15	Shepherd's Crook ...	B56
Baggage Cart ...	A97	Disappearing Meccanician ...	C80	Lever of 1st Order ...	A52	Ship's Steering Gear ...	C54
Baggage Truck ...	A40	Dog ...	A2	Lever of 2nd Order ...	B45	Sideboard ...	B120
Ballista ...	C48	Double Action Piston Connection ...	C108	Level Crossing Barrier ...	A82	Single Sheaved Pulley Block ...	B18
Band Brake ...	C1	Double Action Pump ...	C93	Liner ...	A12	Skier ...	A99
Band Saw ...	A33	Drafting Table ...	B10	Loading Gauge ...	B24	Skid ...	A41
Banjo ...	B33	Drill ...	C43	Low Wing Monoplane ...	C74	Sledge ...	A100
Barrow ...	A10	Drilling Machine ...	A72 ; B21	Luggage Truck ...	C18	Sliding Gate ...	C66
Bath Chair ...	A67 ; C8	Dressing Table ...	B114	Lumber Truck and Horse ...	A32	Spaniel ...	A84
Bath with Shower ...	B104	Dump Car ...	B78			Spinning Buttons ...	C34
Battle Axe ...	A58			Magic Plate ...	A37	Sports Car ...	C17
Battleship ...	A59 ; B39	Easel and Board ...	B85	Mail Bag Hanger ...	A81	Sports Coupé ...	C38
Bed ...	A80	Electric Trolley ...	B37	Man and Boy ...	B1	Stamping Machine ...	B121
Bed Table ...	A5	Elephant ...	A53	Man Climbing Pole ...	C90	Stamping Mill ...	A83
Belt Gear ...	C37 ; C68 ; C69	Elevated Jib Crane (Hand) ...	C10	Manual Fire Engine ...	C29	Station Seat ...	B31
Bench ...	A35	Elevated Jib Crane (Electric) ...	C14	Meccano Dancer ...	C52	Steeplechaser ...	B87
Bench Lathe ...	B59	Elevator ...	C78	Mechanical Gong ...	C99	Step Ladder ...	A18
Bicycle ...	C6	Extended Ash Tip ...	C87	Mechanical Shovel ...	B61 ; C26	Step Ladder on Wheels ...	B97
Biplane ...	B119			Medal ...	B101	Stool for Dressing Table ...	B32
Blacksmith ...	A85 ; C44	Fan ...	B2	Milk Float ...	B103	Strong Man ...	B58
Bogey Truck ...	A73	Fencers ...	B74	Milk Truck ...	A20	Swing ...	A42 ; B66
Bow and Arrow ...	B48	Field Roller ...	C12	Miller's Cart ...	B94	Swinging Boat ...	B68
Box Ball Alley ...	C35	Fire Axe ...	A14	Mobile Crane ...	C33	Swinging Garden Seat ...	B86
Boxer ...	B80	Fire Escape ...	A22	Modern Dressing Table ...	B35	Swivelling Crane ...	B14 ; C104
Boy on Swing ...	C101	Fire Screen ...	A19	Motor Boat ...	B44	Swivelling Jib Crane (Electric) ...	C109
Bread Van ...	B25	Flat Truck ...	A15 ; A62	Motor Cycle and Sidecar ...	B34	Swivelling Jib Crane (Hand) ...	C111
Breakdown Crane ...	A68 ; B98	Flip-Flap ...	C105	Motor Lorry with Crane ...	C95	Sword ...	A4
Brewer's Dray ...	B69	Fly Boats ...	B102 ; C24	Motor Tractor ...	C9		
Bucking Broncho ...	B11	Flying Boats ...	C72	Motor Van ...	C13	Table ...	A79
Buffers ...	A86	Footbridge ...	B75	Mounted Cowboy ...	C7	Tandem Car ...	C76
Bullock Cart ...	B5	Fork ...	A55	Music Stool ...	A66	Tea Wagon ...	A21
Butter Churn ...	C21	Friction Grip Tongs ...	C23			Teacher's Desk ...	B41
				Ore Crusher ...	A96	Telegraph Pole ...	A17
Cable Railway ...	C25	Gallows ...	A30	Ostrich ...	A26	Telegraph Key ...	A45
Calf ...	A91	Gangway ...	B96	Ottoman ...	B54	Telephone ...	A101 ; C88
Caravan ...	B76	Garden Seat ...	A28	Overhead Crane ...	C110	Telescope Mast ...	C31
Cart ...	A92 ; C59	Gas Stove ...	A44			Telpher Span (Electric) ...	C65
Card Table ...	B20	Gate ...	C51	Paddle Steamer ...	C61	Telpher Span (Hand) ...	C67
Catapult ...	A31 ; B12	Giant Foundry Ladle ...	C103	Pantograph ...	C92	Tightrope Walker ...	C50
Cattle Truck ...	B15 ; B72	Giraffe ...	A71	Parallel Bars ...	E3	Timber Drag ...	C53
Centrifugal Engine Governor ...	A47	Go-Chair ...	A16	Pecking Hen ...	B27	Timber Truck ...	A60
Centrifugal Governor ...	C70	Gong ...	B22	Pen Rack ...	A57	Top ...	A63 ; C62
Chaff Cutter ...	B38	Goose ...	B71	Perambulator ...	B91	Tower Wagon ...	C22
Chair ...	A98 ; B70	Gramophone ...	C36	Pile Driver ...	C96	Tram Car ...	B110
Chase ...	B116	Grandfather Clock ...	A94 ; B99	Pithead Gear ...	A78	Travelling Crane ...	C16 ; C73
Chesterfield Chair ...	B84	Grass Cutter ...	B28	Pneumatic Hammer ...	C45	Triangle of Forces ...	C98
Chinese Windlass ...	C27	Gravel Sifter ...	A29	Pony and Trap ...	B26	Triangulated Truss ...	C2
Circular Saw ...	B64	Grill ...	A8	Porter's Trolley ...	A61	Tricycle ...	B4
Clock ...	B79	Guillotine ...	C83	Potter's Wheel ...	C63	Trip Hammer ...	A6 ; B117
Coaster ...	B65	Gymnast ...	B60 ; C85	Power Hack Saw ...	B63	Trolley ...	B112
Coffee Stall ...	B107			Prancing Horse ...	B51	Try-your-strength Machine ...	C39
Coffee Table ...	A90 ; B111	Hammerhead Crane ...	C97	Pulley Block ...	B49 ; C19 ; C107	Two-Wheeled Trap ...	B82
Collapsible Table ...	A9	Hand Truck ...	A76	Pullman Car ...	A83		
Compound Triangulated Truss ...	C4	Handcart ...	A39	Pump ...	B43	Umpire's Seat ...	A77
Cart ...	A65 ; B50	Hanging Scales ...	A24	Punch Bag Stand ...	B52		
Couch ...	A43 ; B29	Hat Rack ...	B73	Punching Machine ...	C32	Violin and Bow ...	B23
Coster's Barrow ...	B13 ; C41	Hawker's Cart ...	B53				
Counter Scales ...	A93 ; B62	Hay Cart ...	B17	Quick Return Device ...	C30	Walking Man ...	B6
Crane Grab ...	D8	Helve Hammer ...	C3			Warehouse Crane ...	C91
Crane, Breakdown ...	A68 ; B98	High Diving Board ...	D9	Rake ...	A1	Watch Stand ...	A89
Crane, Derricking ...	B40	Hooke's Coupling ...	C57	Rattle ...	B7	Watchman's Hut and Fire ...	B92
Crane, Hammerhead ...	C97	Horizontal Engine ...	A87	Revolving Crane ...	A34	Weather Vane ...	B46 ; C60
Crane, Elevated Jib (Electric) ...	C14	Horse ...	A25	Revolving Gymnasts ...	C49	Weighing Machine ...	B83
Crane, Elevated Jib (Hand) ...	C64	Horse and Cart ...	B88 ; C100	Revolving Office Chair ...	B95	Well Windlass ...	C81
Crane, Jib ...	C33	Horse and Roller ...	A75	Revolving Seesaw ...	B35	Wheelbarrow ...	A56
Crane, Mobile ...	C10	Howe Truss ...	C5	Revolving Tricycle ...	C89	Windmill ...	A50 ; B77
Crane, Overhead ...	C110			Rickshaw ...	B100	Windmill Pump ...	B90 ; C11
Crane, Revolving ...	A34	Inclined Plane ...	C46	Rocking Chair ...	B30	Wringing Machine ...	A49
		Invalid ...	C73	Rocking Horse ...	B106	Wrestlers ...	B16 ; C58
		Invalid Chair ...	C28				

