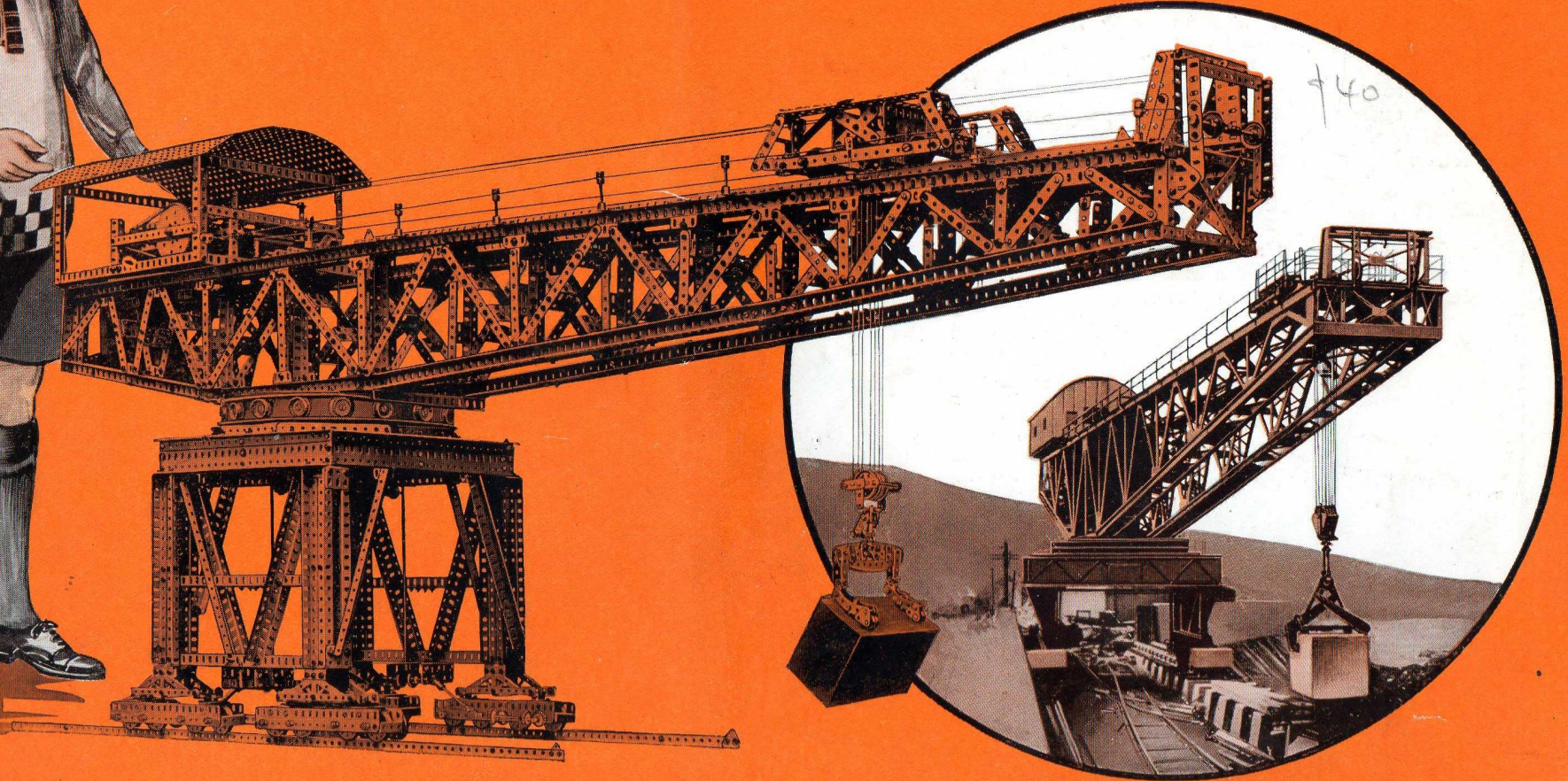
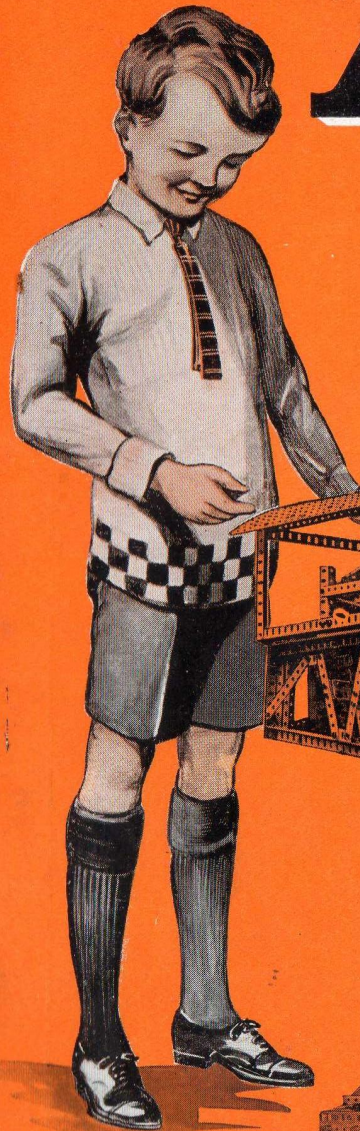


MECCANO

HORNBY'S ORIGINAL SYSTEM — FIRST PATENTED 1901

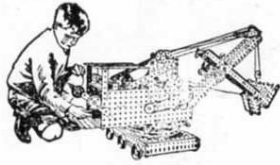
INSTRUCTIONS FOR OUTFIT Ba



35Ba

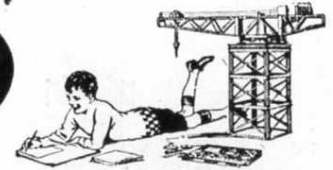
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MECCANO

HORNBY'S ORIGINAL SYSTEM—FIRST PATENTED 1901



REAL ENGINEERING IN MINIATURE

The Meccano Accessory Outfit Ba converts your Outfit B into a C, and enables you to build the additional models illustrated in this Manual. As a Meccano enthusiast you will realise that our examples do not exhaust the scope of your Outfit. It is no exaggeration to say that the possibilities of Meccano are limitless—there is always something new that you can invent and build, and most models can be constructed in many alternative ways. In addition to the fascination and satisfaction obtained by building new models, you can enter them in the model-building competitions that are a regular feature of the "Meccano Magazine." These competitions are open to all Meccano boys and valuable prizes are offered in each class.

THE "MECCANO MAGAZINE"

The "Meccano Magazine" is essential to the full enjoyment of the Meccano hobby. A section of it is devoted to the Editor's replies to his readers' enquiries; the progress of Meccano Clubs throughout the world is

reported; and full details are given of the latest model-building achievements. In addition, a wealth of informative articles on all subjects of interest to boys is included in every issue. 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 newsagent.

HOW TO PROGRESS

When you desire to make further progress and to build bigger and better models, it is only necessary for you to purchase an Accessory Outfit Ca which will convert your C into a D. In turn, an Accessory Outfit Da will convert your D into a E, and so you go on, until finally your ambition is realised and you are the proud possessor of an L Outfit.

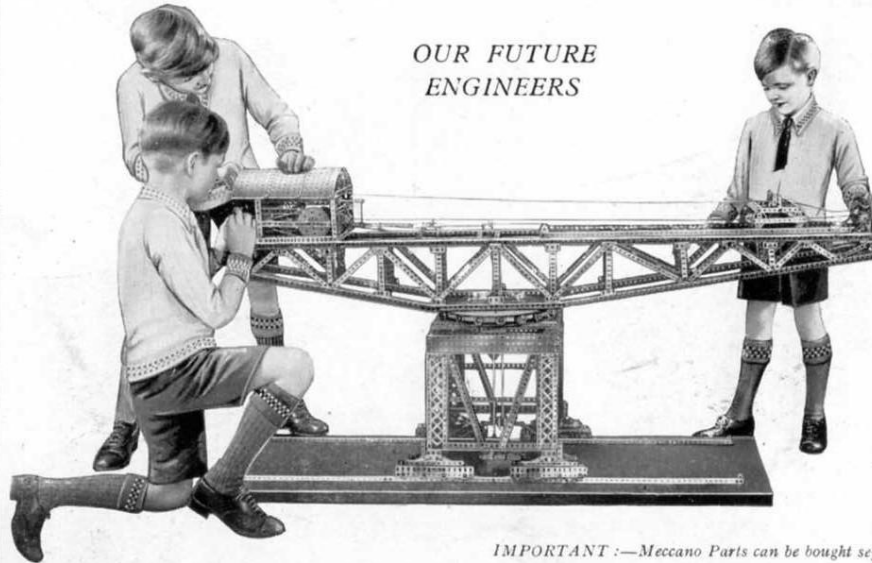
As a keen and inventive Meccano model-builder you should possess copies of the special Manuals "How to use Meccano Parts" and "Meccano Standard Mechanisms." In the former the principal uses of Meccano parts are outlined, while the latter shows a large number of real engineering mechanisms, built of Meccano parts, that can be incorporated in various models. You can obtain copies of these Manuals from your dealer, or direct from Meccano Ltd., Binns Road, Liverpool 13.

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. Some write to us because they are in difficulty, others because they want advice on their work or pleasures, or about the choice of a career. Others, again, write to us just because they like to do so and we are glad to know that they regard us as their friends.

