

MECCANO

HORNBY'S ORIGINAL SYSTEM — FIRST PATENTED 1901

INSTRUCTIONS FOR OUTFIT

also

MECCANO OUTFIT No 5



SPECIAL NOTICE

Owing to the acute paper shortage caused by the war we are unable to obtain further supplies of the Manual normally included with this Outfit. We are therefore obliged to make use of another Manual, which is slightly different. Most of the models illustrated in this Manual can be built exactly as shown; a few others will require a certain amount of adaptation.

Please ignore all paragraphs headed "How to Continue." Your next purchase should be a No. 5a Accessory Outfit.

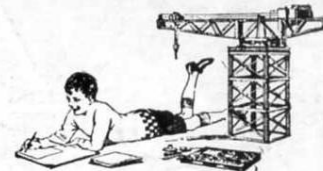
MECCANO LIMITED

MECCANO LTD., BINNS ROAD, LIVERPOOL 13

13/834/12. (U.K.)

MECCANO

HORNBY'S ORIGINAL SYSTEM — FIRST PATENTED 1901



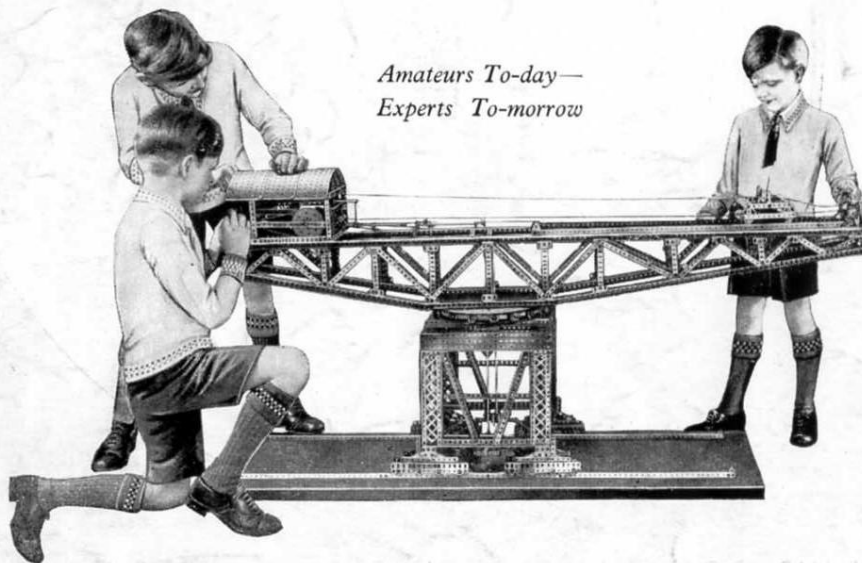
WORKING WITH MECCANO

...er of models that can be built with Meccano—Cranes, ...s, Machine Tools, Locomotives—in fact everything that ...er and spanner, both of which are provided in the Outfit, ...sary. ...models first—they will provide hours of fun—and then try to ...y model can be made in a dozen different ways. It is important to ...ats and bolts tightly to ensure that your models will be strong and ...ey 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.

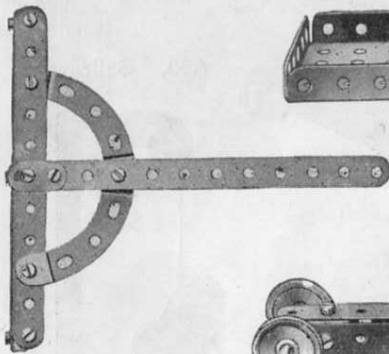
Meccano Clubs are founded and established under the guidance of the Guild Secretary at Headquarters, and at the present time there are active Clubs in nearly 250 towns and villages in the United Kingdom, and more than 100 in countries overseas. Each Club has its Leader, Secretary, Treasurer, and other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

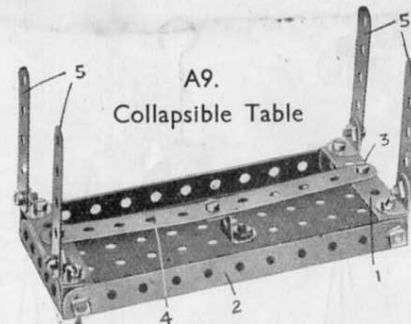
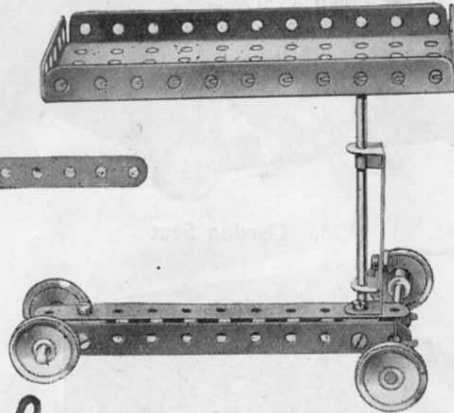
MECCANO SERVICE

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.

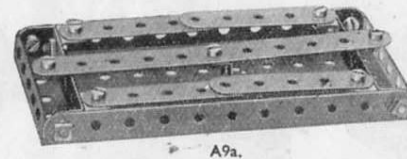
A1. Rake



A5. Bed Table

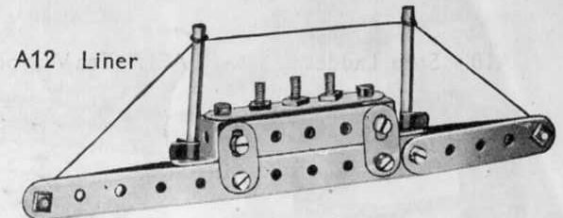
A9.
Collapsible Table

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 $5\frac{1}{2}'' \times \frac{1}{2}''$ 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.

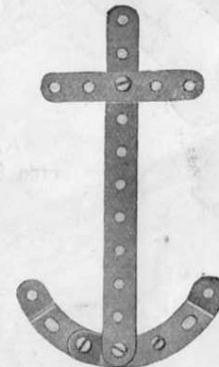


A9a.

A12 Liner



A13. Anchor



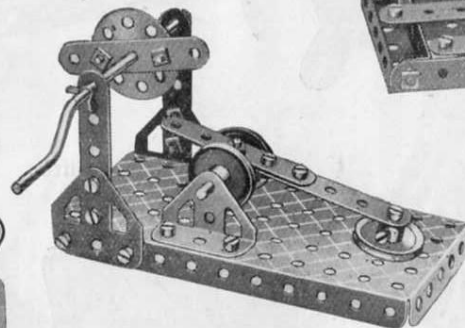
A16. Go-chair



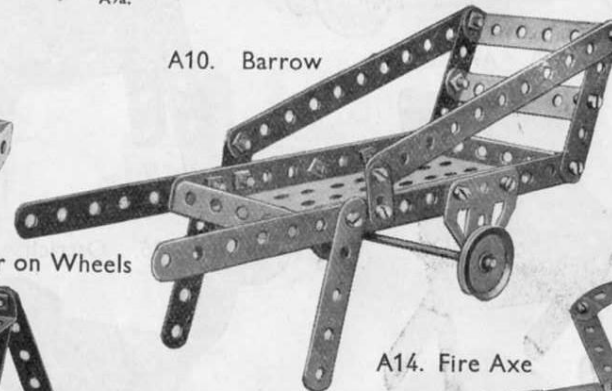
A2. Dog



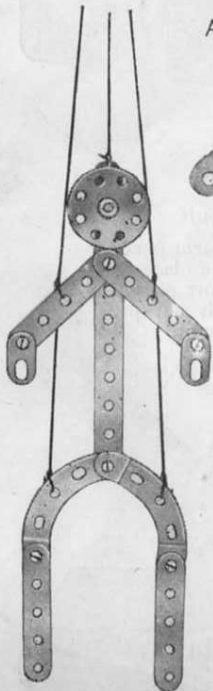
A6. Trip Hammer



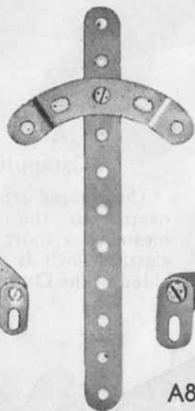
A10. Barrow



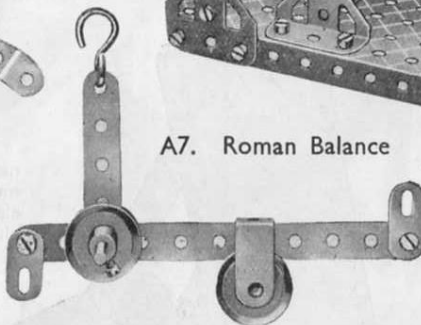
A3. Jumping Jack



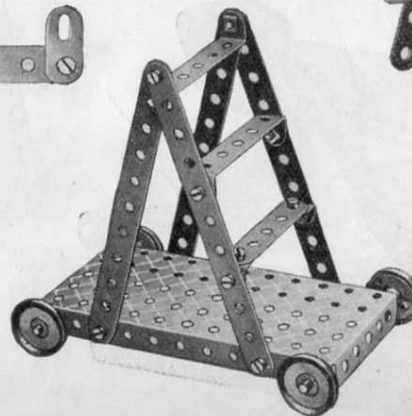
A4. Sword



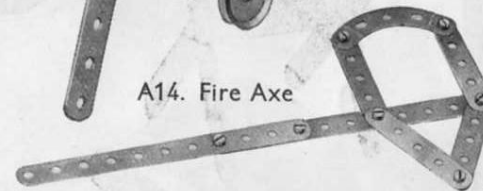
A7. Roman Balance



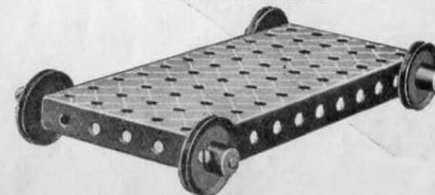
A11. Ladder on Wheels



A14. Fire Axe



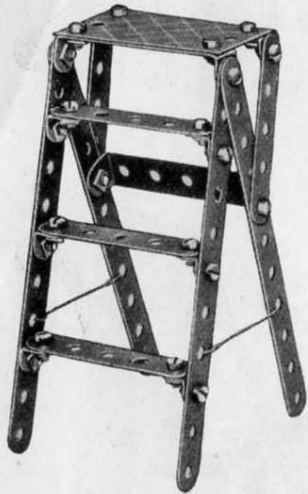
A15. Flat Truck



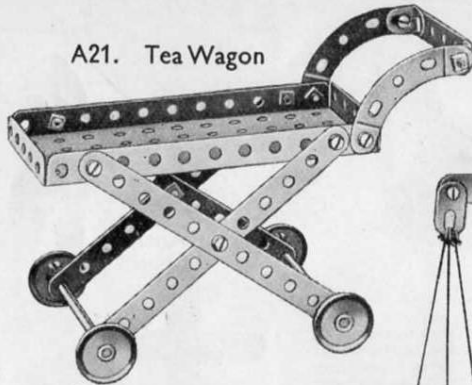
A17. Telegraph Pole



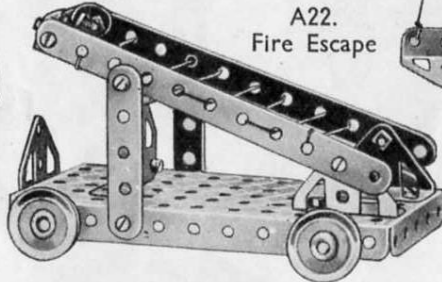
A18. Step Ladder



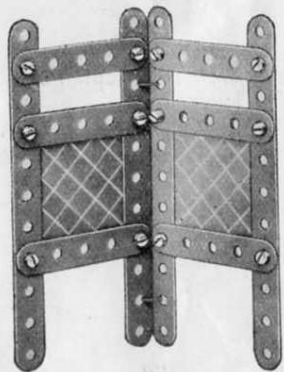
A21. Tea Wagon



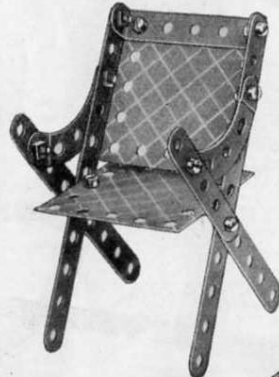
A22. Fire Escape



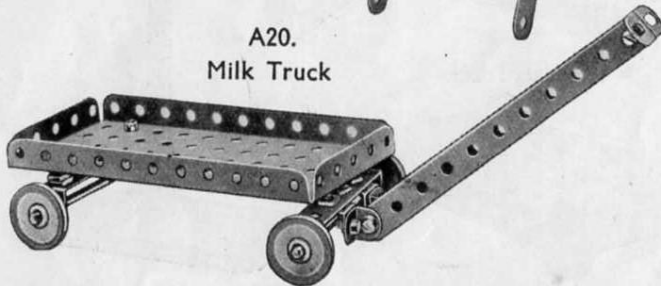
A19. Fire Screen



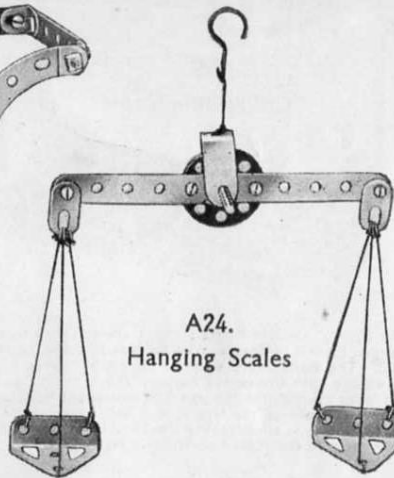
A23. Arm Chair



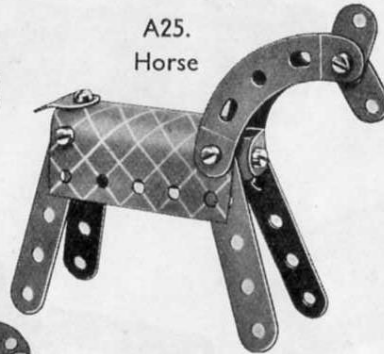
A20. Milk Truck



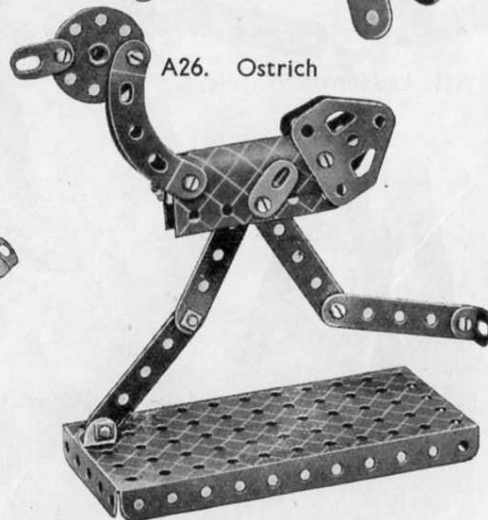
A24. Hanging Scales



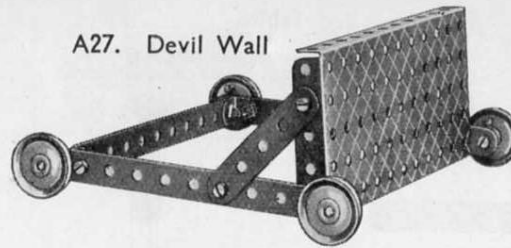
A25. Horse



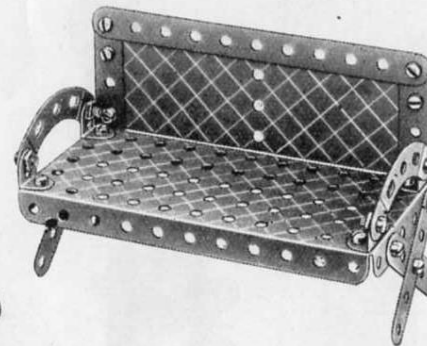
A26. Ostrich



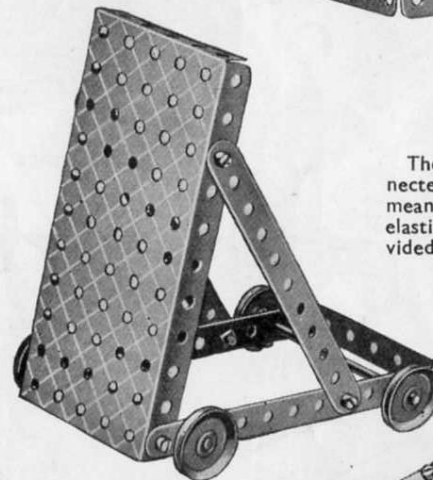
A27. Devil Wall



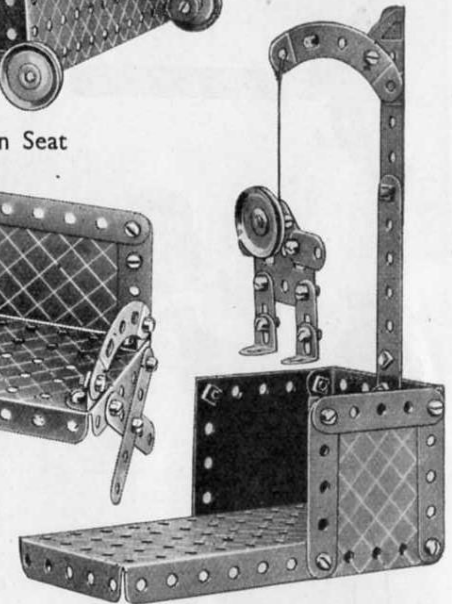
A28. Garden Seat



A29. Gravel Sifter

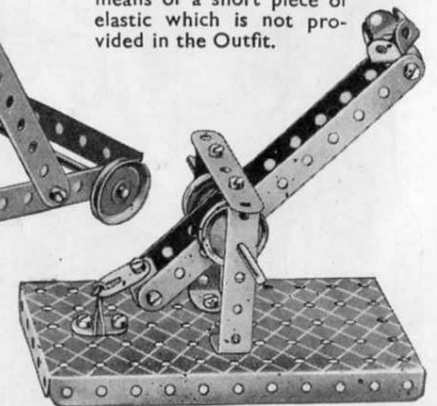


A30. Gallows

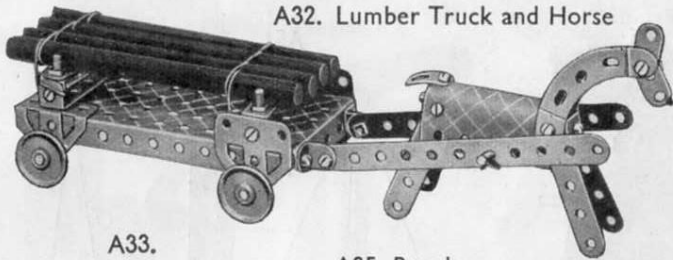


A31. Catapult

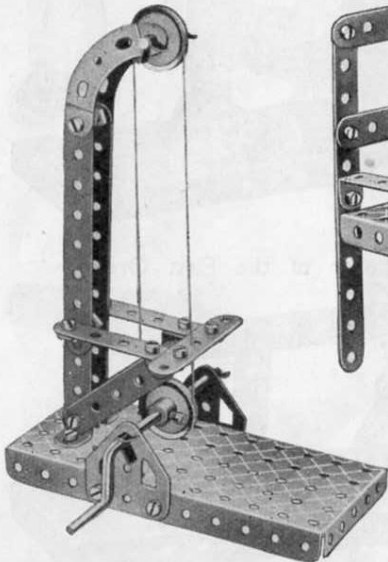
The pivoted arm is connected to the base by means of a short piece of elastic which is not provided in the Outfit.



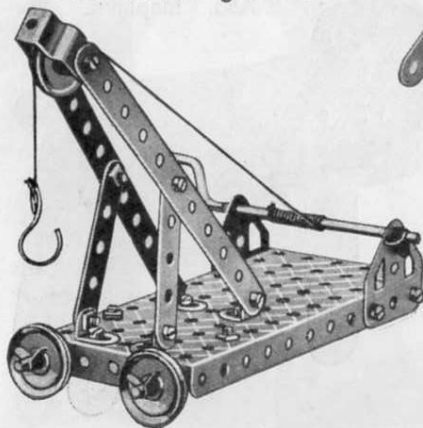
A32. Lumber Truck and Horse



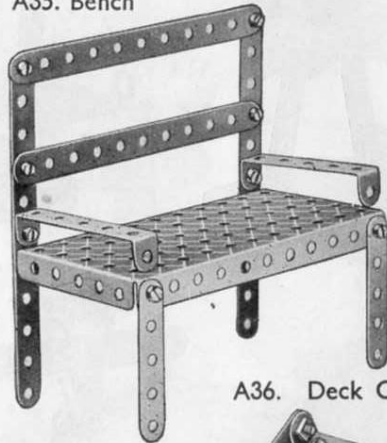
A33. Band Saw



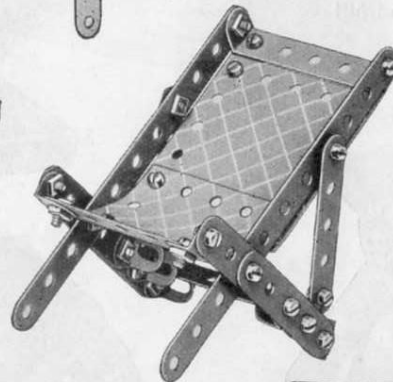
A34. Revolving Crane



A35. Bench



A36. Deck Chair

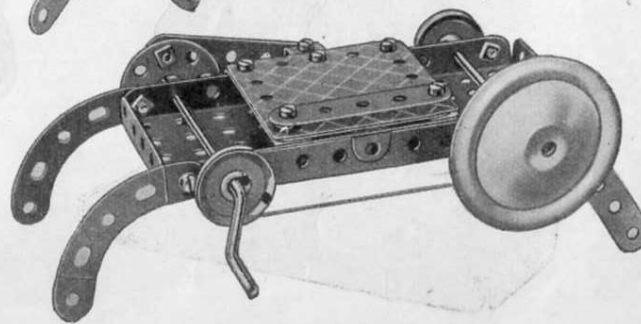


A37. Magic Plate

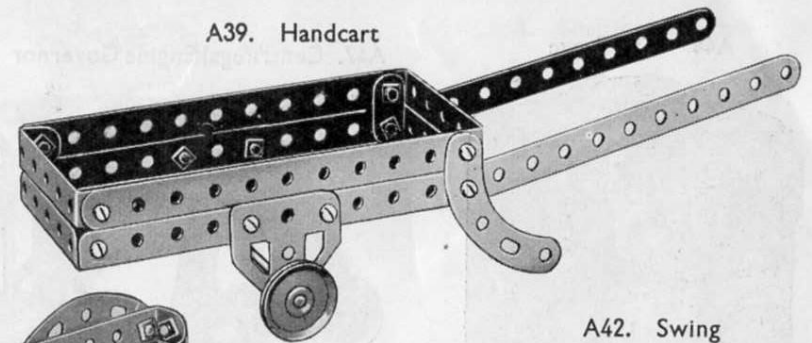
The cord is wound once round a 2 in. Axle Rod that is journalled in a 1-in. Reversed Angle Bracket, which is bolted to the Plate. If the cord is held loosely the Plate will drop, but as soon as the cord is tightened the Plate becomes immovable.



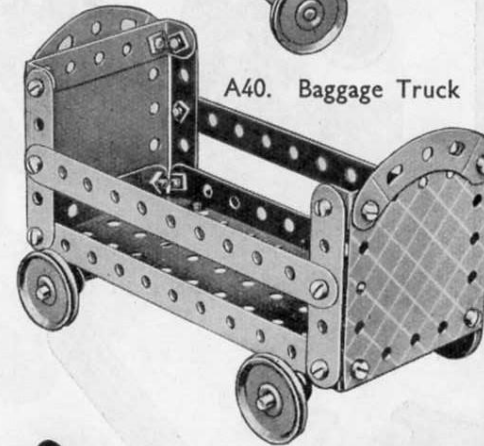
A38. Bacon Slicing Machine



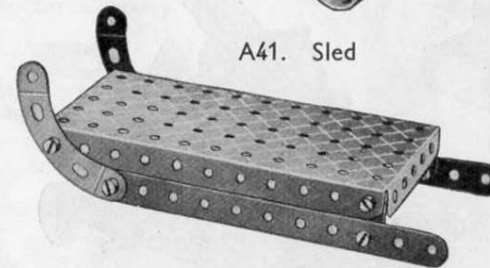
A39. Handcart



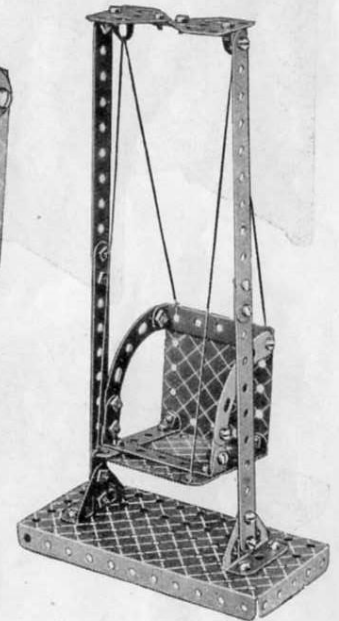
A40. Baggage Truck



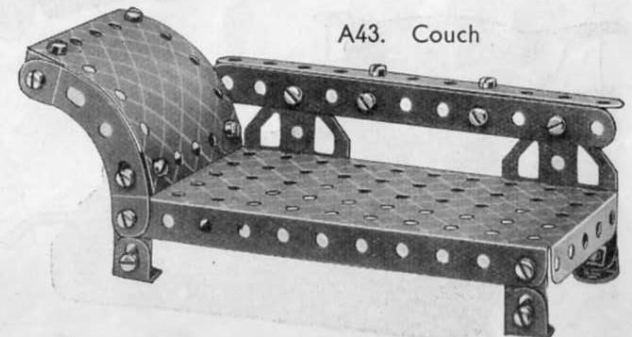
A41. Sled



A42. Swing

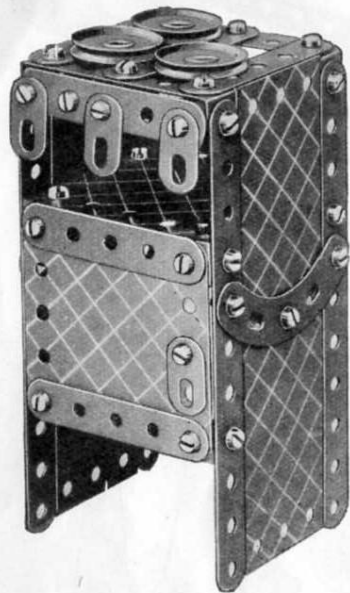


A43. Couch

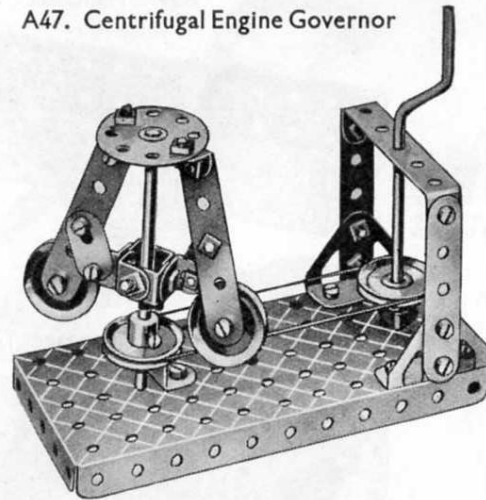


These Models can be built with **MECCANO Outfit A**

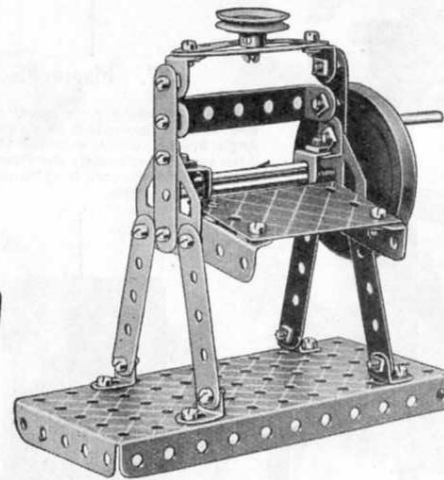
A44. Gas Stove



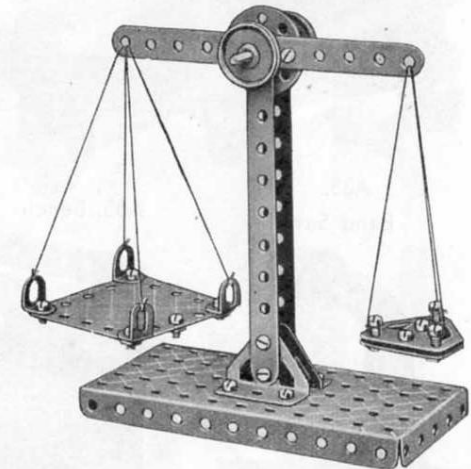
A47. Centrifugal Engine Governor



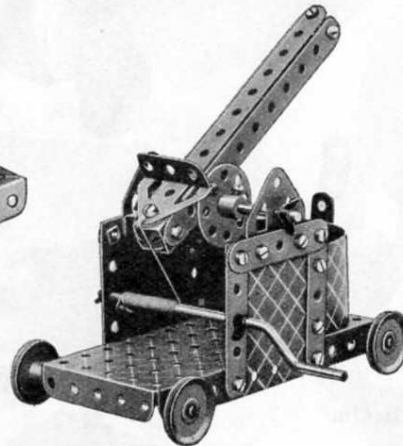
A49. Wringing Machine



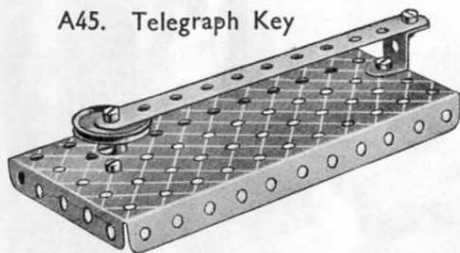
A51. Scales



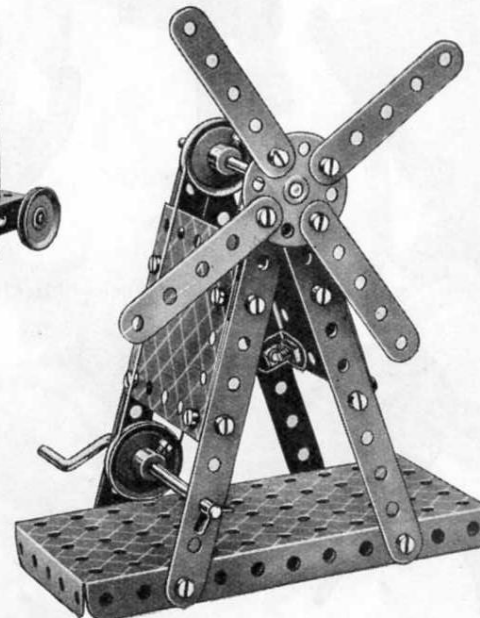
A48. Anti-aircraft Gun



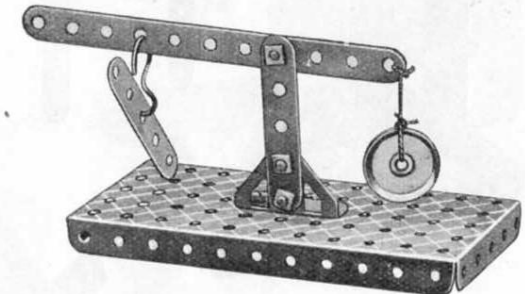
A45. Telegraph Key



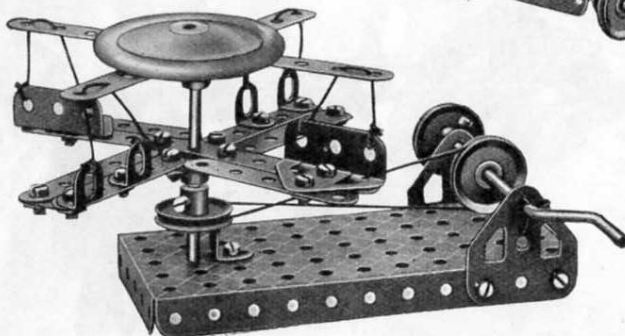
A50. Windmill



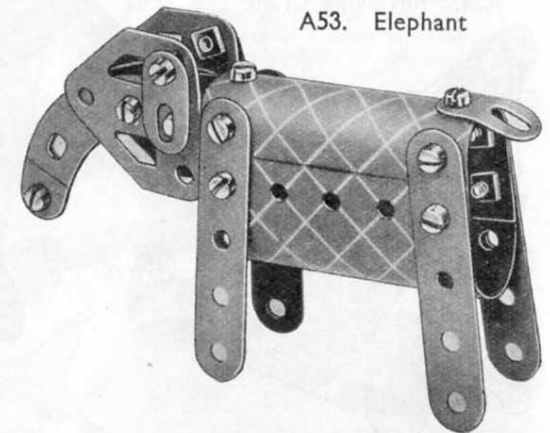
A52. Lever of the First Order



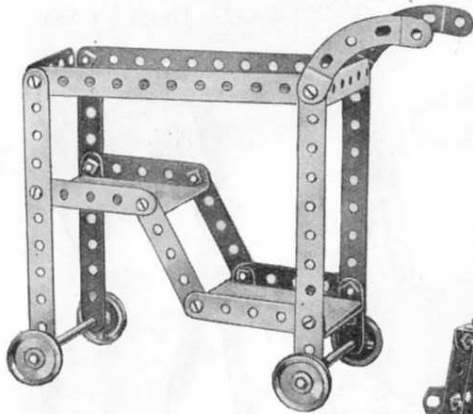
A46. Roundabout



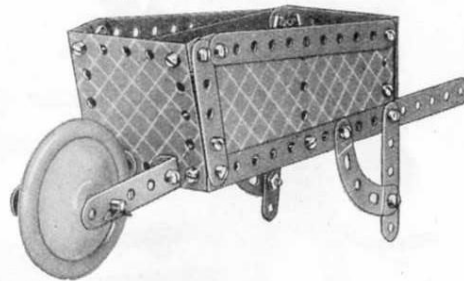
A53. Elephant



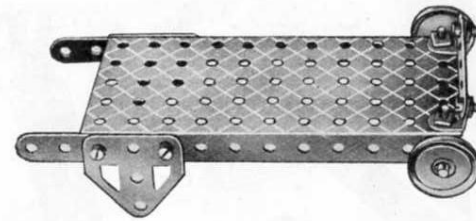
A54. Dinner Wagon



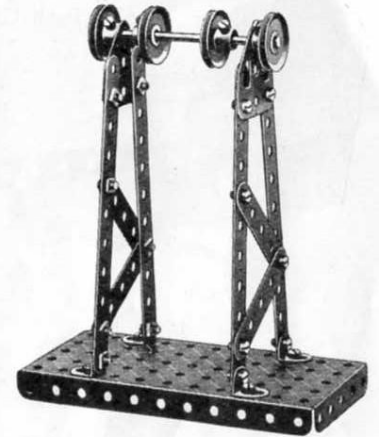
A56. Wheelbarrow



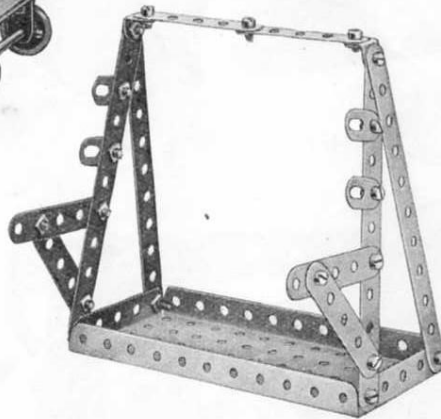
A62. Flat Truck



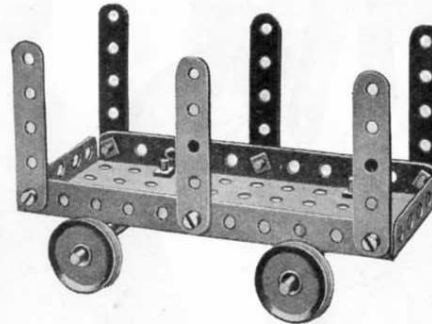
A64. Shafting Standard



A57. Pen Rack



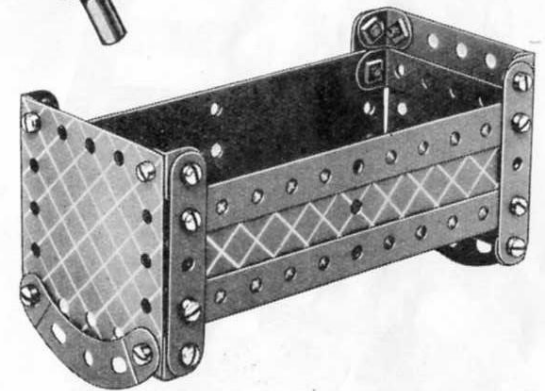
A60. Timber Truck



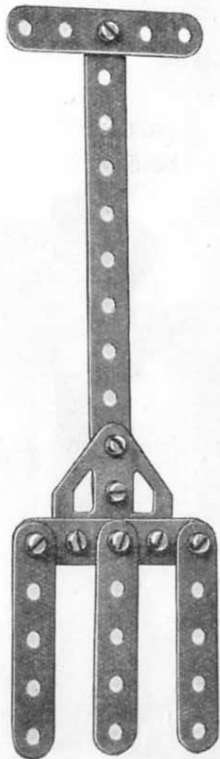
A63. Top



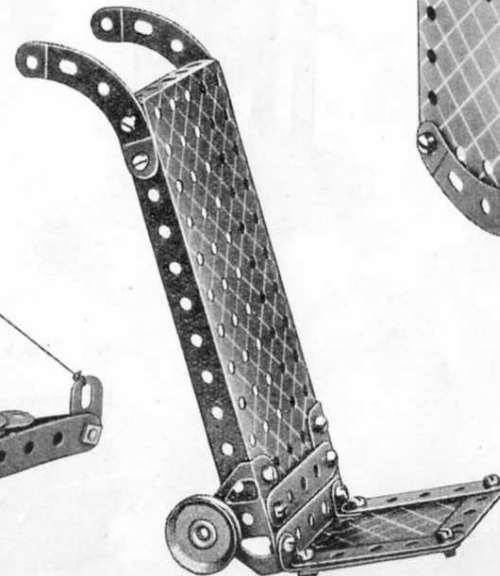
A65. Cot



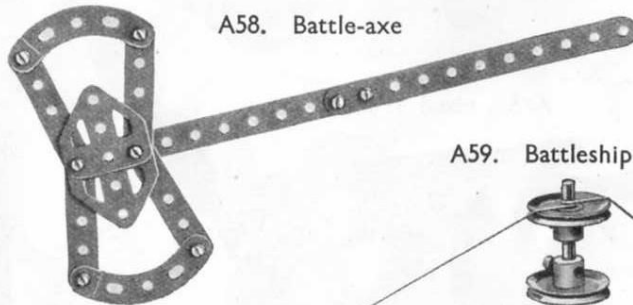
A55. Fork



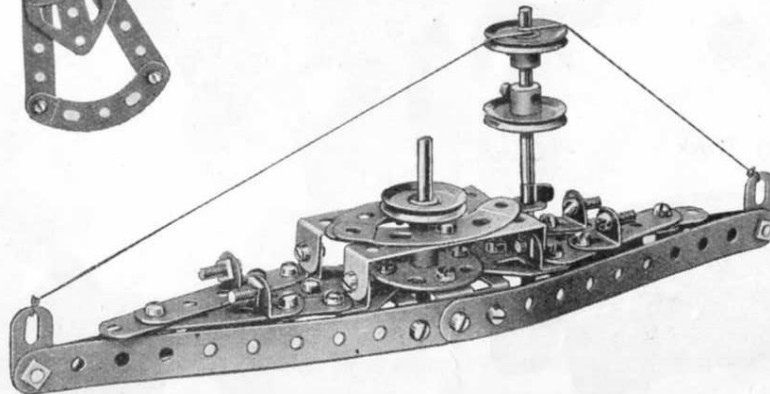
A61. Porter's Trolley



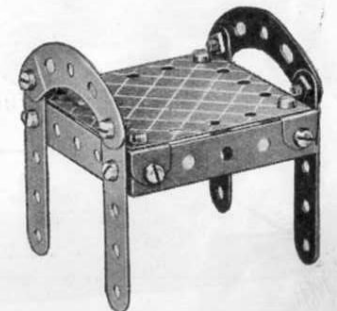
A58. Battle-axe

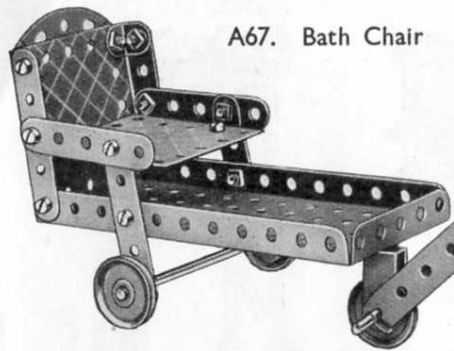


A59. Battleship

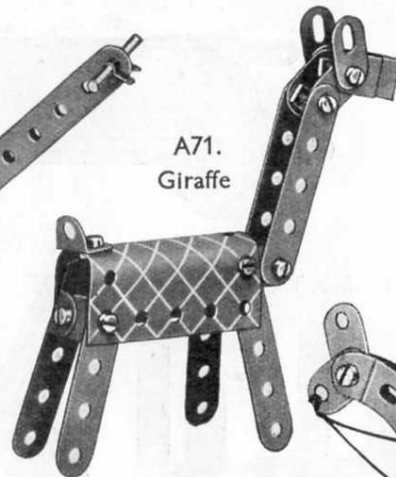
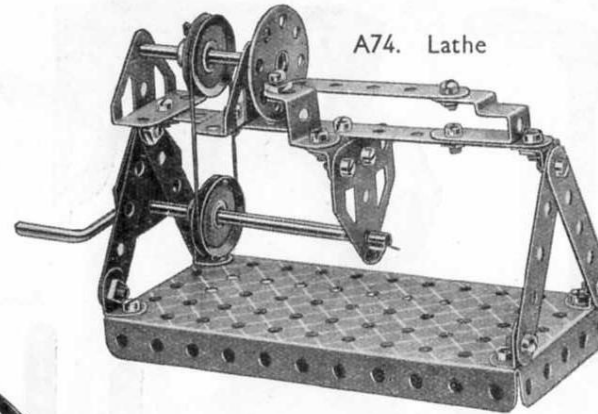


A66. Music Stool





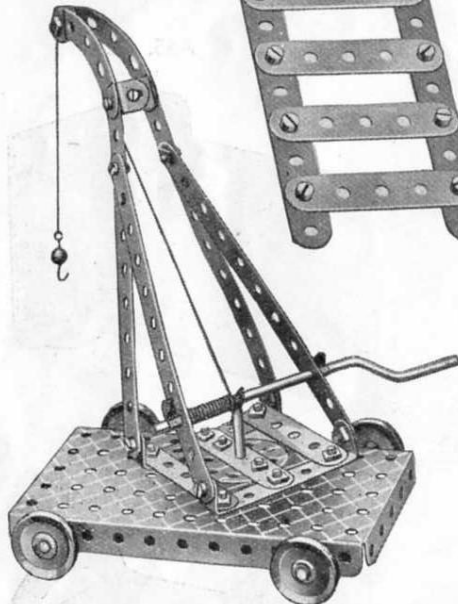
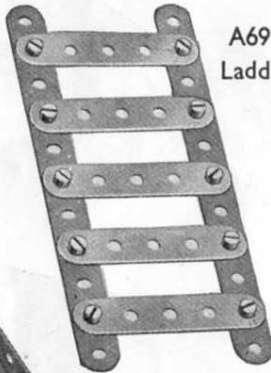
A67. Bath Chair