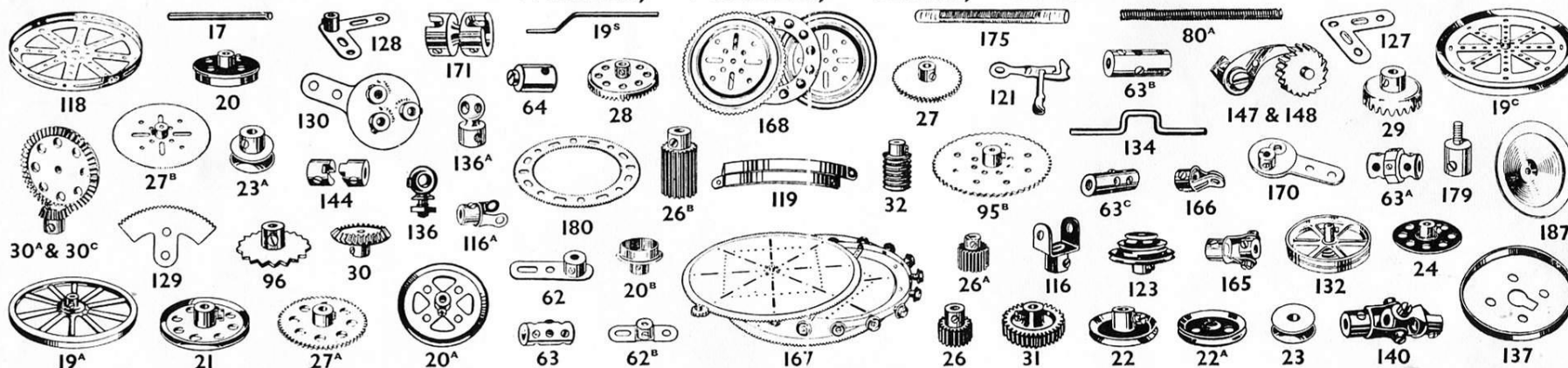


## MECCANO PARTS & ACCESSORIES

## PLATES, STRIPS, GIRDERS & BRACKETS



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



## MISCELLANEOUS