Although all kinds of queries are put to us on all manner of subjects, the main interest is, of course, engineering. The wonderful knowledge of engineering matters possessed by our staff of experts is unique. 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.*

OUR FUTURE ENGINEERS

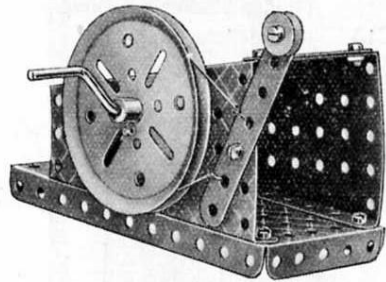


IMPORTANT :—Meccano Parts can be bought separately at any time in any quantity from your Meccano dealer

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

1

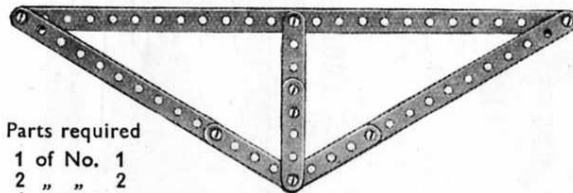
C1. Band Brake



Parts required

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

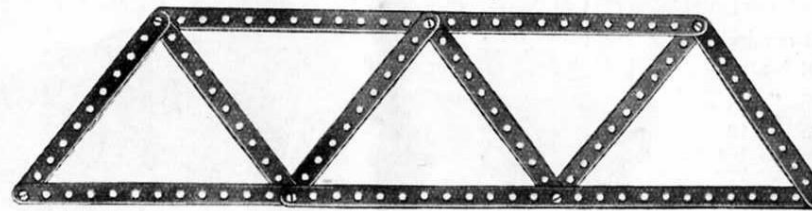
C2. Triangulated Truss



Parts required

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

C4. Compound Triangulated Truss



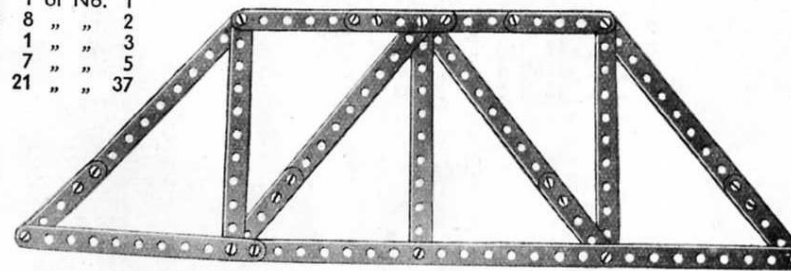
Parts required

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

C5. Howe Truss

Parts required

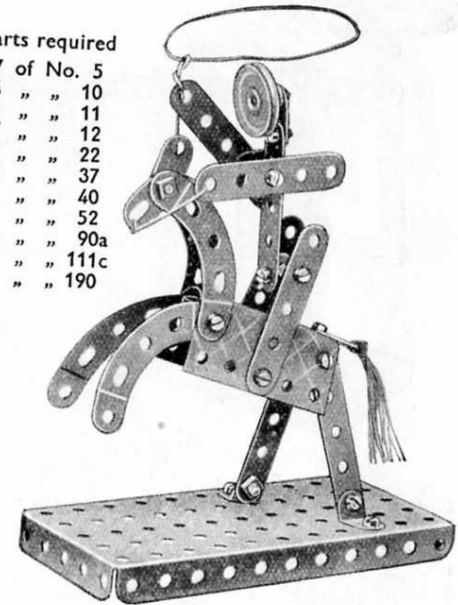
1	of No.	1
8	"	2
1	"	3
7	"	5
21	"	37



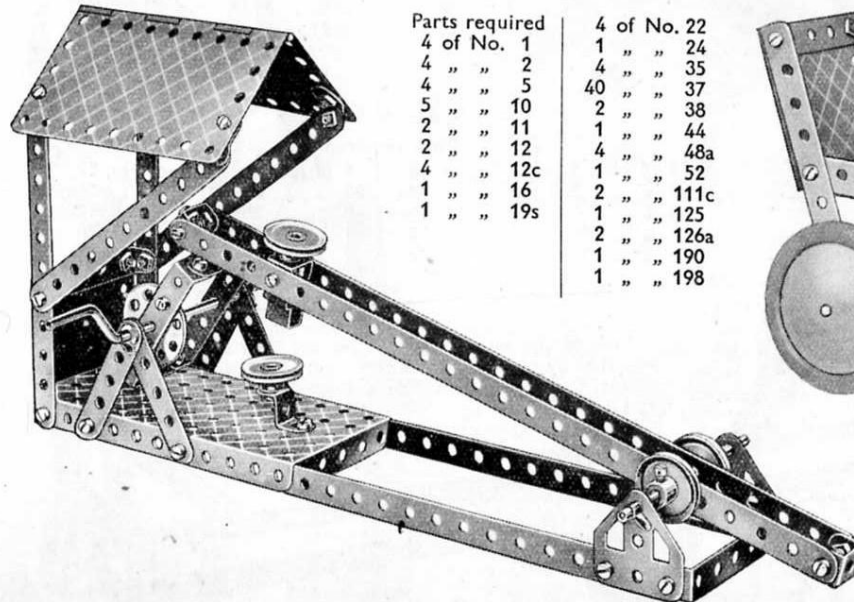
C7. Mounted Cowboy

Parts required

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



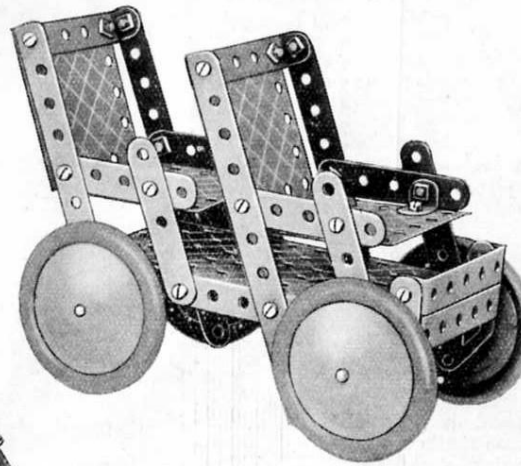
C3. Helve Hammer



Parts required

4	of No.	22
4	"	1
4	"	2
4	"	5
5	"	10
2	"	11
2	"	12
4	"	12c
1	"	16
1	"	19s
4	"	24
1	"	35
40	"	37
2	"	38
1	"	44
4	"	48a
1	"	52
2	"	111c
1	"	125
2	"	126a
1	"	190
1	"	198

C6. Tandem Car



Parts required

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

C8. Bath Chair

Parts required

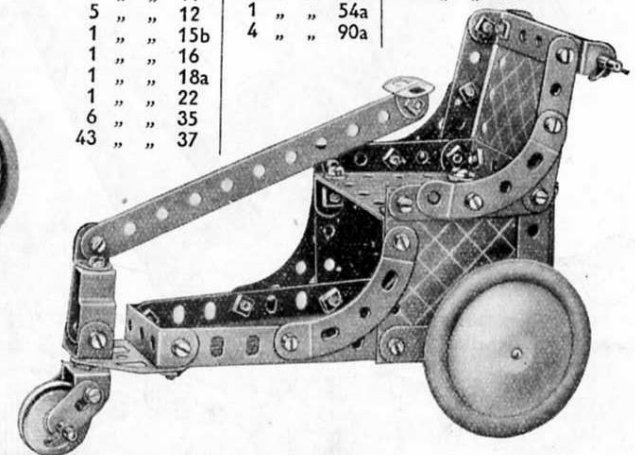
1	of No.	2
9	"	5
4	"	10
2	"	11
5	"	12
1	"	15b
1	"	16
1	"	18a
1	"	22
6	"	35
43	"	37

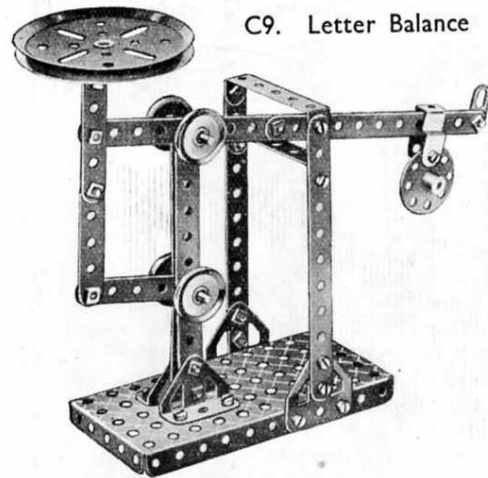
4 of No. 37a

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

1 of No. 111c

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



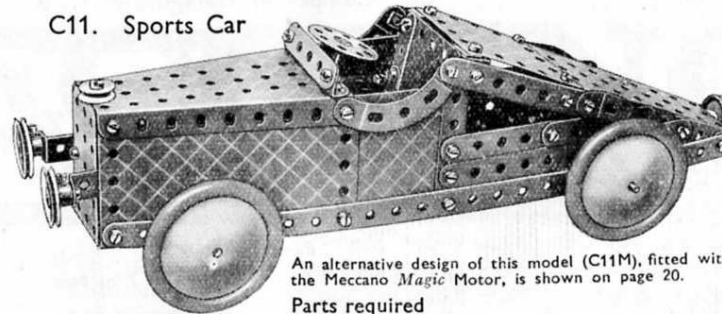


C9. Letter Balance

Parts required

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

C11. Sports Car



An alternative design of this model (C11M), fitted with the Meccano Magic Motor, is shown on page 20.

Parts required

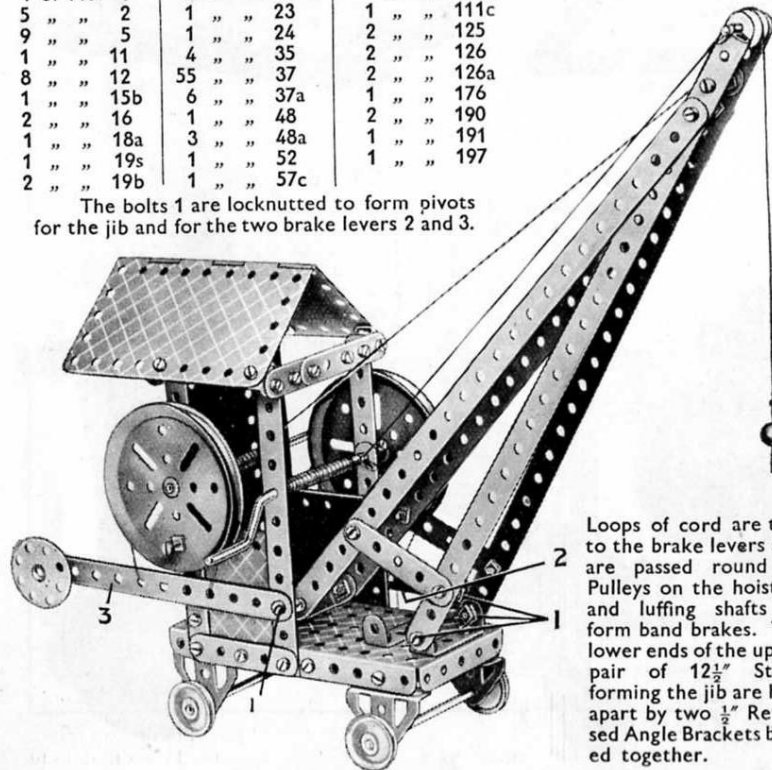
2 of No.	1	4 of No.	22	1 of No.	48	4 of No.	111c
4 " "	2	2 " "	23	2 " "	48a	2 " "	125
9 " "	5	1 " "	24	1 " "	51	2 " "	126a
2 " "	10	2 " "	35	1 " "	52	4 " "	187
8 " "	12	55 " "	37	2 " "	54a	4 " "	190
2 " "	15b	1 " "	37a	4 " "	90a	2 " "	191
1 " "	16	2 " "	38				

C10. Travelling Crane

Parts required

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

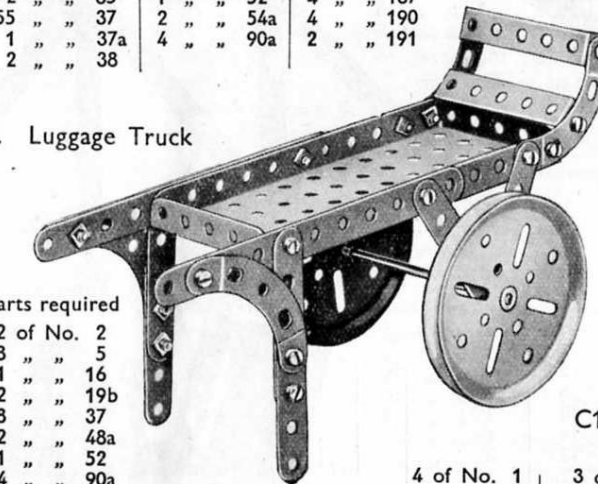
The bolts 1 are locknutted to form pivots for the jib and for the two brake levers 2 and 3.