A71.
Giraffe

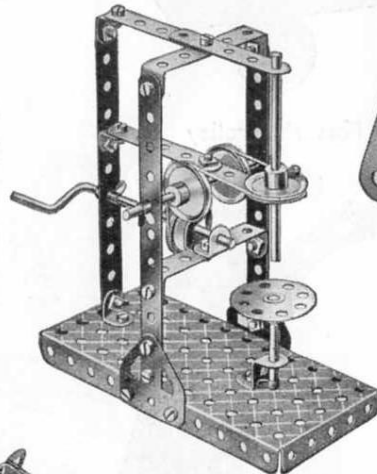
A74. Lathe



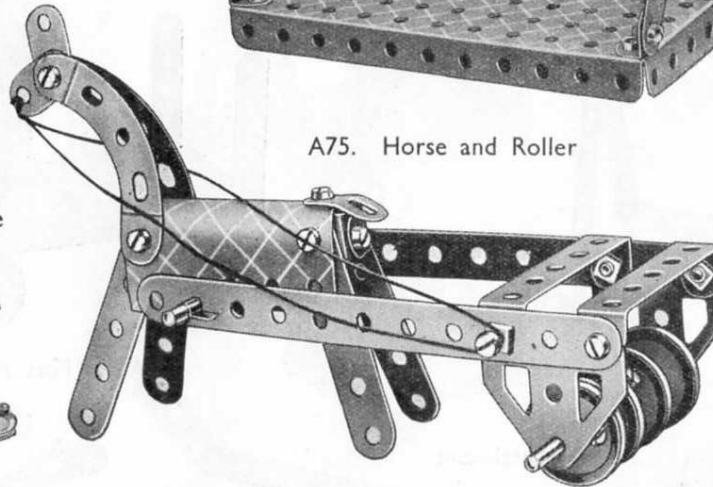
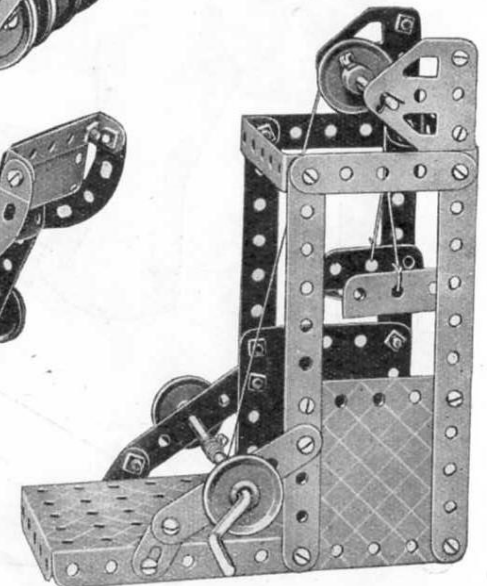
A77. Umpire's Seat

A68.
Breakdown
CraneA69.
Ladder

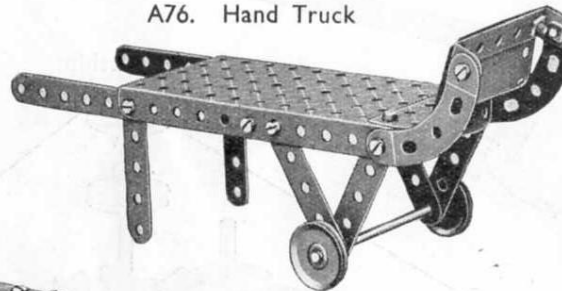
A72. Drilling Machine



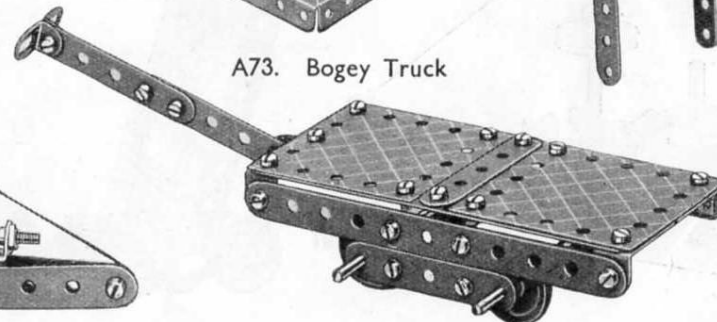
A75. Horse and Roller

A78.
Pit-head Gear

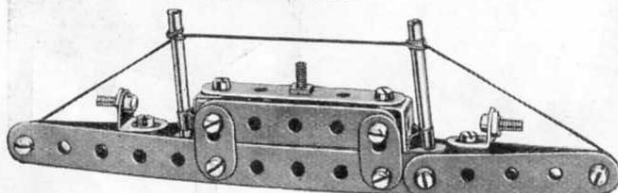
A76. Hand Truck



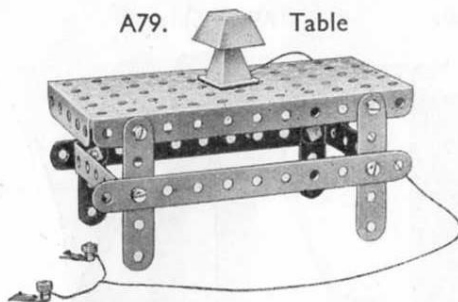
A73. Bogey Truck



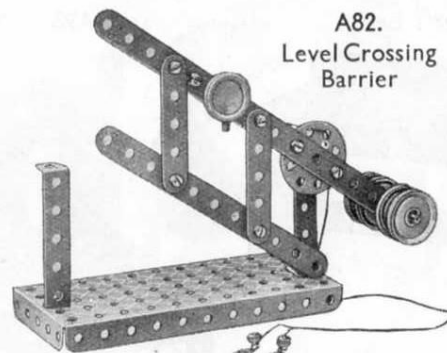
A70. Cruiser



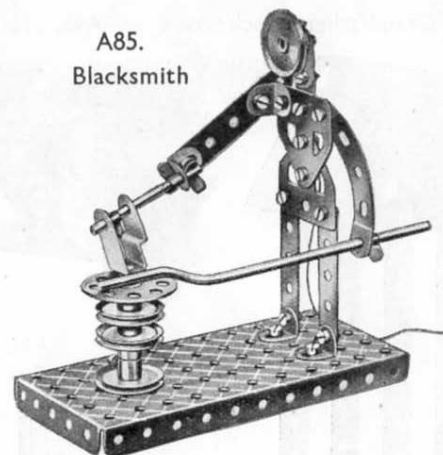
A79. Table



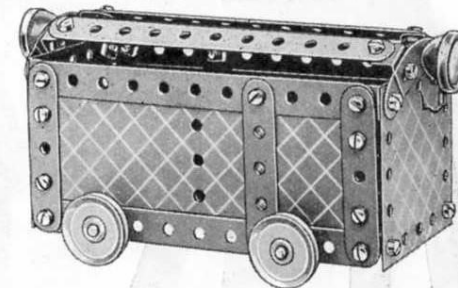
A82. Level Crossing Barrier



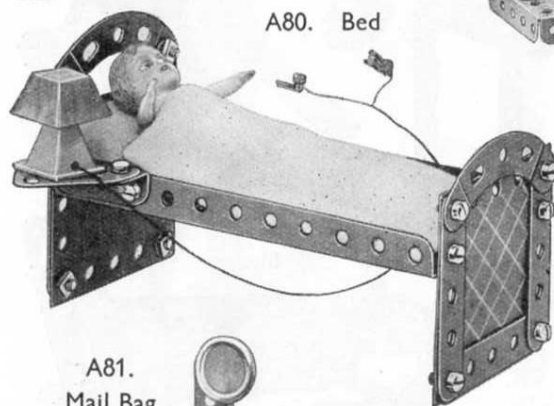
A85. Blacksmith



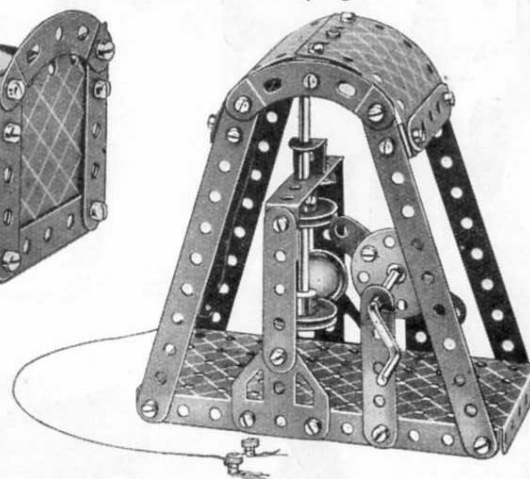
A88. Pullman Car



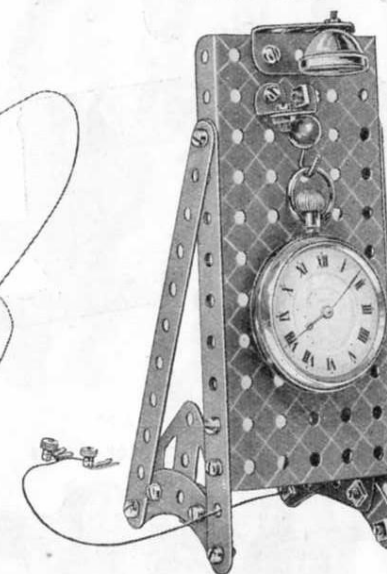
A80. Bed



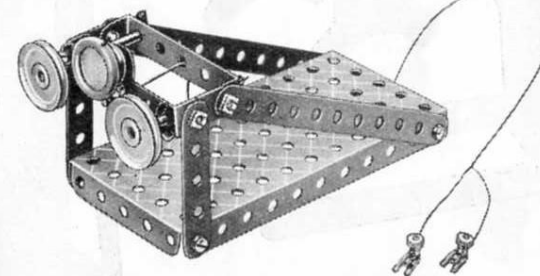
A83. Stamping Mill



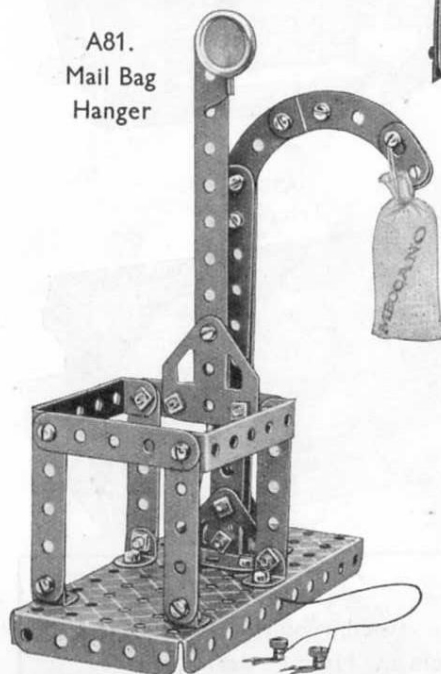
A89. Watch Stand



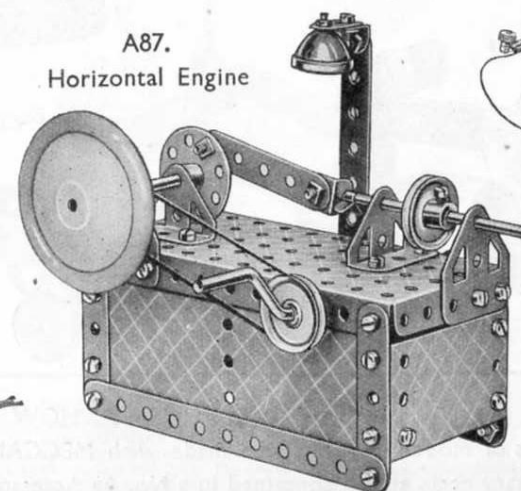
A86. Buffers



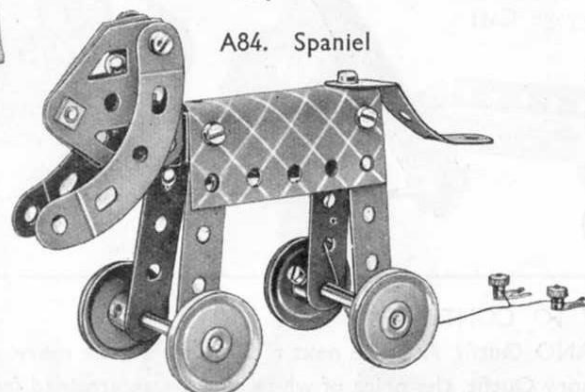
A81. Mail Bag Hanger



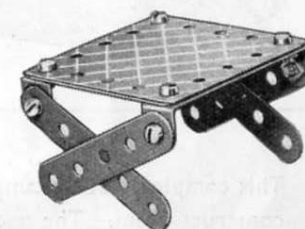
A87. Horizontal Engine



A84. Spaniel



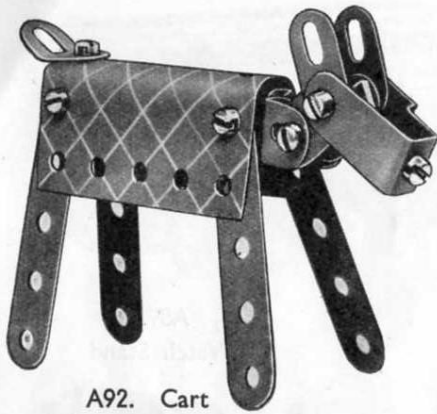
A90. Coffee Table



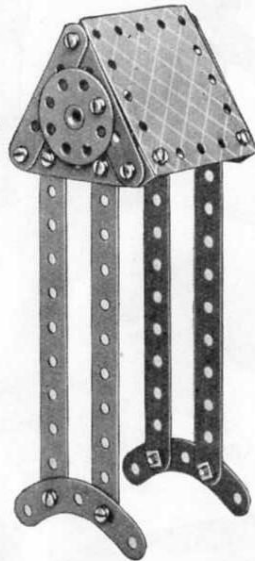
This page shows examples of the use of the Meccano Lighting Set, described on page 2 of cover

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

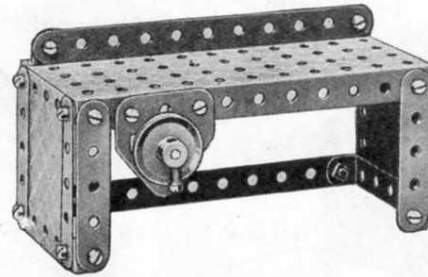
A91. Calf



A94. Grandfather Clock



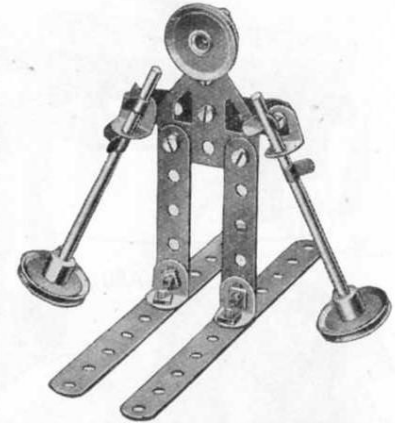
A95. Joiner's Bench



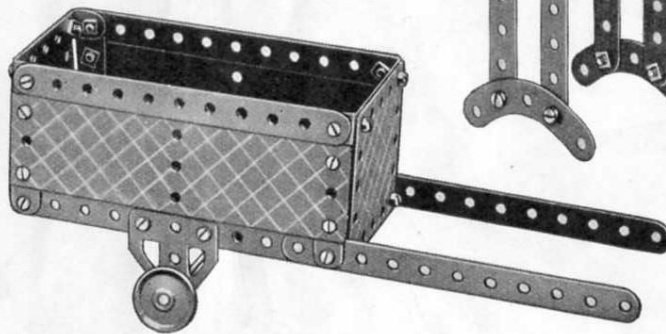
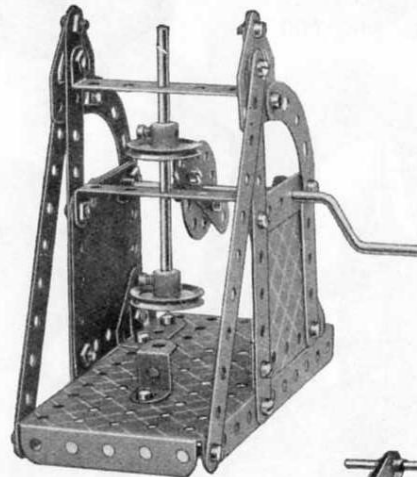
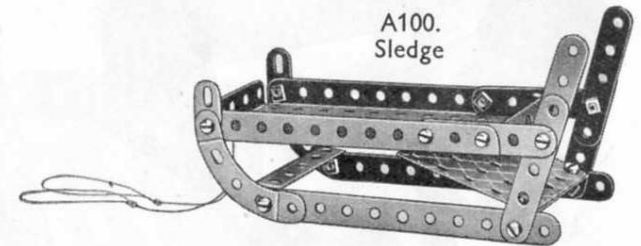
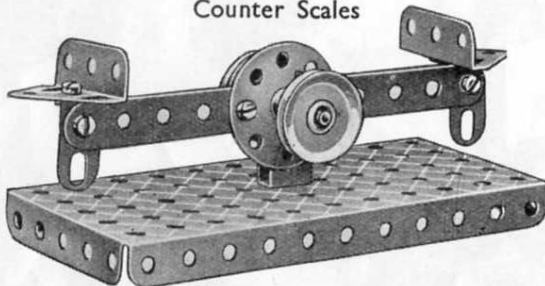
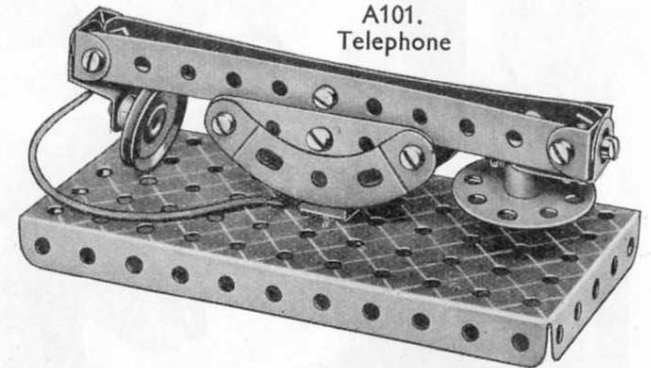
A98. Chair



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.

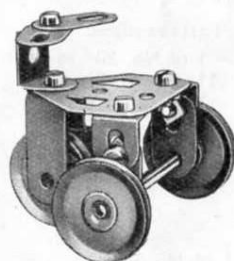
B1. Man and Boy



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

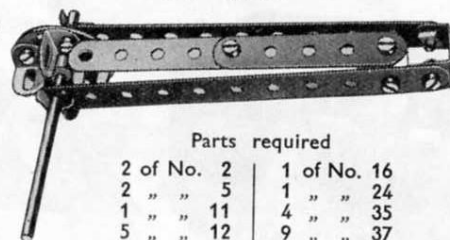
B4. Tricycle



Parts required

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

B7. Rattle



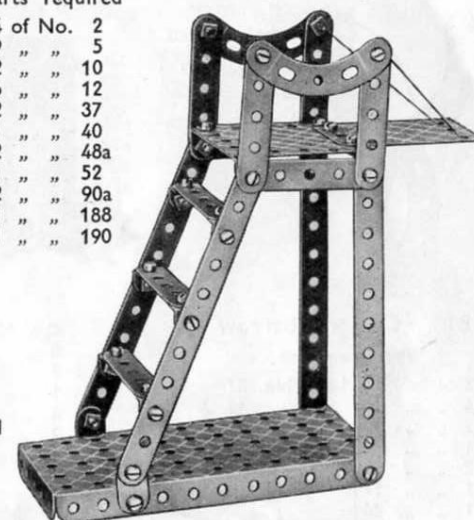
Parts required

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

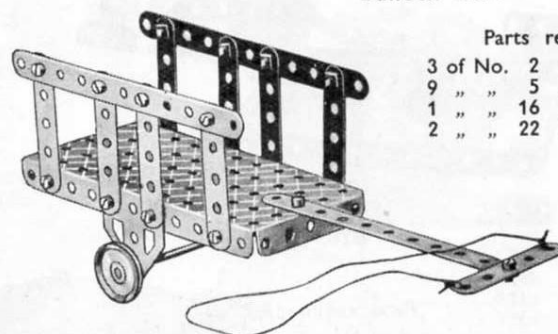
B9. High Diving Board

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



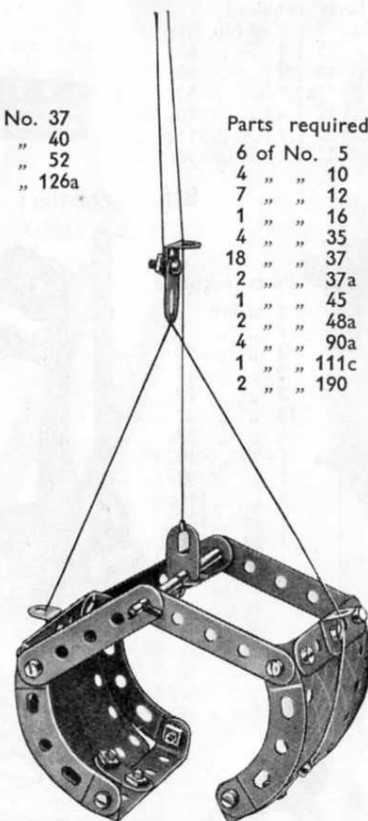
B5. Bullock Cart



Parts required

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

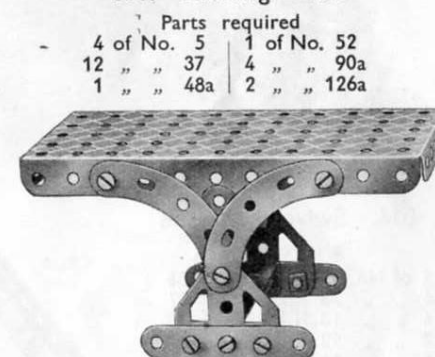
B8. Crane Grab



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



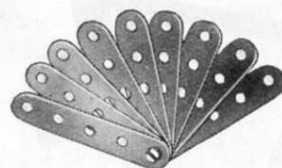
Parts required

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

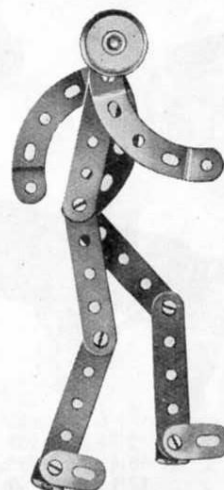
B2. Fan

Parts required

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



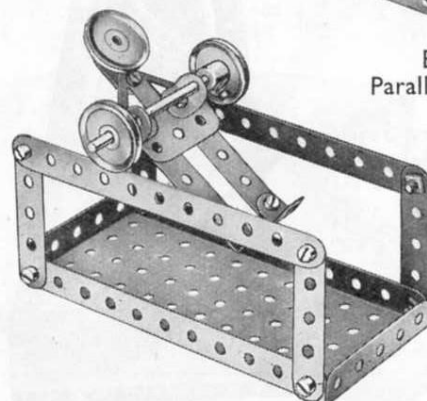
B6. Walking Man



Parts required

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

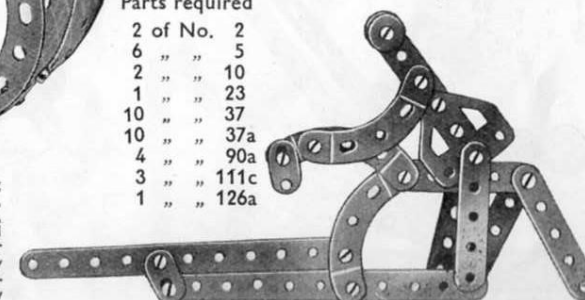
B3. Parallel Bars



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



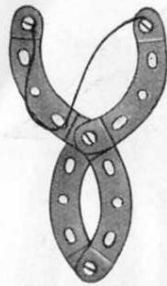
Parts required

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

The $\frac{3}{16}$ " Bolts used for connecting the $\frac{5}{16}$ " Strips, the horse's legs, and the rider's legs and arms, are all locknotted (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.

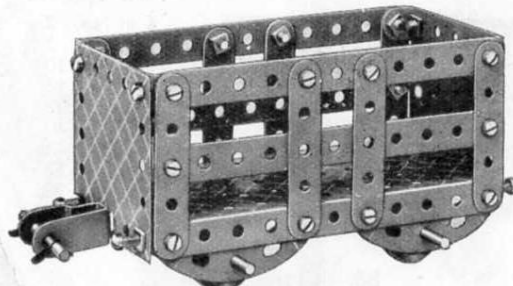
These Models can be built with **MECCANO** Outfit B (or Outfits A and Aa)

B12. Catapult



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

B15. Cattle Truck



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

B18. Single Sheave Pulley Block

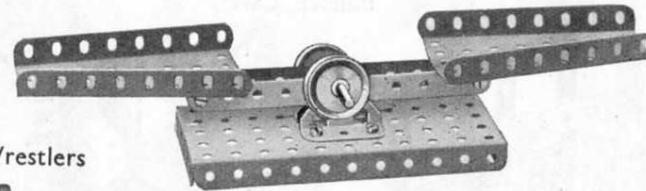


Parts required
1 of No. 23
11 " " 37a
1 " " 57c
4 " " 111c
2 " " 126a

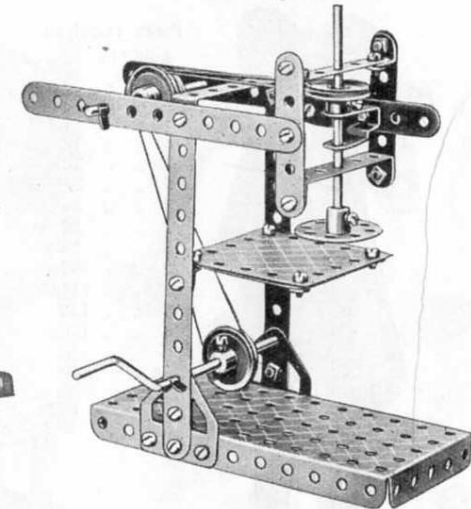
B19. Scales

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



B21. Drilling Machine



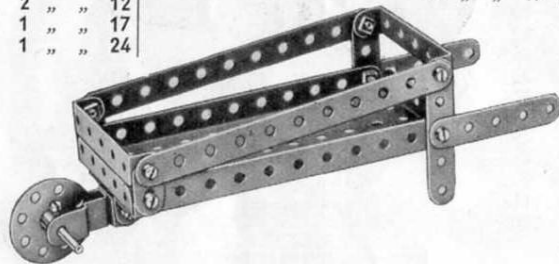
Parts required

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

B13. Coster's Barrow

Parts required

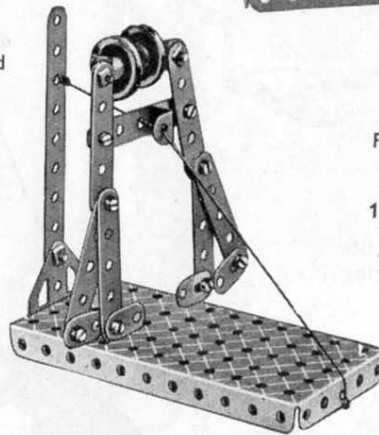
2 of No. 2	13 of No. 37
4 " " 5	1 " " 45
2 " " 10	2 " " 48a
1 " " 11	1 " " 52
2 " " 12	
1 " " 17	
1 " " 24	



B16. Wrestlers

Parts required

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



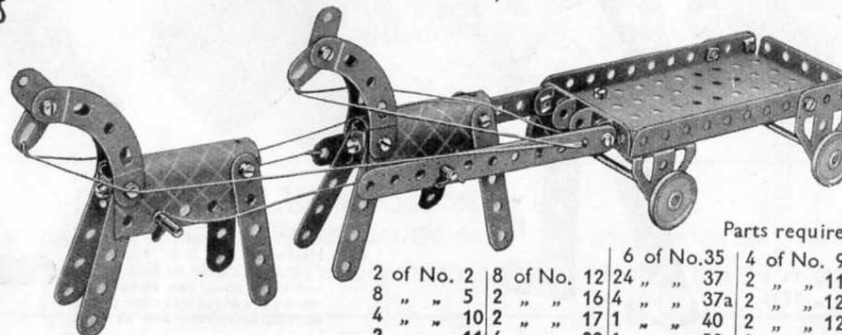
B20. Card Table

Parts required

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



B17. Hay Cart



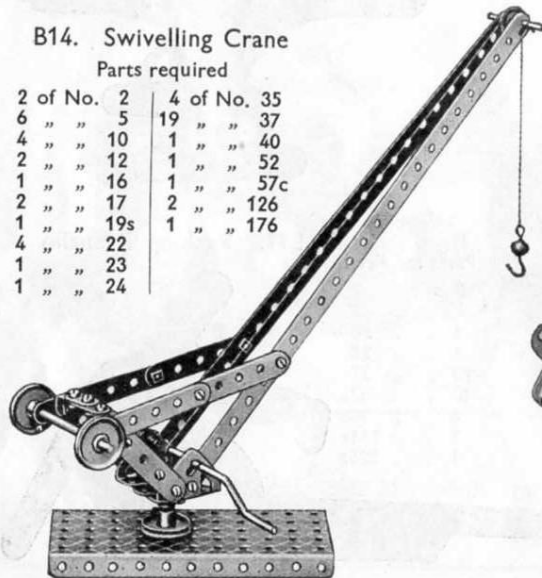
Parts required

2 of No. 2	8 of No. 12	24 of No. 35	4 of No. 90a
8 " " 5	2 " " 16	4 " " 37	2 " " 111c
4 " " 10	2 " " 17	1 " " 37a	2 " " 126
2 " " 11	4 " " 22	1 " " 40	2 " " 126a
		1 " " 52	2 " " 190

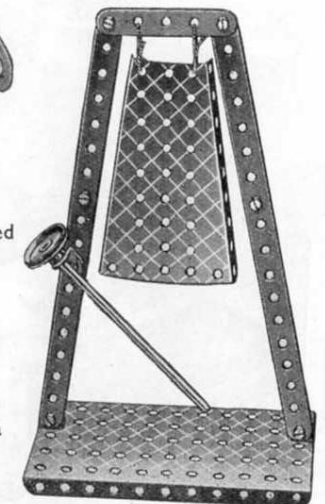
B14. Swivelling Crane

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	



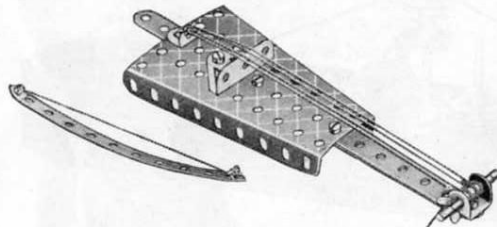
B22. Gong



Parts required

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

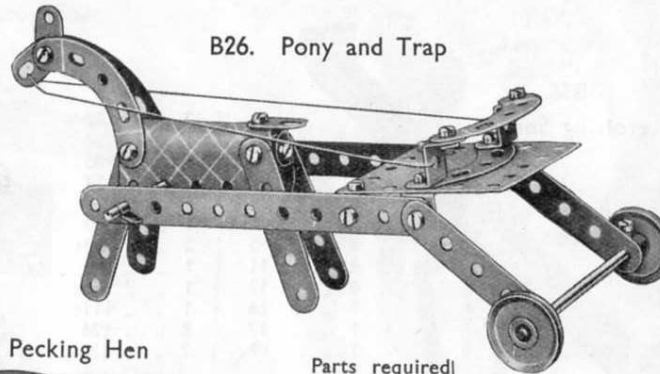
B23. Violin and Bow



Parts required

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

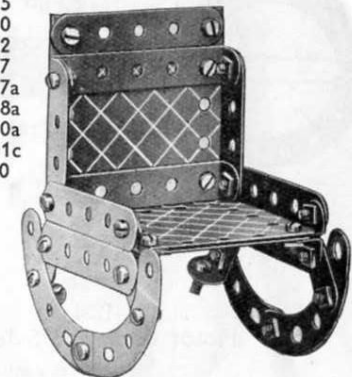
B26. Pony and Trap



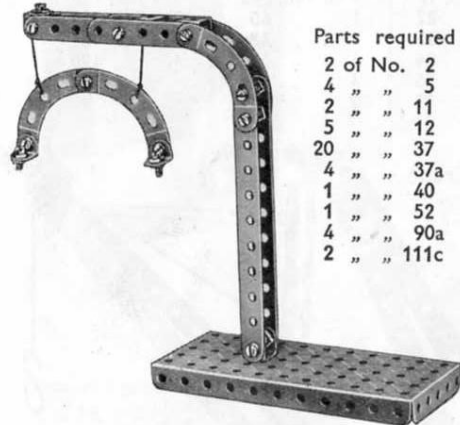
Parts required

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

B30. Rocking Chair



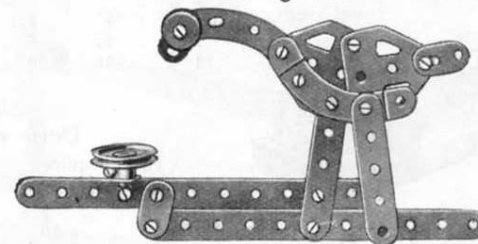
B24. Loading Gauge



Parts required

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

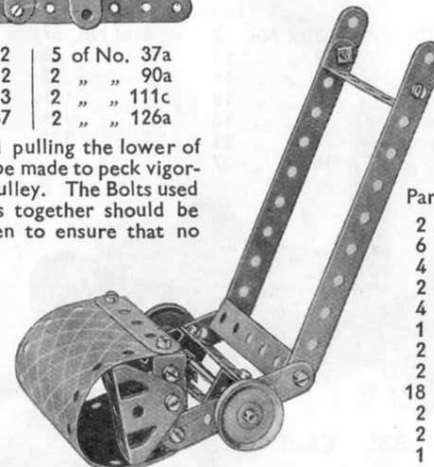
B27. Pecking Hen



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

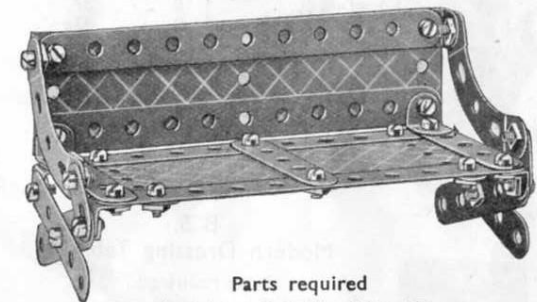
B28. Grass Cutter



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



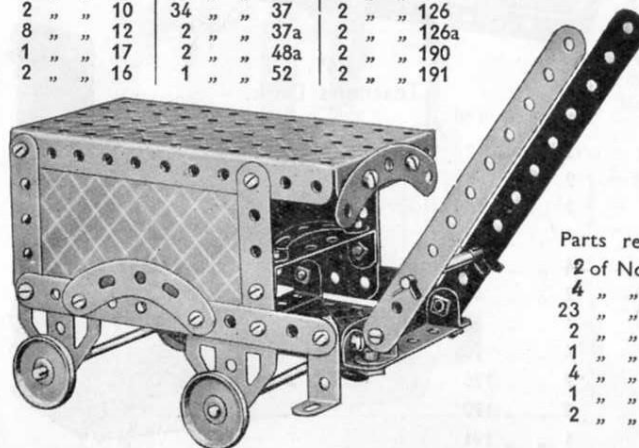
Parts required

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

B25. Bread Van

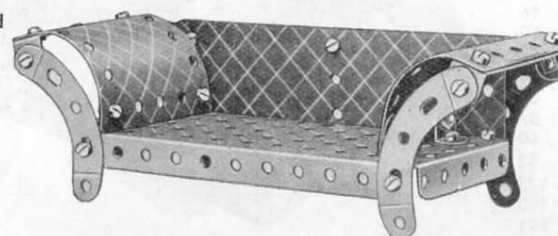
Parts required

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 $5\frac{1}{2}$ in. Strips, the hen can be made to peck vigorously at the "bowl," a 1in. Pulley. The Bolts used for securing the $5\frac{1}{2}$ in. Strips together should be locknutted, care being taken to ensure that no "side play" is permitted.

B29. Couch



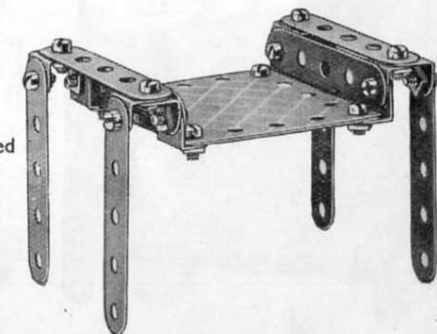
Parts required

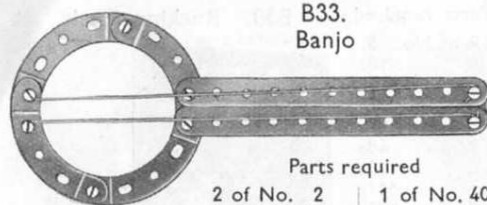
2 of No. 2
4 " " 12
23 " " 37
2 " " 48a
1 " " 52
4 " " 90a
1 " " 189
2 " " 190

Parts required

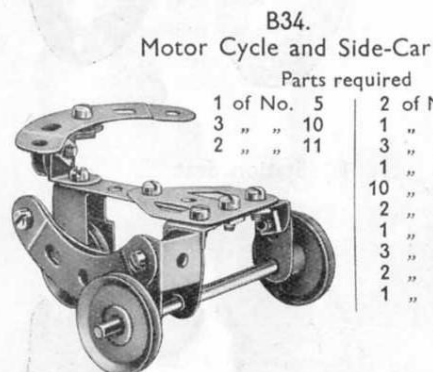
9 of No. 5
8 " " 12
16 " " 37
2 " " 125
1 " " 190

B32. Stool for Dressing Table

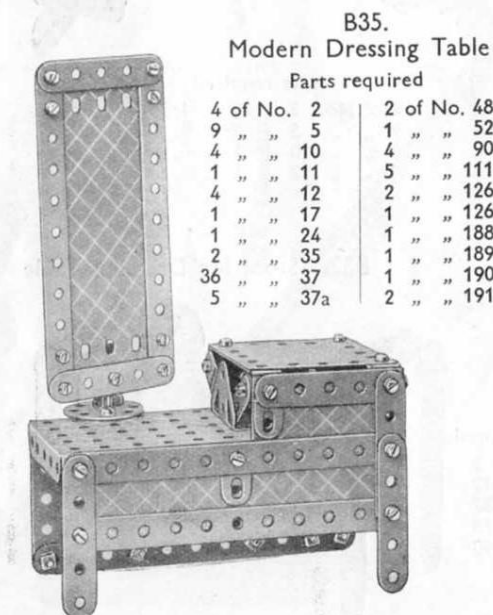


B33.
Banjo

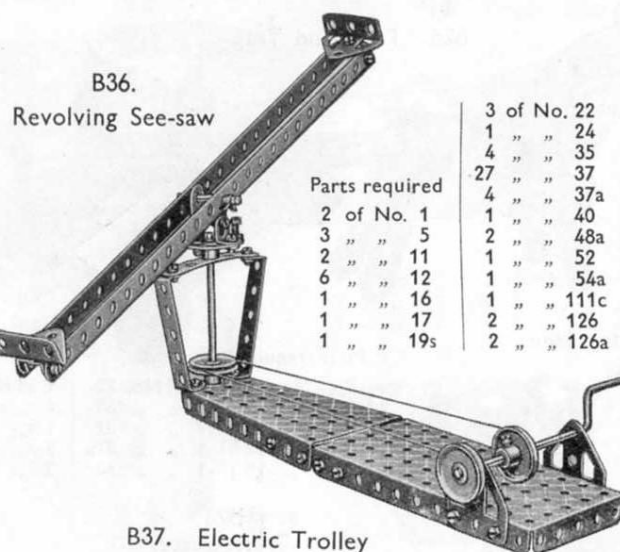
Parts required			
2 of No.	2	1 of No.	40
1 "	10	4 "	90a
8 "	37		

B34.
Motor Cycle and Side-Car

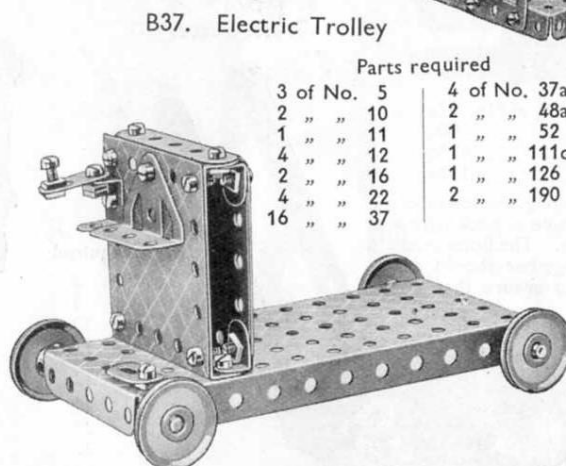
Parts required			
1 of No.	5	2 of No.	12
3 "	10	1 "	16
2 "	11	3 "	22
		1 "	23
		10 "	37
		2 "	37a
		1 "	44
		3 "	90a
		2 "	111c
		1 "	126a

B35.
Modern Dressing Table

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

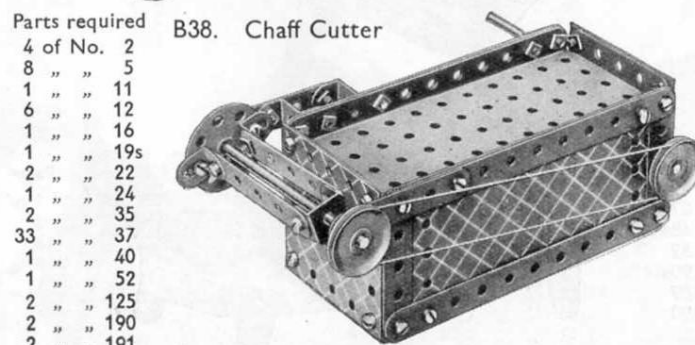
B36.
Revolving See-saw

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



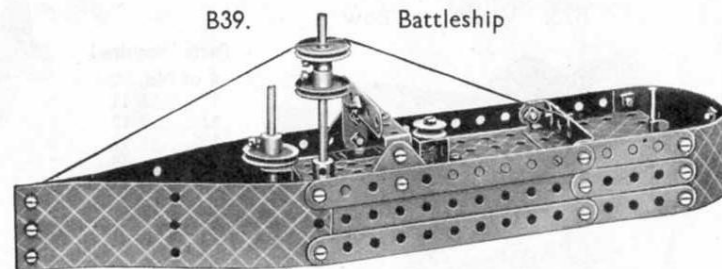
B37. Electric Trolley

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



B38. Chaff Cutter

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



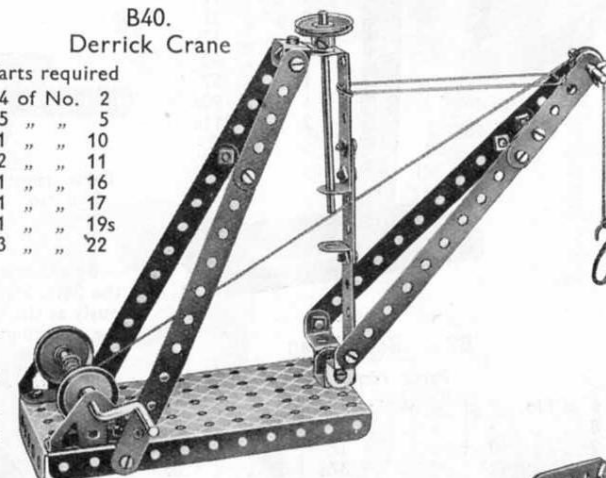
B39. Battleship

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

B40.
Derrick Crane

Parts required	
4 of No.	2
5 "	5
1 "	10
2 "	11
1 "	16
1 "	17
1 "	19s
3 "	22

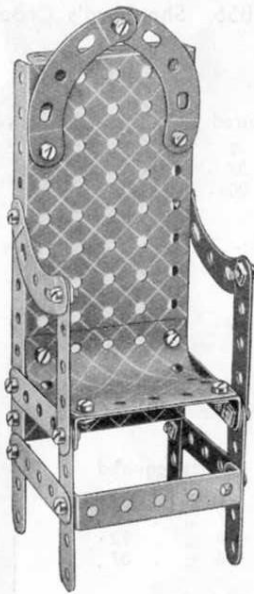
1 of No.	23
2 "	35
22 "	37
2 "	37a
1 "	40
2 "	48a
1 "	52
1 "	57c
1 "	111c
2 "	125
2 "	126
1 "	176

B41.
Teacher's Desk.

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



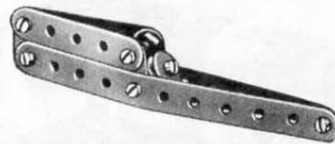
B42. Arm Chair



Parts required

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

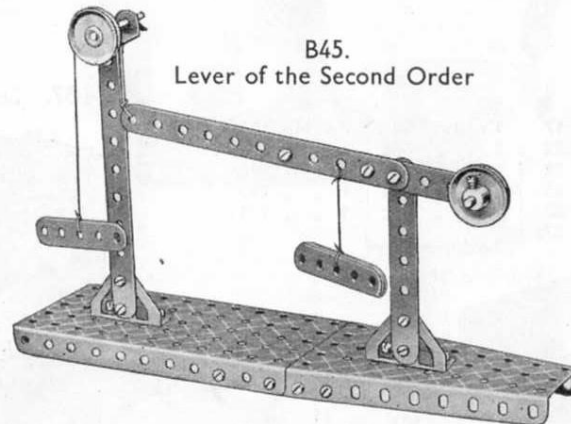
B44. Motor Boat



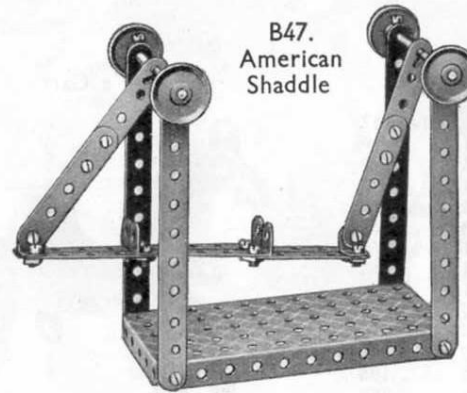
Parts required

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



B47. American Shaddle

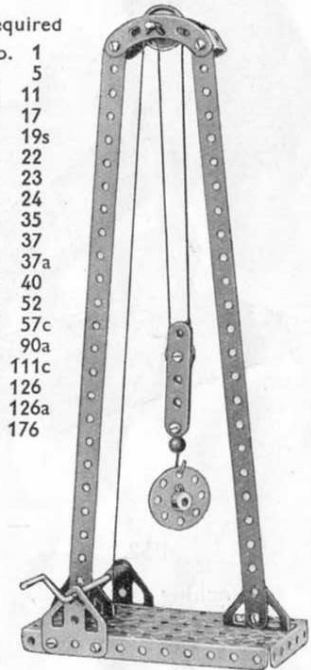


4	of No.	2	4	of No.	22
9	"	5	18	"	35
2	"	10	2	"	37
2	"	12	2	"	37a
2	"	16	1	"	48a
			1	"	52

B49. Pulley Block

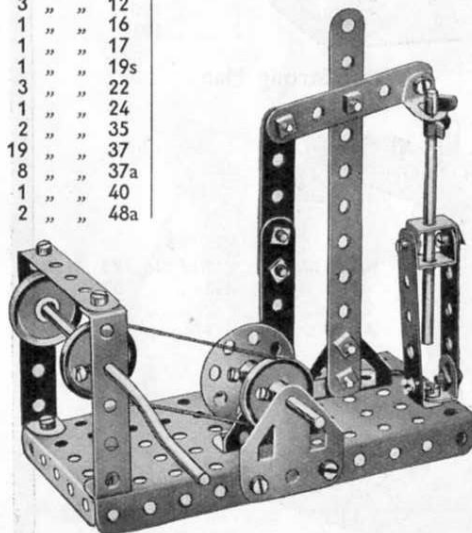
Parts required

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



B43. Pump

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



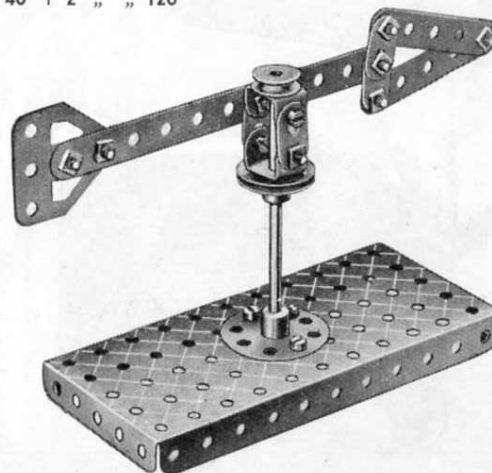
Parts required

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

B46. Weather Vane

Parts required

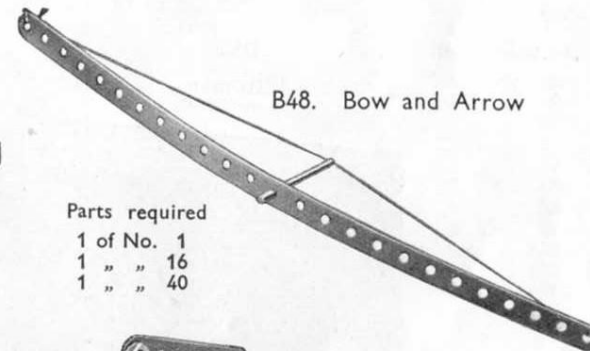
1	of No.	2
2	"	5
4	"	10
2	"	11
1	"	16
1	"	22
1	"	23
1	"	24
12	"	37
1	"	52
1	"	126a



B48. Bow and Arrow

Parts required

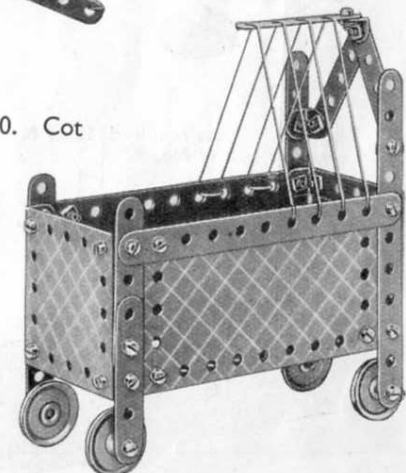
1	of No.	1
1	"	16
1	"	40



B50. Cot

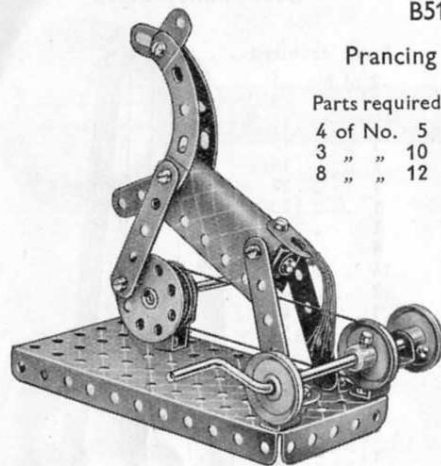
Parts required

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.

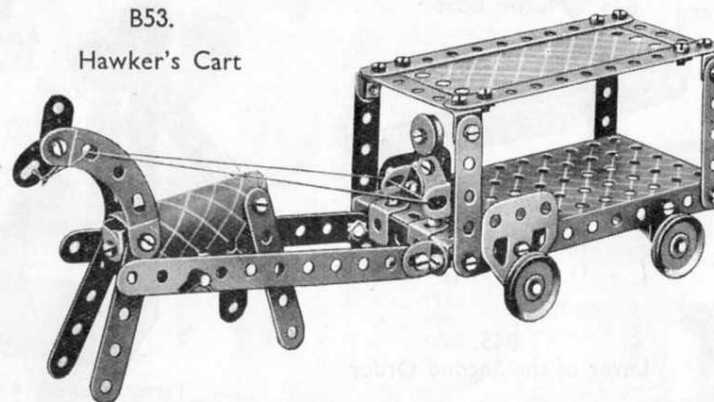
Prancing Horse



Parts required	1 of No.	17
4 of No.	5	19s
3 " "	10	22
8 " "	12	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



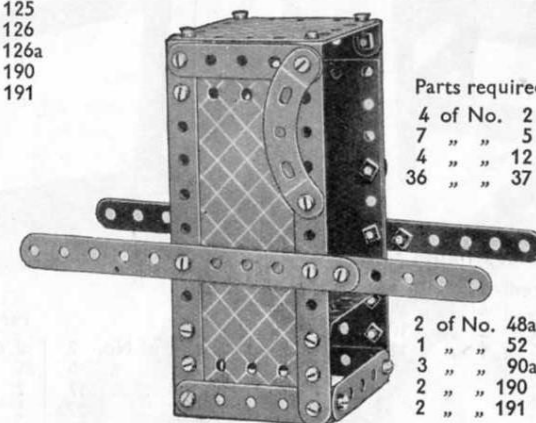
Parts required	1 of No.	17	1 of No.	40	2 of No.	125	
4 of No.	2	4 " "	22	2 " "	48a	2 " "	126
8 " "	5	1 " "	23	1 " "	52	2 " "	126a
4 " "	10	4 " "	35	2 " "	90a	1 " "	190
8 " "	12	35 " "	37	2 " "	111c	1 " "	191
2 " "	16	4 " "	37a				

B56. Shepherd's Crook

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



B57. Sedan Chair

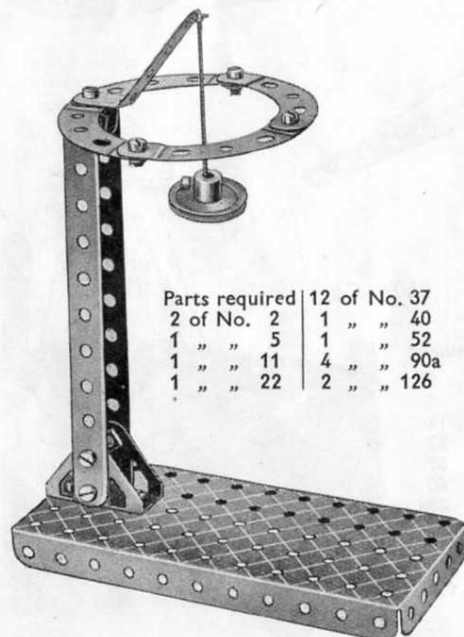


Parts required	4 of No.	2
7 " "	5	
4 " "	12	
36 " "	37	

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

B52.

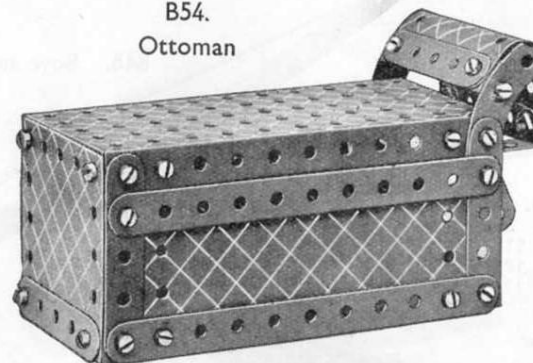
Punching Bag Stand



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

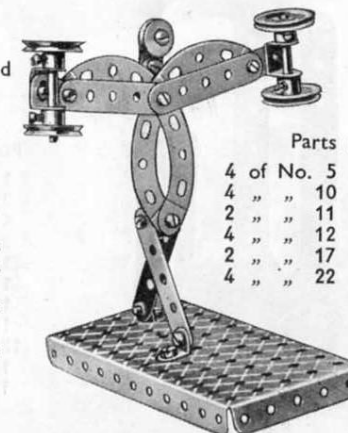
B54.

Ottoman



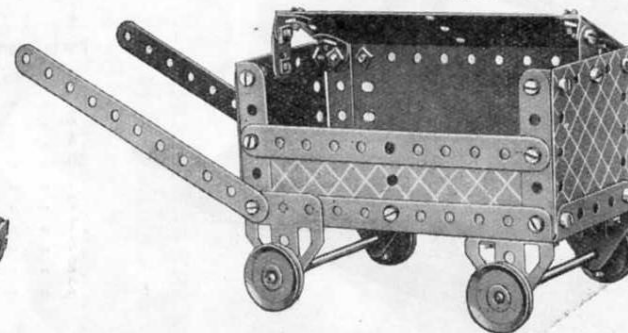
Parts required	4 of No.	2
7 " "	5	
2 " "	10	
2 " "	11	
4 " "	12	
34 " "	37	
1 " "	48a	
1 " "	52	
2 " "	90a	
2 " "	190	
2 " "	191	

B58. Strong Man



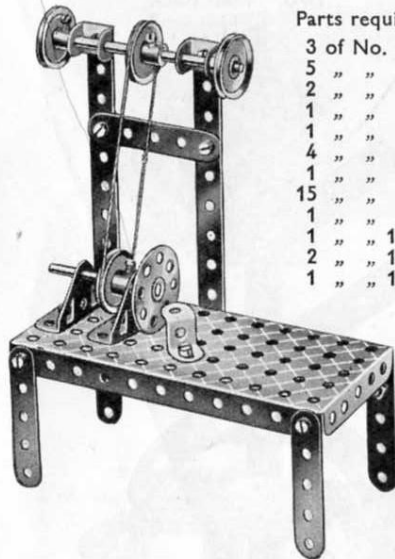
Parts required			
4 of No. 5	1 of No. 23		
4 " " 10	12 " " 37		
2 " " 11	2 " " 37a		
4 " " 12	1 " " 52		
2 " " 17	4 " " 90a		
4 " " 22	2 " " 111c		

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	

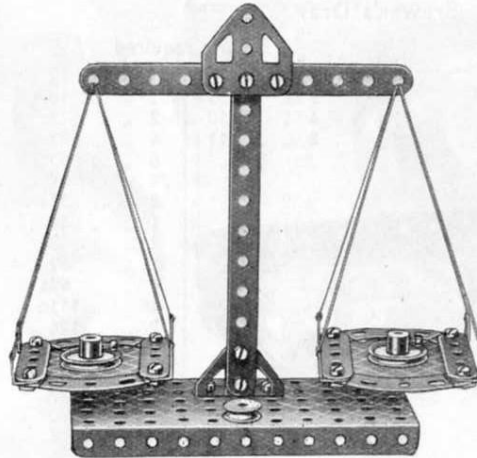
B59. Bench Lathe



Parts required

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

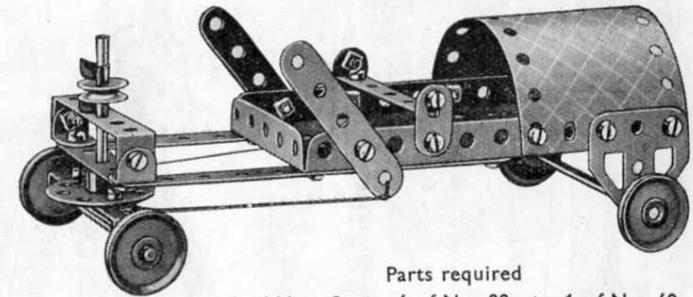
B62. Counter Scales



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

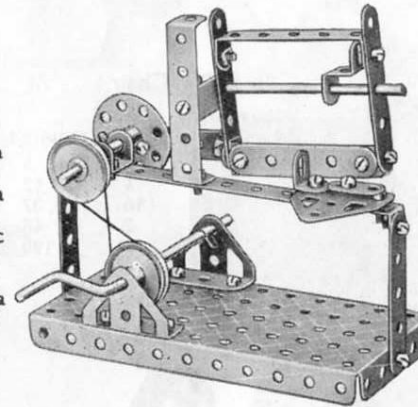
B65. Coaster



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



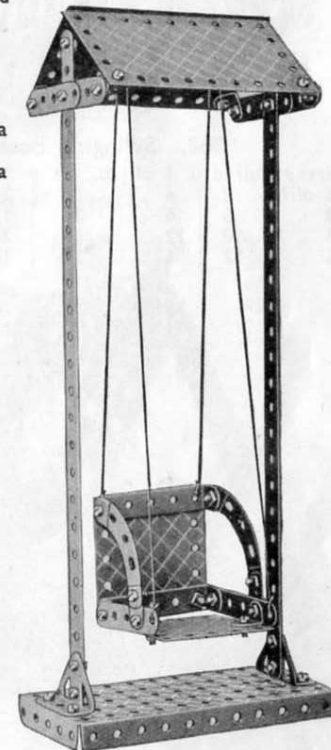
Parts required

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

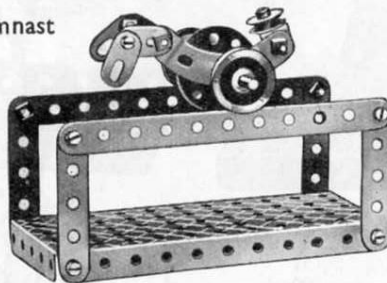
4 of No.	2
8 "	5
8 "	12
33 "	37
1 "	40
2 "	48a
1 "	52
2 "	90a
2 "	126
2 "	190
2 "	191



B60. Gymnast

Parts required

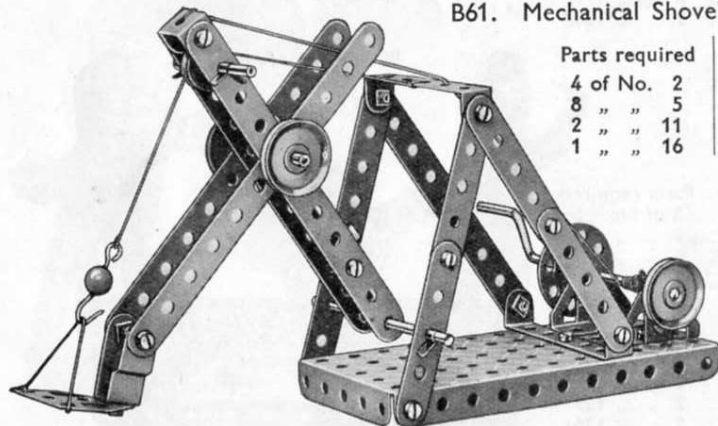
2 of No.	2	1 of No.	24
4 "	5	13 "	37
4 "	10	1 "	37a
1 "	12	1 "	52
1 "	16	1 "	90a
2 "	22	1 "	111c
1 "	23		



B61. Mechanical Shovel

Parts required

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

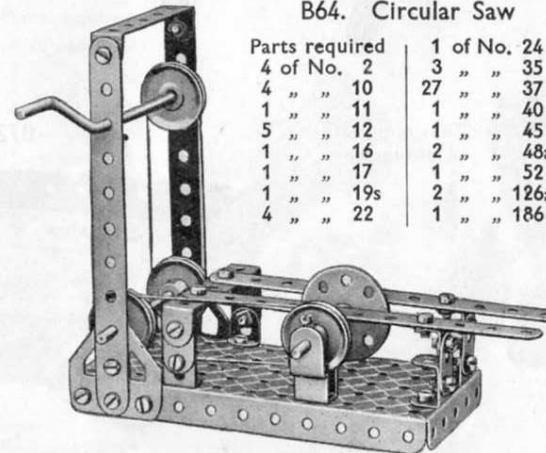


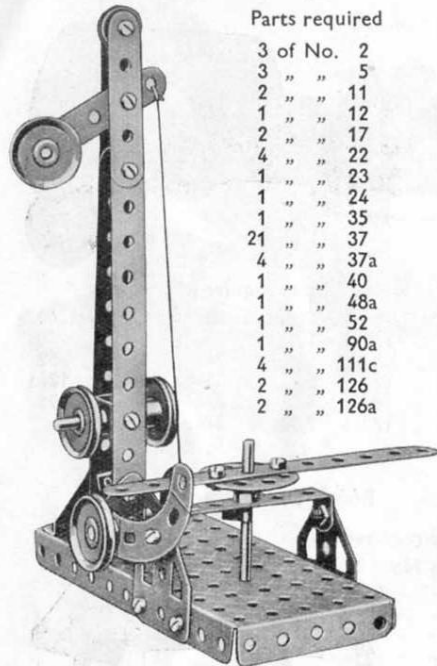
2 of No.	17
1 "	19s
3 "	22
1 "	23
1 "	24
5 "	35
20 "	37
1 "	40
1 "	45
2 "	48a
1 "	52
1 "	57c
2 "	126
1 "	126a
1 "	176

B64. Circular Saw

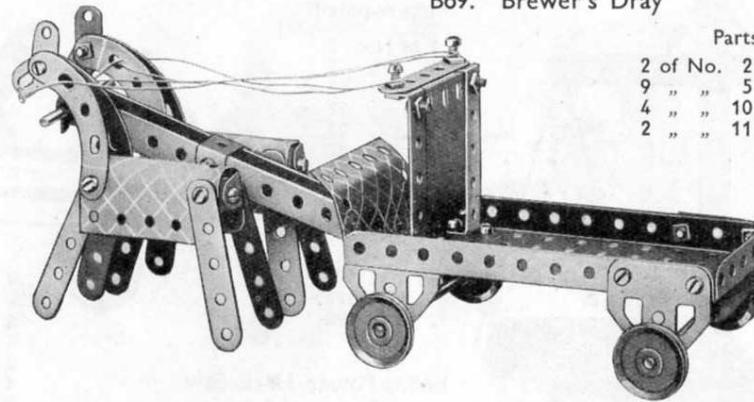
Parts required

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

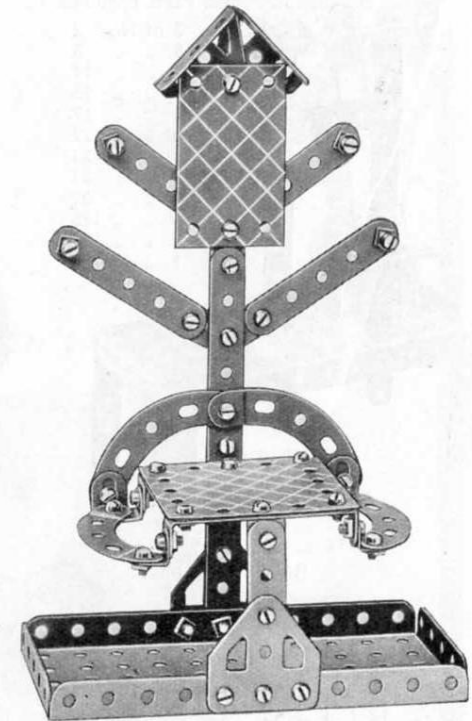


B67. Automatic Signals**Parts required**

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

B69. Brewer's Dray**Parts required**

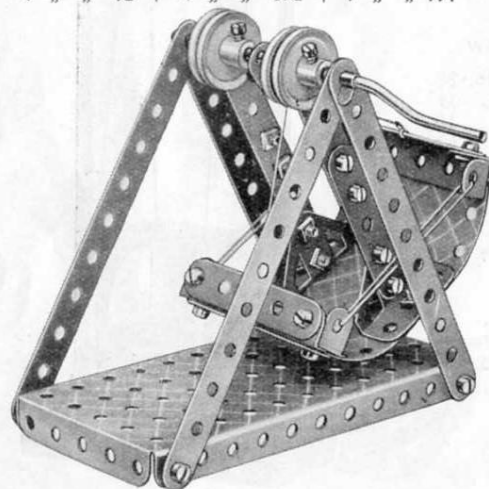
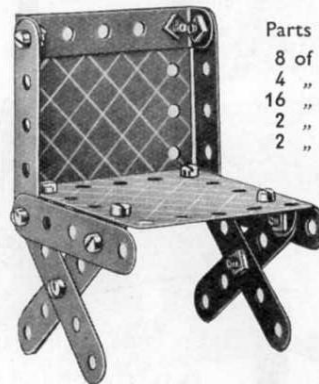
2 of No.	2	8 of No.	12
9 " "	5	2 " "	16
4 " "	10	2 " "	17
2 " "	11	4 " "	22
		6 " "	35
		29 " "	37
		8 " "	37a
		1 " "	40
		2 " "	48a
		1 " "	52
		4 " "	90a
		4 " "	111c
		2 " "	126
		2 " "	126a
		2 " "	190
		1 " "	191

B73. Hat Rack**Parts required**

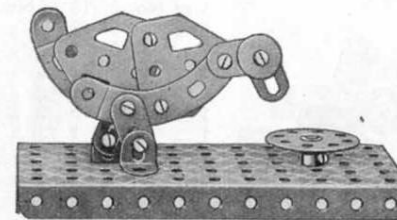
2 of No.	2	8 of No.	37a	2 of No.	126
9 " "	5	2 " "	48a	2 " "	126a
2 " "	10	1 " "	52	1 " "	188
8 " "	12	4 " "	90a	1 " "	190
34 " "	37	4 " "	111c		

B68. Swinging Boat

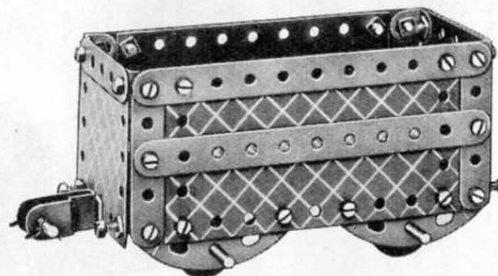
Parts required	1 of No.	19s	1 of No.	40	
4 of No.	2	4 " "	22	2 " "	48a
8 " "	5	6 " "	35	1 " "	52
1 " "	10	22 " "	37	2 " "	126
4 " "	12	4 " "	37a	1 " "	191

**B70. Chair****Parts required**

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

B71. Goose**Parts required**

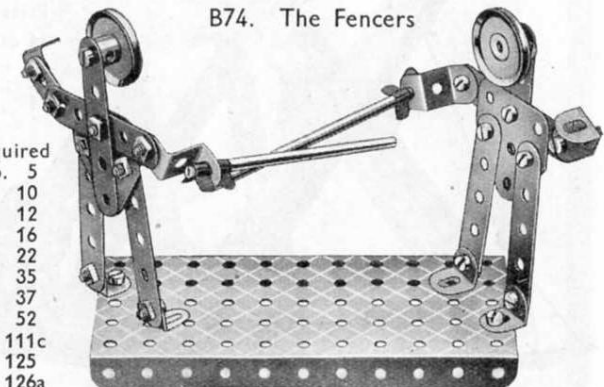
4 of No.	10	2 of No.	37a
2 " "	12	1 " "	52
1 " "	23	2 " "	90a
1 " "	24	3 " "	111c
6 " "	37	2 " "	126a

B72. Cattle Truck**Parts required**

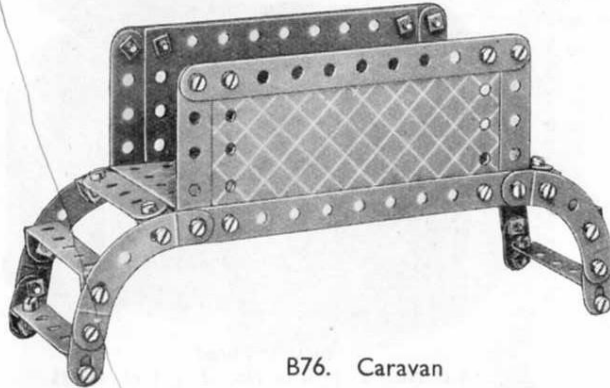
4 of No.	2
6 " "	5
4 " "	12
2 " "	16
1 " "	17
1 " "	22
2 " "	35
29 " "	37
9 " "	37a
1 " "	45
1 " "	52
4 " "	90a
4 " "	111c
2 " "	190
2 " "	191

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

B74. The Fencers

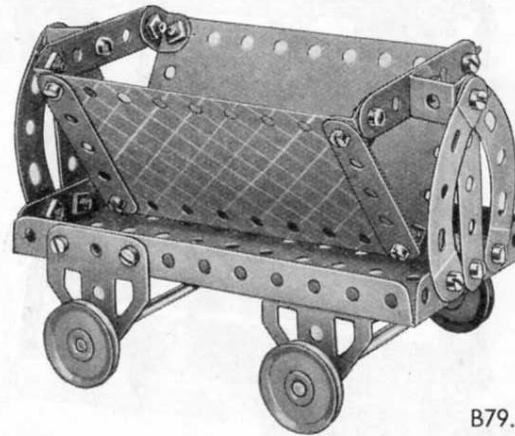
B75. Footbridge



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

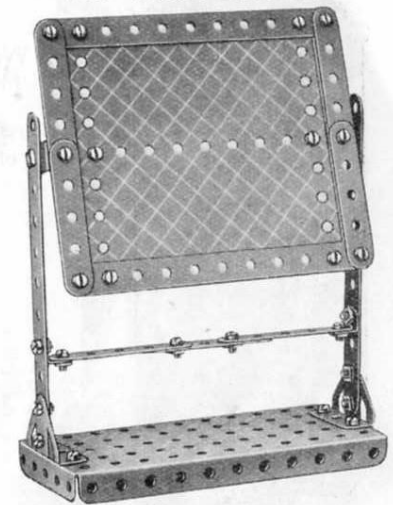
B78. Dump Car



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



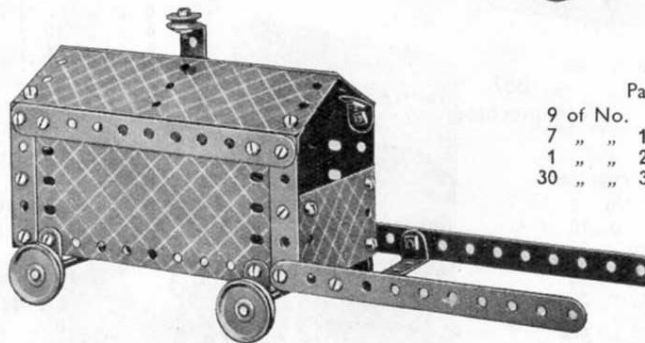
Parts required

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

B76. Caravan

Parts required

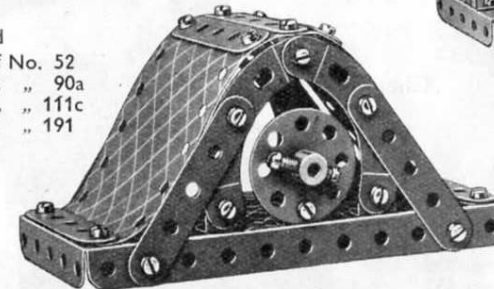
4 of No.	2	5 of No.	37a
4 "	5	1 "	48a
4 "	10	1 "	52
8 "	12	1 "	111c
2 "	16	1 "	125
4 "	22	2 "	188
1 "	23	2 "	189
35 "	37	2 "	191



Parts required

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

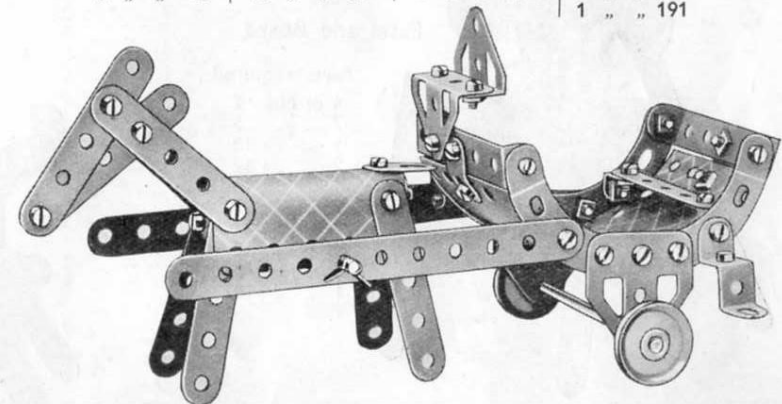
B79. Clock



B82. Two-wheeled Trap

Parts required

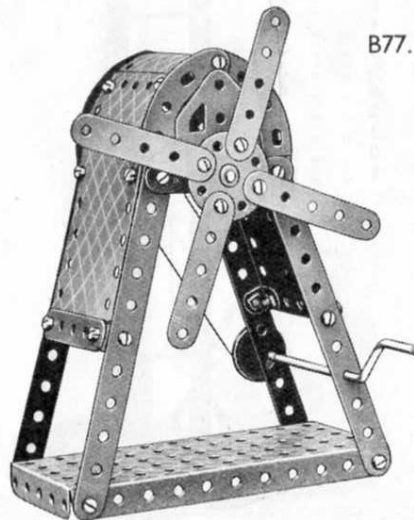
2 of No.	2	2 of No.	16	1 of No.	37a	2 of No.	125
9 "	5	2 "	22	2 "	48a	2 "	126
3 "	10	4 "	35	4 "	90a	2 "	126a
8 "	12	35 "	37	1 "	111c	1 "	190
						1 "	191



B77. Windmill

Parts required

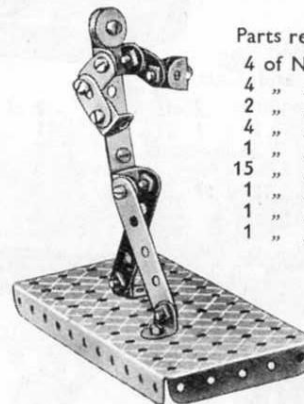
4 of No.	2
8 "	5
4 "	10
4 "	12
4 "	16
1 "	19s
1 "	22
1 "	24
1 "	35
36 "	37
2 "	37a
2 "	48a
1 "	52
4 "	90a
2 "	111c
2 "	126a
1 "	186
1 "	190
2 "	191

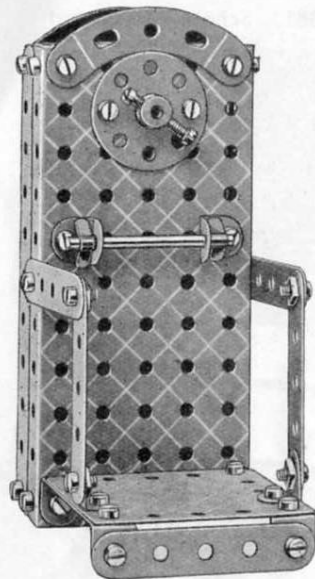


B80. Boxer

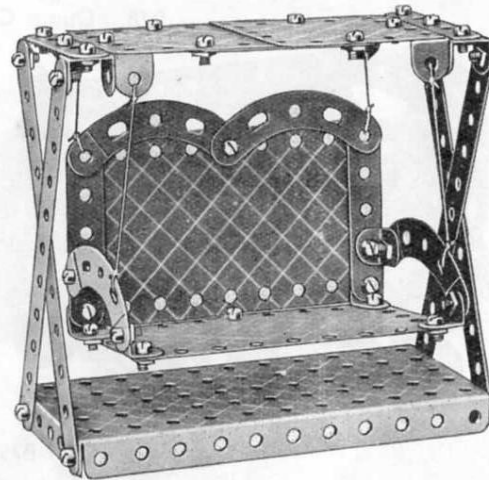
Parts required

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

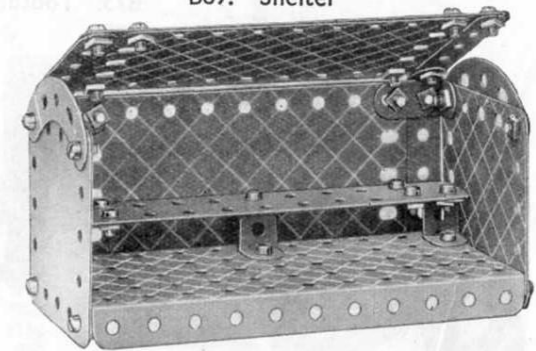


**B83.****Weighing Machine****Parts required**

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**

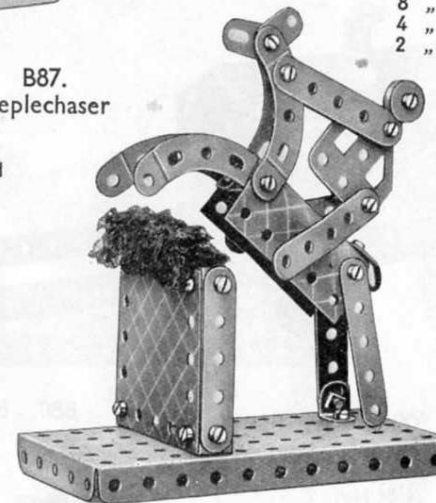
4 of No.	2
8 "	5
2 "	11
8 "	12
34 "	37
1 "	40
2 "	48a
1 "	52
4 "	90a
2 "	126a
2 "	190
2 "	191

**B89. Shelter****Parts required**

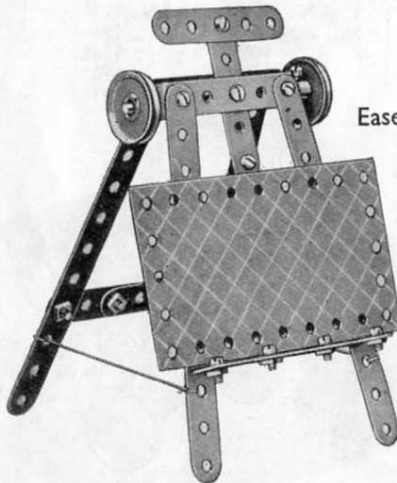
4 of No.	2	4 of No.	12	1 of No.	125
8 "	5	34 "	37	2 "	190
4 "	10	1 "	52	2 "	191
2 "	11	2 "	90a		

B84.
Chesterfield Chair**Parts required**

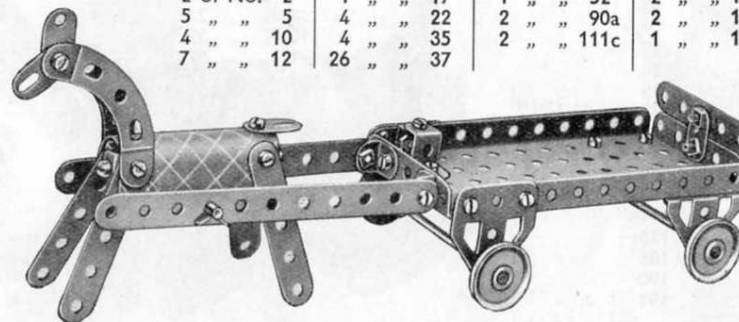
9 of No.	5	2 of No.	48a
2 "	10	2 "	90a
2 "	11	2 "	125
8 "	12	2 "	190
32 "	37	2 "	191

B87.
Steeplechaser**Parts required**

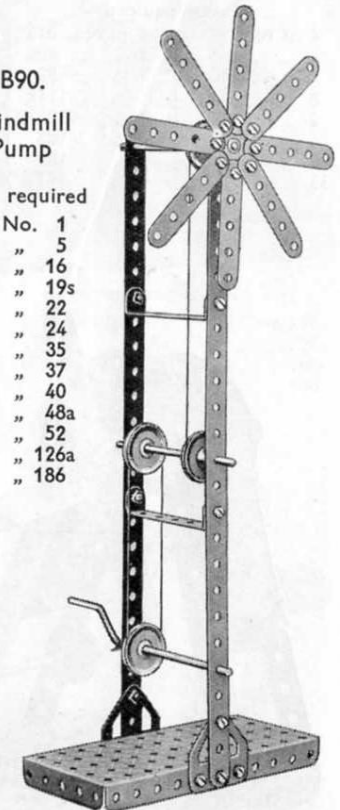
9 of No.	5
4 "	10
7 "	12
1 "	23
20 "	37
8 "	37a
2 "	48a
1 "	52
4 "	90a
4 "	111c
1 "	126a
2 "	190

**B85.****Easel and Board****Parts required**

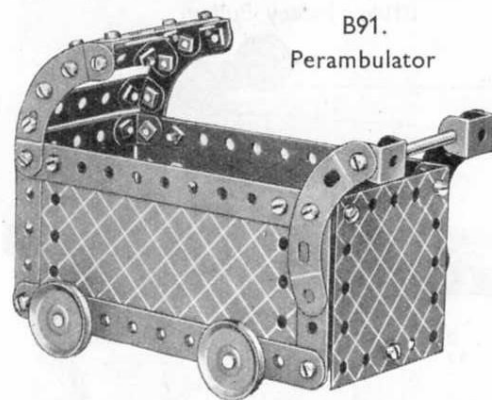
4 of No.	2
7 "	5
1 "	10
2 "	12
1 "	16
2 "	22
20 "	37
1 "	40
2 "	48a
1 "	191

B88.
Horse and Cart**Parts required**

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

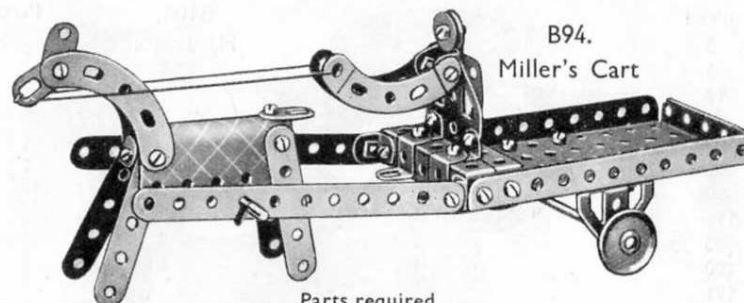
B90.
Windmill Pump**Parts required**

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

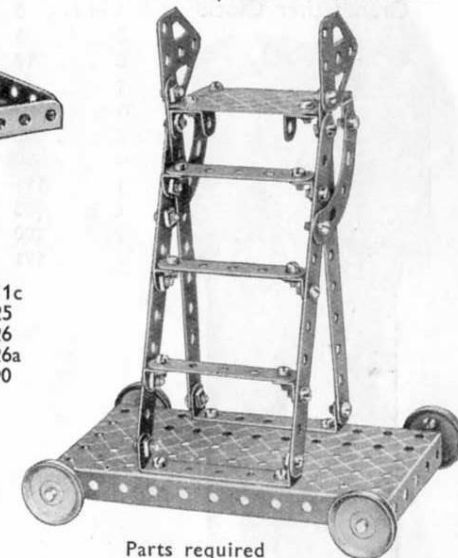
Parts required	
4 of No. 2	2
8 " " 5	5
2 " " 11	11
8 " " 12	12
2 " " 16	16
1 " " 17	17
4 " " 22	22
36 " " 37	37
2 " " 48a	48a
1 " " 52	52
4 " " 90a	90a
2 " " 190	190
2 " " 191	191