C12. Luggage Truck

Parts required

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

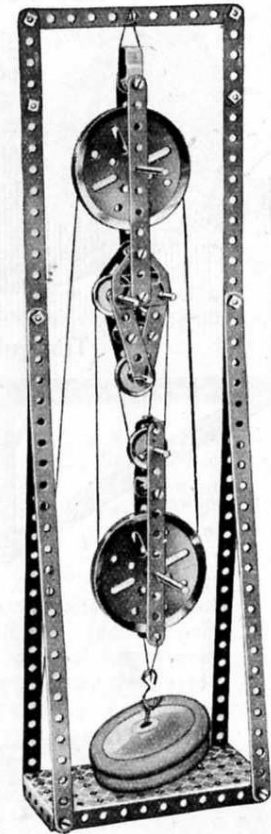


C13.

Pulley Block, 5:1

Parts required

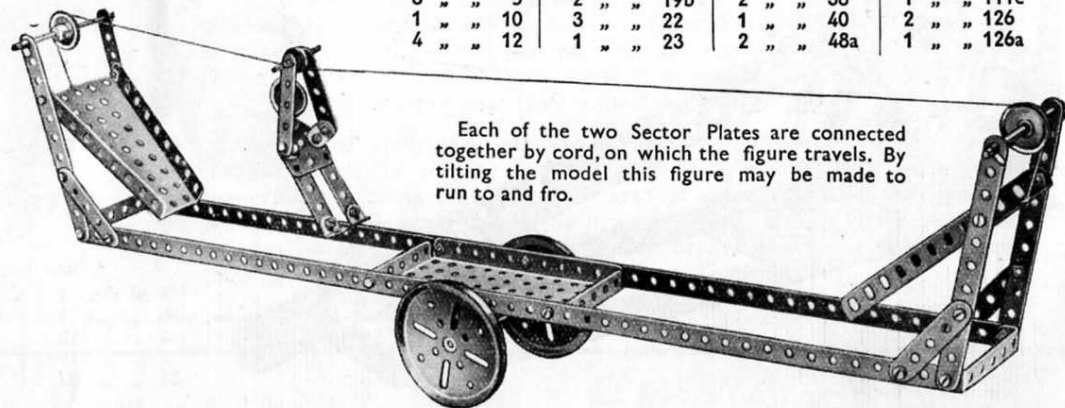
4 of No.	1
7 " "	2
6 " "	5
2 " "	11
2 " "	12
2 " "	16
2 " "	17
2 " "	18a
2 " "	19b
4 " "	22
6 " "	35
24 " "	37
2 " "	38
1 " "	40
1 " "	44
1 " "	52
1 " "	57c
2 " "	126a
2 " "	187



C14. Aerial Flight

Parts required

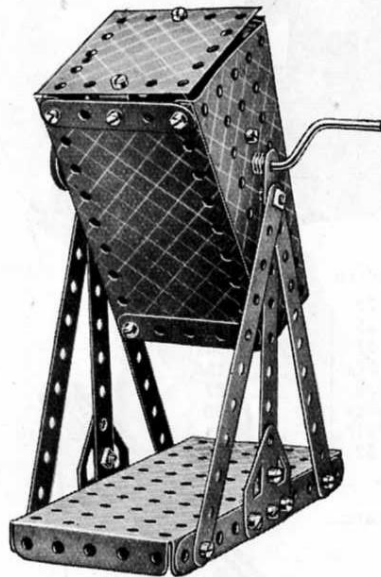
4 of No.	1	3 of No.	16	6 of No.	35	1 of No.	52
4 " "	2	1 " "	18a	33 " "	37	2 " "	54a
8 " "	5	2 " "	19b	2 " "	38	1 " "	111c
1 " "	10	3 " "	22	1 " "	40	2 " "	126
4 " "	12	1 " "	23	2 " "	48a	1 " "	126a



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.

Loops of cord are tied to the brake levers and are passed round 3" Pulleys on the hoisting and luffing shafts to form band brakes. The lower ends of the upper pair of 12 1/2" Strips forming the jib are held apart by two 3/8" Reversed Angle Brackets bolted together.

C15. Butter Churn



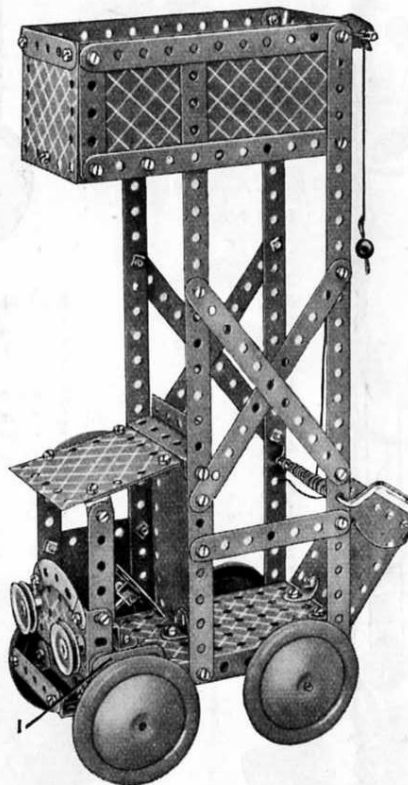
Parts required

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

Parts required

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

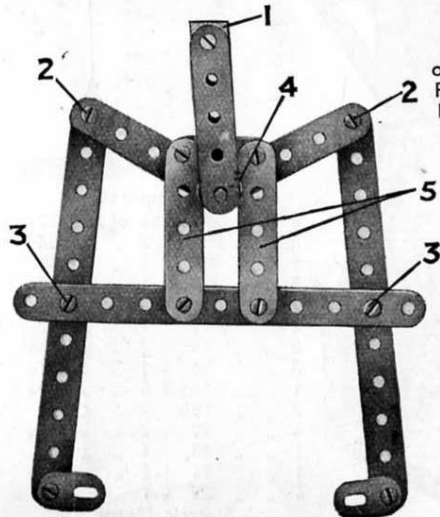
C16. Tower Wagon



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

C17.

Friction Grip Tongs



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

Parts required

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

C18. Pneumatic Hammer

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

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

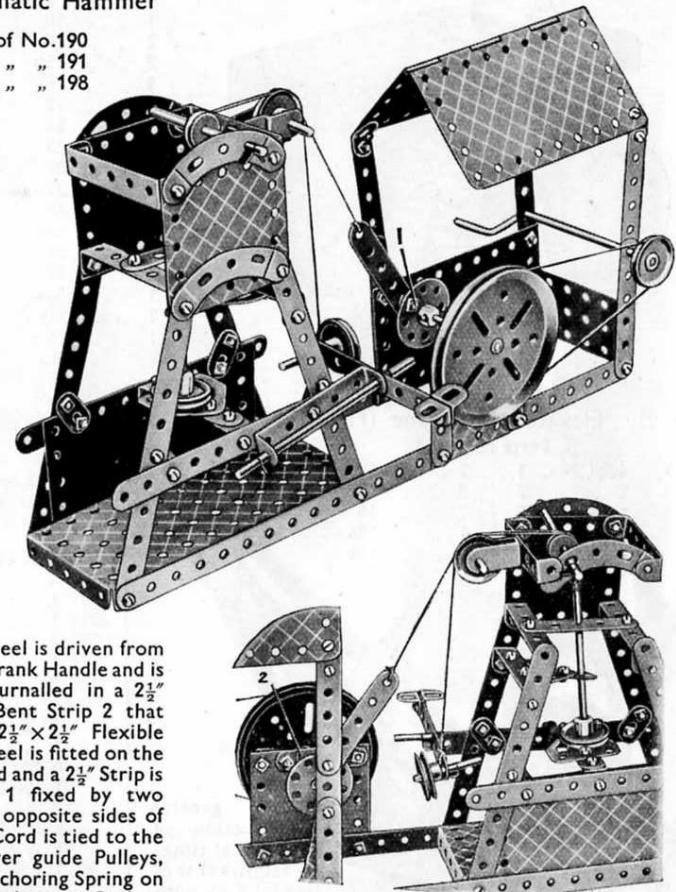
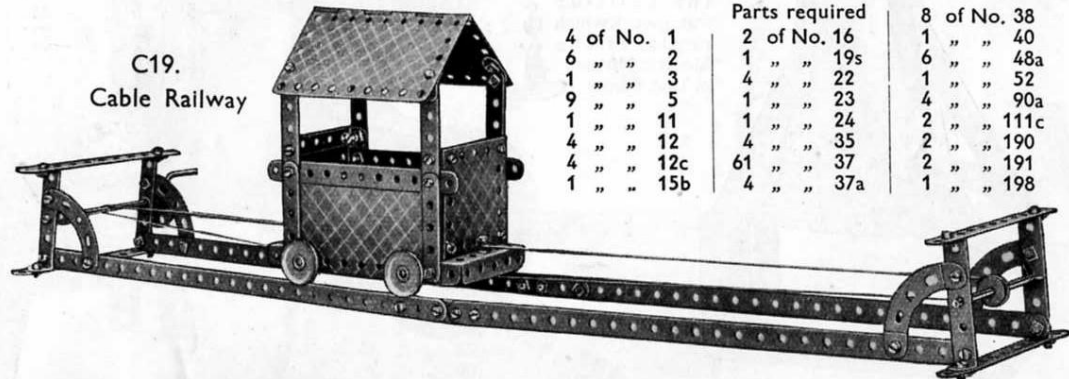