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

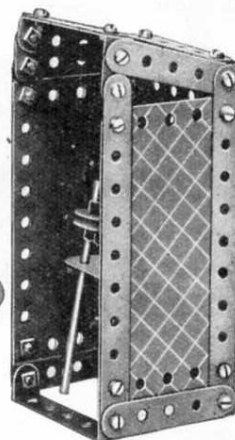
B97. Step Ladder on Wheels



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

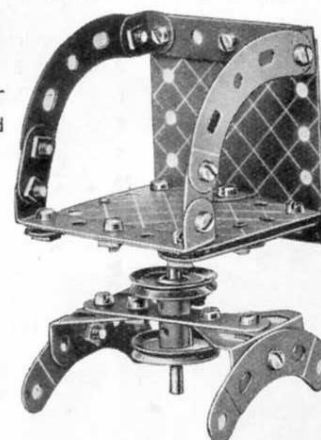
B92.
Watchman's Hut and Fire

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



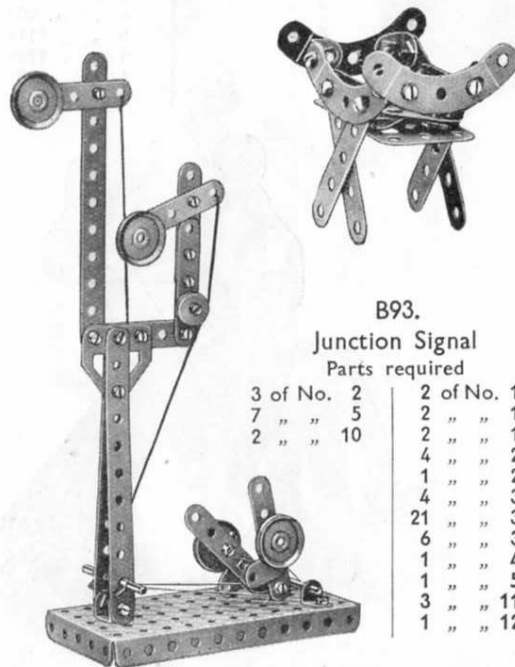
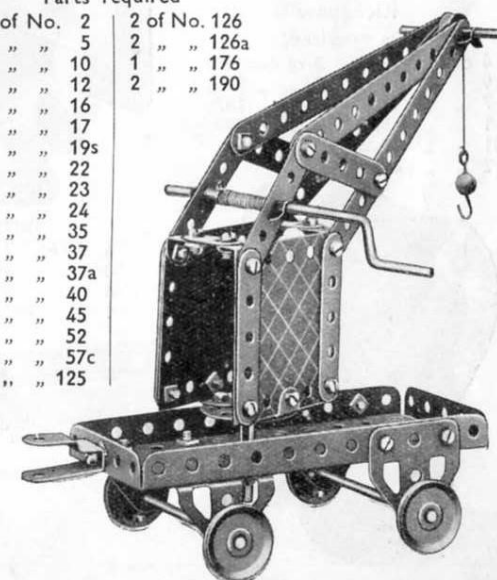
B95.
Revolving Office Chair

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



B98. Breakdown Crane

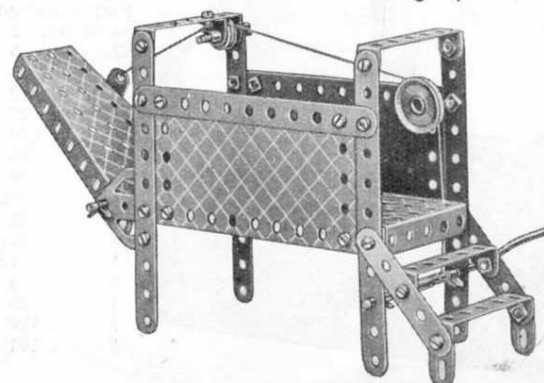
Parts required		
4 of No. 2	2 of No. 126	
8 " " 5	2 " " 126a	
3 " " 10	1 " " 176	
8 " " 12	2 " " 190	
2 " " 16		
2 " " 17		
1 " " 19s		
4 " " 22		
1 " " 23		
1 " " 24		
5 " " 35		
32 " " 37		
1 " " 37a		
1 " " 40		
1 " " 45		
1 " " 52		
1 " " 57c		
1 " " 125		



B93.
Junction Signal

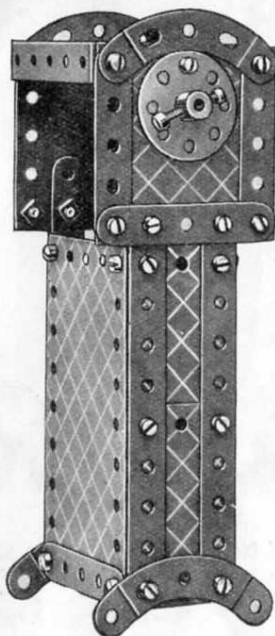
Parts required	
3 of No. 2	2 of No. 11
7 " " 5	2 " " 12
2 " " 10	2 " " 17
	4 " " 22
	1 " " 23
	4 " " 35
	21 " " 37
	6 " " 37a
	1 " " 40
	1 " " 52
	3 " " 111c
	1 " " 126a

B96. Gangway



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

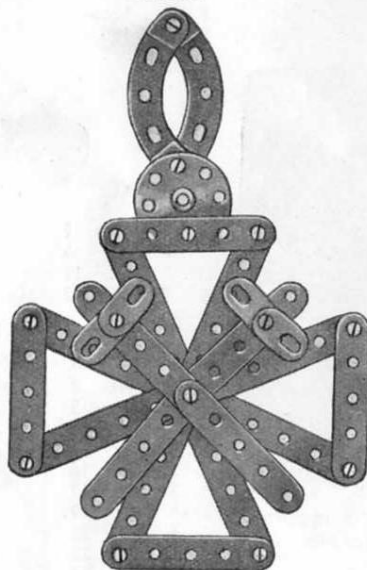
B99.
Grandfather Clock



Parts required

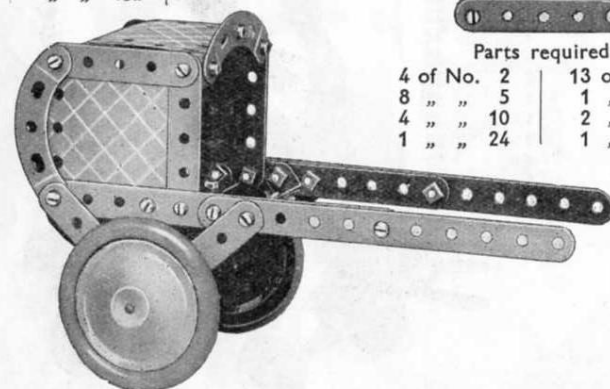
4 of No. 2
8 " " 5
8 " " 12
1 " " 24
31 " " 37
2 " " 48a
4 " " 90a
1 " " 111c
2 " " 188
2 " " 190
2 " " 191

B101.
Medal



Parts required

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

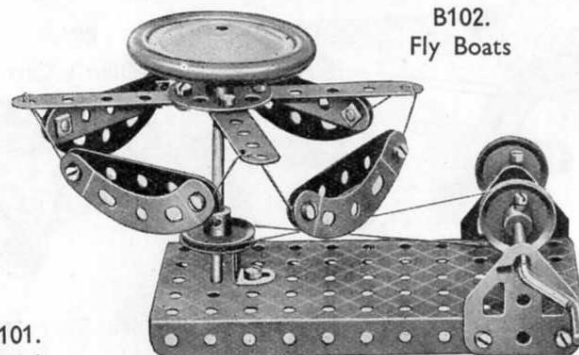


B100.
Rickshaw

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	

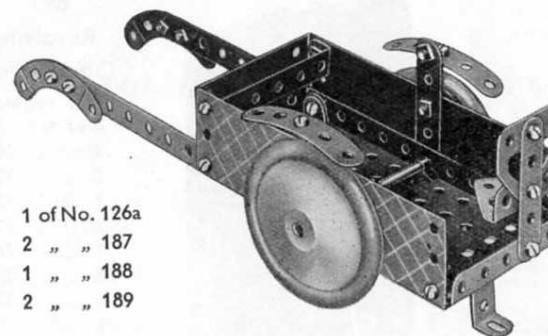
B102.
Fly Boats



Parts required

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

B103. Milk Float

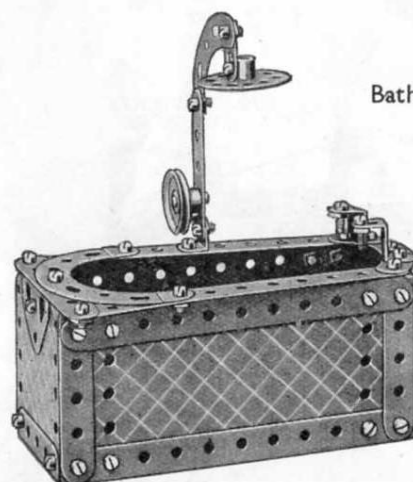


Parts required

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

1 of No. 126a

2 " " 187
1 " " 188
2 " " 189

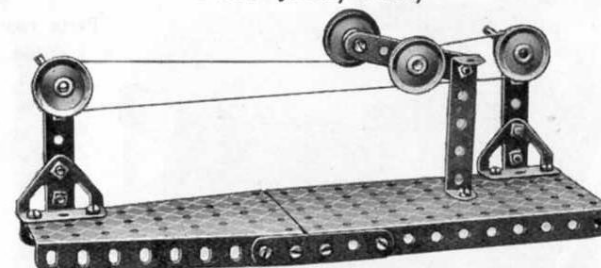


B104.
Bath with Shower

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



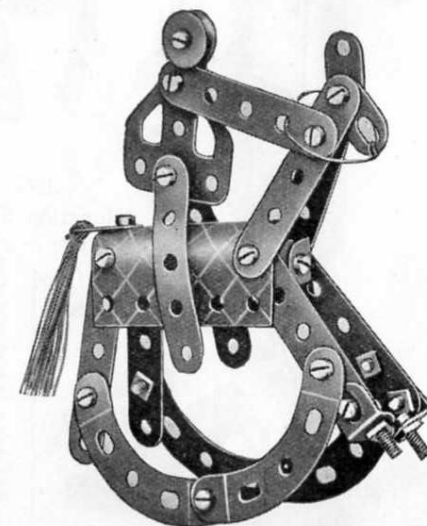
Parts required

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

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

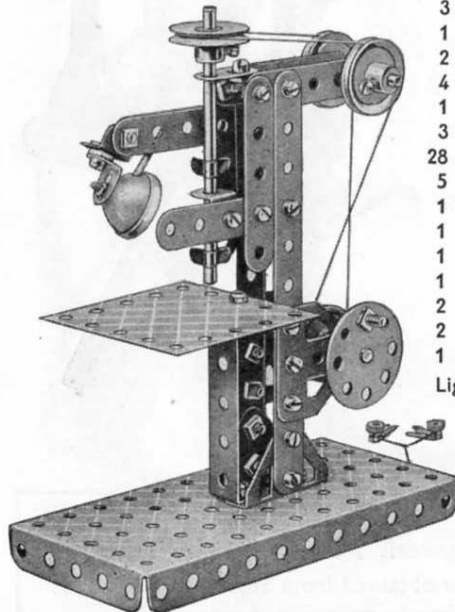


B107.
Coffee Stall

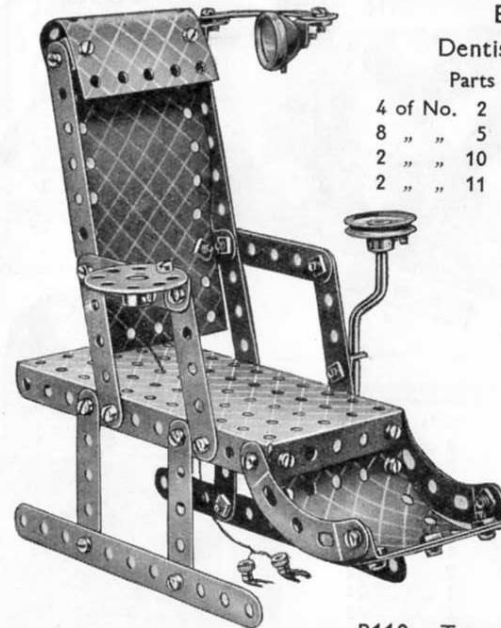


Parts required	
4 of No. 2	
8 " " 5	
4 " " 10	
8 " " 12	
1 " " 22	
35 " " 37	
2 " " 48a	
1 " " 52	
1 " " 111c	
2 " " 188	
2 " " 189	
2 " " 190	
2 " " 191	
Lighting Set	

B108.
Sensitive Drill



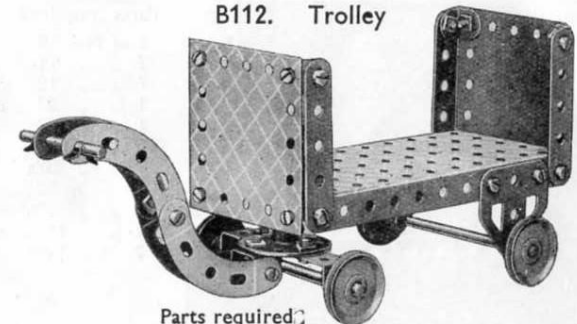
Parts required	
2 of No. 2	
6 " " 5	
2 " " 10	
2 " " 11	
3 " " 12	
1 " " 16	
2 " " 17	
4 " " 22	
1 " " 24	
3 " " 35	
28 " " 37	
5 " " 37a	
1 " " 40	
1 " " 48a	
1 " " 52	
1 " " 111c	
2 " " 126	
2 " " 126a	
1 " " 190	
Lighting Set	



B109.
Dentist's Chair

Parts required	
4 of No. 2	
8 " " 5	
2 " " 10	
2 " " 11	
7 of No. 12	
1 " " 19s	
1 " " 22	
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



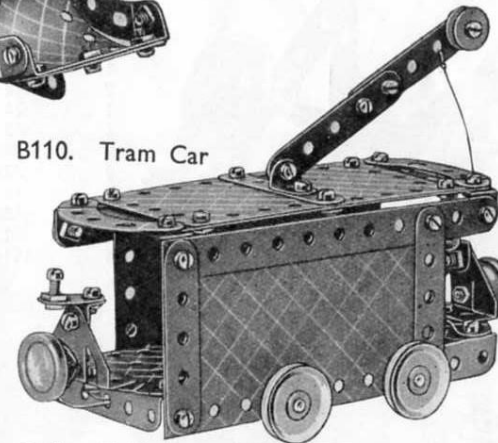
Parts required

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

Parts required

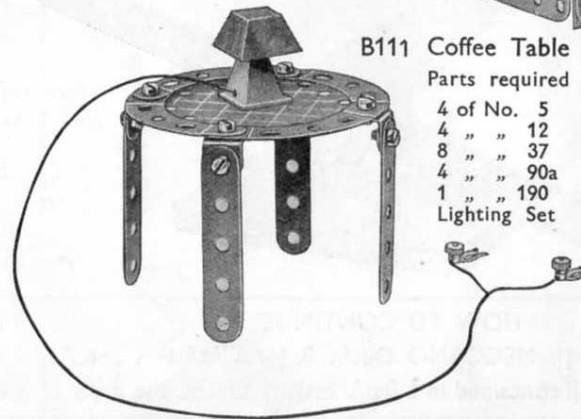
4 of No. 2	1 of No. 40
2 " " 10	2 " " 48a
2 " " 11	1 " " 52
3 " " 12	4 " " 90a
2 " " 16	3 " " 111c
4 " " 22	2 " " 126
1 " " 23	2 " " 190
34 " " 37	2 " " 191
6 " " 37a	Lighting Set

B110. Tram Car



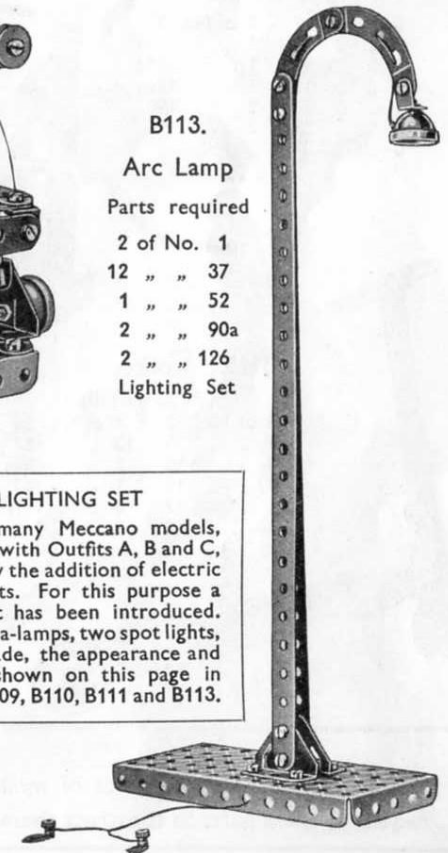
B111 Coffee Table

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.

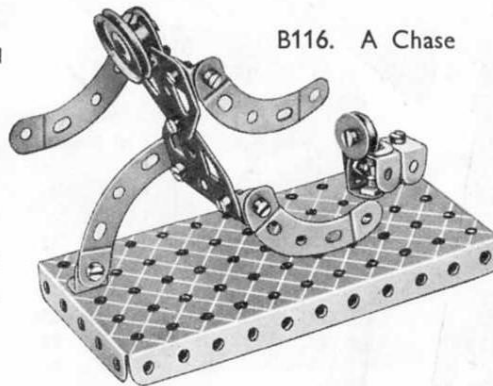
B114. Dressing Table



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

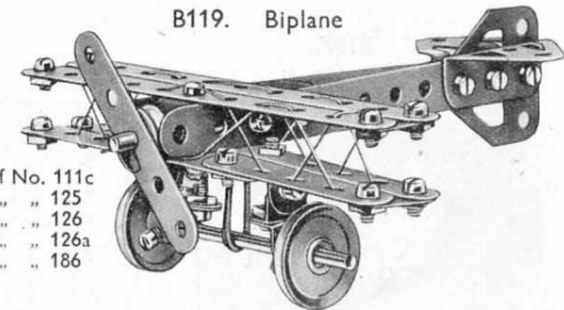
B116. A Chase



Parts required

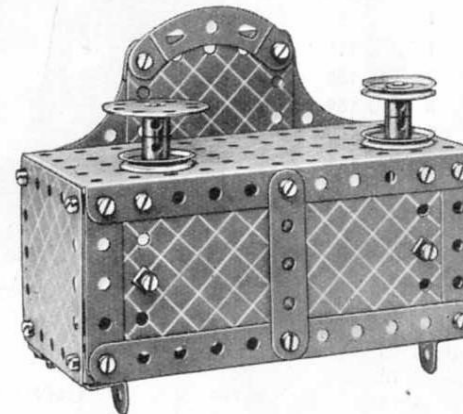
4 of No.	2
6 "	5
4 "	10
2 "	11
4 "	12
2 "	16
2 "	22
1 "	23
2 "	35
22 "	37
3 "	37a
1 "	40

B119. Biplane



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

B120. Sideboard

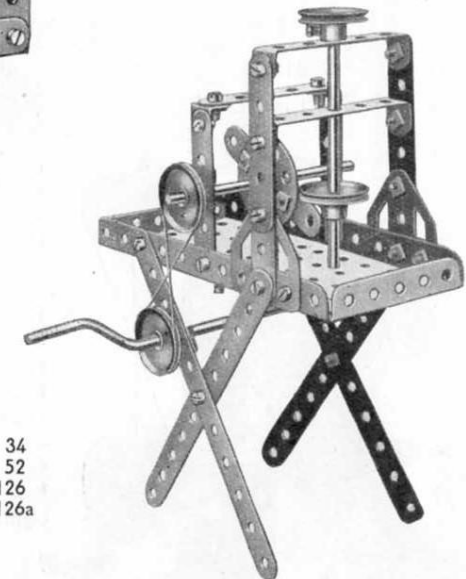


Parts required	3 of No.	22	1 of No.	52	
2 of No.	2	1 " "	24	3 " "	90a
5 " "	5	2 " "	35	2 " "	125
8 " "	12	28 " "	37	2 " "	190
2 " "	17	2 " "	37a	2 " "	191

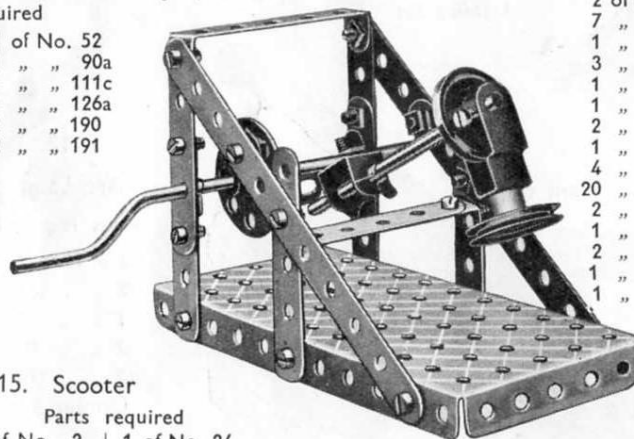
B121. Stamping Machine

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



B117. Trip Hammer



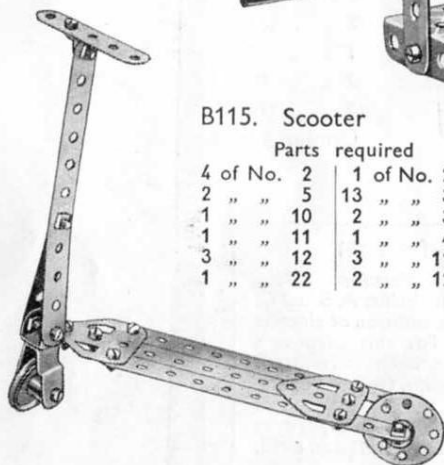
Parts required

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

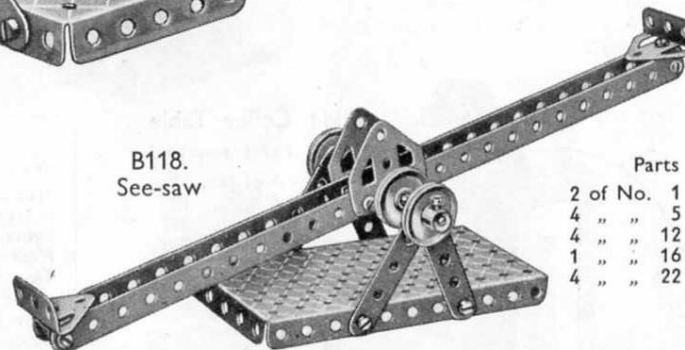
B115. Scooter

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



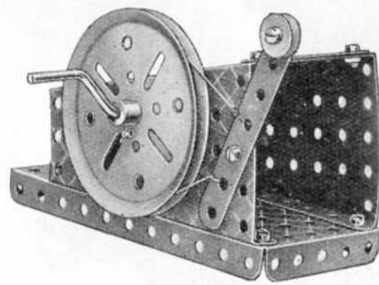
Parts required

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.

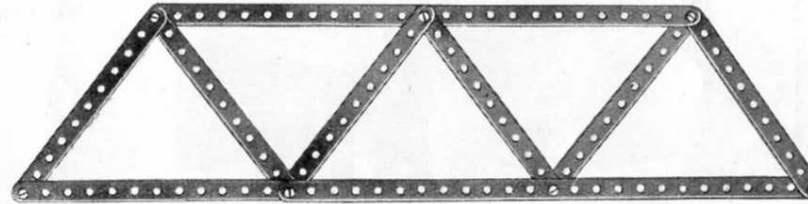
C1. Band Brake



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

C4. Compound Triangulated Truss



Parts required

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

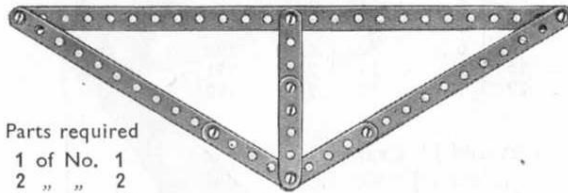
C7. Mounted Cowboy

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



C2. Triangulated Truss



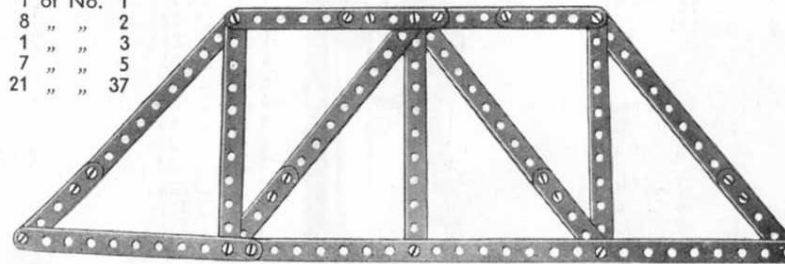
Parts required

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

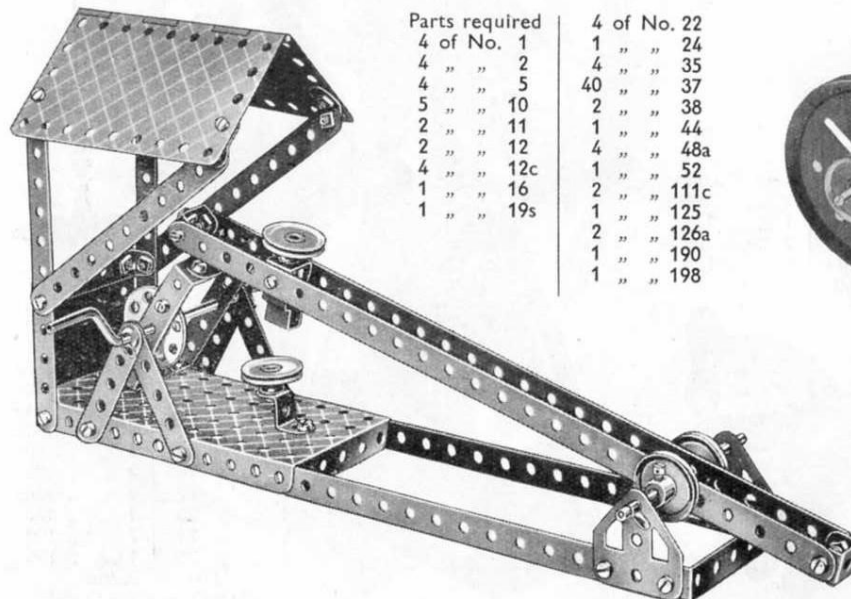
Parts required

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

C5. Howe Truss



C3. Helve Hammer

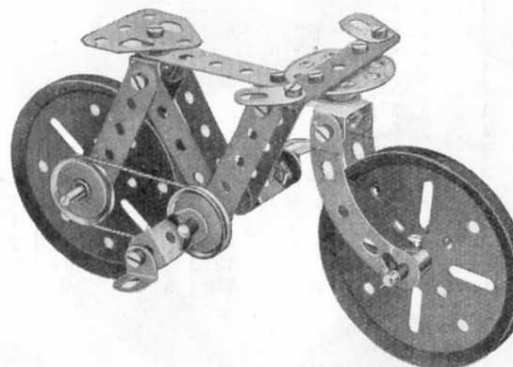


Parts required

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
4	" "	37
2	" "	38
1	" "	44
4	" "	48a
1	" "	52
2	" "	111c
1	" "	125
2	" "	126a
1	" "	190
1	" "	198

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

C8. Bath Chair

Parts required

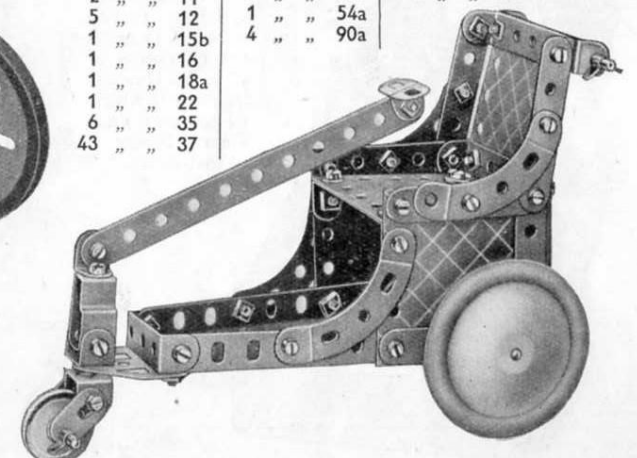
1	of No.	2
9	" "	5
4	" "	10
2	" "	11
5	" "	12
1	" "	15b
1	" "	16
1	" "	18a
1	" "	22
6	" "	35
43	" "	37

4 of No.

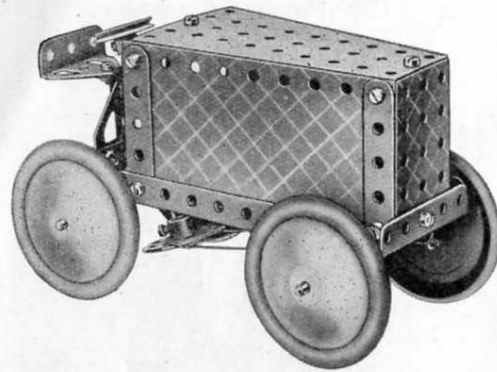
37a
38
44
48
48a
54a
90a

1 of No.

111c
126a
187
190
191



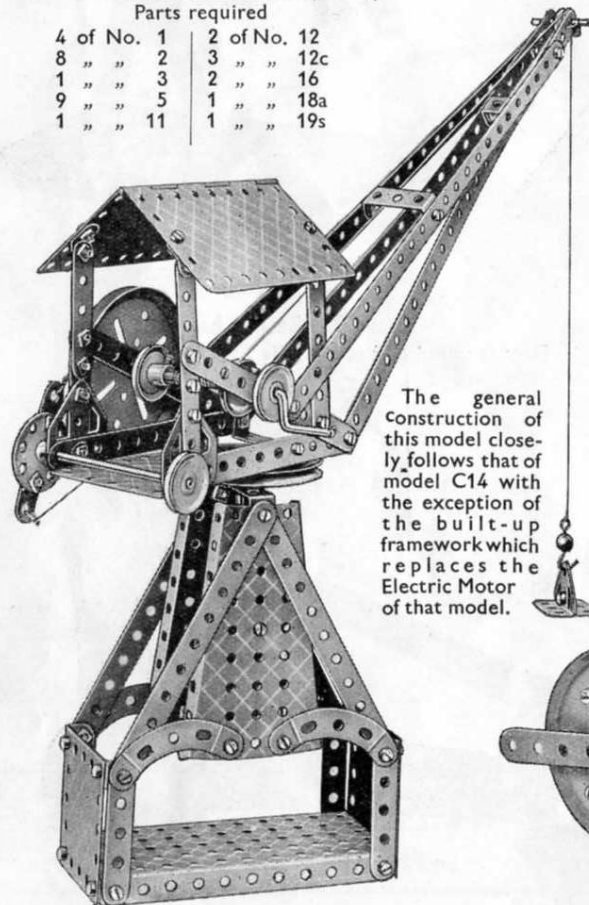
C9. Motor Tractor



Parts required	
4 of No. 5	10
1 " " "	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
4 " " "	126a
1 " " "	187
2 " " "	191

C10. Elevated Jib Crane (Hand)

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

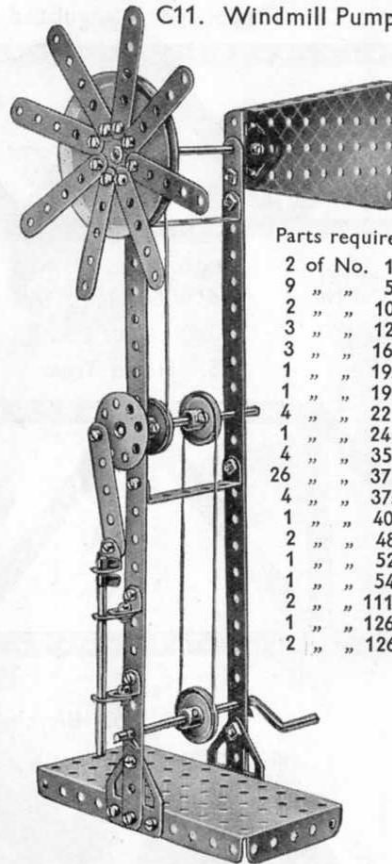


The general construction of this model closely follows that of model C14 with the exception of the built-up framework which replaces the Electric Motor of that model.

Parts required for C10 (continued)

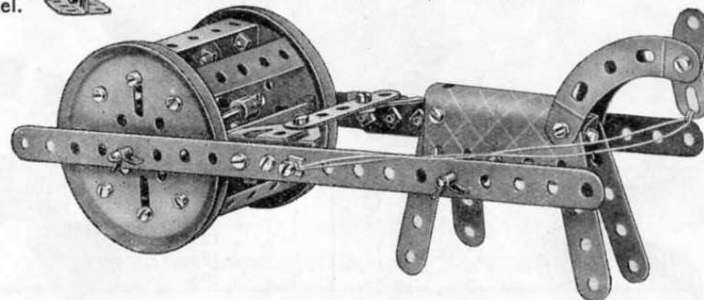
2 of No. 19b	22
4 " " "	23
1 " " "	24
1 " " "	35
4 " " "	37
56 " " "	37a
2 " " "	38
4 " " "	40
1 " " "	48
1 " " "	48a
6 " " "	52
1 " " "	54a
2 " " "	57c
1 " " "	90a
4 " " "	111c
2 " " "	126
2 " " "	126a
2 " " "	176
1 " " "	190
2 " " "	191
1 " " "	198

C11. Windmill Pump



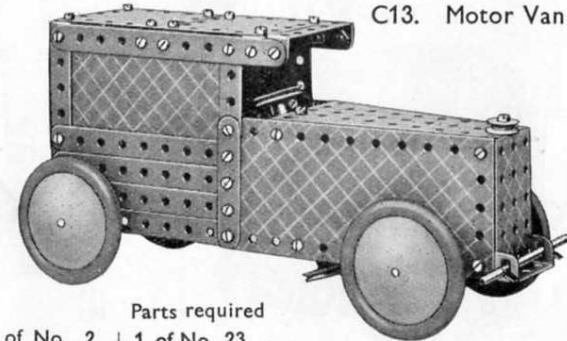
Parts required	
2 of No. 1	5
9 " " "	10
2 " " "	12
3 " " "	16
3 " " "	19s
1 " " "	19b
4 " " "	22
1 " " "	24
4 " " "	35
26 " " "	37
4 " " "	37a
1 " " "	40
2 " " "	48a
1 " " "	52
1 " " "	54a
2 " " "	111c
1 " " "	126
2 " " "	126a

C12. Field Roller



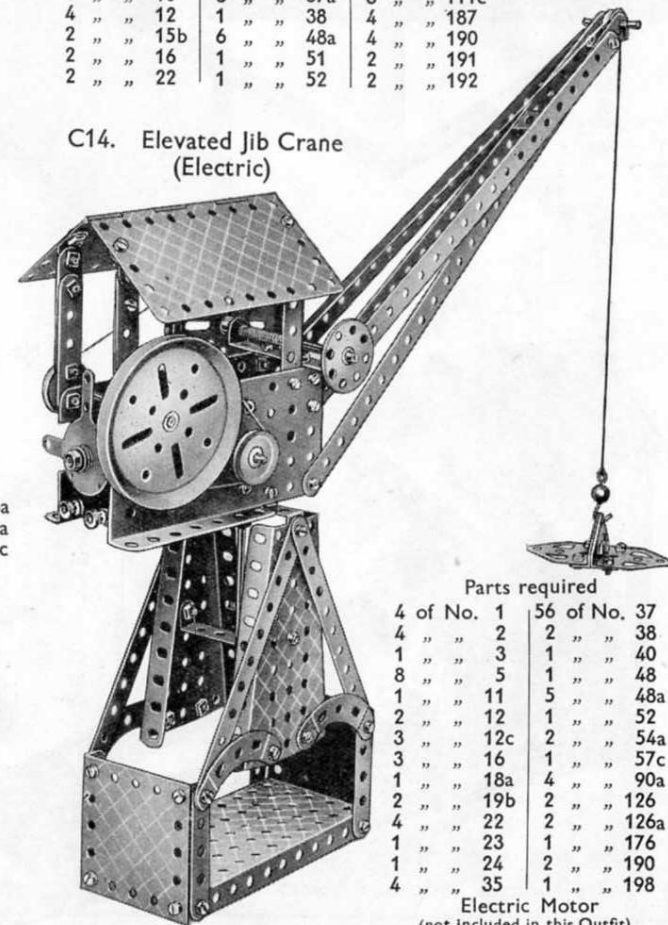
Parts required	
4 of No. 2	1 of No. 16
7 " " "	2 " " "
2 " " "	5 " " "
8 " " "	10 " " "
1 " " "	12 " " "
1 " " "	15b
	19b
	35
	37
	37a
	40
	54a
	90a
	111c
	126
	190

C13. Motor Van



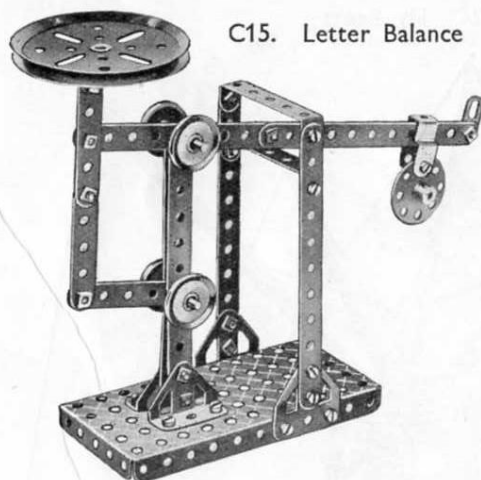
Parts required	
8 of No. 2	1 of No. 23
1 " " "	3 " " "
9 " " "	5 " " "
1 " " "	10 " " "
4 " " "	12 " " "
2 " " "	15b
2 " " "	16
2 " " "	22
	35
	37
	37a
	38
	48a
	51
	52
	54a
	111c
	187
	190
	191
	192

C14. Elevated Jib Crane (Electric)



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

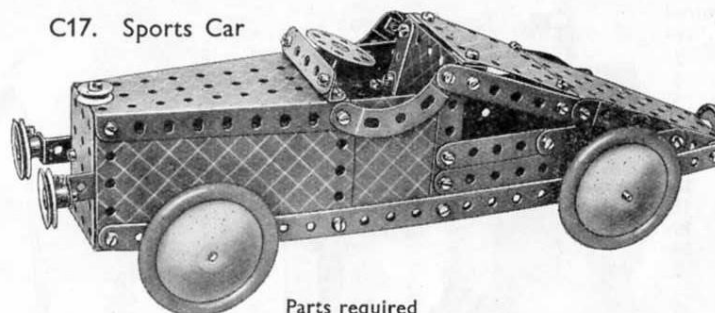
Electric Motor
(not included in this Outfit).