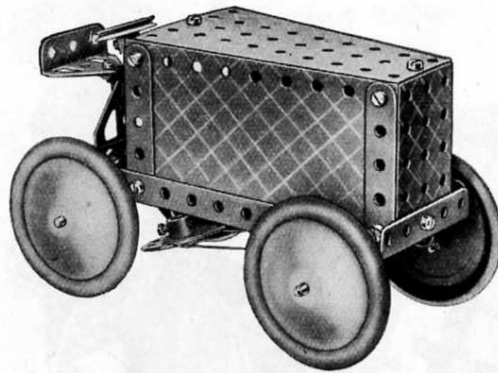
Fig. C18a

C19.
Cable Railway

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

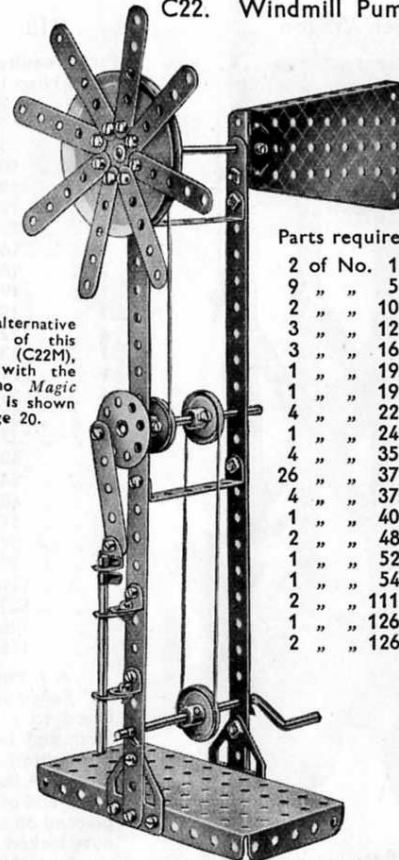
These Models can be built with **MECCANO Outfit C** (or Outfits B and Ba)

C20. Motor Tractor



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

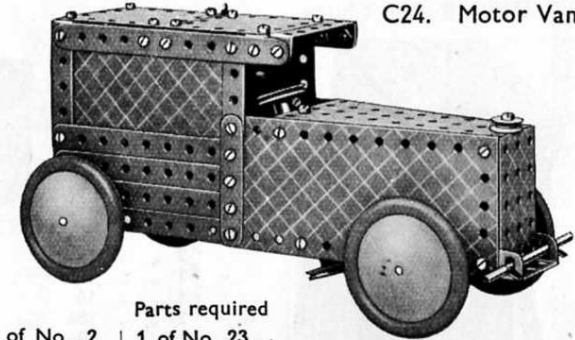
C22. Windmill Pump



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

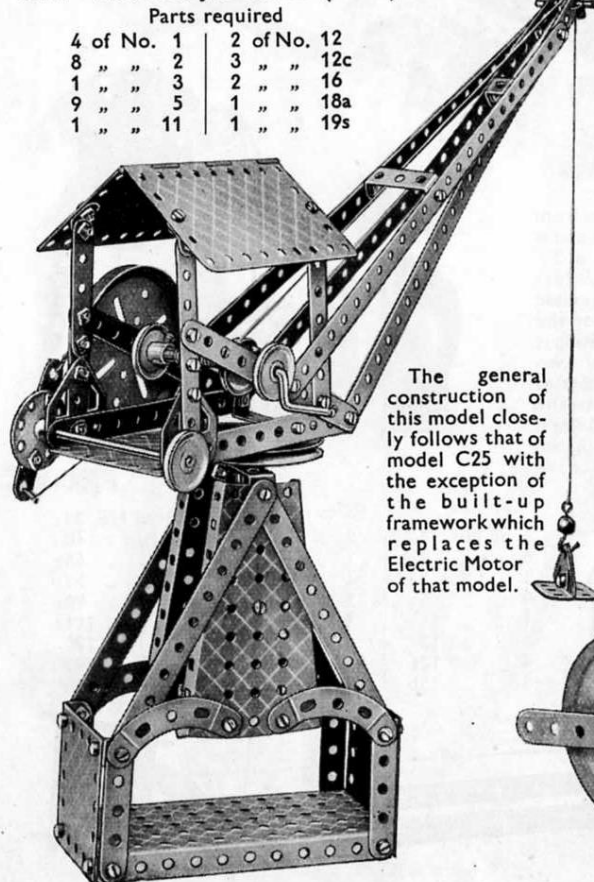
An alternative design of this model (C22M), fitted with the Meccano Magic Motor, is shown on page 20.

C24. Motor Van



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

C21. Elevated Jib Crane (Hand)



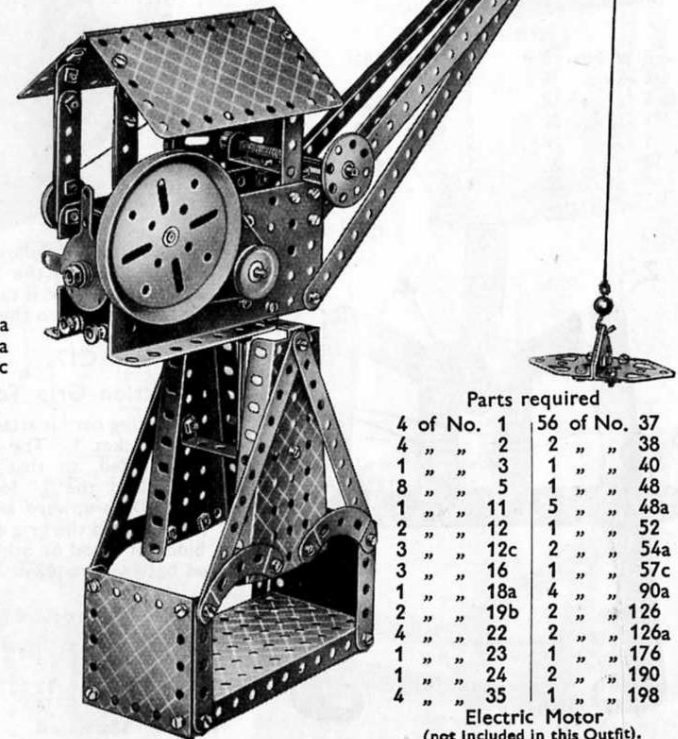
Parts required	
4 of No. 1	2 of No. 12
8 " " 2	3 " " 12c
1 " " 3	2 " " 16
9 " " 5	1 " " 18a
1 " " 11	1 " " 19s

Parts required for C21 (continued)

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

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

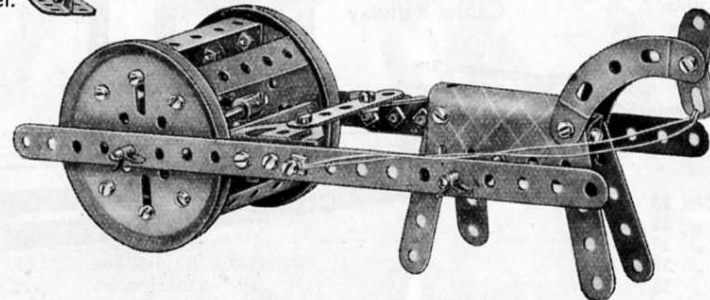
C25. Elevated Jib Crane (Electric)



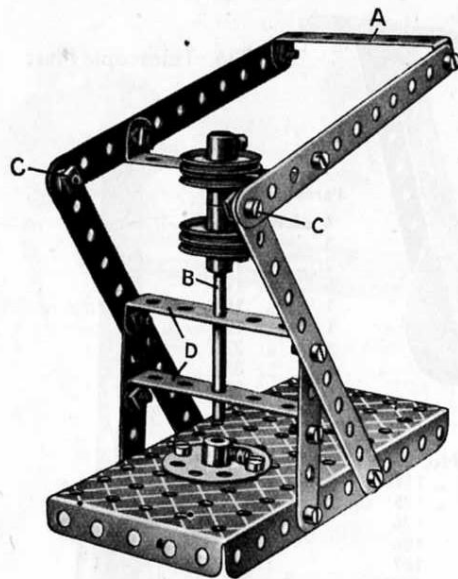
Parts required	
4 of No. 1	56 of No. 37
4 " " 2	2 " " 38
1 " " 3	1 " " 40
8 " " 5	1 " " 48
1 " " 11	5 " " 48a
2 " " 12	1 " " 52
3 " " 12c	2 " " 54a
3 " " 16	1 " " 57c
1 " " 18a	4 " " 90a
2 " " 19b	2 " " 126
4 " " 22	2 " " 126a
1 " " 23	1 " " 176
1 " " 24	2 " " 190
4 " " 35	1 " " 198

Electric Motor
(not included in this Outfit).

C23. Field Roller



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



C26.
Punching
Machine

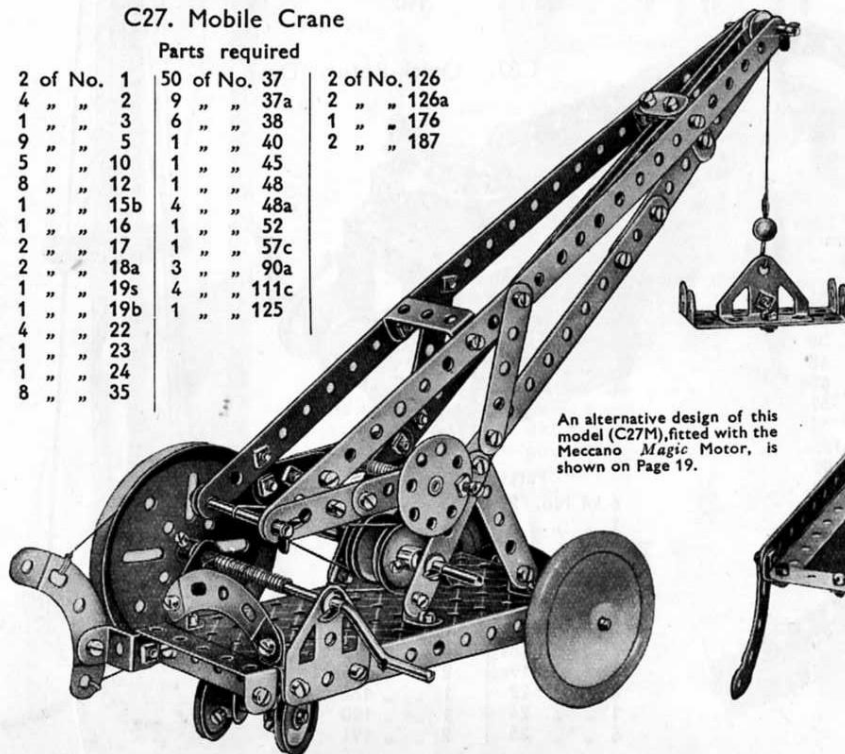
Parts required

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

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

C27. Mobile Crane

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

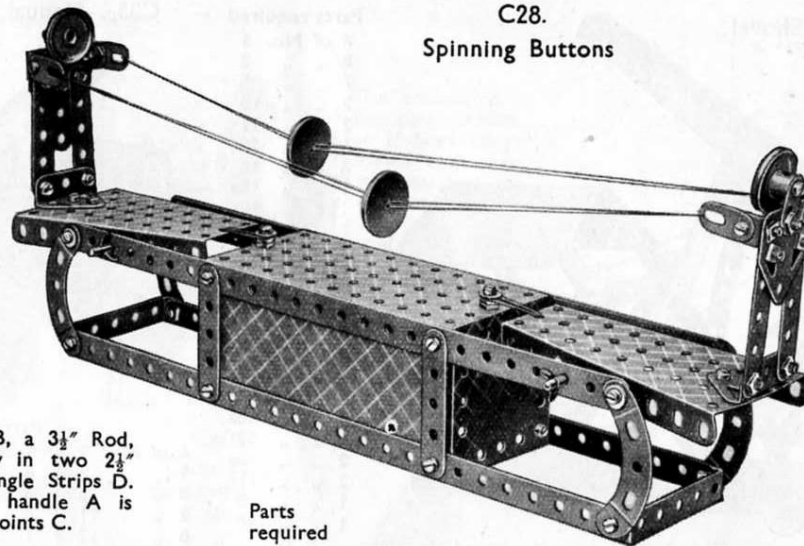


An alternative design of this model (C27M), fitted with the Meccano Magic Motor, is shown on Page 19.

Parts
required

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

C28.
Spinning Buttons



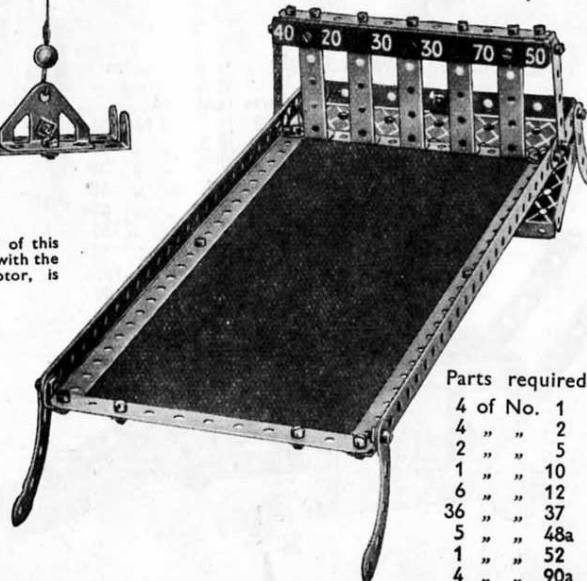
C30.
Gramophone

Parts required

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



C29. Box Ball Alley



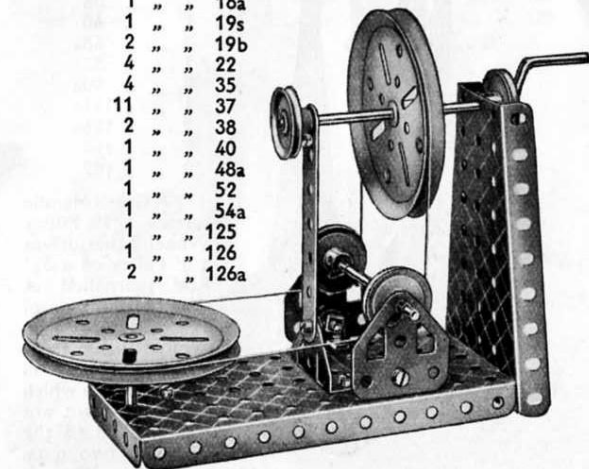
Parts required

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

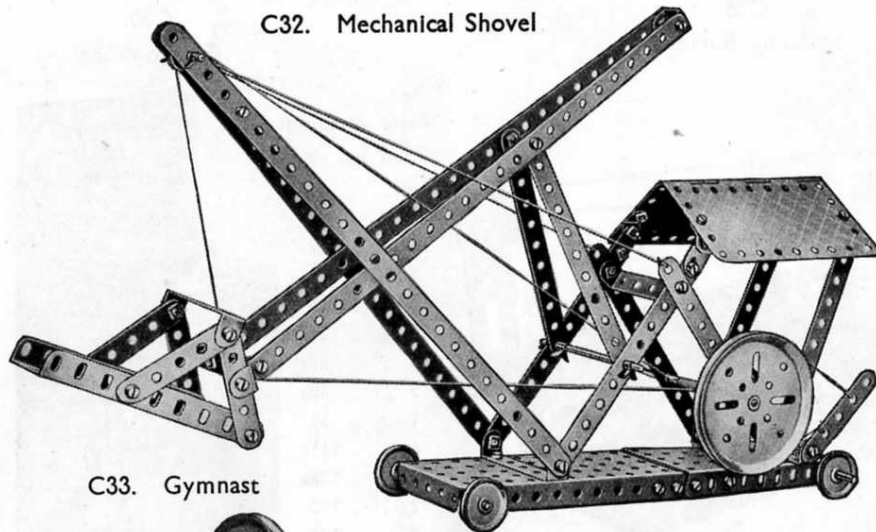
Parts required

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

C31.
Belt Gear



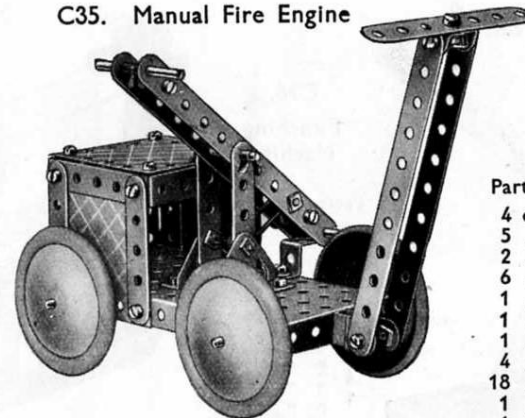
C32. Mechanical Shovel



Parts required

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

C35. Manual Fire Engine



Parts required

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

Parts required

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

C36. Telescopic Mast

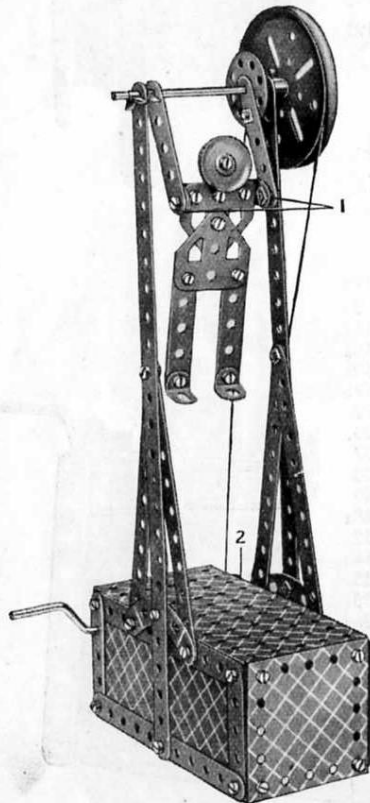


C33. Gymnast

Parts required

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

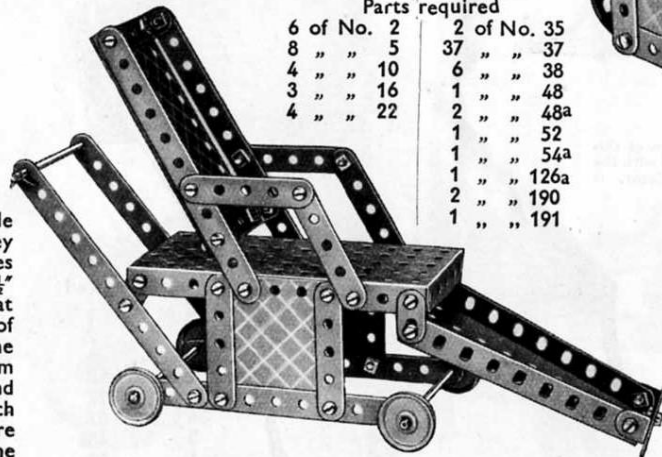
A Crank Handle carries a 1" Pulley Wheel 2 that drives a 3" Pulley on a 3½" Rod journalled at the top of a pair of 12½" Strips. The gymnast hangs from the Axle Rod, and the bolts 1 on which the arms pivot are each locked to the body by two nuts.