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

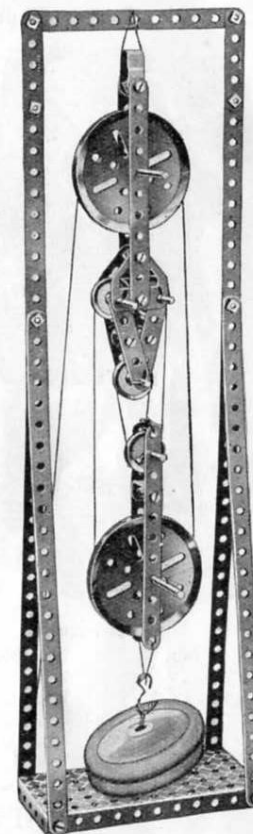
Parts required

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				

C19. Pulley Block, 5:1

Parts required

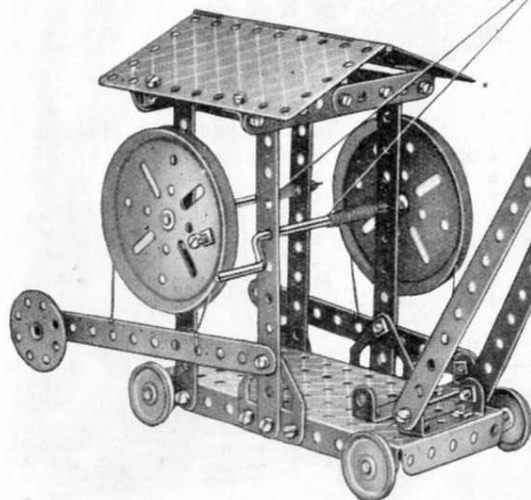
4 of No.	1
7 " "	2
6 " "	5
2 " "	11
2 " "	12
2 " "	16
2 " "	17
2 " "	18a
2 " "	19b
2 " "	22
4 " "	35
24 " "	37
2 " "	38
1 " "	40
1 " "	44
1 " "	52
1 " "	57c
2 " "	126a
2 " "	187



C16. Travelling Crane

Parts required

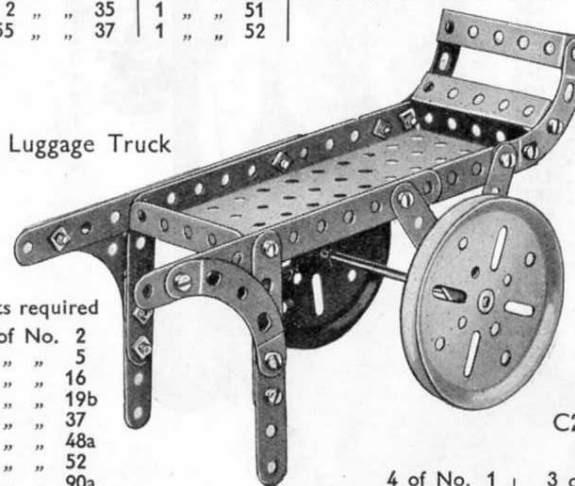
2 of No.	1	2 of No.	19b	1 of No.	48
6 " "	2	4 " "	22	1 " "	48a
6 " "	5	1 " "	23	1 " "	52
1 " "	11	1 " "	24	1 " "	57c
8 " "	12	3 " "	35	4 " "	111c
3 " "	16	34 " "	37	2 " "	126a
1 " "	18a	9 " "	37a	1 " "	176
1 " "	19s	1 " "	40	1 " "	198



C18. Luggage Truck

Parts required

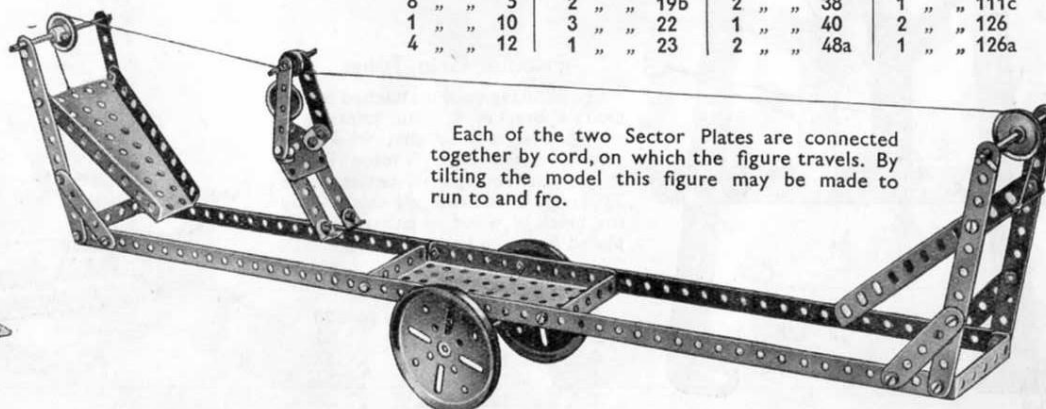
2 of No.	2
8 " "	5
1 " "	16
2 " "	19b
18 " "	37
2 " "	48a
1 " "	52
4 " "	90a



C20. Aerial Flight

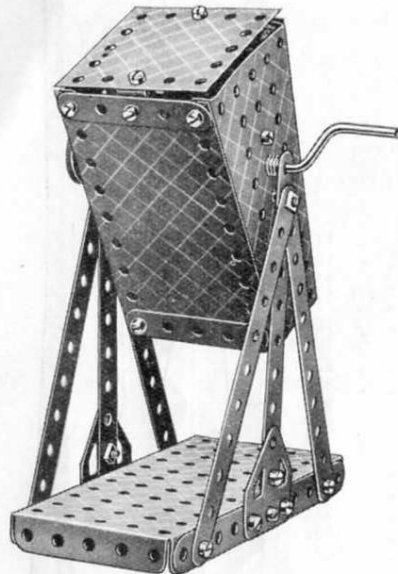
Parts required

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



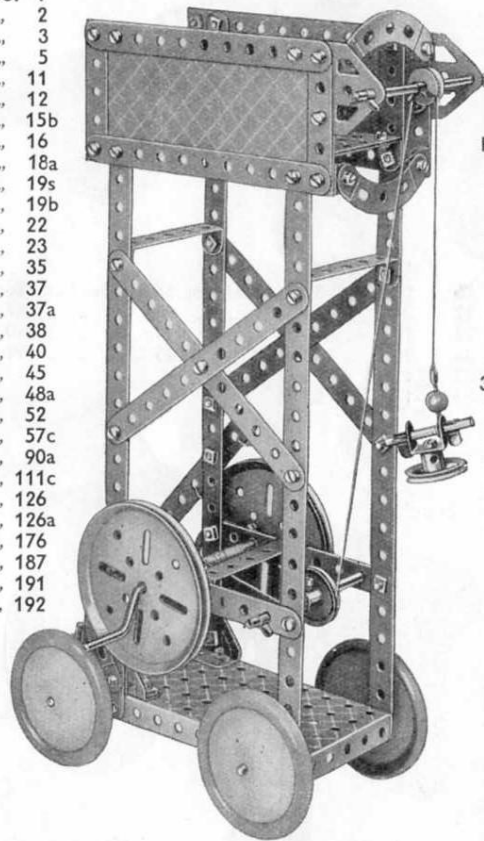
Parts required

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	

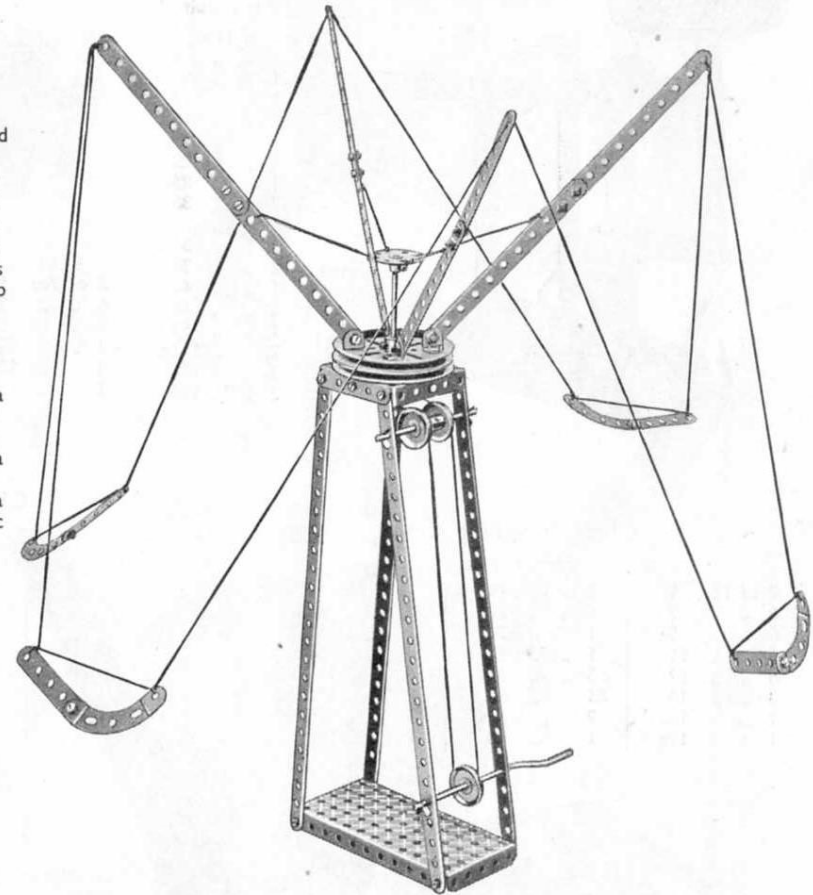
C22. Tower Wagon



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



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

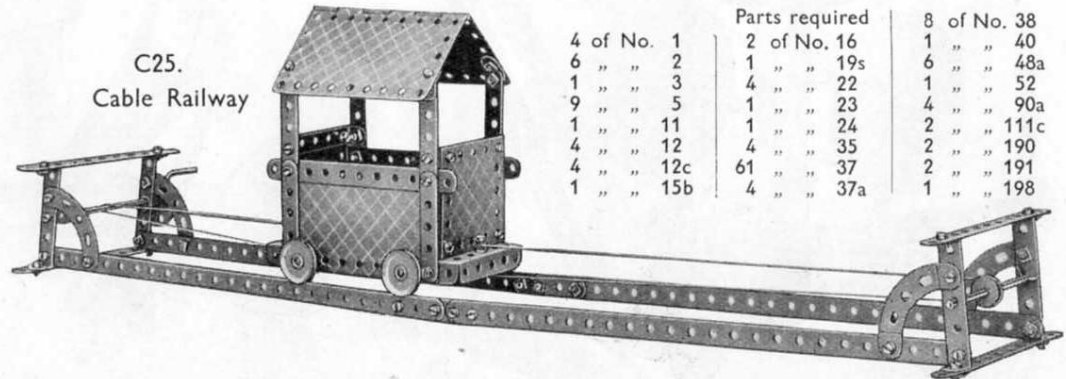
C23.

Friction Grip Tongs

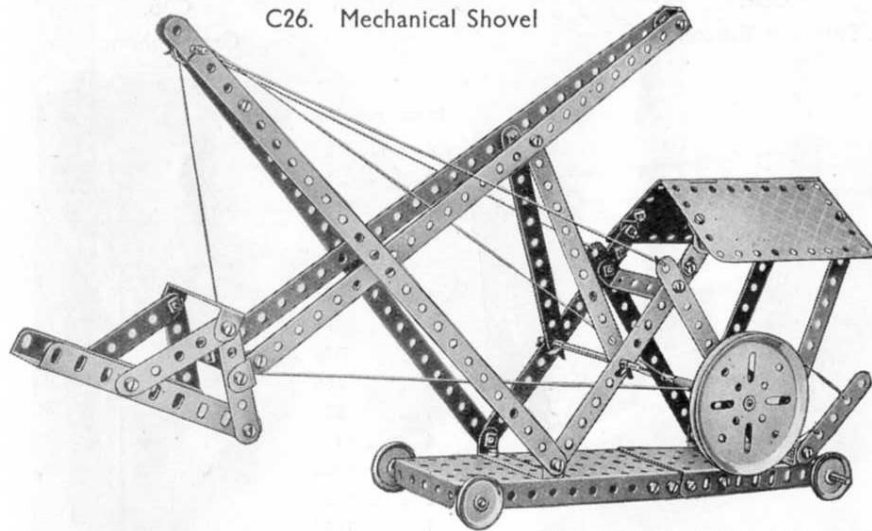
The hoisting cord is attached to the Double Bracket 1. The joints 2, 3 are lock-nutted, so that when the grip is raised the $\frac{1}{2}$ " loose Pulley Wheel 4 slides upward between the $2\frac{1}{2}$ " Strips 5, and the grip closes upon the block of wood or other material placed between its jaws.

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

C26. Mechanical Shovel

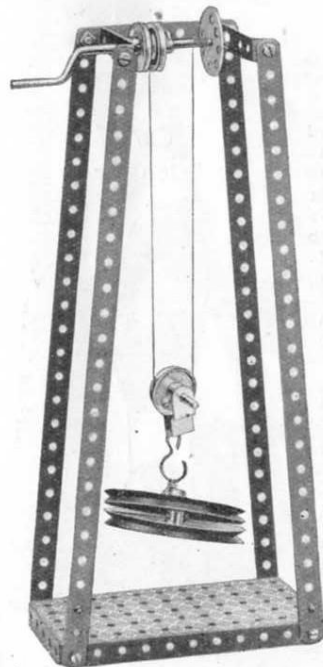


Parts required

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 " " 52	
1 " " 54a	
2 " " 111c	
1 " " 176	
1 " " 198	

The digging arm is carried on two pivotally attached $5\frac{1}{2}$ " 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.

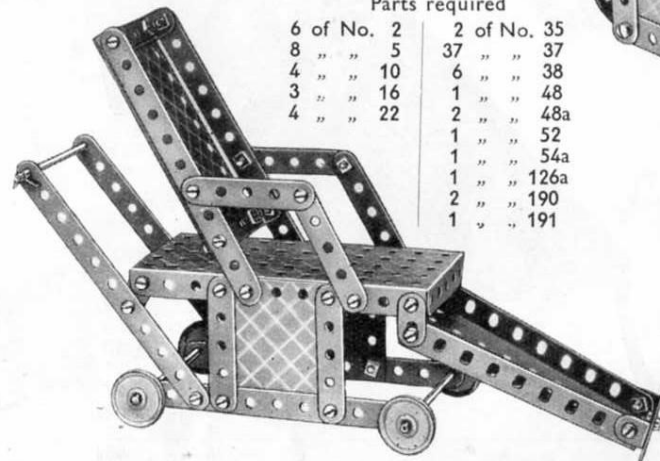
C27. Chinese Windlass



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	

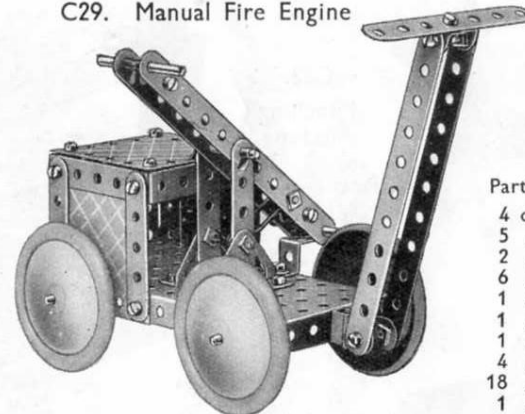
C28. Invalid Chair



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

C29. Manual Fire Engine



Parts required

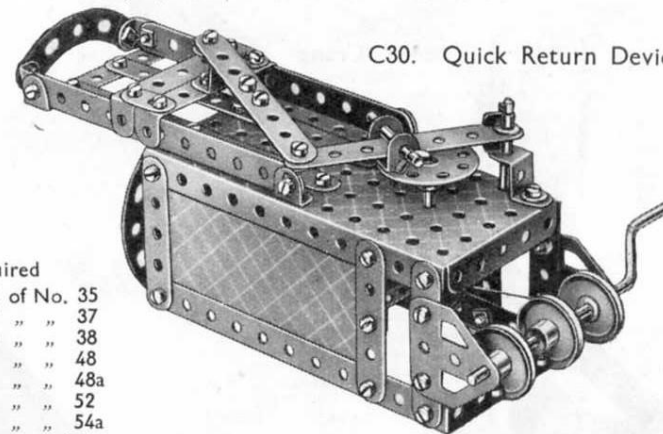
4 of No. 2	1 of No. 18a	1 of No. 52
1 " " 3	6 " " 35	2 " " 111c
8 " " 5	34 " " 37	1 " " 125
2 " " 11	6 " " 37a	2 " " 126
6 " " 12	1 " " 38	1 " " 186
2 " " 15b	1 " " 45	4 " " 187
2 " " 17	2 " " 48a	4 " " 190

C31. Telescopic Mast

Parts required

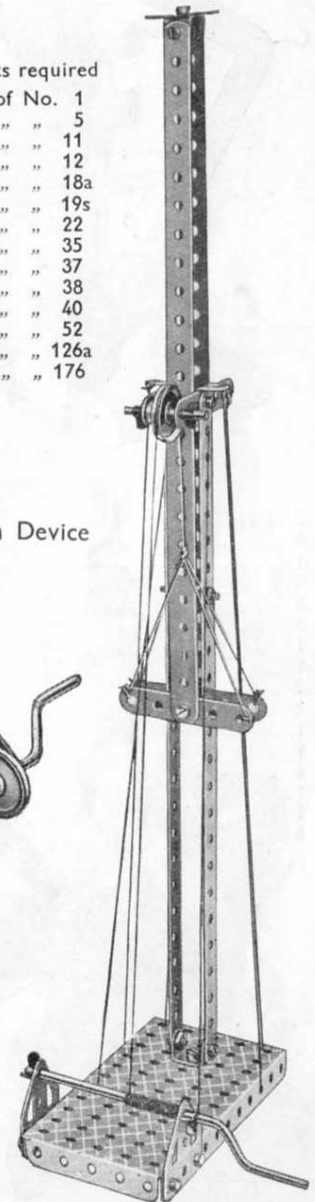
4 of No. 1	
5 " " 5	
2 " " 11	
6 " " 12	
1 " " 18a	
1 " " 19s	
1 " " 22	
4 " " 35	
18 " " 37	
1 " " 38	
1 " " 40	
1 " " 52	
2 " " 126a	
1 " " 176	

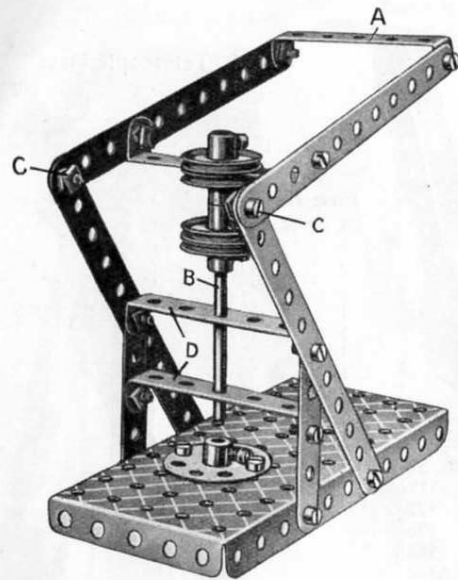
C30. Quick Return Device



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

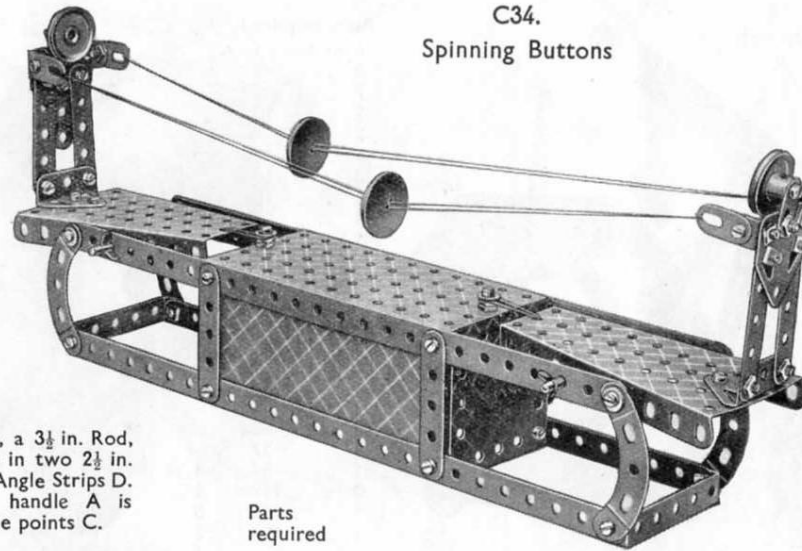
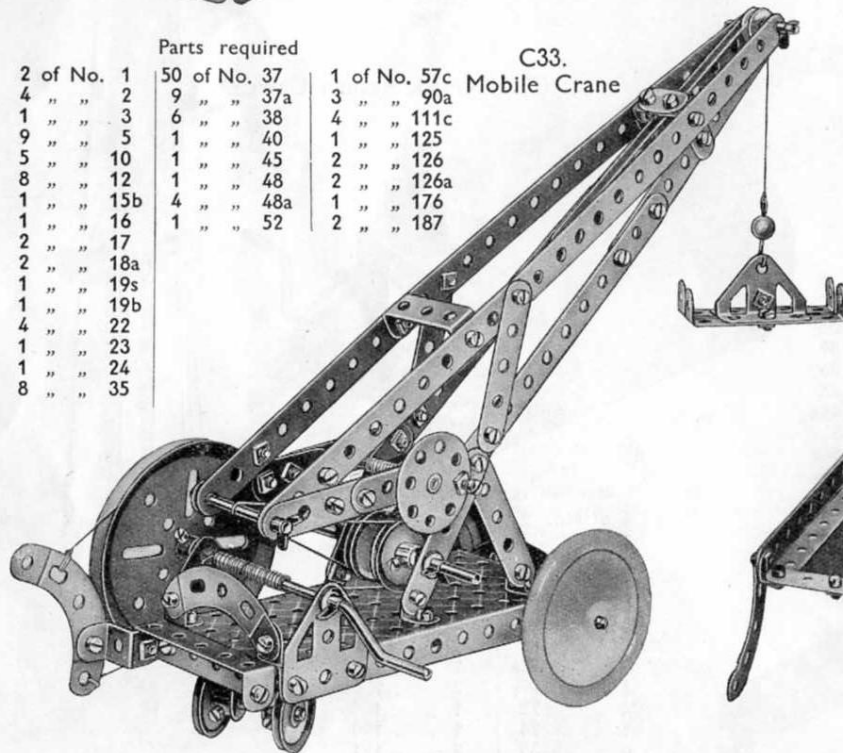
4 of No. 2
2 " " 5
1 " " 16
4 " " 22
1 " " 24
16 " " 37
4 " " 37a
4 " " 48a
1 " " 52

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

Parts required

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
8 " " 12	1 " " 48	2 " " 126a
1 " " 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

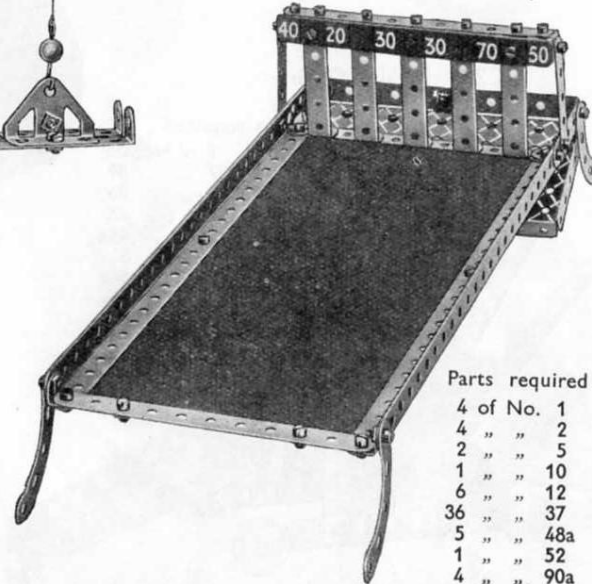


C34.
Spinning Buttons

Parts required

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

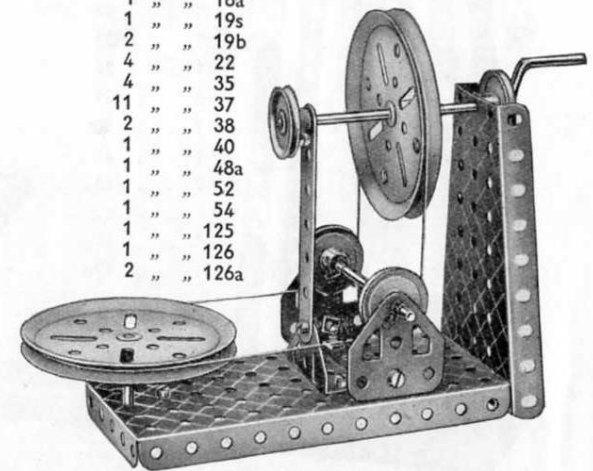
C36.
Gramophone



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

C37.
Belt Gear

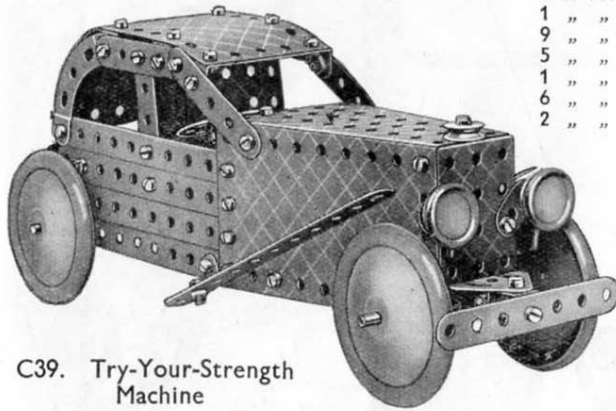


Parts required

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

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

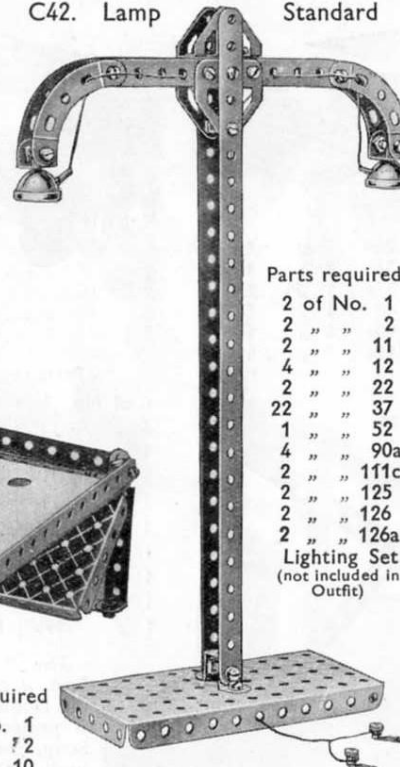
C38. Sports' Coupé



Parts required		1 of No.	17
8 of No.	2	2	22
1	3	66	37
9	5	4	37a
5	10	6	48a
1	11	1	51
6	12	1	52
2	15b	2	54
		2	90a
		6	111c
		1	125
		1	126
		2	126a
		4	187
		2	190
		2	191
		1	192

Lighting Set
(not included in Outfit)

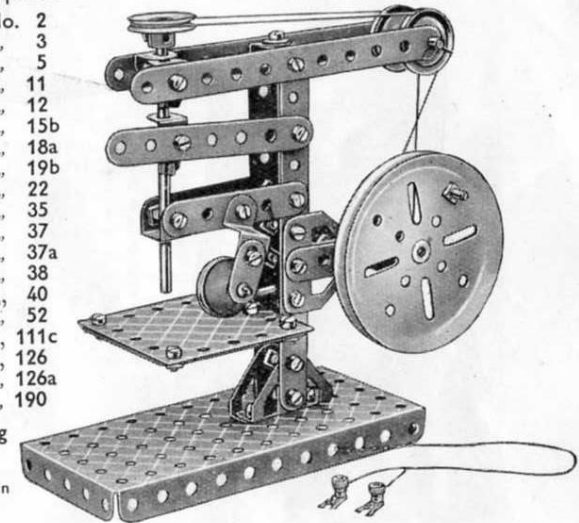
C42. Lamp



Parts required		2 of No.	1
2	2	2	2
2	11	2	11
4	12	2	12
2	22	2	22
22	37	1	52
1	90a	4	90a
2	111c	2	111c
2	125	2	125
2	126	2	126
2	126a	2	126a

Lighting Set
(not included in Outfit)

C43. Drill



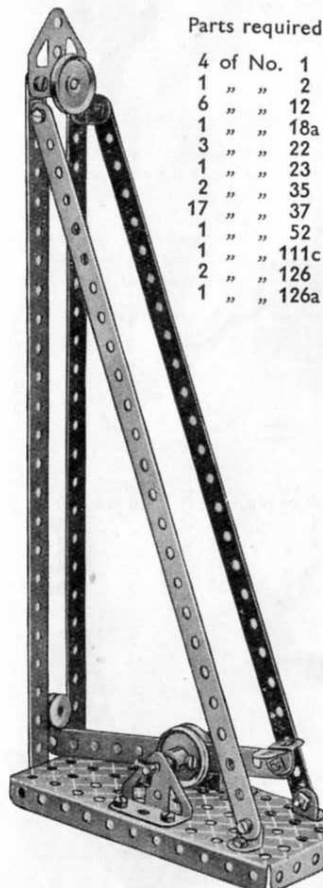
Parts required		4 of No.	2
1	3	1	3
9	5	9	5
2	11	2	11
8	12	8	12
1	15b	1	15b
2	18a	2	18a
1	19b	1	19b
4	22	4	22
5	35	5	35
33	37	33	37
3	37a	3	37a
5	38	5	38
1	40	1	40
1	52	1	52
2	111c	2	111c
2	126	2	126
2	126a	2	126a
1	190	1	190

Lighting Set
(not included in Outfit)

MECCANO LIGHTING SET

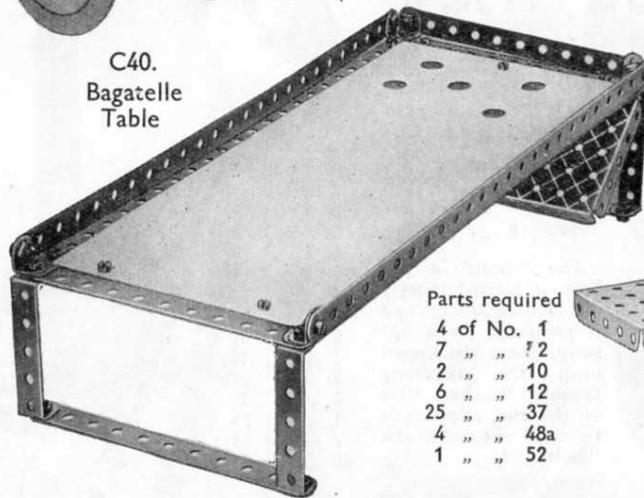
The appearance of many Meccano models, especially those built with Outfit A, B, C, may be vastly improved by the addition of suitably disposed lights. For this purpose a special set of lighting equipment has been introduced. This consists of two pea-lamps, two spot lights, and a fancy lamp shade, the appearance and uses of which are shown in models C38, C42, C43 and C44.

C39. Try-Your-Strength Machine



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

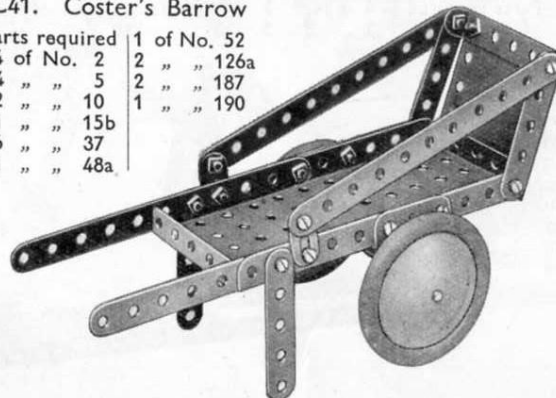
C40. Bagatelle Table



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

C41. Coster's Barrow

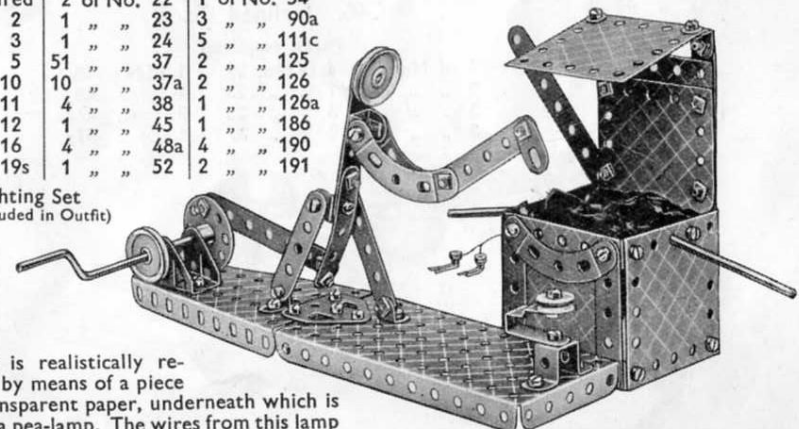
Parts required		1 of No.	52
4 of No.	2	2	126a
4	5	2	187
2	10	1	190
1	15b		
16	37		
1	48a		



C44. Blacksmith

Parts required		2 of No.	22	1 of No.	54
3 of No.	2	1	23	3	90a
1	3	1	24	5	111c
7	5	51	37	2	125
2	10	10	37a	2	126
2	11	4	38	1	126a
7	12	1	45	1	186
2	16	4	48a	4	190
1	19s	1	52	2	191

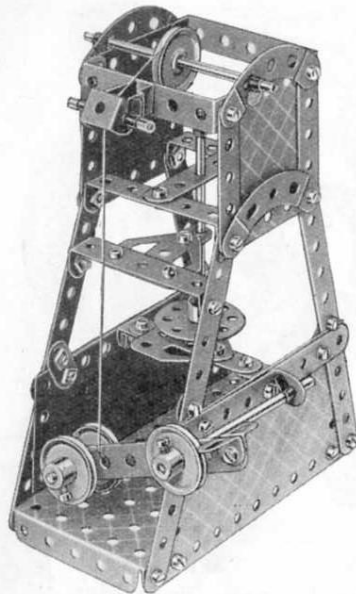
Lighting Set
(not included in Outfit)



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.

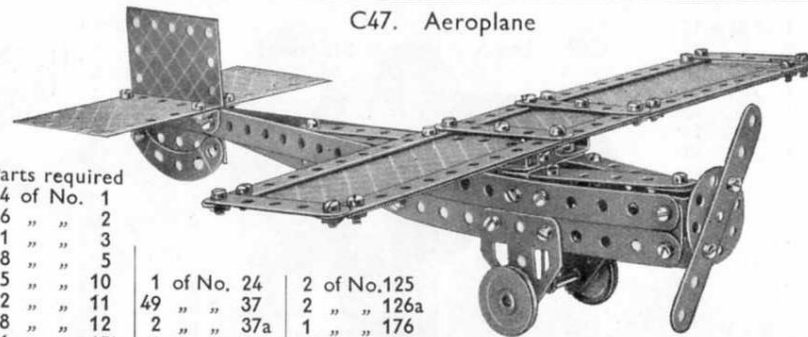
These Models can be built with **MECCANO** Outfit C (or Outfits B and Ba)

C45. Pneumatic Hammer



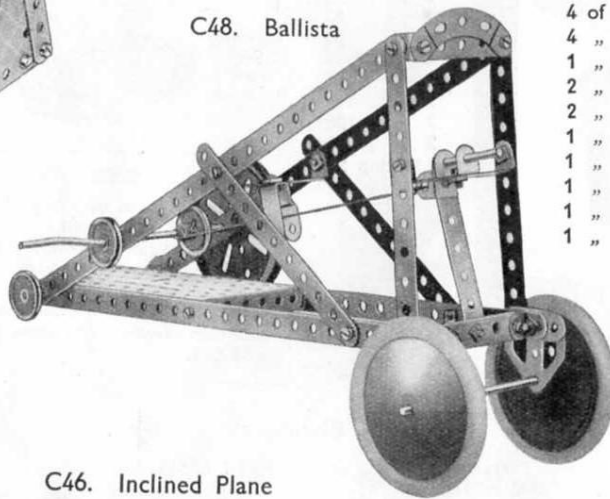
Parts required			
4 of No. 2	39 of No. 37		
1 " " 3	8 " " 38		
9 " " 5	1 " " 40		
5 " " 10	1 " " 45		
1 " " 11	6 " " 48a		
4 " " 12	1 " " 52		
3 " " 16	4 " " 90a		
2 " " 18a	2 " " 126a		
4 " " 22	1 " " 176		
1 " " 23	2 " " 190		
1 " " 24	2 " " 191		
6 " " 35			

C47. Aeroplane



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

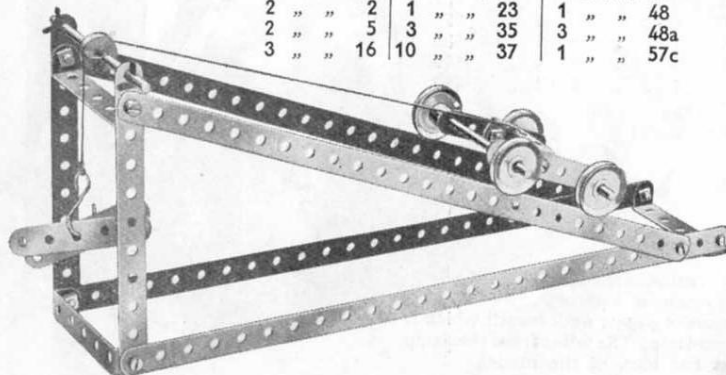
C48. Ballista



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."

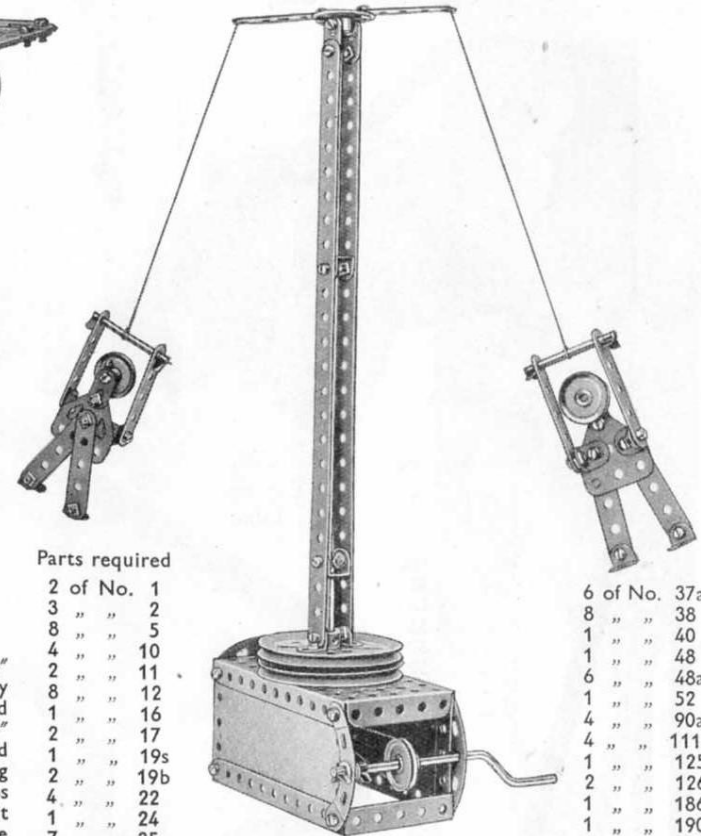
C46. Inclined Plane



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

The endless cord is first passed round four $1\frac{1}{2}$ " 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.

C49. Revolving Gymnasts

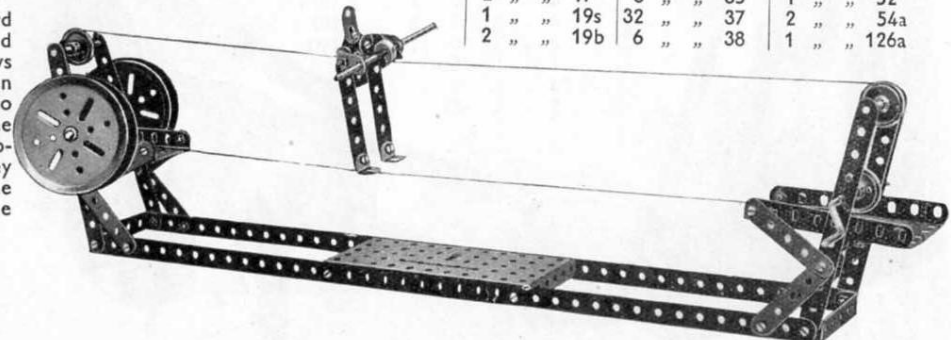


Parts required			
2 of No. 1			
3 " " 2			
8 " " 5			
4 " " 10			
2 " " 11			
8 " " 12			
1 " " 16			
2 " " 17			
1 " " 19s			
2 " " 19b			
4 " " 22			
1 " " 24			
7 " " 35			
40 " " 37			

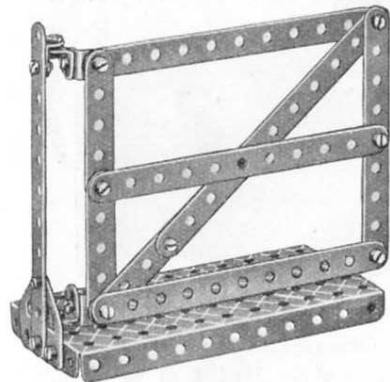
Parts required			
6 of No. 37a			
8 " " 38			
1 " " 40			
1 " " 48			
6 " " 48a			
1 " " 52			
4 " " 90a			
4 " " 111c			
1 " " 125			
2 " " 126a			
1 " " 186			
1 " " 190			
2 " " 192			

C50. Tight-rope Walker

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



C51. Gate



Parts required

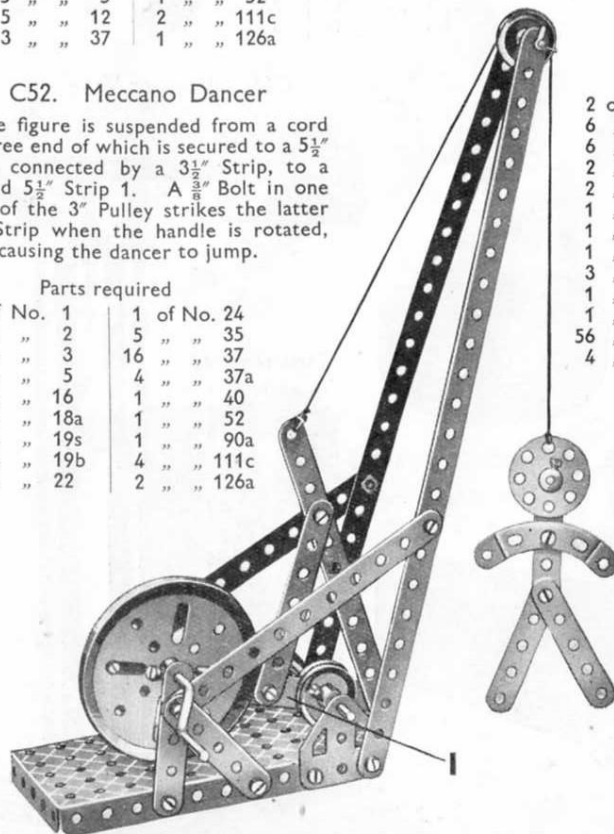
5 of No. 2	4 of No. 37a
5 " " 5	1 " " 52
5 " " 12	2 " " 111c
13 " " 37	1 " " 126a

C52. Meccano Dancer

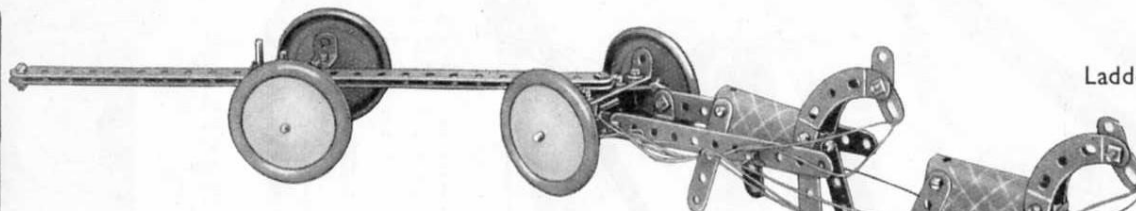
The figure is suspended from a cord the free end of which is secured to a $5\frac{1}{2}$ " Strip connected by a $3\frac{1}{2}$ " Strip, to a second $5\frac{1}{2}$ " Strip 1. A Bolt in one hole of the 3" Pulley strikes the latter $5\frac{1}{2}$ " Strip when the handle is rotated, thus causing the dancer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

Parts required

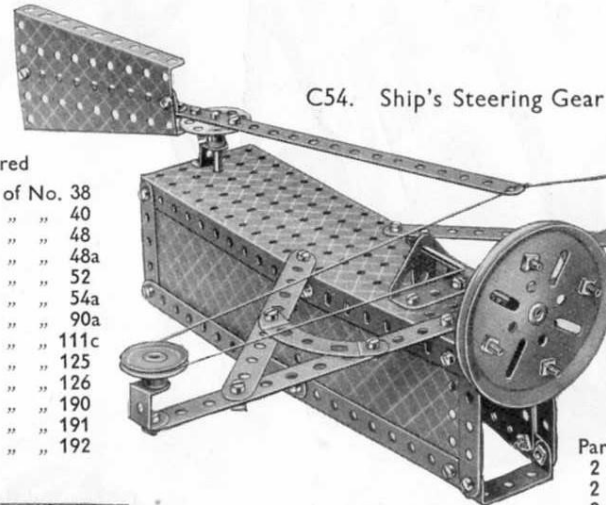
2 of No. 1	1 of No. 24
4 " " 2	5 " " 35
1 " " 3	16 " " 37
7 " " 5	4 " " 37a
1 " " 16	1 " " 40
1 " " 18a	1 " " 52
1 " " 19s	1 " " 90a
1 " " 19b	4 " " 111c
3 " " 22	2 " " 126a



C53. Timber Drag



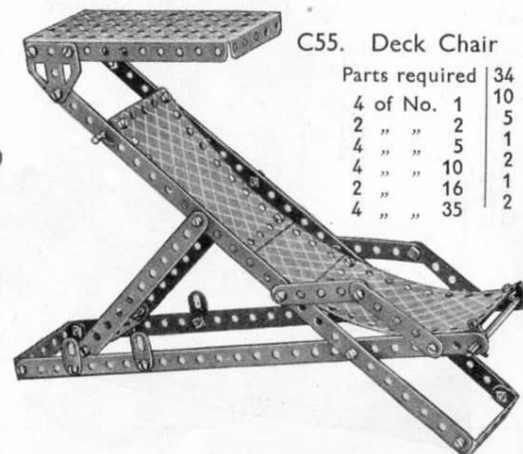
Parts required	8 of No. 12	3 of No. 37a	2 of No. 111c
2 of No. 1	2 " " 15b	8 " " 38	2 " " 126
2 " " 2	2 " " 17	1 " " 40	2 " " 126a
8 " " 5	2 " " 18a	1 " " 48	4 " " 187
4 " " 10	8 " " 35	3 " " 48a	2 " " 190
2 " " 11	27 " " 37	4 " " 90a	