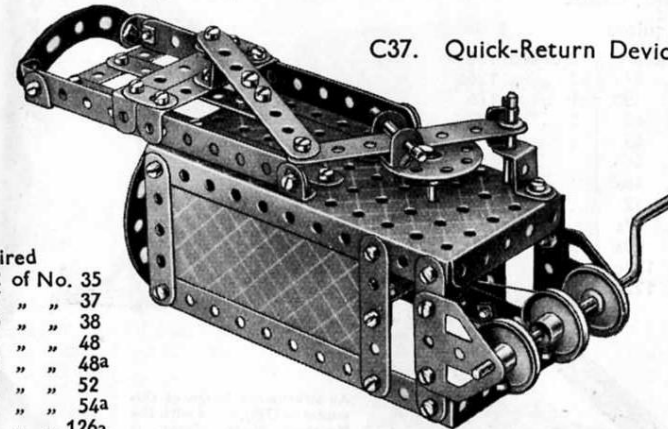
C34. Invalid Chair

Parts required

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



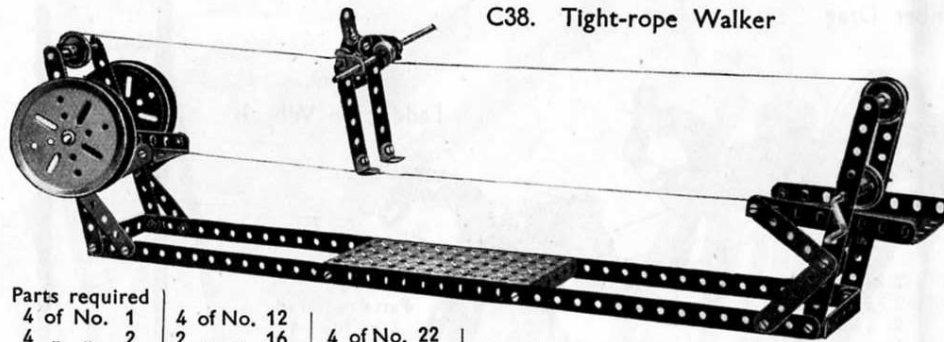
C37. Quick-Return Device



Parts required

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

C38. Tight-rope Walker

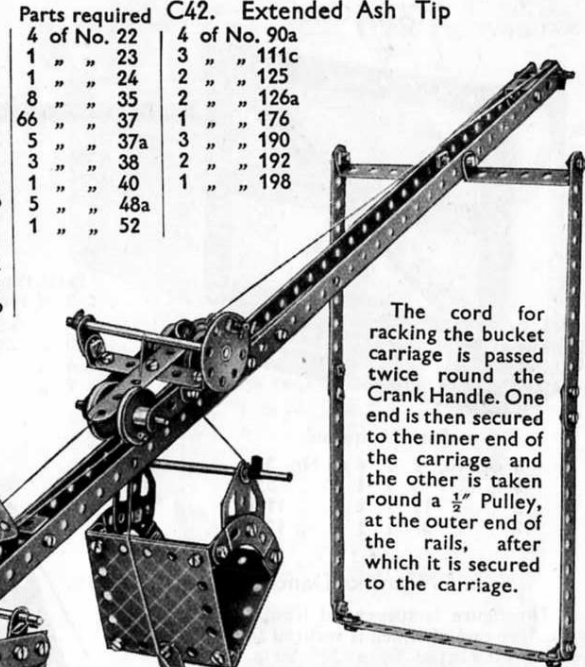


Parts required			
4 of No. 1	4 of No. 12	4 of No. 22	6 of No. 38
4 " " 2	2 " " 16	1 " " 23	1 " " 40
1 " " 3	2 " " 17	8 " " 35	1 " " 48a
9 " " 5	1 " " 19s	2 " " 37	1 of No. 52
3 " " 10	2 " " 19b		2 " " 54a
			1 of No. 126a

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

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

C42. Extended Ash Tip

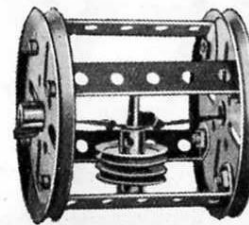


The cord for racking the bucket carriage is passed twice round the Crank Handle. One end is then secured to the inner end of the carriage and the other is taken round a $\frac{1}{2}$ " Pulley, at the outer end of the rails, after which it is secured to the carriage.

4 of No. 22	4 of No. 90a
3 " " 111c	3 " " 125
2 " " 125	2 " " 126a
2 " " 176	1 " " 190
3 " " 190	2 " " 192
2 " " 192	1 " " 198

C39. Guillotine

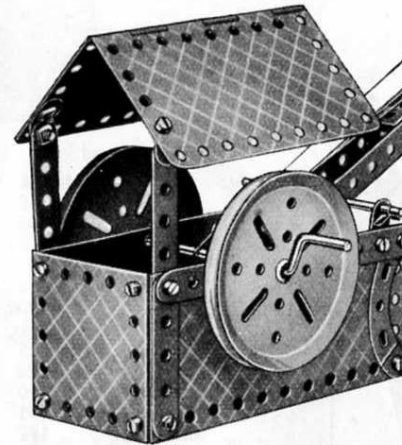
Parts required	
2 of No. 1	1 " " 3
1 " " 2	9 " " 5
2 " " 10	2 " " 11
2 " " 11	1 " " 16
1 " " 16	1 " " 22
2 " " 22	2 " " 35
24 " " 37	6 " " 38
1 " " 40	3 " " 48a
1 " " 52	



C40. Cum Bak

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 $\frac{1}{2}$ " Rod, is suspended from it in the middle of the drum. When the Cum Bak is rolled along any smooth level surface, the elastic becomes twisted and stores up sufficient energy to return the drum to its starting point. If the mechanism is concealed by a thin cardboard covering, the model will cause much amusement by its mystifying behaviour.

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



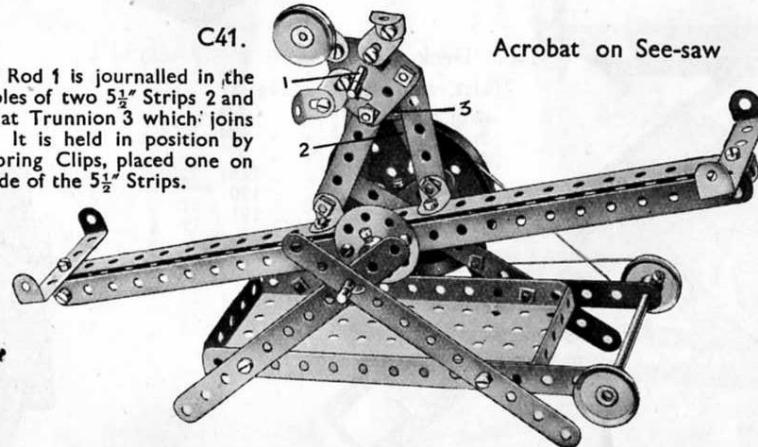
C43. Telephone

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

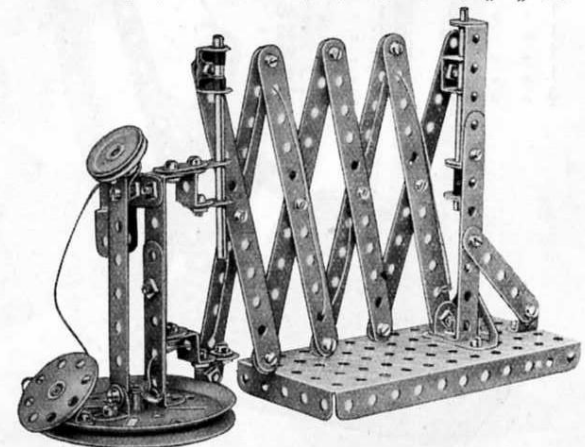
C41.

Acrobat on See-saw

A 1" Rod 1 is journaled in the end holes of two $5\frac{1}{2}$ " Strips 2 and in a Flat Trunnion 3 which joins them. It is held in position by two Spring Clips, placed one on each side of the $5\frac{1}{2}$ " Strips.

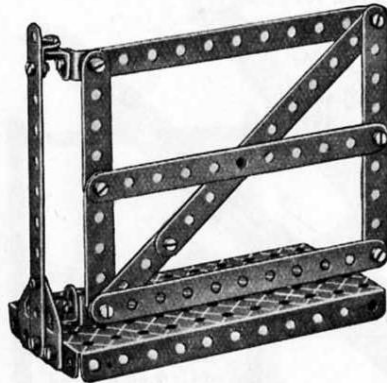


Parts required	
3 of No. 1	6 " " 2
4 " " 5	4 " " 10
3 " " 10	2 " " 11
2 " " 11	2 " " 12
4 " " 12	2 " " 16
2 " " 16	1 " " 18a
1 " " 18a	1 " " 19b
3 " " 22	1 " " 24
1 " " 24	5 " " 35
5 " " 35	25 " " 37
4 " " 37	4 " " 37a
2 " " 38	1 " " 40
1 " " 40	2 " " 48a
1 " " 52	1 " " 111c
1 " " 126a	



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

C44. Gate



Parts required

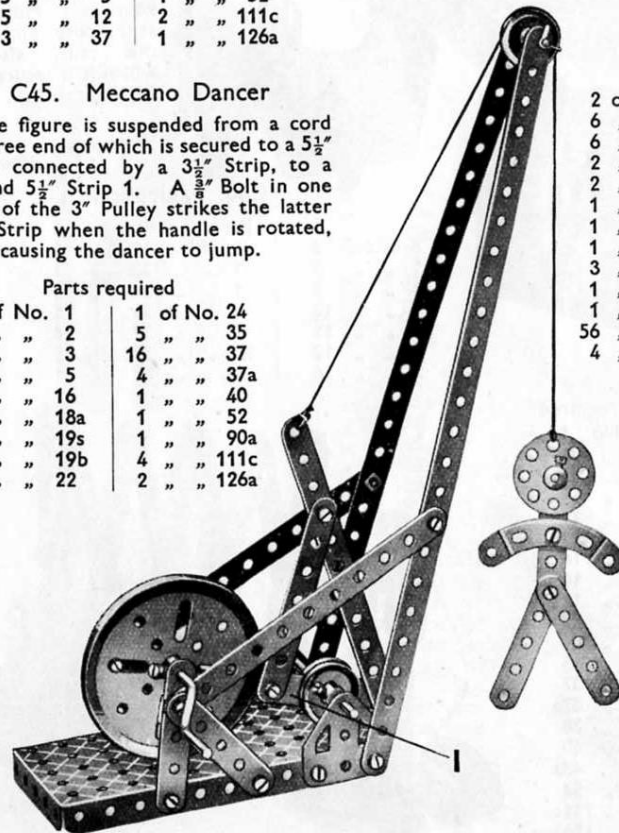
5 of No. 2	4 of No. 37a
5 " " 5	1 " " 52
5 " " 12	2 " " 111c
13 " " 37	1 " " 126a

C45. Meccano Dancer

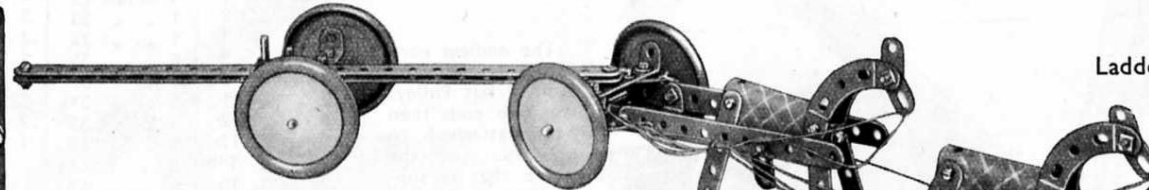
The figure is suspended from a cord the free end of which is secured to a $5\frac{1}{2}$ " Strip connected by a $3\frac{1}{2}$ " Strip, to a second $5\frac{1}{2}$ " Strip 1. A $\frac{3}{8}$ " Bolt in one hole of the 3" Pulley strikes the latter $5\frac{1}{2}$ " Strip when the handle is rotated, thus causing the dancer to jump.

Parts required

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

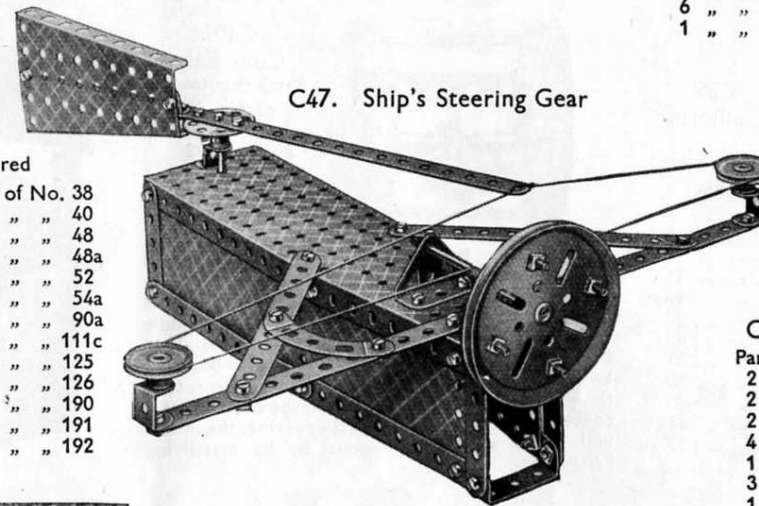


C46. Timber Drag



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

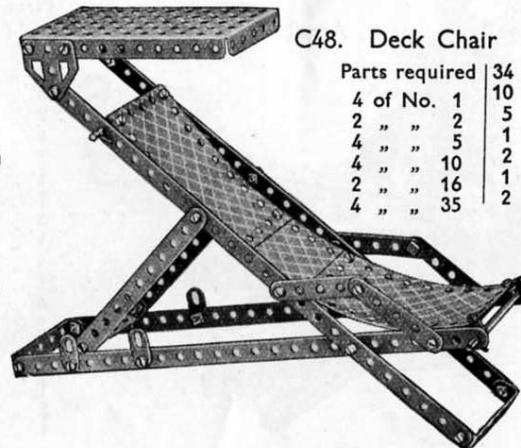
C47. Ship's Steering Gear



Parts required

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

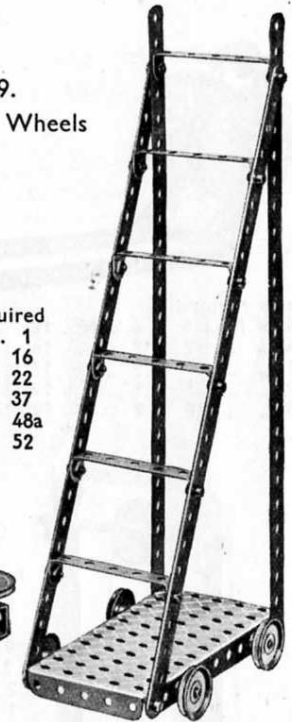
C48. Deck Chair



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

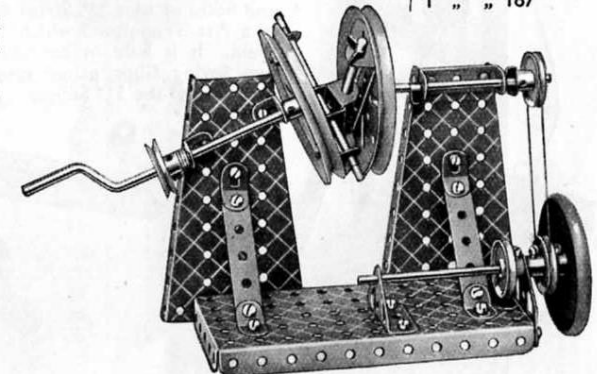
C49. Ladder on Wheels

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

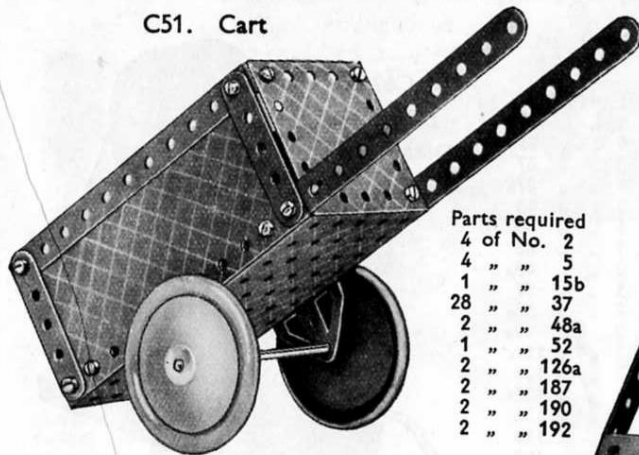


C50. Hooke's Coupling

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



C51. Cart



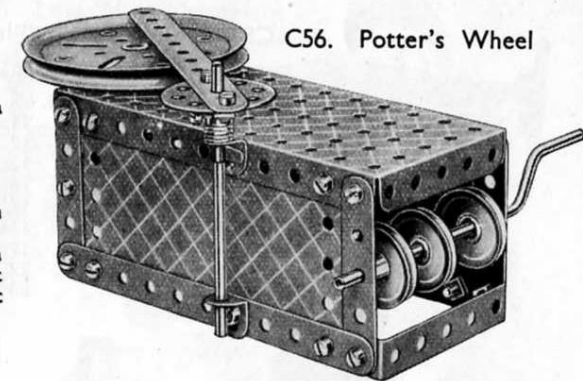
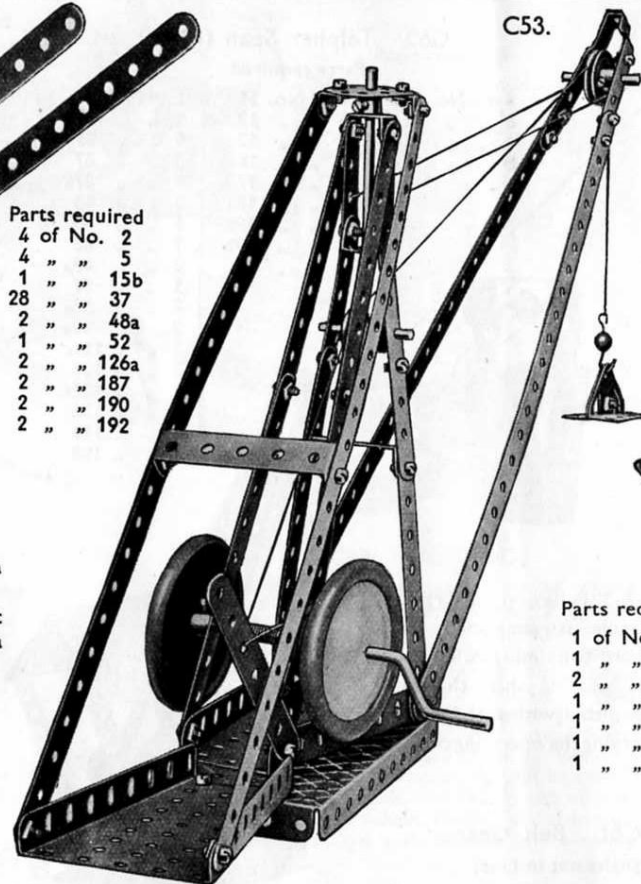
C52. Wrestlers

Parts required

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

C53.

Jib Crane

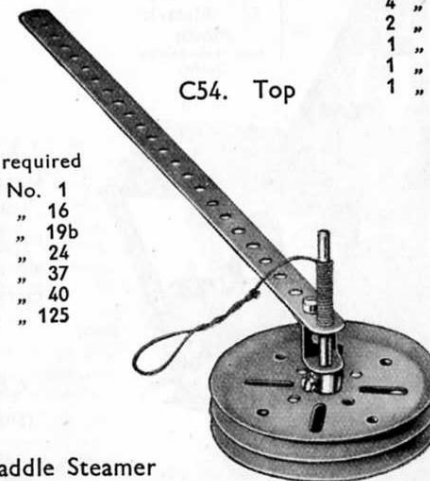


C56. Potter's Wheel

C54. Top

Parts required

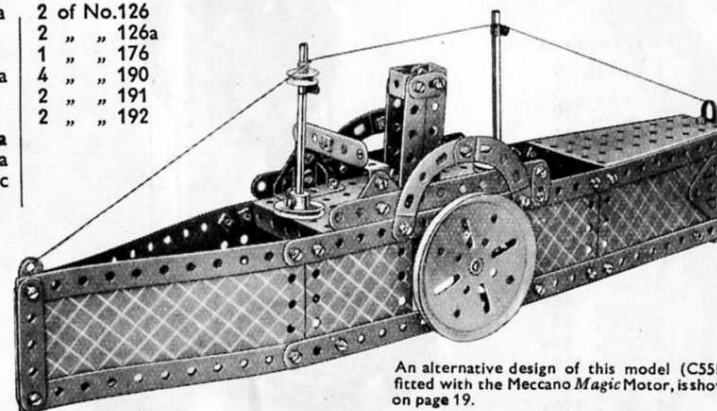
1 of No. 1
1 " " 16
2 " " 19b
1 " " 24
1 " " 37
1 " " 40
1 " " 125