C54. Ship's Steering Gear

Parts required

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

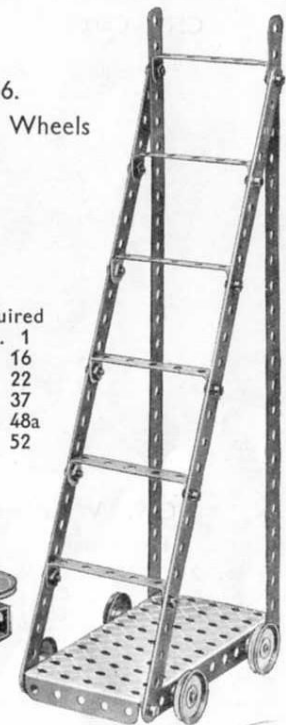


C55. Deck Chair

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

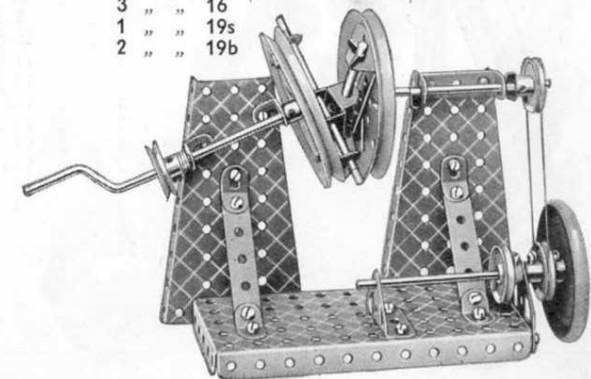
C56.
Ladder on Wheels

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

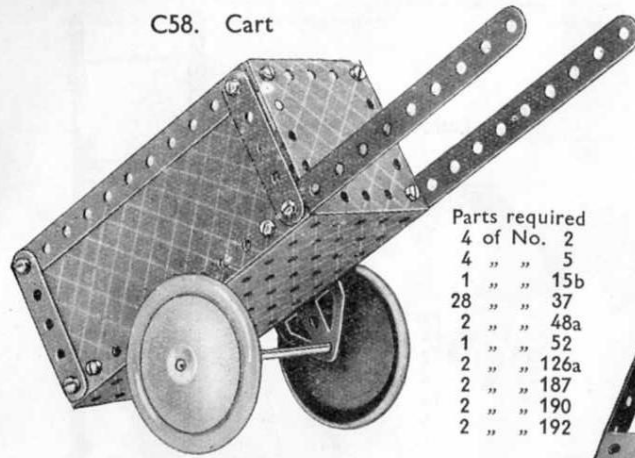


C57. Hooke's Coupling

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



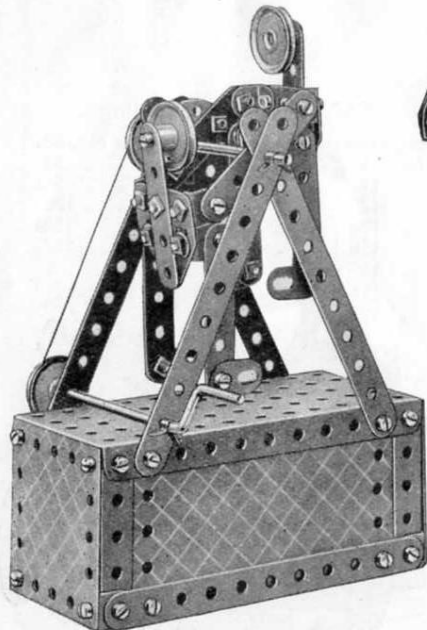
C58. Cart



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

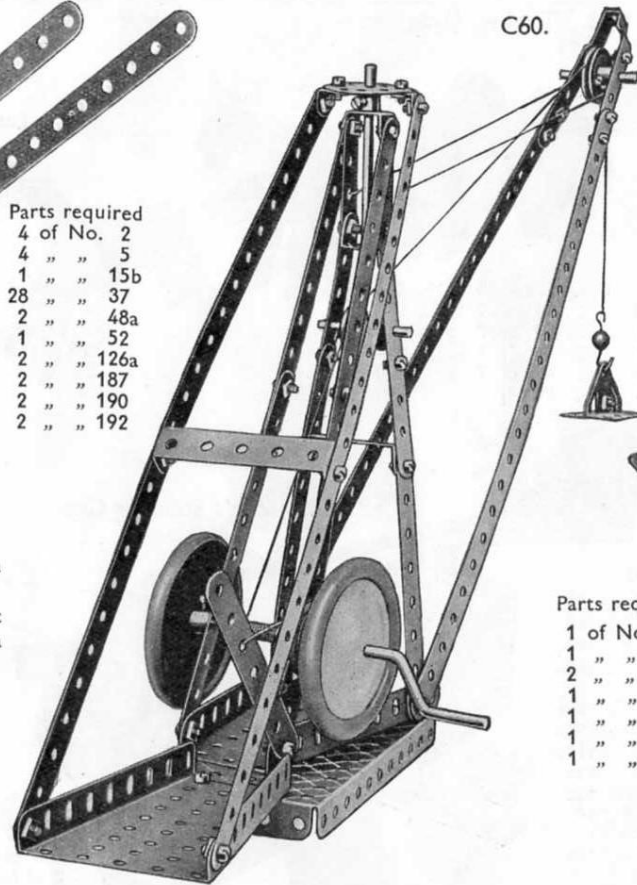
Parts required	
6 of No. 2	4 of No. 22
8 " " 5	1 " " 24
4 " " 10	2 " " 35
8 " " 12	44 " " 37
1 " " 16	12 " " 37a
1 " " 19s	6 " " 38
	1 " " 40
	6 of No. 48a
	1 " " 52
	6 " " 111c
	2 " " 126a
	2 " " 190
	2 " " 191



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		

C60. Jib Crane

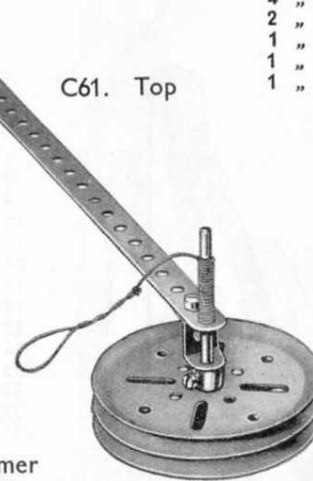


Parts required	
4 of No. 1	32 of No. 37
8 " " 2	2 " " 37a
1 " " 3	3 " " 38
2 " " 5	1 " " 40
2 " " 11	1 " " 44
2 " " 12	1 " " 48
1 " " 16	1 " " 48a
1 " " 17	1 " " 52
2 " " 18a	2 " " 54a
1 " " 19s	1 " " 57c
4 " " 22	1 " " 111c
1 " " 23	2 " " 126
1 " " 24	1 " " 176
3 " " 35	2 " " 187

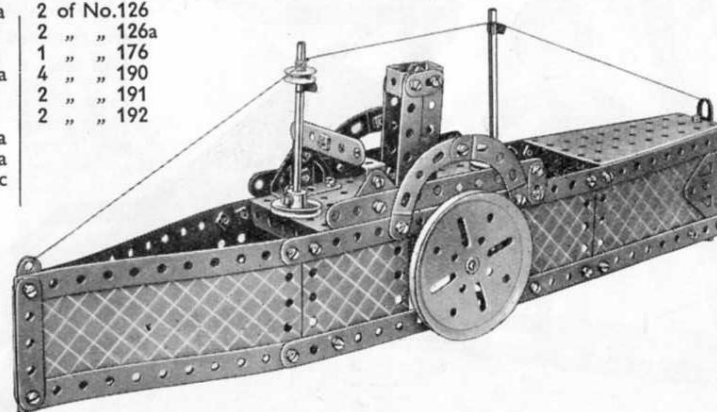
C61. Top

Parts required

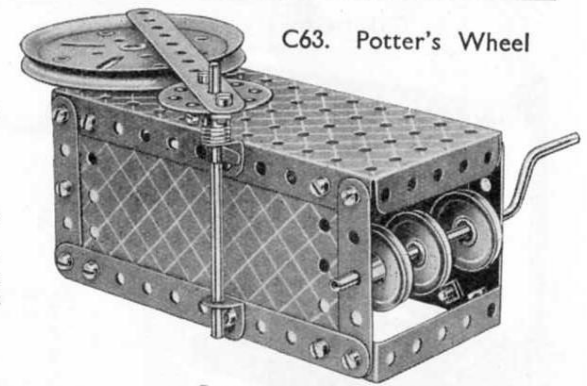
1 of No. 1	
1 " " 16	
2 " " 19b	
1 " " 24	
1 " " 37	
1 " " 40	
1 " " 125	



C62. Paddle Steamer



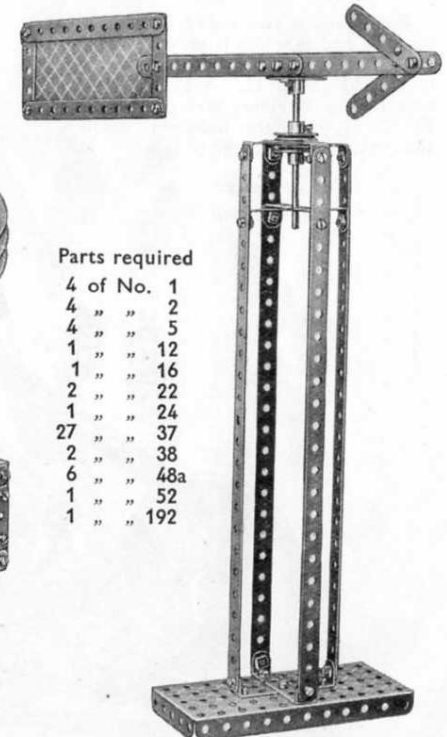
C63. Potter's Wheel



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	

C64. Weather Vane

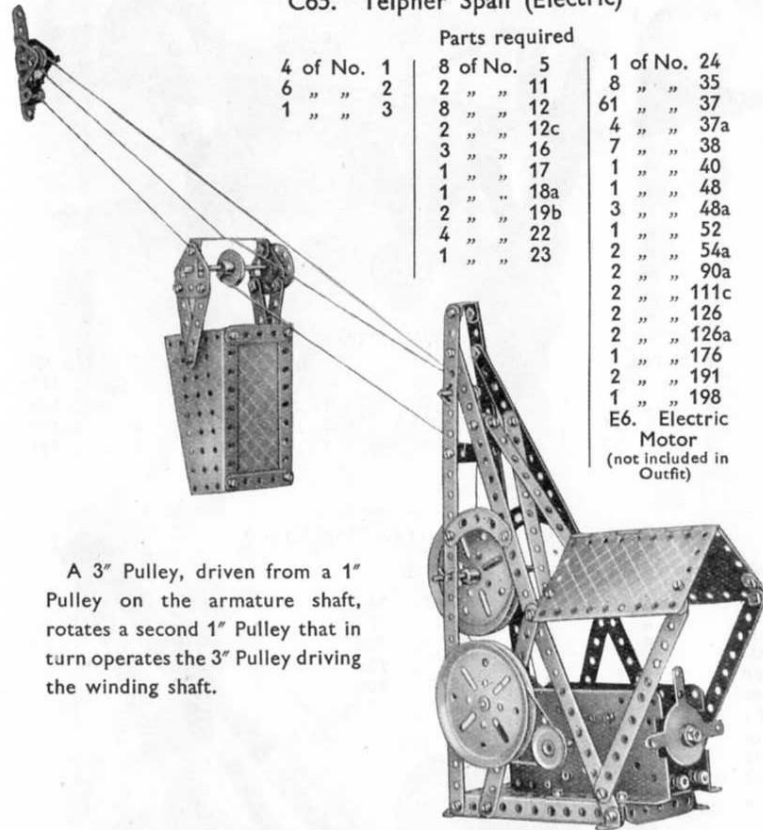


Parts required

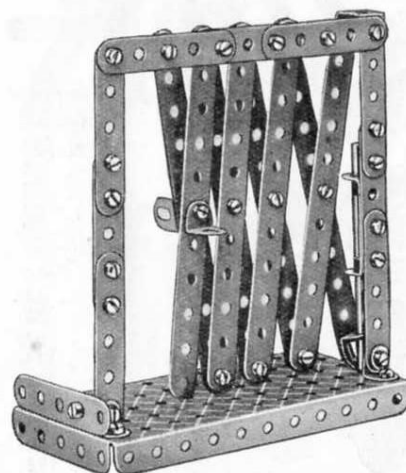
4 of No. 1	
4 " " 2	
4 " " 5	
1 " " 12	
1 " " 16	
2 " " 22	
1 " " 24	
27 " " 37	
2 " " 38	
6 " " 48a	
1 " " 52	
1 " " 192	

C65. Telfer 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)

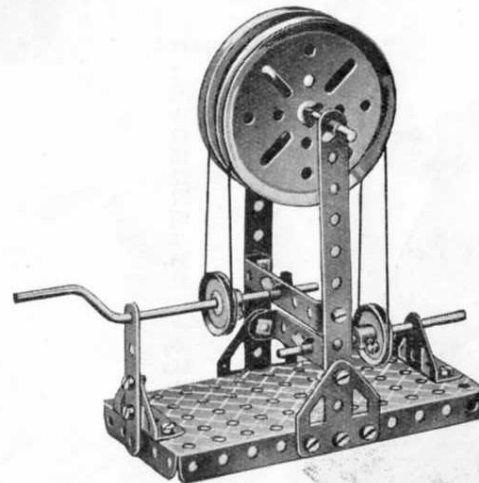


A 3" Pulley, driven from a 1" Pulley on the armature shaft, rotates a second 1" Pulley that in turn operates the 3" Pulley driving the winding shaft.



C66. Sliding Gate

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

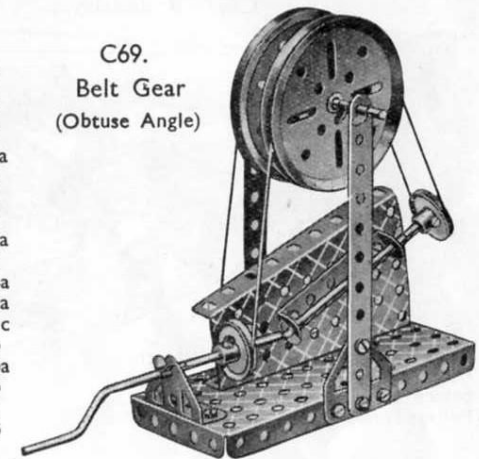
C68. Belt Gear
(Shafts not in Line)

C67. Telfer 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

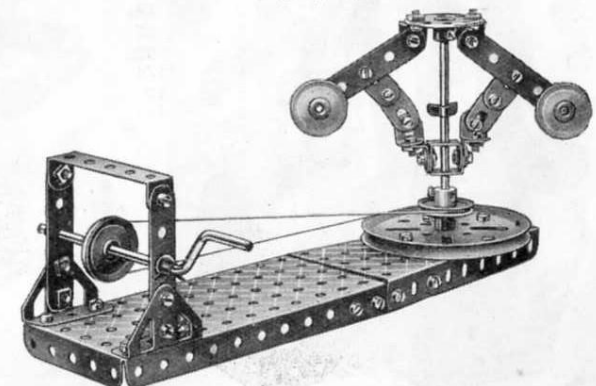
Parts required		
2 of No. 2	1 " " 5	2 " " 16
1 " " 19s	2 " " 22	8 " " 35
16 " " 37	1 " " 40	2 " " 48a
1 " " 52	1 " " 54a	4 " " 111c
2 " " 126	2 " " 126a	

C69. Belt Gear
(Obtuse Angle)

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

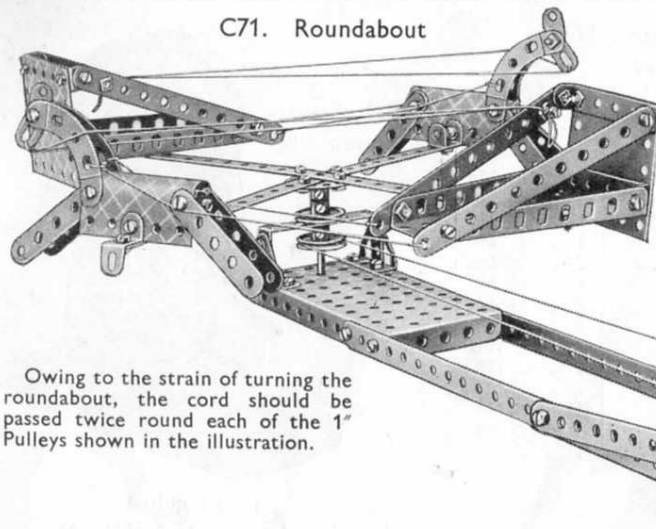
C70. Centrifugal Governor

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		



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

C71. Roundabout

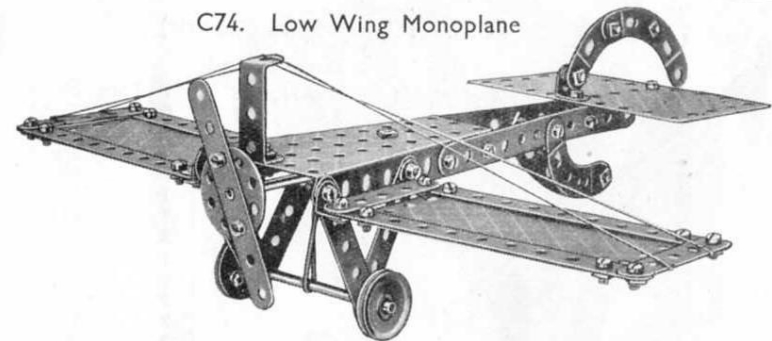


Parts required

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.

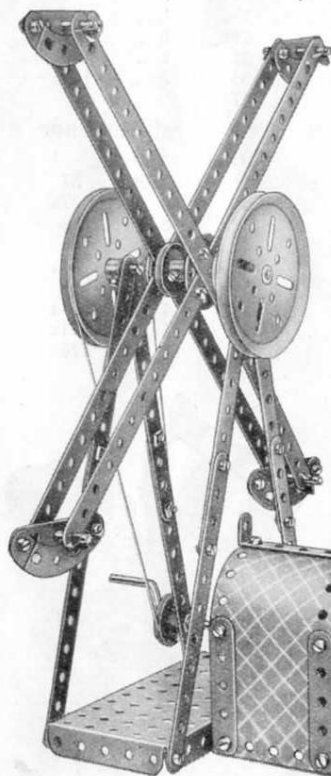
C74. Low Wing Monoplane



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

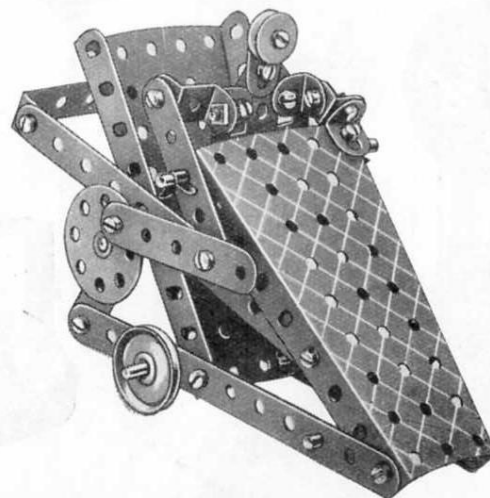


Parts required

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.



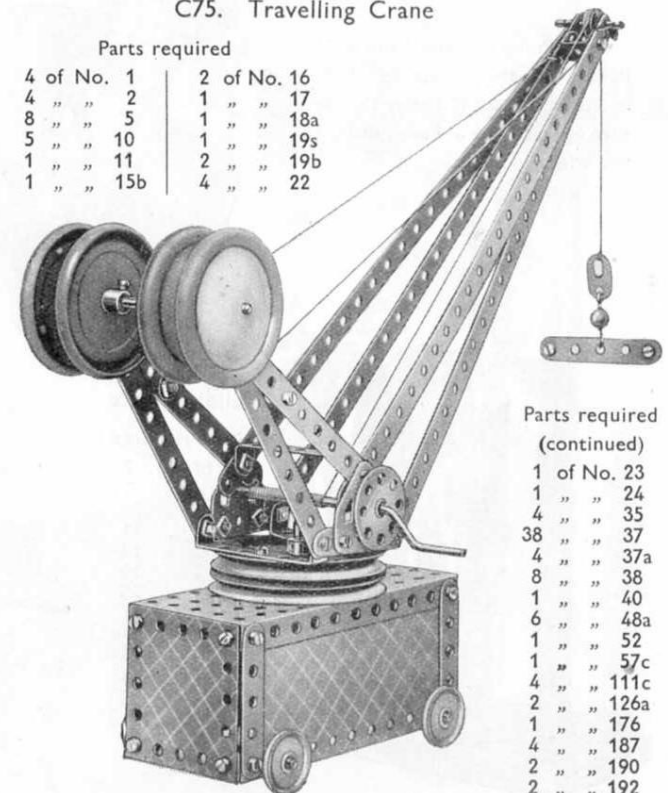
Parts required

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

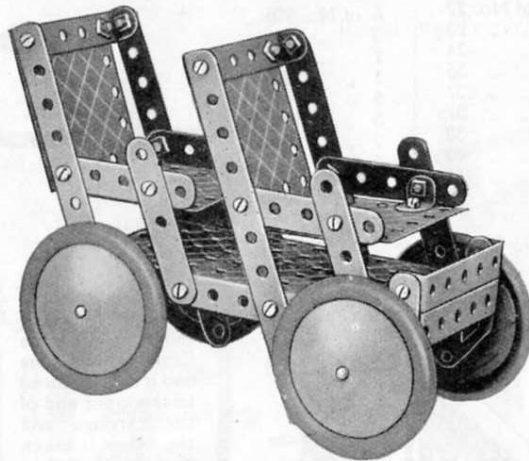


Parts required

(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



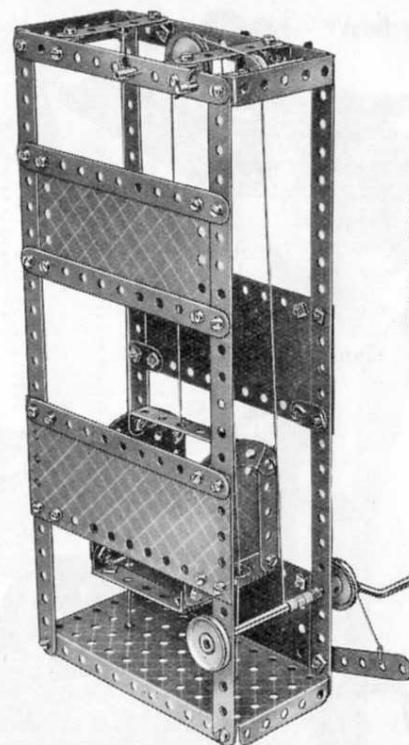
Parts required

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	1
7 " " 2	2
1 " " 3	3
8 " " 5	5
4 " " 10	10
6 " " 12	12
2 " " 16	16
1 " " 19s	19s
3 " " 22	22
1 " " 23	23
6 " " 35	35
61 " " 37	37
2 " " 37a	37a
7 " " 38	38
1 " " 40	40
5 " " 48a	48a
1 " " 52	52
2 " " 90a	90a
1 " " 111c	111c
1 " " 176	176
3 " " 190	190
2 " " 191	191
2 " " 192	192

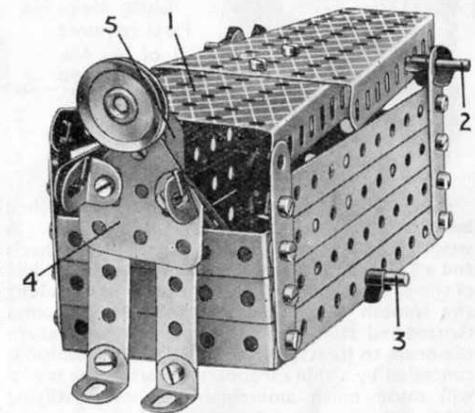


C80. Disappearing Meccanitian

Parts required

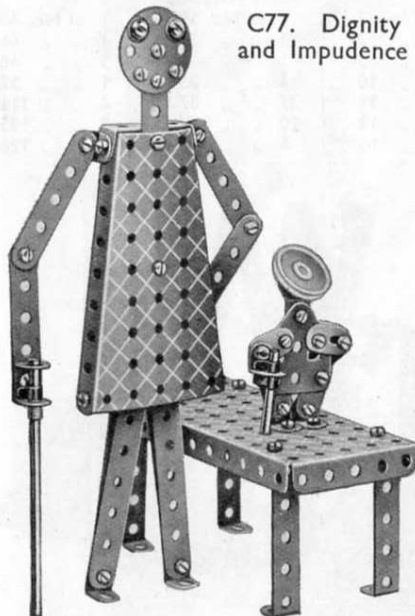
6 of No. 2	23 of No. 37
6 " " 5	1 " " 45
1 " " 10	6 " " 48a
4 " " 12	1 " " 52
2 " " 16	2 " " 54a
1 " " 22	1 " " 111c
6 " " 35	1 " " 126a

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 end 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 "Meccanitian" 4 also is connected to this Rod by pieces of elastic. On pressing the end of the rear Sector Plate the lid opens sufficiently to allow the figure to be drawn inside and then snaps back into place. A Cranked Bent Strip 5 is bolted at the back of the figure and rests against the edge of the Sector Plate.

C77. Dignity and Impudence



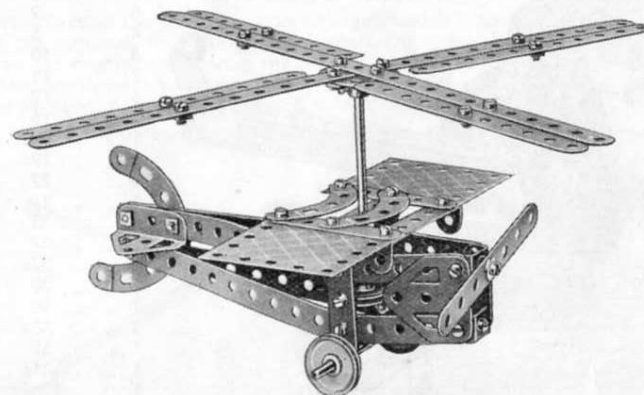
Parts required

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

C79. Autogiro

Parts required

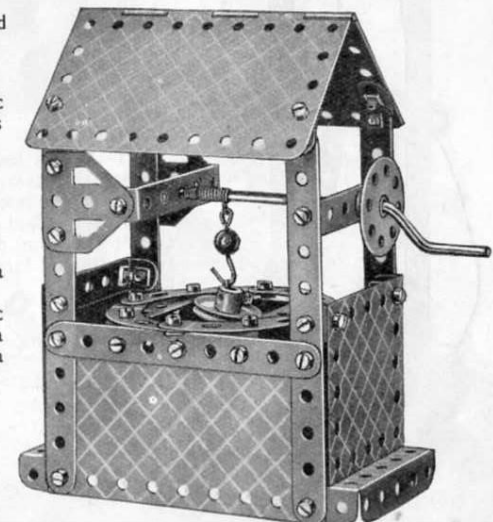
2 of No. 1	2 of No. 11	33 of No. 37	4 of No. 90a
8 " " 2	2 " " 12	3 " " 37a	2 " " 111c
1 " " 3	2 " " 16	7 " " 38	2 " " 126
9 " " 5	4 " " 22	1 " " 48	2 " " 126a
5 " " 10	1 " " 24	1 " " 48a	2 " " 190

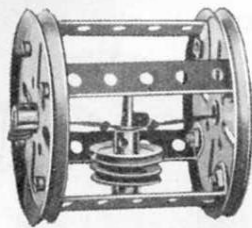


C81. Well Windlass

Parts required

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





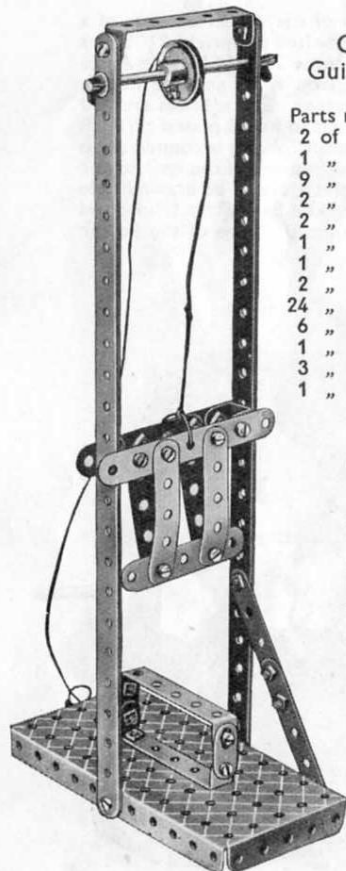
C82.

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.



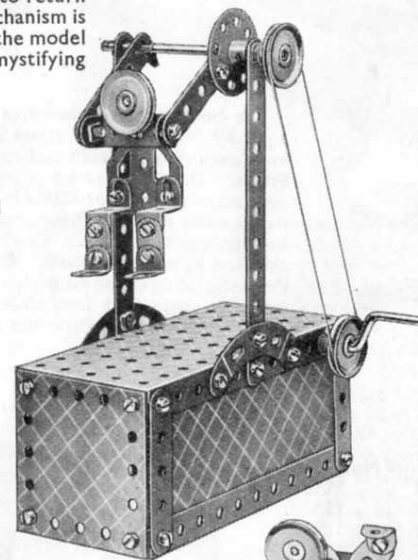
C83.

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.



C84. Rowing Boat

Parts required

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

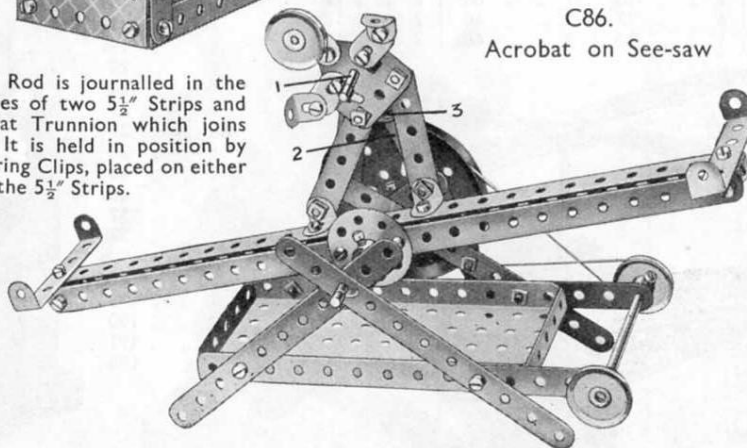
C85. Gymnast

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

C86.

Acrobat on See-saw



4	of No. 1
7	" " 2
1	" " 3
9	" " 5
5	" " 10
2	" " 11
6	" " 12
2	" " 12c
1	" " 15b
2	" " 16
2	" " 17
1	" " 18a
1	" " 19s
2	" " 19b

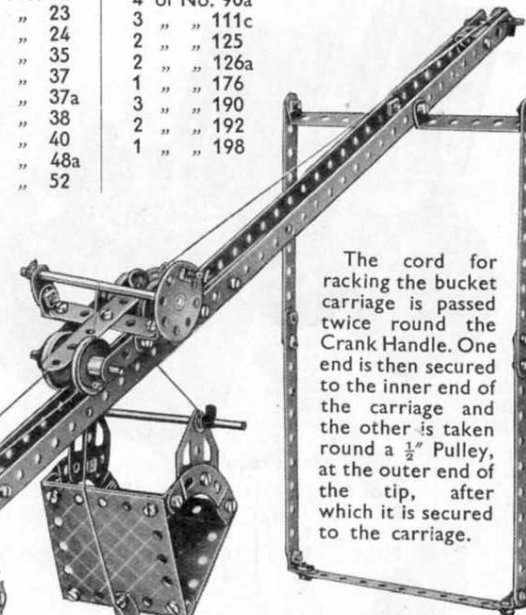
Parts required

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

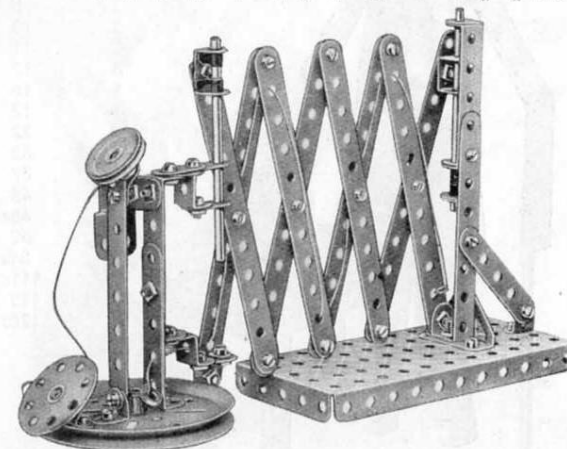
The cord for racking the bucket carriage is passed twice round the Crank Handle. One end is then secured to the inner end of the carriage and the other is taken round a ½" Pulley, at the outer end of the tip, after which it is secured to the carriage.



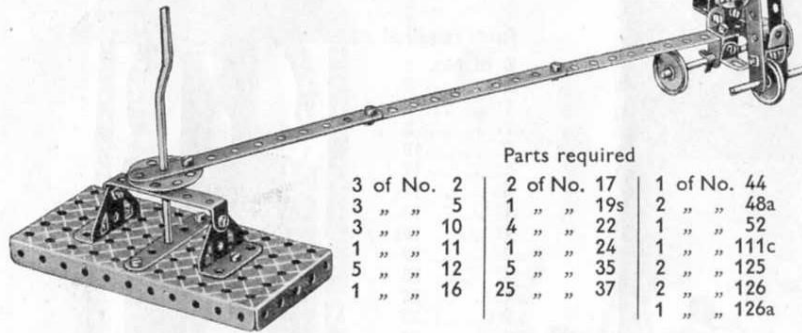
C88. Telephone

Parts required

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



C89. Revolving Triclist



C90. Man Climbing Pole

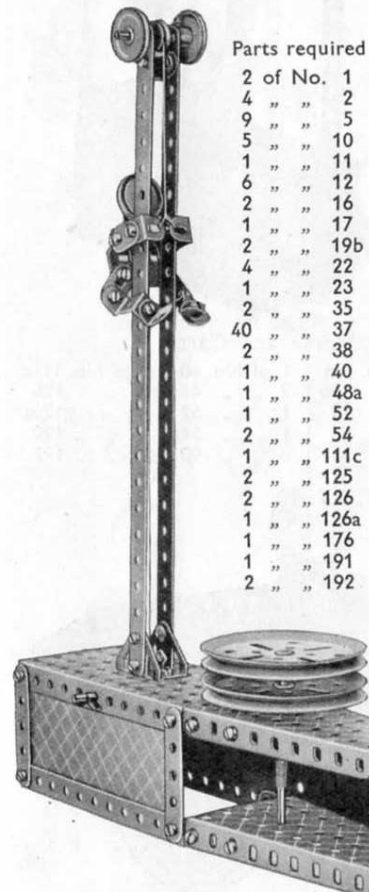
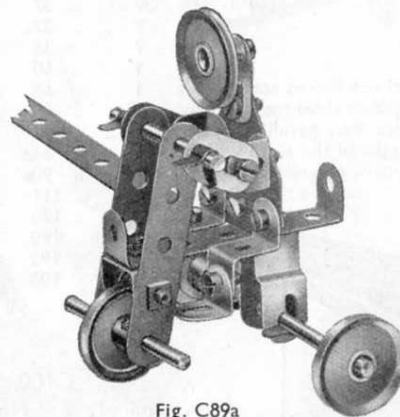


Fig. C89a



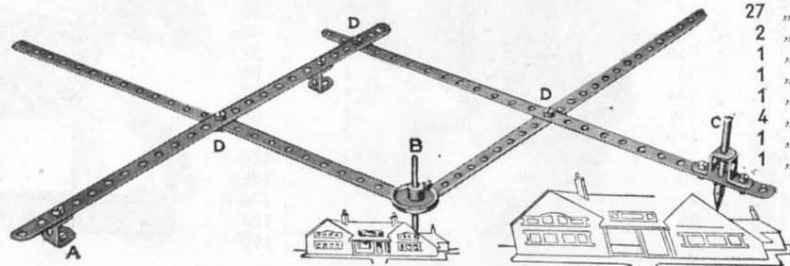
C92. Pantograph

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.

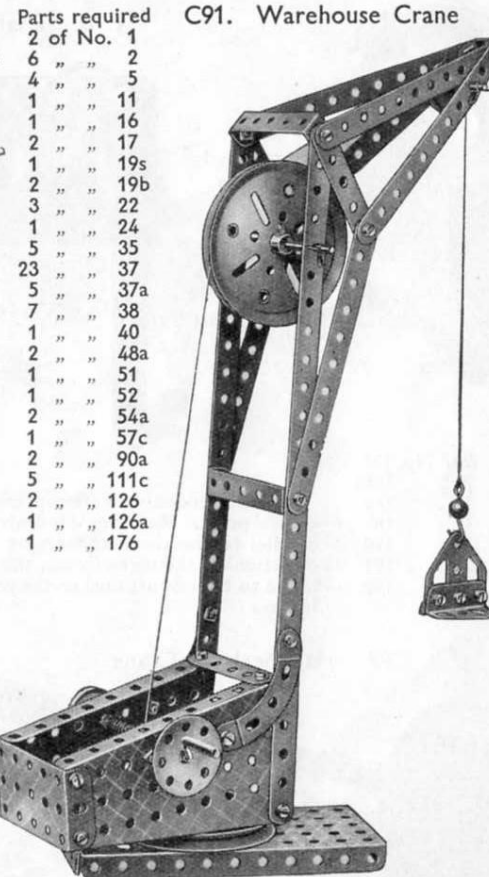
The Bolts at D are fitted with lock-nuts to allow free movement of the $12\frac{1}{2}$ " Strips.

required

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



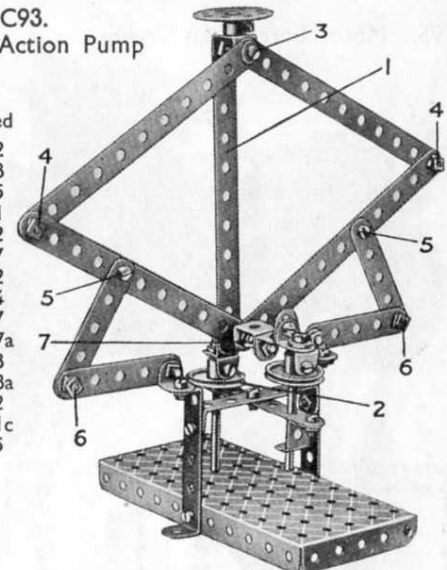
C91. Warehouse Crane



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.

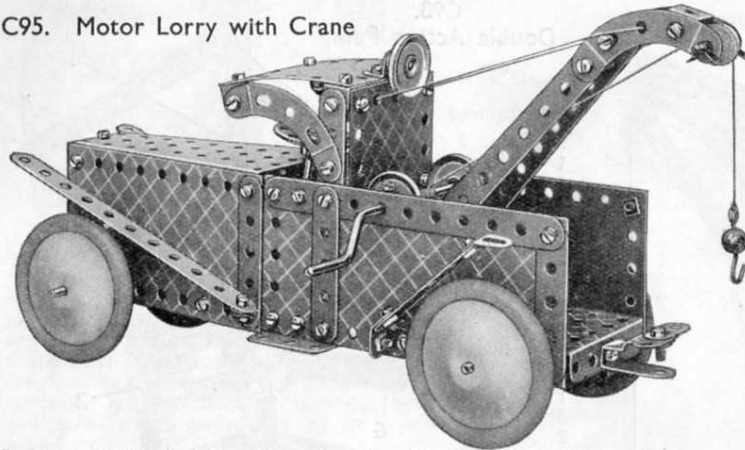
Parts required

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

C94. Lancer



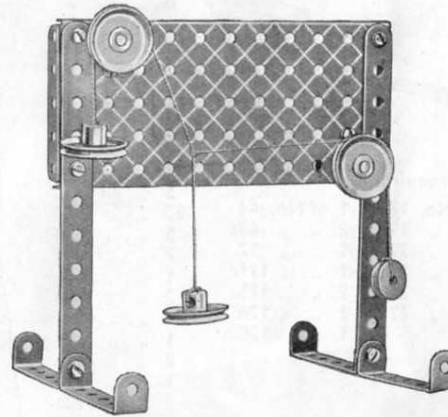
C95. Motor Lorry with Crane



Parts required

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

C98. Triangle of Forces

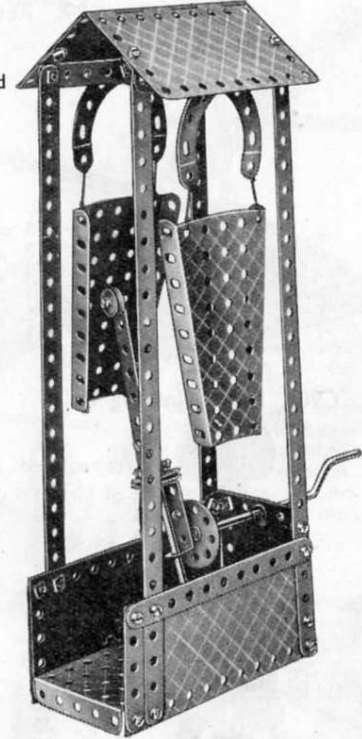


The suspended weights represent three forces acting on a central point. If a triangle is drawn with its sides respectively parallel to the three converging cords, i.e., parallel to the directions of the three forces, the lengths of the sides will be found to be proportional to the respective magnitudes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

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



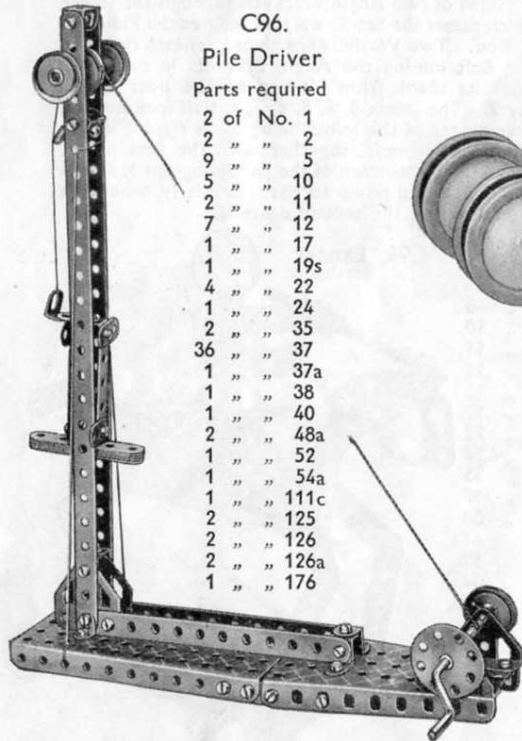
Parts required	4 of No.	12c	1 of No.	24	5 of No.	48a	2 of No.	126
8 of No.	2	2	4	35	1	51	2	126a
1	3	1	16	37	1	52	1	176
9	5	2	17	37a	2	54a	4	187
4	10	1	19s	38	1	57c	3	190
1	11	4	22	40	4	90a	2	191
7	12	1	23	44	2	111c	1	192

C96.

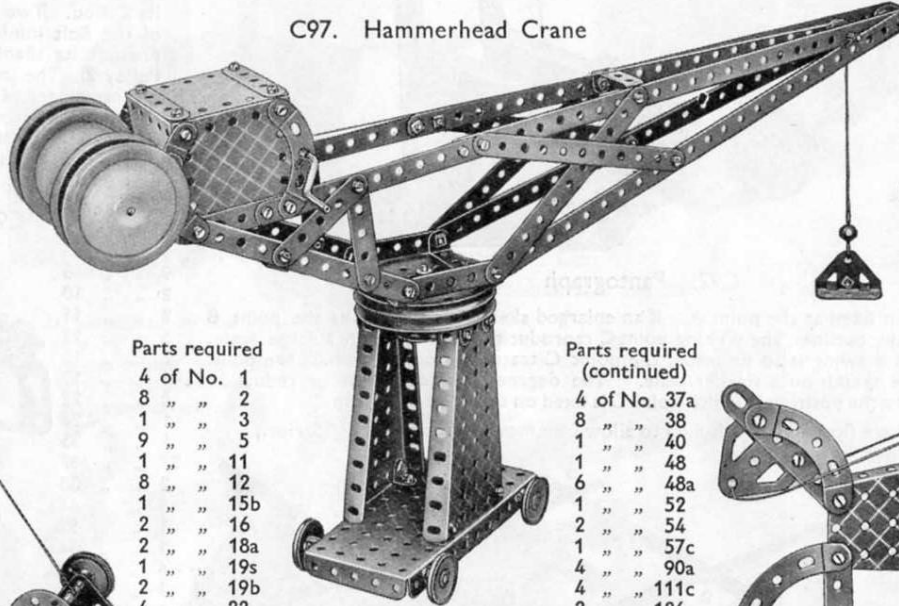
Pile Driver

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

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

C100. Horse and Cart

Parts required

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

2 of No. 18a

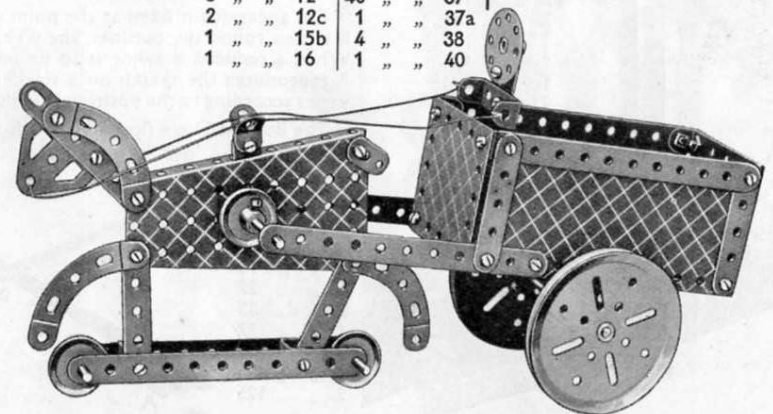
2	"	19b
4	"	22
1	"	24
2	"	35
40	"	37
1	"	37a
4	"	38
1	"	40

1 of No. 48

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

1 of No. 111c

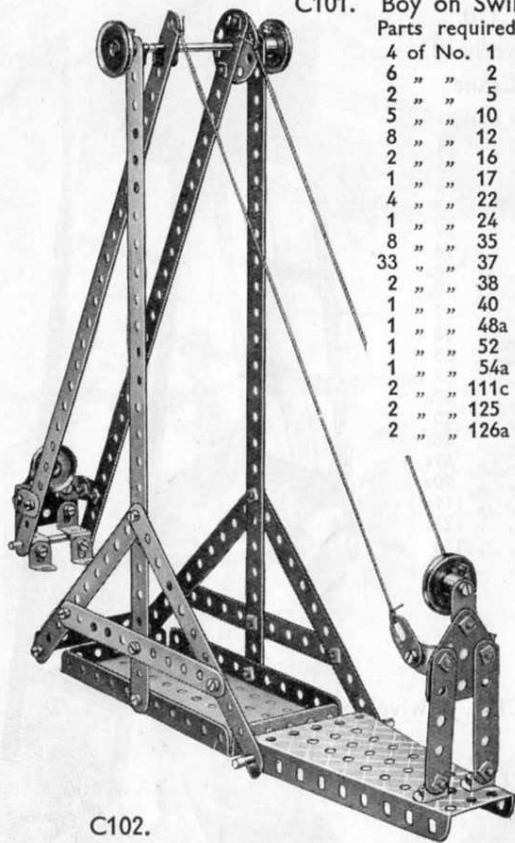
2	"	126
2	"	126a
2	"	190
2	"	192



C101. Boy on Swing

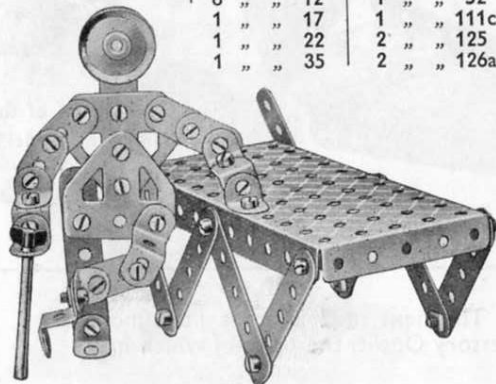
Parts required

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



C102. King Meccano

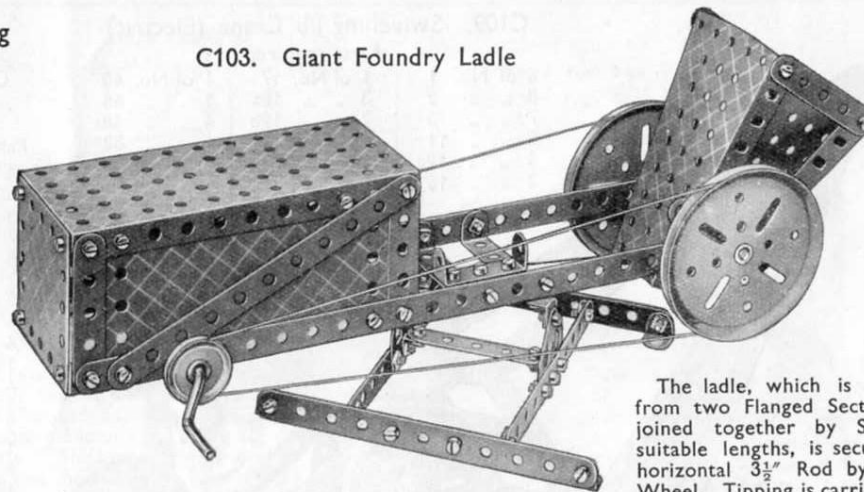
1 of No. 3	5 of No. 10	30 of No. 37
9 " " 5	8 " " 12	1 " " 52
	1 " " 17	1 " " 111c
	1 " " 22	2 " " 125
	1 " " 35	2 " " 126a



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	2 " " 187
1 " " 19s	
2 " " 19b	
4 " " 22	
1 " " 23	
1 " " 24	
6 " " 35	
46 " " 37	
2 " " 37a	
6 " " 38	
1 " " 40	

C103. Giant Foundry Ladle

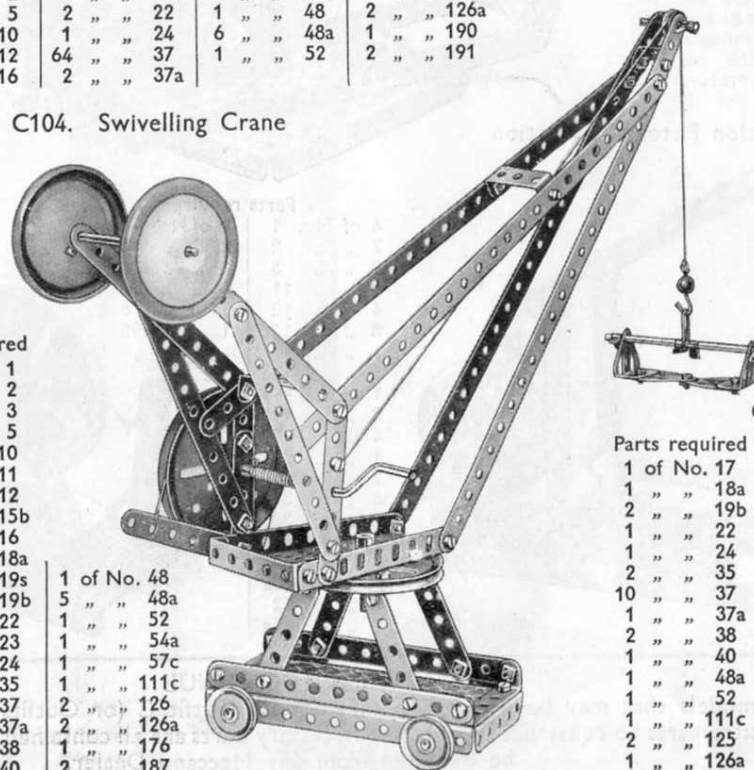


The ladle, which is built up from two Flanged Sector Plates joined together by Strips of suitable lengths, is secured to a horizontal $3\frac{1}{2}$ " Rod by a Bush Wheel. Tipping is carried out by two cords as shown.

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



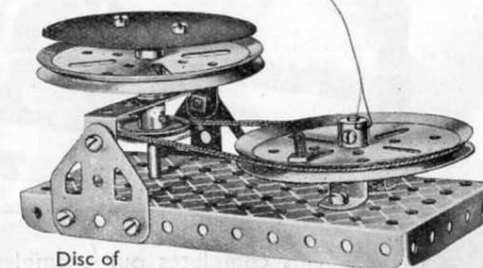
Parts required

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

C106. Rotary Linisher

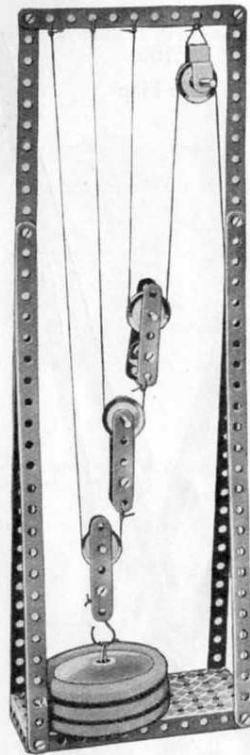
Parts required

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



Disc of Emery Cloth (not included in Outfit)

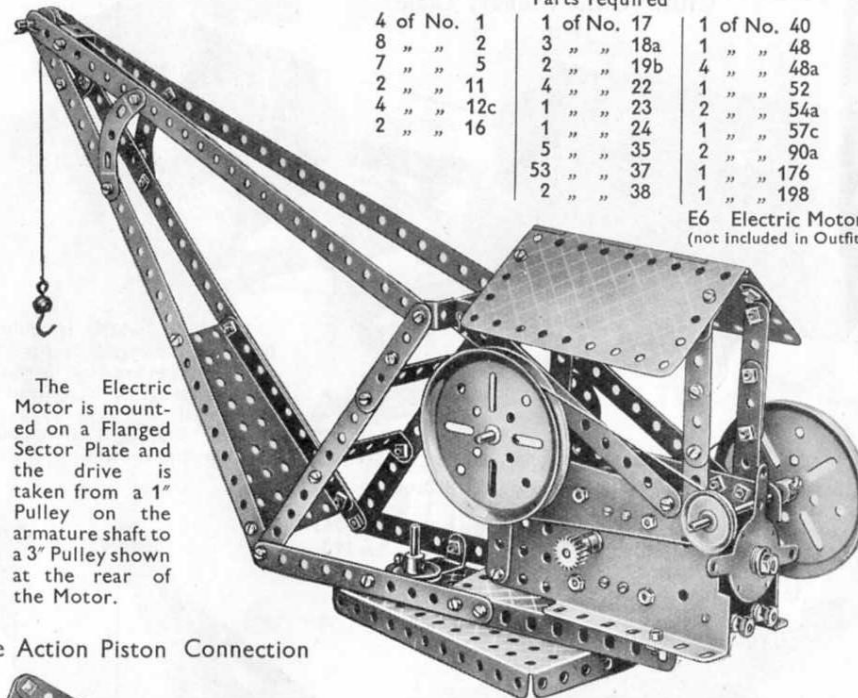
These Models can be built with **MECCANO Outfit C** (or Outfits B and Ba)



C107.
Pulley Block
8:1

Parts required

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



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

C109. Swivelling Jib Crane (Electric)

Parts required

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

E6 Electric Motor
(not included in Outfit)

C110.
Overhead
Crane

Parts required

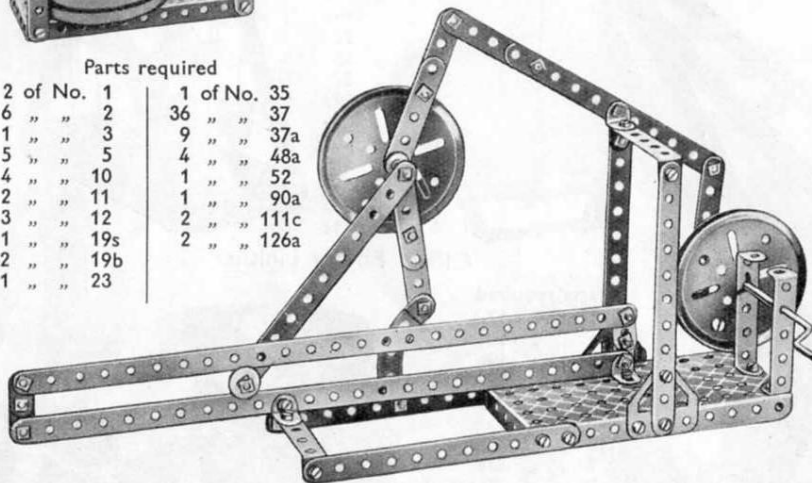
4 of No. 1	
4 " " 2	
8 " " 5	
2 " " 10	
8 " " 12	
2 " " 16	
1 " " 18a	
1 " " 19s	
4 " " 22	
1 " " 23	
4 " " 35	
48 " " 37	
2 " " 37a	
1 " " 40	
6 " " 48a	
1 " " 57c	
4 " " 90a	
1 " " 111c	
2 " " 126a	
1 " " 176	
2 " " 191	



C108. Double Action Piston Connection

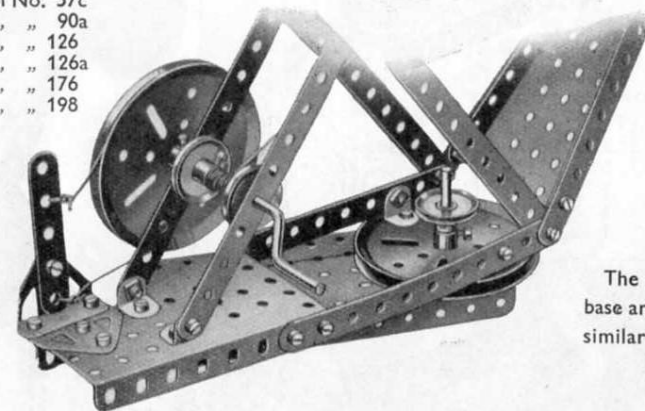
Parts required

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



Parts required

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

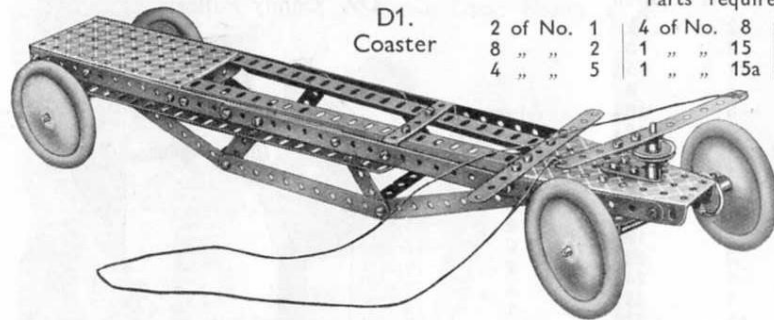


C111. Swivelling Jib Crane
(Hand)

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

HOW TO CONTINUE

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.

D1.
Coaster

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

The chassis is built up from two $12\frac{1}{2}$ " Angle Girders and two $12\frac{1}{2}$ " Strips, joined together as shown and spaced apart by a $5\frac{1}{2}$ " \times $2\frac{1}{2}$ " Flanged Plate, a Flanged Sector Plate and a $2\frac{1}{2}$ " \times $\frac{1}{2}$ " Double Angle Strip. The rear axle is carried in two Trunnions and the front axle Fig. D1a in a $2\frac{1}{2}$ " \times $\frac{1}{2}$ " Double Angle Strip that is secured by a Bush Wheel to a short Rod mounted in the boss of a Crank.

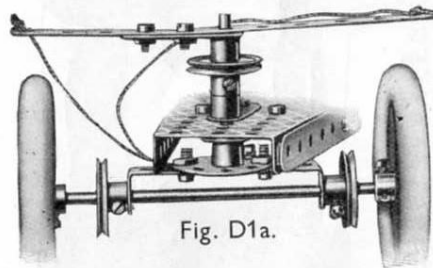
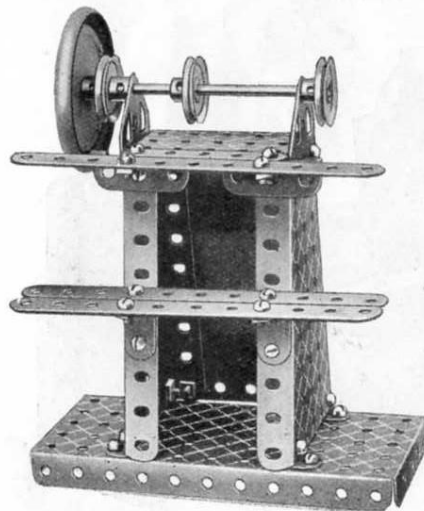


Fig. D1a.

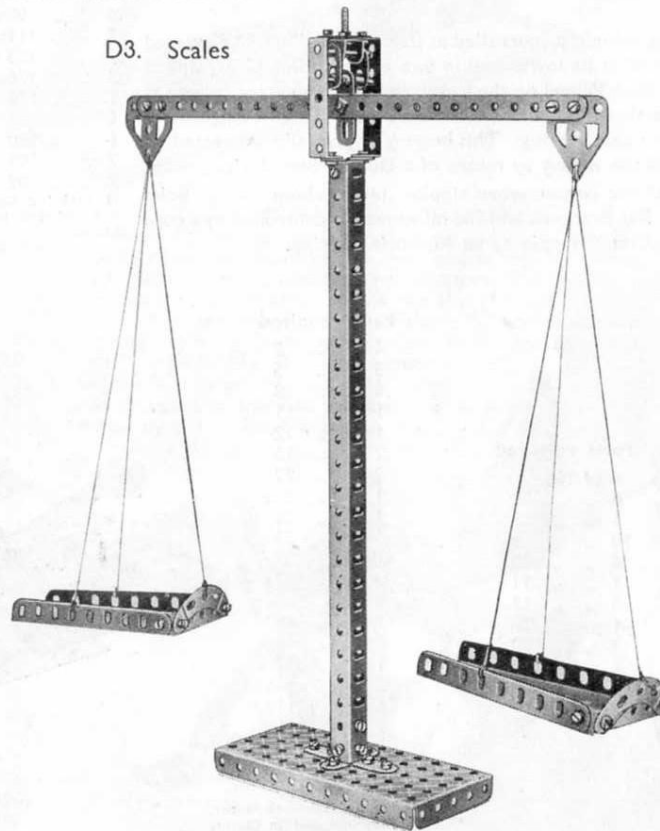
D2. Polishing Spindle

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



Parts required

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

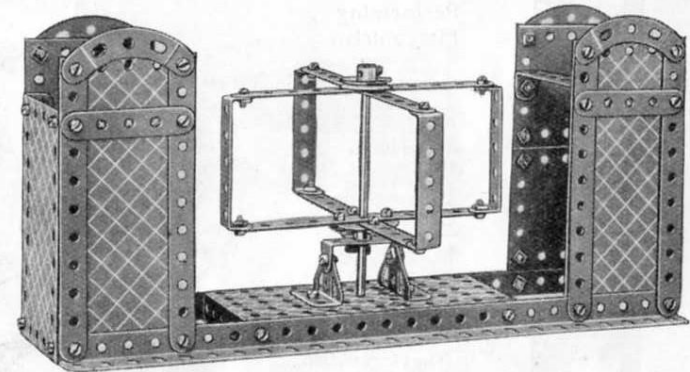


D3. Scales

D4. Turnstile

Parts required

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

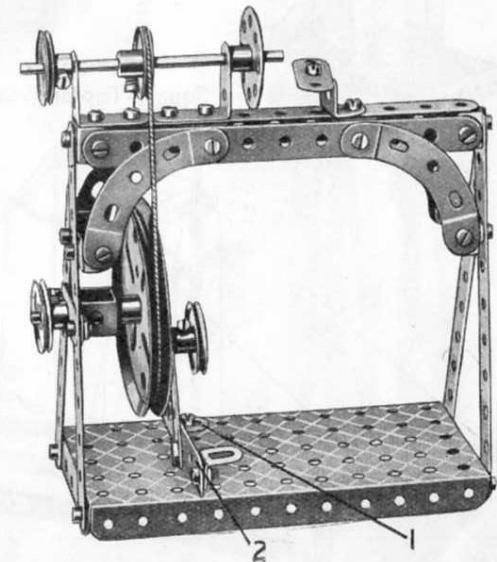


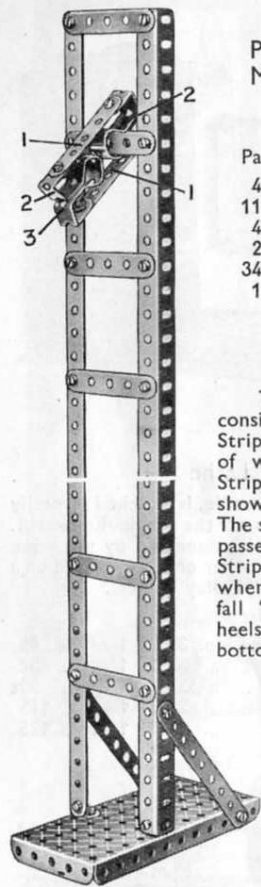
D5. Treadle Lathe

The $2\frac{1}{2}$ " Strip 2, forming the treadle, is attached pivotally by means of a Bolt and two Nuts to the Angle Bracket 1. One end of a further $2\frac{1}{2}$ " Strip is connected by the same means to the $2\frac{1}{2}$ " Strip 2, and the other end is mounted on a Threaded Pin secured to the 3" Pulley Wheel.

Parts required

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



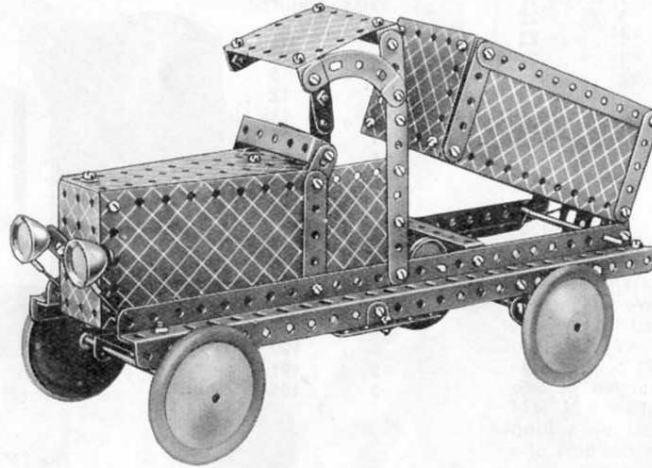


D6.
Performing
Meccanitian

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

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

D8. Tipping Motor Wagon



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

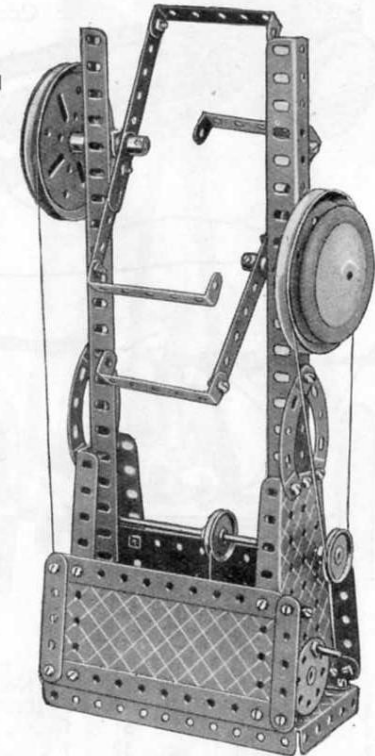
The body of the wagon, when tipping, pivots about two $\frac{3}{16}$ " Bolts held in place by Flat Brackets, and the movement is controlled by a cord attached to the Crank Handle by an Anchoring Spring.

Parts required

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

(1 Lighting Set not included in Outfit)

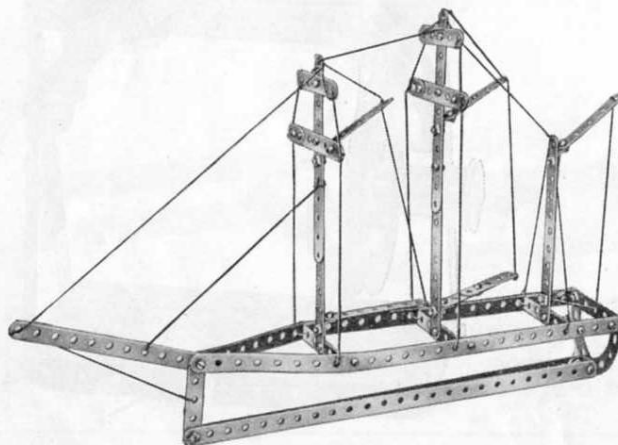
D9. Candy Puller



Parts required

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

D7.
Square-Topsail Schooner



Parts required

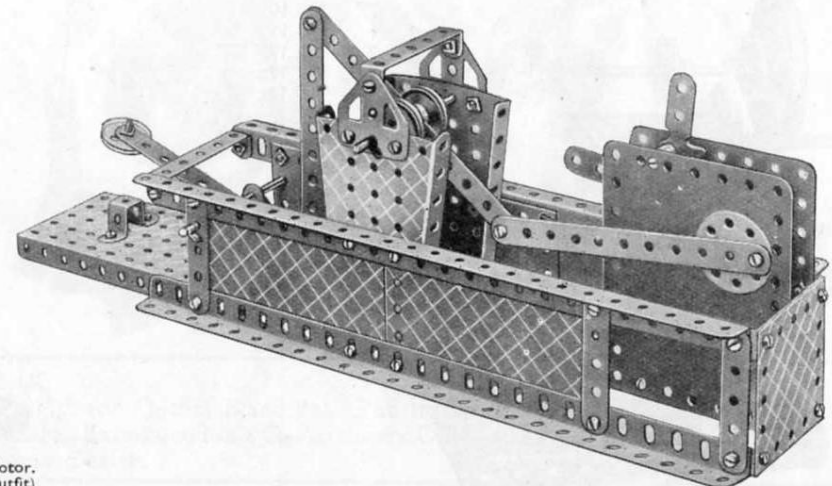
4 of No.	
6 "	1
1 "	2
1 "	3
10 "	5
4 "	10
1 "	11
5 "	12
41 "	37
1 "	40
4 "	48a
2 "	90a

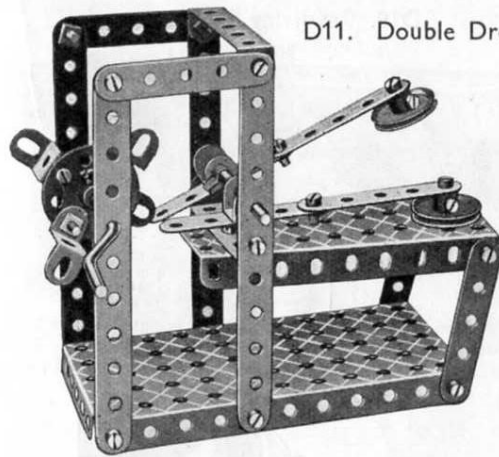
Parts required

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

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

D10. Mechanical Hammer





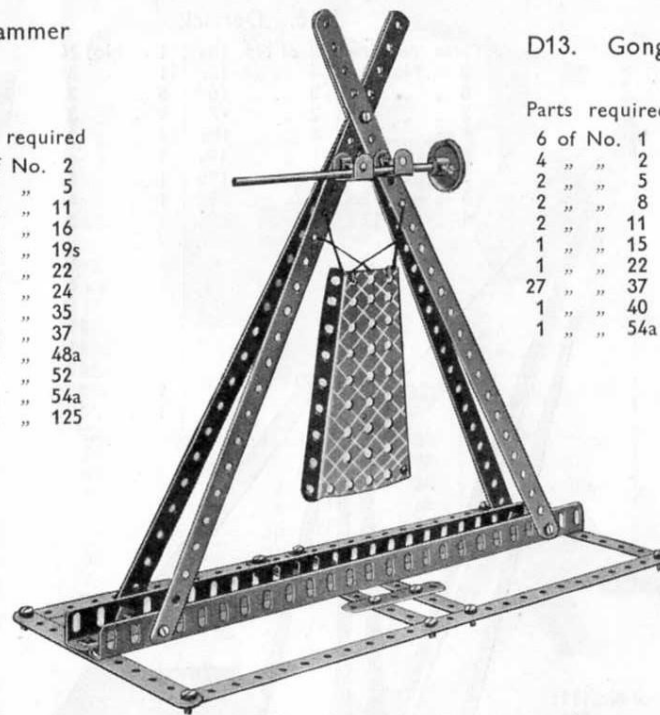
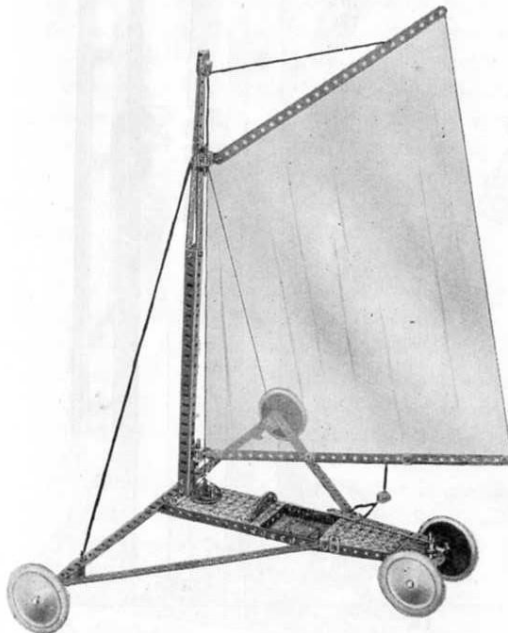
D11. Double Drop Hammer

Parts required

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

D12. Land Yacht

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



D13. Gong

Parts required

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

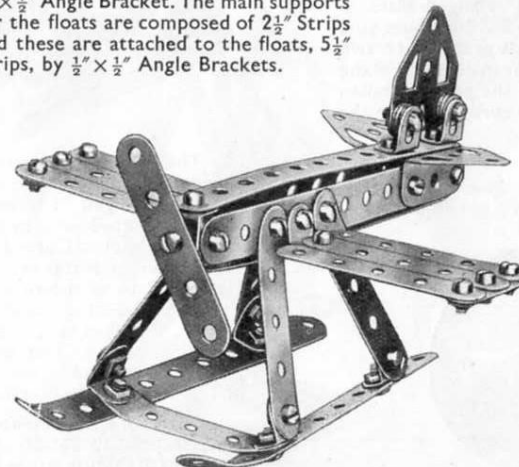
D14. Schneider Trophy Seaplane

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

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

Parts required

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



D15. "Try-Your-Strength" Machine

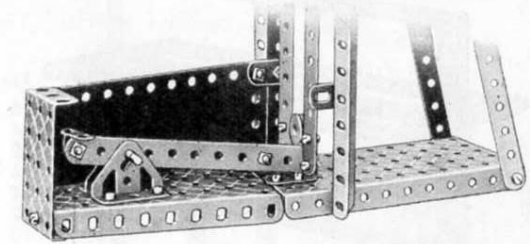


Fig. D15a

The striker Fig. D15b, a Bush Wheel mounted on a 2" Rod, is allowed to rest at its lower end on one end of the lever forming the link between the striker and the weight Fig. D15a. The weight is represented by a $\frac{1}{2}"$ loose Pulley, and slides vertically between two lengths of Strips.

Parts required

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

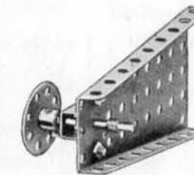
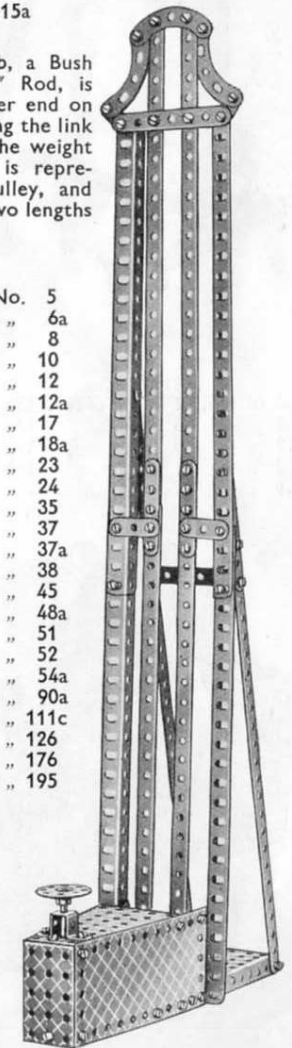


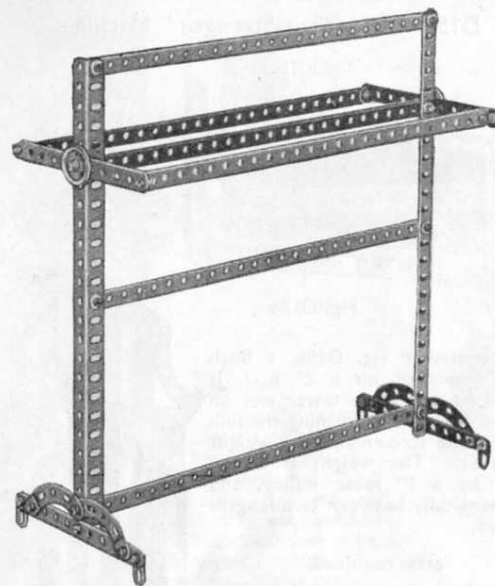
Fig. 15b

Parts required

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



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



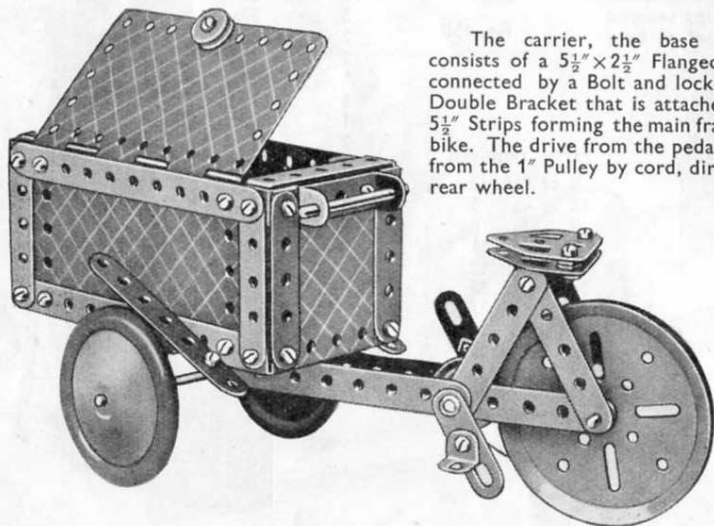
D16.
Towel Horse

Parts required

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

D17. Carrier Tricycle

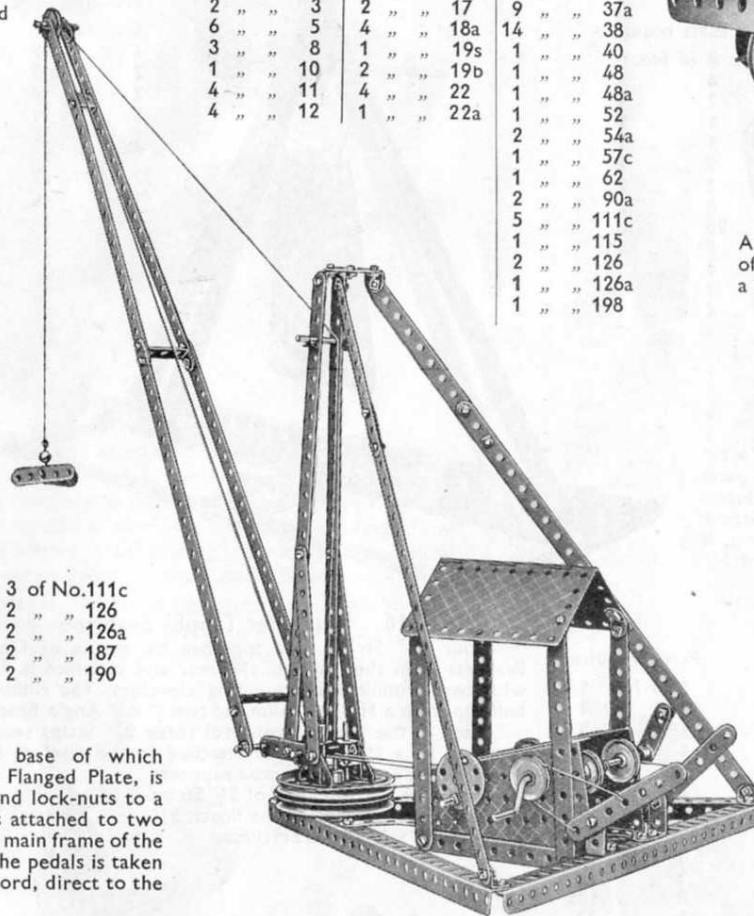
Parts required		Parts required		Parts required	
4 of No. 2	1 of No. 15b	1 of No. 23	1 of No. 40	3 of No. 111c	
2 " " 3	1 " " 17	4 " " 35	1 " " 48	2 " " 126	
12 " " 5	2 " " 18a	40 " " 37	4 " " 48a	2 " " 126a	
2 " " 11	1 " " 19b	10 " " 37a	1 " " 52	2 " " 187	
6 " " 12	1 " " 22	9 " " 38	2 " " 62	2 " " 190	
	1 of No. 191	1 of No. 198			



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

D18. Derrick

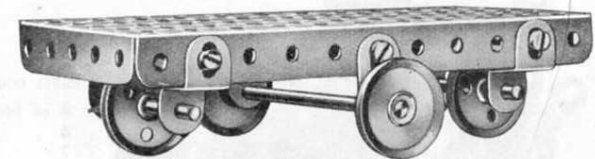
Parts required	2 of No. 12a	1 of No. 24
8 of No. 1	4 " " 12c	11 " " 35
8 " " 2	3 " " 16	56 " " 37
2 " " 3	2 " " 17	9 " " 37a
6 " " 5	4 " " 18a	14 " " 38
3 " " 8	1 " " 19s	1 " " 40
1 " " 10	2 " " 19b	1 " " 48
4 " " 11	4 " " 22	1 " " 48a
4 " " 12	1 " " 22a	1 " " 52
		2 " " 54a
		1 " " 57c
		1 " " 62
	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



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

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

D19. Revolving Truck



Parts required

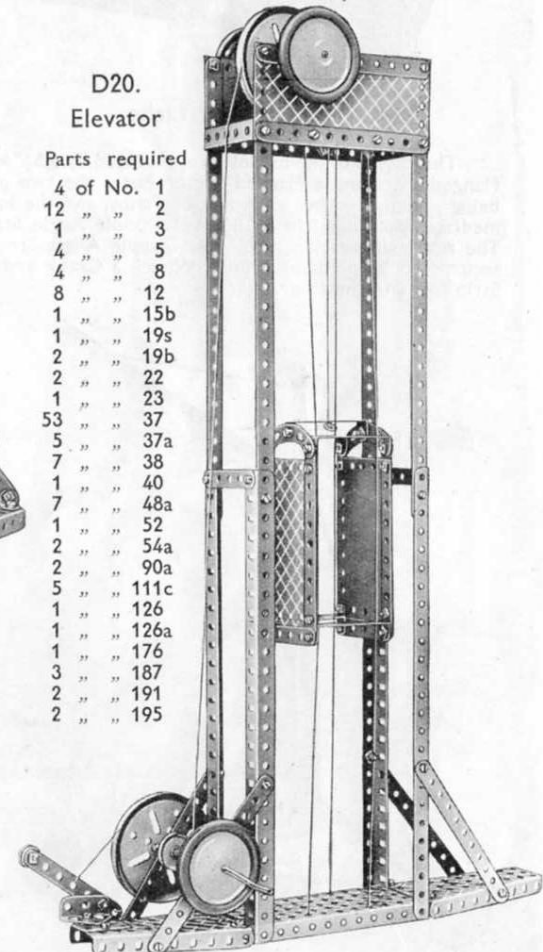
2 of No. 10	2 of No. 22	6 of No. 37
1 " " 16	2 " " 22a	1 " " 52
2 " " 17	4 " " 35	4 " " 125

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

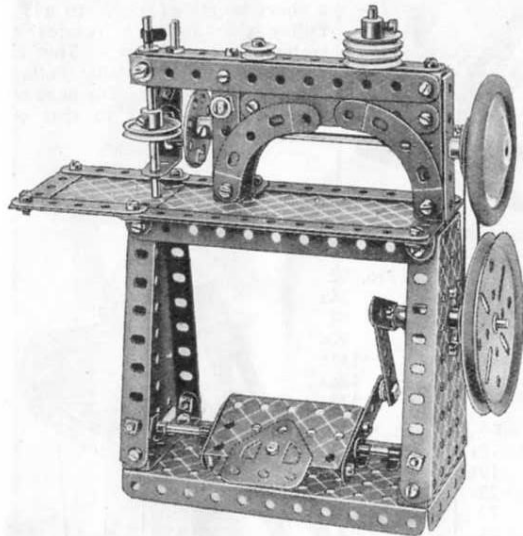
D20.
Elevator

Parts required

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



D21. Sewing Machine



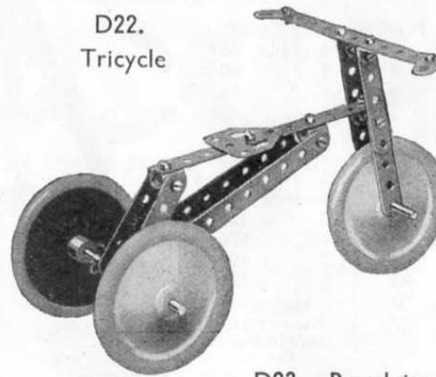
Parts required	
7 of No. 2	
2 " " 3	
6 " " 5	
1 " " 6a	
3 " " 10	
1 " " 11	
10 " " 12	
2 " " 12a	
2 " " 15	
1 " " 16	
1 " " 17	
1 " " 18a	
1 " " 19b	
4 " " 22	
2 " " 22a	
1 " " 23	
1 " " 24	
5 " " 35	
50 " " 37	
8 " " 37a	
8 " " 38	
7 " " 45	
1 " " 48a	
1 " " 51	
1 " " 52	
2 " " 54a	
1 " " 62	
4 " "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

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

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

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

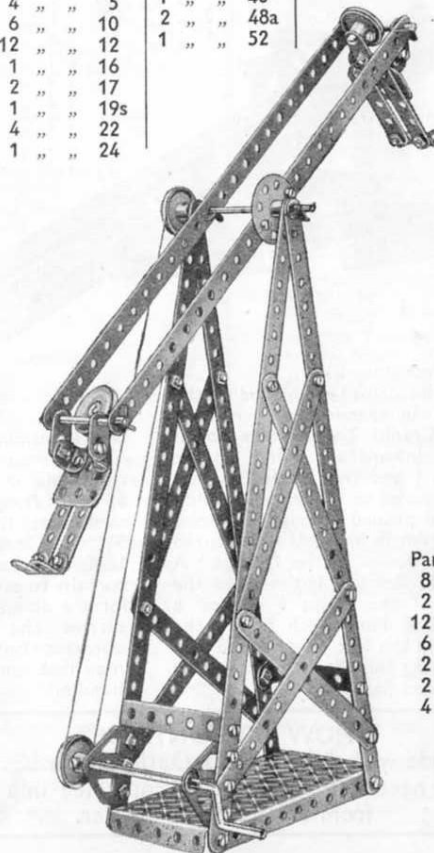
D22. Tricycle



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

D23. Revolving Meccanicians

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

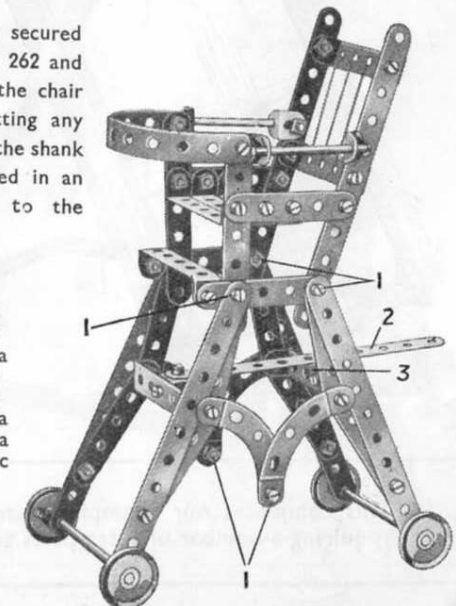


Note. The illustration shows two Flat Trunnions forming journals for the Crank handle. They should be replaced by Trunnions, each being secured to its $12\frac{1}{2}''$ Strip by two Angle Brackets.

D25. Baby Chair

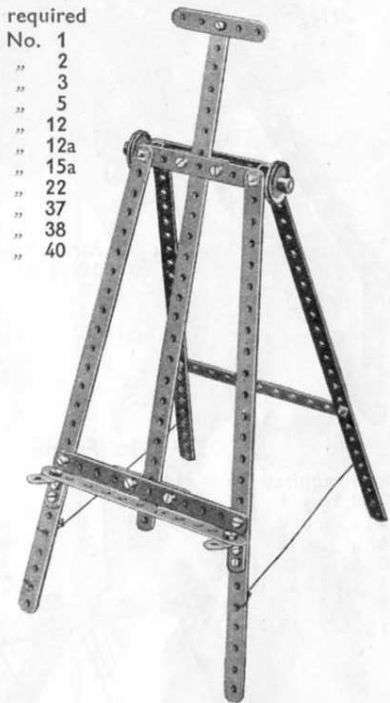
The Bolts 1 are all secured pivotally (see S.M. Nos. 262 and 263), and the height of the chair may be adjusted by fitting any hole in the Strip 2 over the shank of a Bolt that is secured in an Angle Bracket bolted to the Double Angle Strip 3.

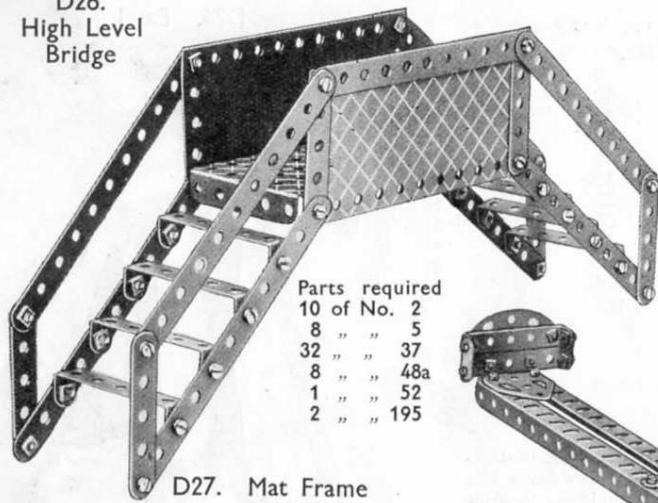
Parts required		4 of No. 35	
8 of No. 2		35 " " 37	
2 " " 3		2 " " 37a	
12 " " 5		4 " " 38	
6 " " 12		1 " " 40	
2 " " 16		8 " " 48a	
2 " " 17		4 " " 90a	
4 " " 22		1 " " 111c	



D24. Easel

Parts required	
5 of No. 1	
3 " " 2	
2 " " 3	
3 " " 5	
4 " " 12	
2 " " 12a	
1 " " 15a	
2 " " 22	
19 " " 37	
4 " " 38	
1 " " 40	

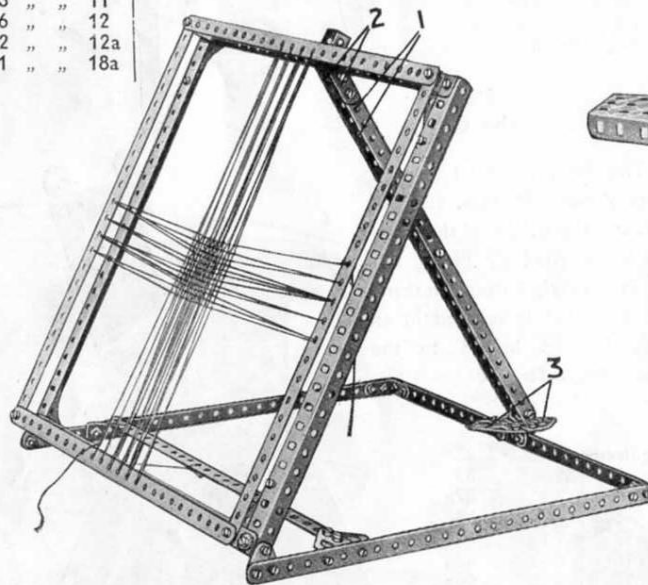


D26.
High Level
Bridge

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

D27. Mat Frame

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



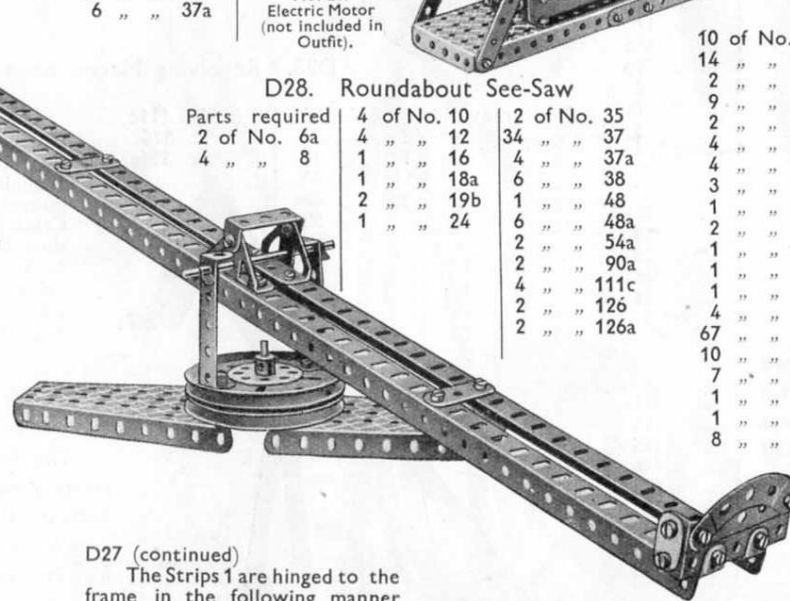
Parts required

8 of No. 1	6 of No. 38
14 " " 2	1 " " 40
2 " " 3	1 " " 44
8 " " 5	8 " " 48a
2 " " 6a	1 " " 52
4 " " 8	2 " " 54a
6 " " 12	4 " " 90a
4 " " 16	5 " " 111c
2 " " 19b	2 " " 126a
3 " " 22	1 " " 176
1 " " 24	3 " " 190
5 " " 35	2 " " 191
65 " " 37	
6 " " 37a	

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

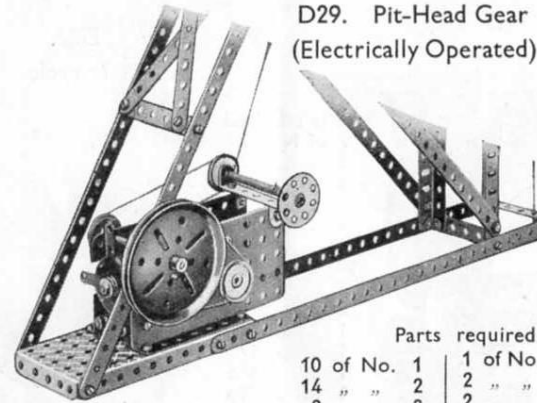
D28. Roundabout See-Saw

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



D27 (continued)

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

D29. Pit-Head Gear
(Electrically Operated)

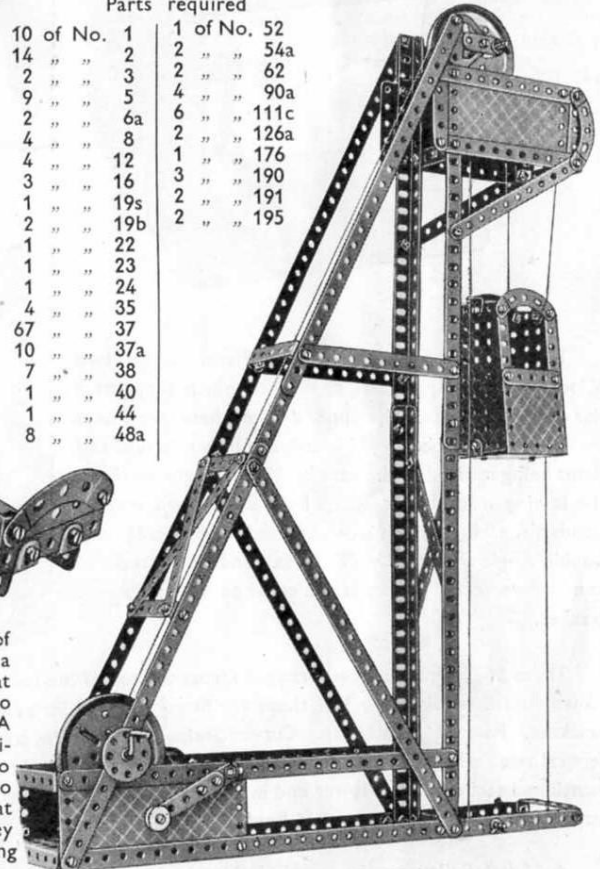
The motor is carried on a $5\frac{1}{2}'' \times 2\frac{1}{2}''$ Flanged Plate, and supports on its armature shaft a 1" fast Pulley. This is connected by a short length of cord to a 3" Pulley that in turn rotates a second 1" fast Pulley. This is coupled to a third similar Pulley on the hoisting shaft.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

D30. Pit-Head Gear
(Hand Operated)

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

D30 (continued)

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



HOW TO CONTINUE

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

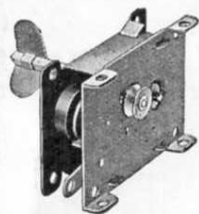
Accumulators

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

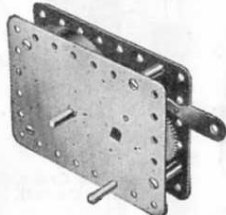
The 2-volt 20-amp. hr. Meccano Accumulator is supplied for converting 4-volt Accumulators to 6-volt.

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



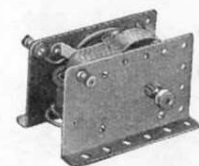
No. 2 Clockwork Motor



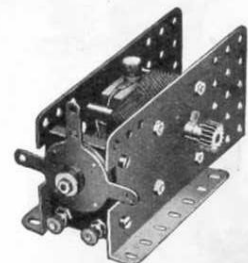
Resistance Controller



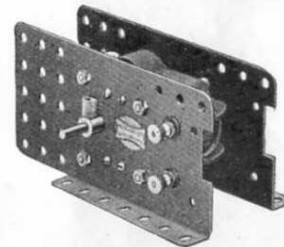
6-volt 20-amp. hr. Accumulator



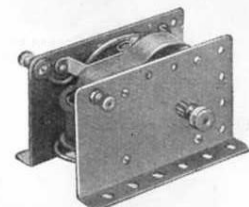
No. E1 Electric Motor (6-volt)



No. E6 Electric Motor (6-volt)



No. E20a Electric Motor (20-volt)



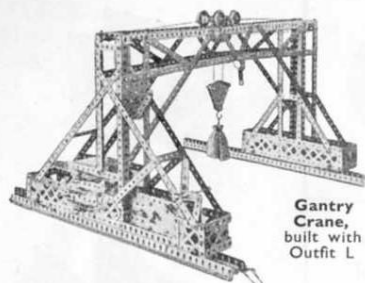
No. E1/20 Electric Motor (20-volt)



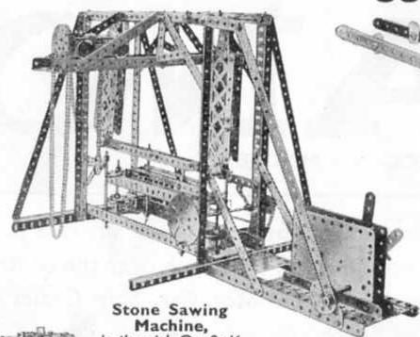
No. T20 Transformer

Ask your dealer for a complete price list

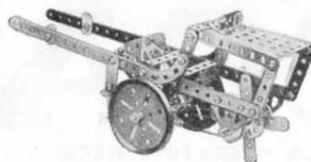
Build Bigger and Better Models



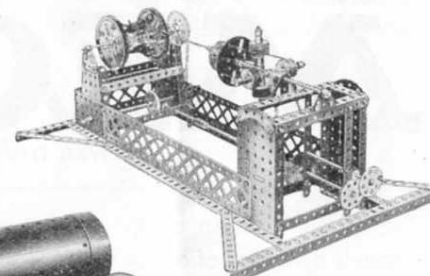
Gantry Crane,
built with Outfit L



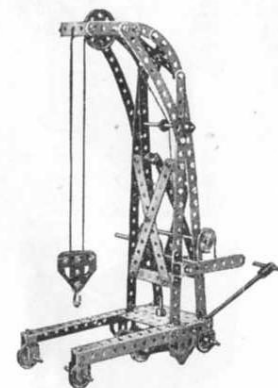
Stone Sawing Machine,
built with Outfit K



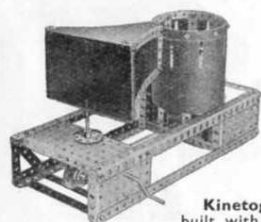
Hay Tedder,
built with Outfit E



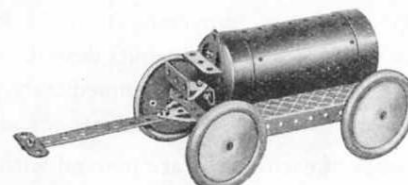
Wire-Rope Making Machine,
built with Outfit G



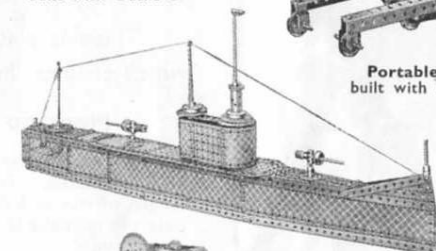
Portable Crane,
built with Outfit K



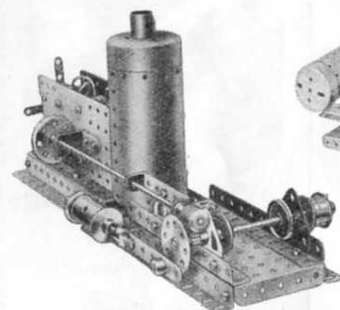
Kinetograph,
built with Outfit F



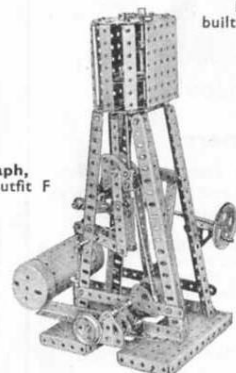
Tank Wagon,
built with Outfit F



Submarine,
built with Outfit G



Steam Winch,
built with Outfit G



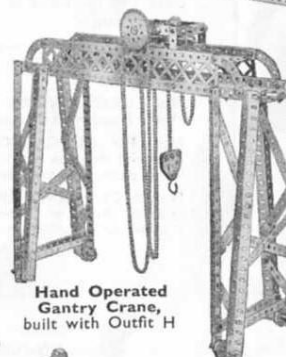
Vertical Marine Engine,
built with Outfit H

Keep Adding to your Outfit

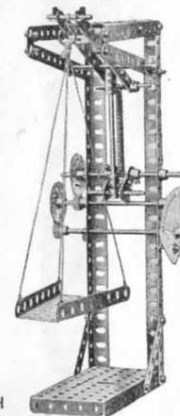
The more Meccano parts you have, the bigger and better the models you are able to build. Keen and enthusiastic model-builders keep adding to their Outfits, until they are able to build all the wonderful models shown in the Meccano Manuals.

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

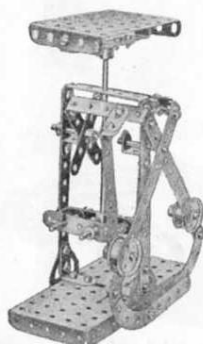
You can purchase separate Meccano parts as you require them, or, if you prefer, you can purchase Accessory Outfits that connect all the main Outfits.



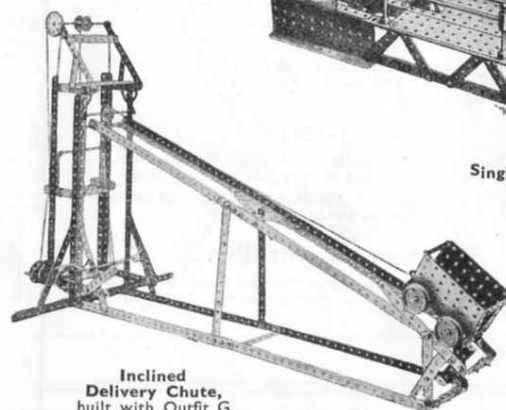
Hand Operated Gantry Crane,
built with Outfit H



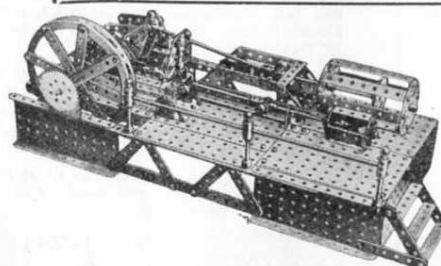
Spring Scales,
built with Outfit H



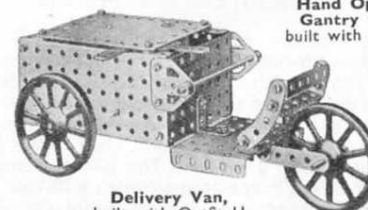
Letter Balance,
built with Outfit E



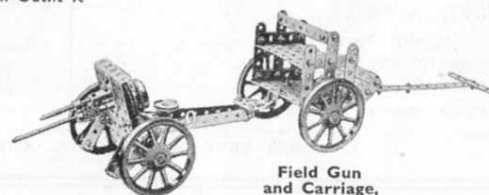
Inclined Delivery Chute,
built with Outfit G



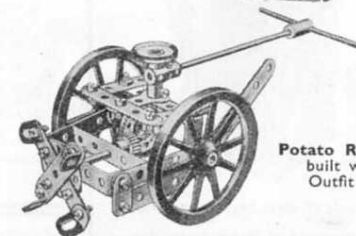
Single Cylinder Horizontal Steam Engine,
built with Outfit K



Delivery Van,
built with Outfit H

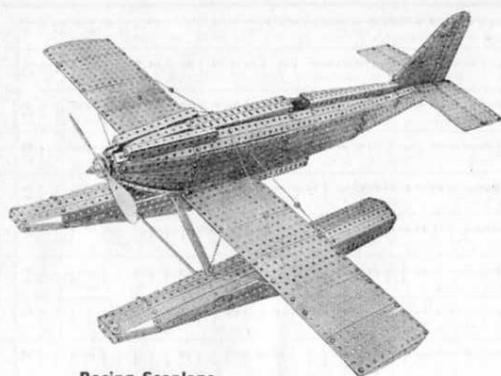


Field Gun and Carriage,
built with Outfit H

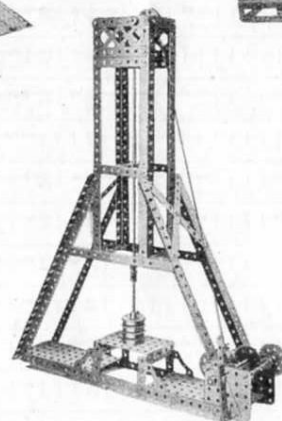


Potato Reaper
built with Outfit H

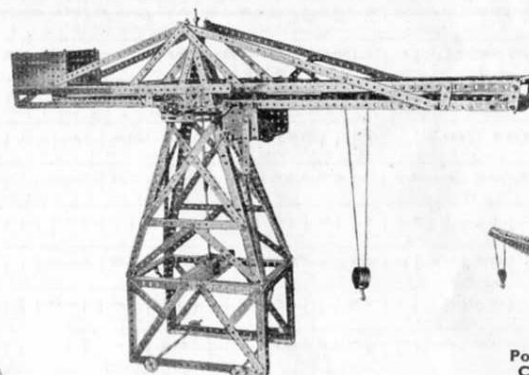
The Possibilities of Meccano are Unlimited



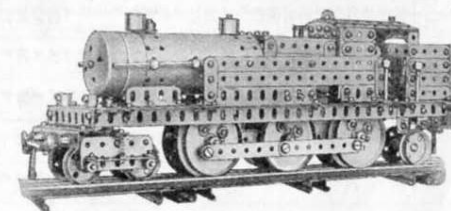
Racing Seaplane,
built with Outfit L



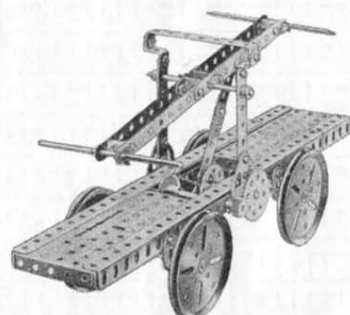
Drop Hammer,
built with Outfit K



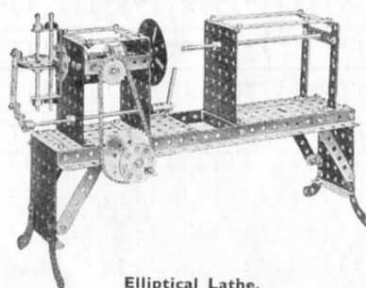
Radial
Travelling Crane,
built with Outfit K



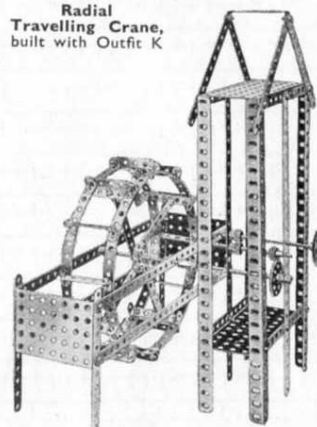
Clockwork Pacific
Tank Locomotive,
built with Outfit L



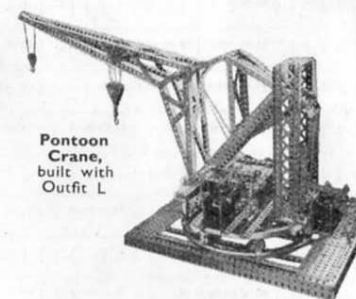
Hand Trolley,
built with Outfit F



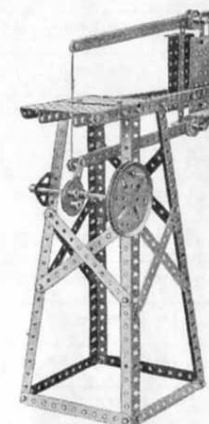
Elliptical Lathe,
built with Outfit G



Belgian Water Wheel,
built with Outfit H



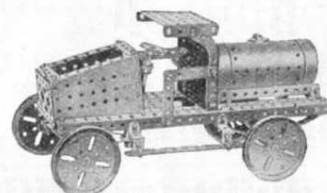
Pontoon
Crane,
built with
Outfit L



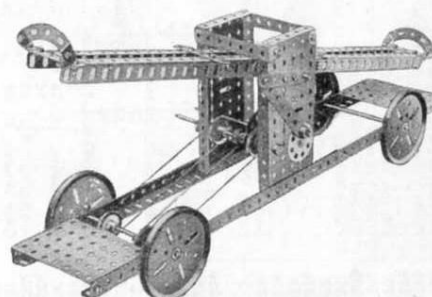
Fret Saw,
built with Outfit H



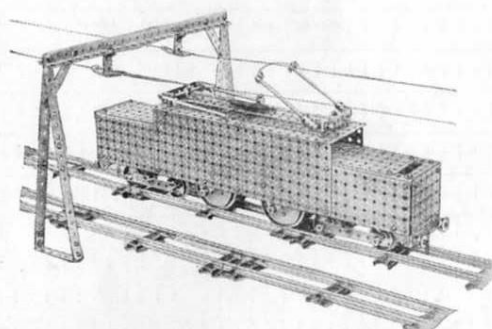
Boring Machine,
built with Outfit F



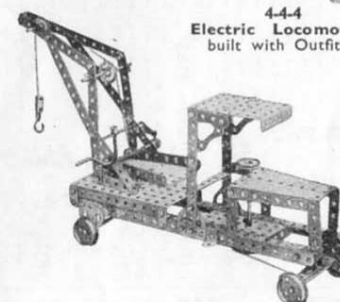
Tank Lorry,
built with Outfit F



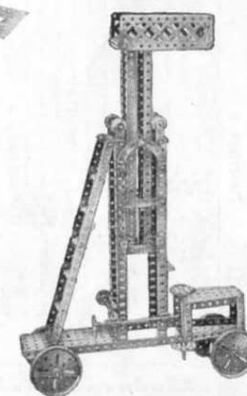
Actuated See-Saw,
built with Outfit F



4-4-4
Electric Locomotive,
built with Outfit K



Motor
Breakdown Crane,
built with Outfit G



Tower Wagon,
built with Outfit F

CONTENTS OF OUTFITS AND COMPLETE LIST OF MECCANO PARTS

[illegible]

FOR ILLUSTRATIONS OF MECCANO PARTS REFER TO BACK PAGE OF COVER

No.	Description.	A	A2	B	Ba	C	Ca	D	Da	E	Ea	F	Fa	G	Ga	H	Ha	K	Ka	L
142c	Motor Types, 1"																			
142d	" " " " 1 1/2"																			
143	Circular Girders, 5 1/2" diam.																			
144	Dog Clutches																			
145	Circular Strips, 7" diam.																			
146	" " Plates, 6" diam.																			
146a	" " " " 4"																			
147	Pawls with pivot bolt and nuts																			
147a	Pawls																			
147b	Pivot Bolt with 2 Nuts																			
147c	Pawl, without Boss																			
148	Ratchet Wheels																			
149	Collector Shoes for Locos																			
150	Crane Grabs																			
151	Pulley Blocks, 1 Sheave																			
152	" " 2 Sheaves																			
153	" " 3																			
154a	Corner Angle Brackets, 1/2" R.H.																			
154b	" " " " 1/2" L.H.																			
155	Rubber Rings, 1/2"																			
156	Pointers, 2 1/2", with boss																			
157	Pins 2" diam.																			
158a	Signal Arms, Home																			
158b	" " Distant																			
160	Channel Bearings, 1 1/2" X 1 1/2"																			
161	Girder Brackets, 2" X 1 1/2" X 3"																			
162	Boiler with ends, complete																			
163	Boiler Ends																			
162b	Boilers without Ends																			
164	Sleeve Pieces																			
165	Chimney Adaptors																			
166	Swivel Bearings																			
167	End Bearings																			
167a	Centred Roller Bearings																			
167b	Roller Races, Gearing, 192 teeth																			
167c	Ring Frames for Rollers																			
168	Pins																			
168a	Ball Bearings, 4" diam.																			
168b	Ball Races, Flanged Disc																			
168c	Ball Races, Toothed																			
169	Ball Races complete with Balls																			
170	Digger Buckets																			
171	Excavators, 1" throw																			
172	Socket Couplings																			
173	Pendulum Connections																			
174	Ball Adaptors																			
175	Grease Cups																			
176	Flexible Coupling Units																			
177	Anchoring Springs for Cord																			
178	Shafting Standard, Large																			
179	Rod "Socket"																			
180	Gear Ring 3 1/2"																			
181	Bobbins																			
182	Insulating Bushes																			
183	Lamp Holders																			
184a	Lamps, 2 1/2 volt																			
184b	" 6																			
184c	" 10																			
184d	" 20																			
185	Steering Wheel 1 1/2" diam.																			
186	Driving Bands																			
187	Road Wheels																			
188	Flexible Plates, 2 1/2" X 1 1/2"																			
189	" " 2 1/2" X 2 1/2"																			
190	" " 4" X 2 1/2"																			
191	" " 5" X 2 1/2"																			
192	" " 2" X 2 1/2"																			
193	" " 3" X 2 1/2"																			
194	" " 9" X 2 1/2"																			
195	" " 12" X 2 1/2"																			
196	" " 12" X 2 1/2"																			
197	Hinged Flat Plates, 4 1/2" X 2 1/2"																			
198	Terminals																			
1563	Washers, insulating																			
1570	6 B.A. Screws																			
1575	6 B.A. Nuts																			
1583	Clockwork Motor No. 2																			
	Electric Motor No. E6 (6 volt)																			
Special Instruction Leaflets																				
No.	1—Motor Chassis																			
	2—High-speed Ship-Coaler																			
	5—Dredger																			
	6—Stiff Leg Derrick																			
	7—Platform Scales																			
	9—Bagatelle Table																			
	10—Log Saw																			
	12—Stone-sawing Machine																			
	13—Mechanograph																			
	14a—New Grandfather Clock																			
	16a—New Loom																			
	17—Planing Machine																			
	18—Revolving Crane																			
	19—Steam Shovel																			
	20—Electric Mobile Crane																			
	21—Transporter Bridge																			
	22—Traction Engine																			
	23—Vertical Log Saw																			
	24—Travelling Gantry Crane																			
	25—Hydraulic Crane																			
	26—Twin-elliptic Harmonograph																			
	28—Pontoon Crane																			
	29—Hammerhead Crane																			
	30—Breakdown Crane																			
	31—Warehouse																			
	33—Automatic Grabbing Crane																			
	36—Electric Derrick Crane																			
	37—Howitzer Limber and Tractor																			

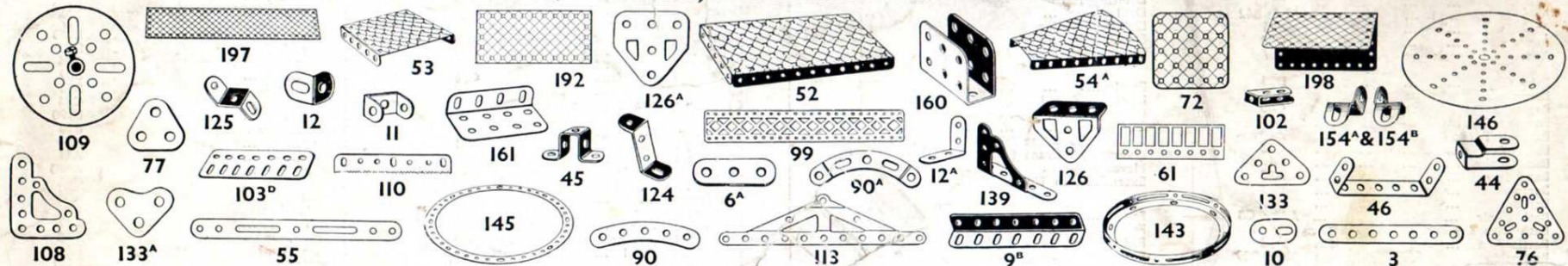
Full instructions for building a fine range of models are included with each Outfit.

LIST OF MODELS ILLUSTRATED IN THIS MANUAL

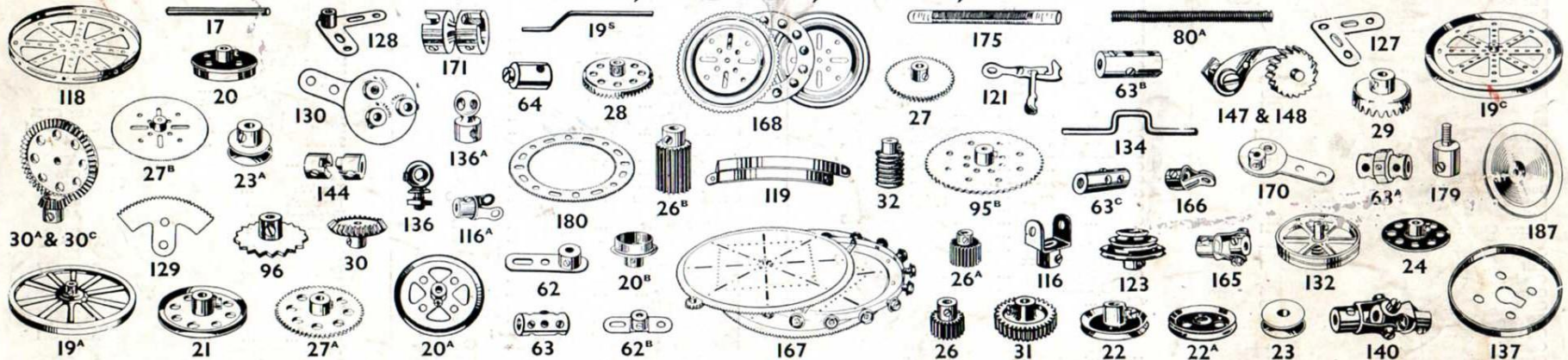
Acrobat on See-saw ...	C86	Dinner Wagon ...	A54	Ladder ...	A69	Roundabout See-Saw ...	D28
Aerial Flight ...	C20	Disappearing Mechanician ...	C80	Ladder on Wheels ...	A11; C56	Rowing Boat ...	C84
Aeroplane ...	C47	Dog ...	A2	Lamp Standard ...	C42	Scales ...	A51; B19; D3
American Saddle ...	B47	Double Action Piston Connection ...	C108	Lancer ...	C94	Schneider Trophy Seaplane ...	D14
Anchor ...	A13	Double Action Pump ...	C93	Land Yacht ...	D12	School Blackboard ...	B81
Anti-Aircraft Gun ...	A48	Double Drop Hammer ...	D11	Lathe ...	A74	Scooter ...	B115
Arc Lamp ...	B113	Drafting Table ...	B10	Letter Balance ...	C15	See-Saw ...	B118
Arm Chair ...	A23; B42	Drill ...	C43	Lever of 1st Order ...	A52	Sedan Chair ...	B57
Ash Cart ...	B55	Drilling Machine ...	A72; B21	Lever of 2nd Order ...	B45	Sensitive Drill ...	B108
Autogiro ...	C79	Dressing Table ...	B114	Level Crossing Barrier ...	A82	Sewing Machine ...	D21
Automatic Signals ...	B67	Dump Car ...	B78	Liner ...	A12	Shafting Standard ...	A64
Baby Chair ...	D25	Easel ...	D24	Loading Gauge ...	B24	Shelter ...	B89
Bacon Slicing Machine ...	A38	Easel and Board ...	B85	Lox Wing Monoplane ...	C74	Shepherd's Crook ...	B56
Bagatelle Table ...	C40	Electric Trolley ...	B37	Luggage Truck ...	C18	Ship's Steering Gear ...	C54
Baggage Cart ...	A97	Elephant ...	A53	Lumber Truck and Horse ...	A32	Sideboard ...	B120
Baggage Truck ...	A40	Elevated Jib Crane (Hand) ...	C10	Magic Plate ...	A37	Single Sheave Pulley Block ...	B18
Ballista ...	C48	Elevated Jib Crane (Electric) ...	C14	Mail Bag Hanger ...	A81	Skier ...	A99
Band Brake ...	C1	Elevator ...	C78; D20	Man and Boy ...	B1	Sled ...	A41
Band Saw ...	A33	Extended Ash Tip ...	C87	Man Climbing Pole ...	C90	Sledge ...	A100
Banjo ...	B33	Fan ...	B2	Manual Fire Engine ...	C29	Sliding Gate ...	C66
Barrow ...	A10	Fencers ...	B74	Mat Frame ...	D27	Spaniel ...	A84
Bath Chair ...	A67; C8	Field Roller ...	C12	Meccano Dancer ...	C52	Spinning Buttons ...	C34
Bath with Shower ...	B104	Fire Axe ...	A14	Mechanical Gong ...	C99	Sports Car ...	C17
Battle Axe ...	A59; B39	Fire Escape ...	A22	Mechanical Hammer ...	D10	Sports Coupe ...	C38
Barricade ...	A80	Fire Screen ...	A19	Mechanical Shovel ...	B61; C26	Square Topsail Schooner ...	B7
Bed ...	A5	Flat Truck ...	A15; A62	Medal ...	B101	Stamping Machine ...	B121
Bed Table ...	C37; C68; C69	Flip-Flap ...	C105	Milk Float ...	B103	Stamping Mill ...	A83
Belt Gear ...	A35	Fly Boats ...	B102; C24	Miller's Cart ...	A20	Station Seat ...	B31
Bench ...	B59	Flying Boats ...	C72	Mobile Crane ...	B94	Steeplechaser ...	B87
Bicycle ...	C6	Footbridge ...	B75	Modern Dressing Table ...	C33	Step Ladder ...	A18
Biplane ...	B119	Fork ...	A55	Motor Boat ...	B35	Step Ladder on Wheels ...	B97
Blacksmith ...	A85; C44	Friction Grip Tongs ...	C23	Motor Cycle and Sidecar ...	B44	Stool for Dressing Table ...	B32
Bogey Truck ...	A73	Gallows ...	A30	Motor Lorry with Crane ...	B34	Strong Man ...	B58
Bow and Arrow ...	B48	Gangway ...	B96	Motor Tractor ...	C95	Swing ...	A42; B66
Box Ball Alley ...	C35	Garden Seat ...	A28	Motor Van ...	C9	Swinging Boat ...	B68
Boxer ...	B80	Gas Stove ...	A44	Mounted Cowboy ...	C13	Swinging Garden Seat ...	B86
Boy on Swing ...	B25	Gate ...	C51	Music Stool ...	C7	Swivelling Crane ...	B14; C104
Bread Van ...	A68; B98	Giant Foundry Ladle ...	C103	Ore Crusher ...	A96	Swivelling Jib Crane ...	C109; C111
Breakdown Crane ...	B69	Giraffe ...	A71	Ostrich ...	A26	Sword ...	A4
Brewer's Dray ...	B11	Go-Chair ...	A16	Ottoman ...	B54	Table ...	A79
Bucking Broncho ...	A86	Gong ...	B22; D13	Overhead Crane ...	C110	Tandem Car ...	C76
Buffers ...	B5	Goose ...	B71	Paddle Steamer ...	C62	Tea Wagon ...	A21
Bullock Cart ...	C21	Gramophone ...	C36	Pantograph ...	C92	Teacher's Desk ...	B41
Butter Churn ...	C25	Grandfather Clock ...	A94; B99	Parallel Bars ...	B3	Telegraph Key ...	A45
Cable Railway ...	A91	Grass Cutter ...	B28	Pecking Hen ...	B27	Telegraph Pole ...	A17
Calf ...	D9	Gravel Sifter ...	A29	Pen Rack ...	A57	Telephone ...	A101; C88
Candy Puller ...	B76	Grill ...	A8	Perambulator ...	B91	Telescopic Mast ...	C31
Caravan ...	B20	Guillotine ...	C83	Performing Mechanician ...	D6	Telpher Span ...	C65; C67
Card Table ...	D17	Gymnast ...	B60; C85	Pile Driver ...	C96	Tightrope Walker ...	C50
Carrier Tricycle ...	A92; C58	Hammerhead Crane ...	C97	Pit Head Gear ...	A78; D29; D30	Timber Drag ...	C53
Cart ...	A31; B12	Hand Truck ...	A76	Pneumatic Hammer ...	C45	Timber Truck ...	A60
Catapult ...	B15; B72	Handcart ...	A39	Polishing Spindle ...	D2	Tipping Motor Wagon ...	D8
Cattle Truck ...	B38	Hanging Scales ...	A24	Pony and Trap ...	B26	Top ...	A63; C61
Centrifugal Engine Governor ...	A98; B70	Hat Rack ...	B73	Porter's Trolley ...	A61	Towel Horse ...	D16
Chair ...	B116	Hawker's Cart ...	B53	Potter's Wheel ...	C63	Tower Wagon ...	C22
Chase ...	B84	Hay Cart ...	B17	Power Hack Saw ...	B63	Tram Car ...	B110
Chesterfield Chair ...	C27	Helve Hammer ...	C3	Prancing Horse ...	B51	Travelling Crane ...	C16; C75
Chinese Windlass ...	B64	High Diving Board ...	B9	Pulley Block ...	B49; C19; C107	Treadle Lathe ...	D5
Circular Saw ...	B79	High Level Bridge ...	D26	Pullman Car ...	A88	Triangle of Forces ...	C98
Clock ...	B65; D1	Hooke's Coupling ...	C57	Pump ...	B43	Triangulated Truss ...	C2
Coaster ...	B107	Horizontal Engine ...	A25	Punching Bag Stand ...	B52	Tricycle ...	B4; D22
Coffee Stall ...	A90; B111	Horse ...	B88; C100	Punching Machine ...	C32	Trip Hammer ...	A6; B117
Coffee Table ...	A9	Horse and Cart ...	A75	Quick Return Device ...	C30	Trolley ...	D12
Collapsible Table ...	C4	Horse and Roller ...	C5	Rake ...	A1	Try-your-strength Machine ...	C39; D15
Compound Triangulated Truss ...	A43; B29	Howe Truss ...	C46	Rattle ...	B7	Turnstile ...	D4
Couch ...	B13; C41	Inclined Plane ...	C73	Revolving Crane ...	A34	Two-Wheeled Trap ...	B82
Coster's Barrow ...	A65; B50	Invalid ...	C28	Revolving Gymnasts ...	C49	Umpire's Seat ...	A77
Cot ...	A93; B62	Invalid Chair ...	C28	Revolving Mechanicians ...	D23	Violin and Bow ...	B23
Counter Scales ...	B8	Jib Crane ...	C60	Revolving Office Chair ...	B95	Walking Man ...	B6
Crane Grab ...	A70	Jockey Pulley ...	B105	Revolving Sea-Saw ...	B36	Warehouse Crane ...	C91
Cruiser ...	C82	Joiner's Bench ...	A95	Revolving Tricyclist ...	D19	Watch Stand ...	A89
Cum Bak ...	A36; C55	Jumping Jack ...	A3	Revolving Truck ...	B10	Watchman's Hut and Fire ...	B92
Deck Chair ...	D18	Junction Signal ...	B93	Rickshaw ...	A7	Weather Vane ...	B46; C64
Dentist's Chair ...	C77	King Meccano ...	C102	Rocking Chair ...	C106	Weighing Machine ...	B81
Derrick ...	A27			Rocking Horse ...	A46; C71	Well Windlass ...	C81
Derricking Crane ...				Roman Balance ...		Wheelbarrow ...	A56
Devil Wall ...				Rotary Linisher ...		Windmill ...	A50; B77
Dignity and Impudence ...				Roundabout ...		Windmill Pump ...	B90; C11
						Wringing Machine ...	A49
						Wrestlers ...	B16; C59

MECCANO PARTS & ACCESSORIES

PLATES, STRIPS, GIRDERS & BRACKETS



WHEELS, PULLEYS, GEARS, ETC.



MISCELLANEOUS