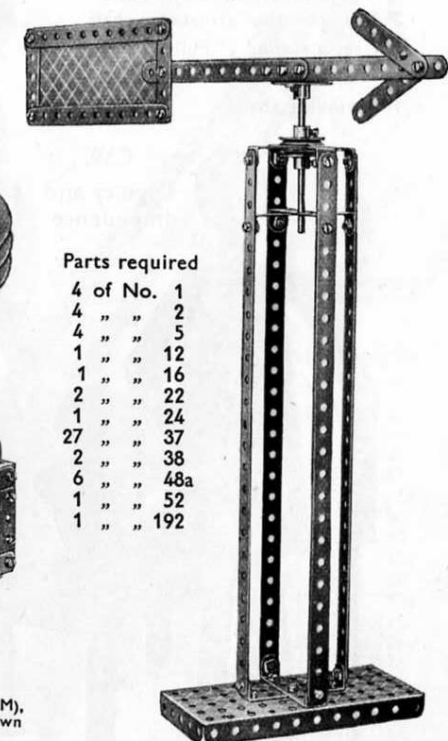
C55. Paddle Steamer

Parts required

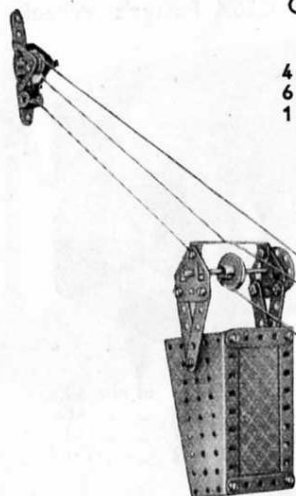
4 of No. 1	2 of No. 37a	2 of No. 126
6 " " 2	1 " " 40	2 " " 126a
9 " " 5	1 " " 48	1 " " 176
5 " " 10	3 " " 48a	4 " " 190
2 " " 11	1 " " 51	2 " " 191
4 " " 12	1 " " 52	2 " " 192
1 " " 15b	1 " " 54a	
2 " " 16	4 " " 90a	
1 " " 17	2 " " 111c	
2 " " 19b		
3 " " 22		
1 " " 23		
6 " " 35		
58 " " 37		



C57. Weather Vane



C58. Telfer Span (Electric)



4 of No. 1
6 " " 2
1 " " 3

Parts required

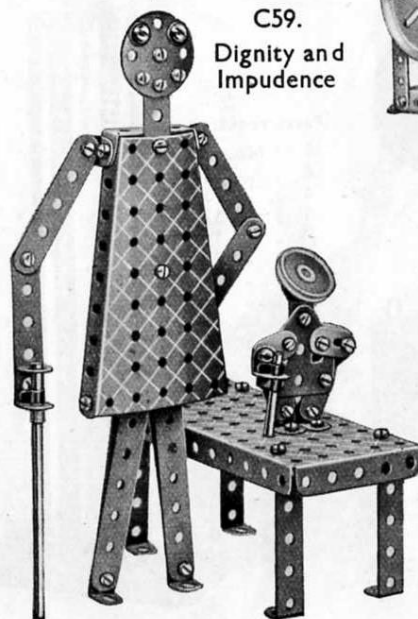
8 of No. 5	1 of No. 24
2 " " 11	8 " " 35
2 " " 12	61 " " 37
2 " " 12c	4 " " 37a
3 " " 16	7 " " 38
1 " " 17	1 " " 40
1 " " 18a	1 " " 48
2 " " 19b	3 " " 48a
4 " " 22	1 " " 52
1 " " 23	2 " " 54a
	2 " " 90a
	2 " " 111c
	2 " " 126
	2 " " 126a
	1 " " 176
	2 " " 191
	1 " " 198

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.

C59.

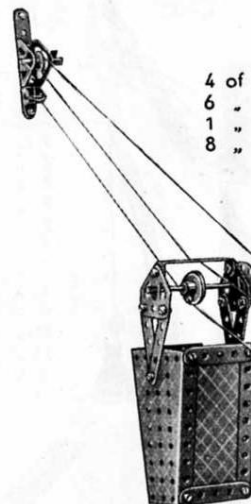
Dignity and Impudence



Parts required

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

C60. Telfer Span (Hand)

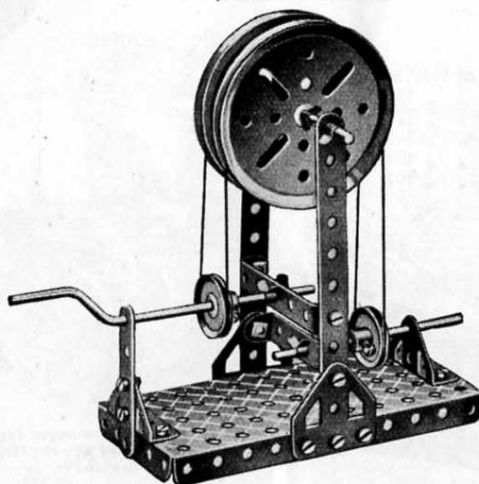


4 of No. 1
6 " " 2
1 " " 3
8 " " 5

Parts required

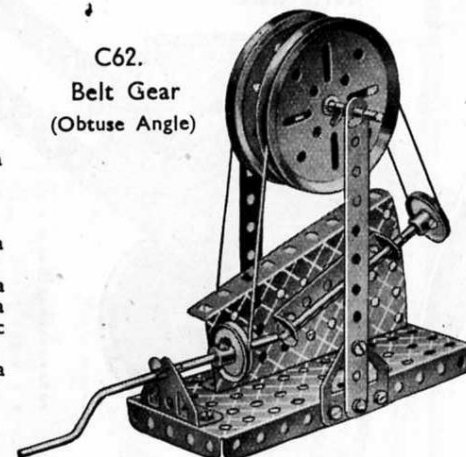
2 of No. 11	1 of No. 23
8 " " 12	1 " " 24
2 " " 12c	6 " " 35
2 " " 16	53 " " 37
1 " " 17	4 " " 37a
1 " " 18a	5 " " 38
1 " " 19s	1 " " 40
2 " " 19b	1 " " 48
4 " " 22	3 " " 48a
	1 " " 52
	2 " " 54a
	2 " " 90a
	2 " " 111c
	2 " " 126
	2 " " 126a
	1 " " 176
	2 " " 191
	1 " " 198

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

C61. Belt Gear
(Shafts not in Line)

Parts required

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

C62.
Belt Gear
(Obtuse Angle)

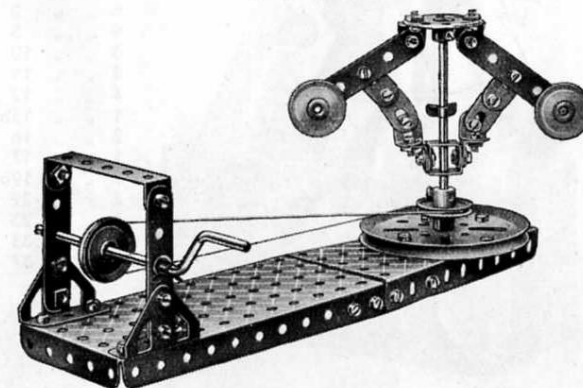
Parts required

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

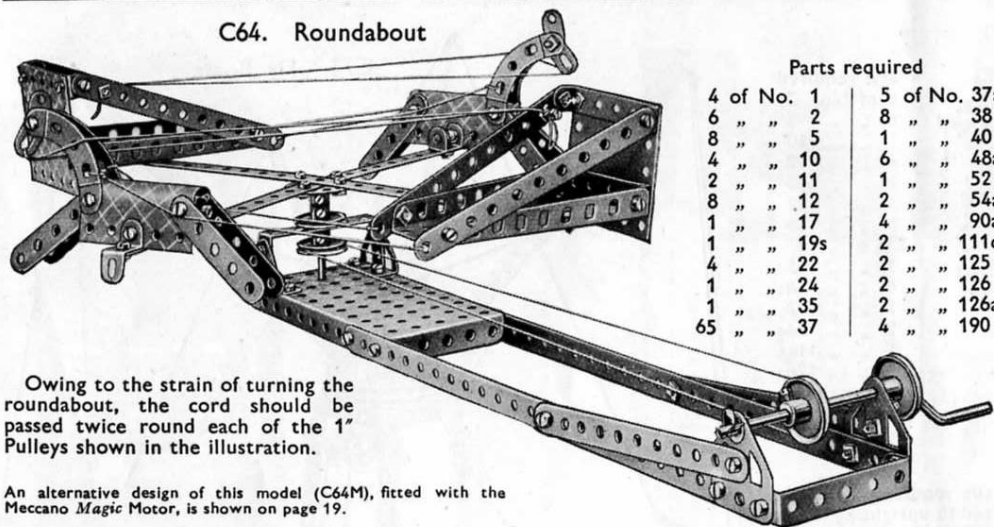
C63. Centrifugal Governor

Parts required

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



C64. Roundabout



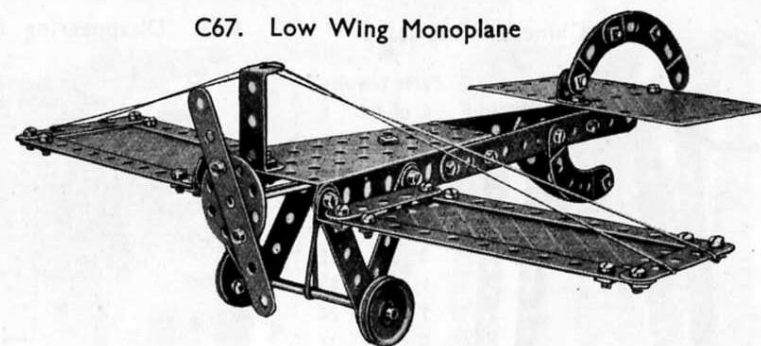
Owing to the strain of turning the roundabout, the cord should be passed twice round each of the 1" Pulleys shown in the illustration.

An alternative design of this model (C64M), fitted with the Meccano Magic Motor, is shown on page 19.

Parts required

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

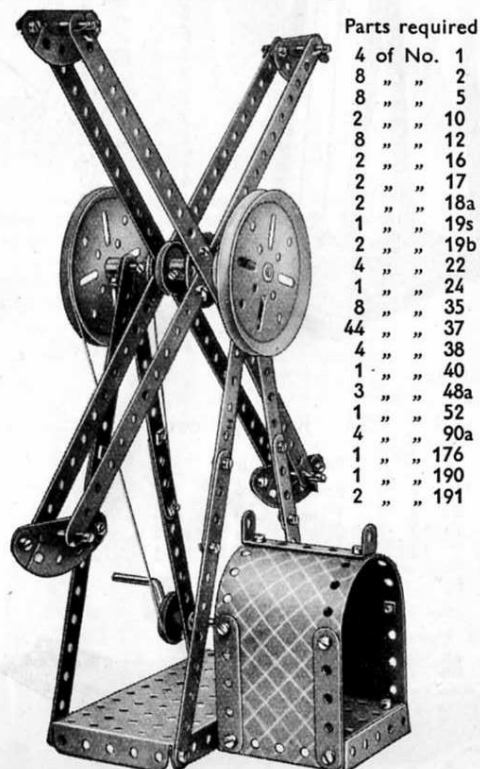
C67. Low Wing Monoplane



Parts required

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

C65. Fly Boats

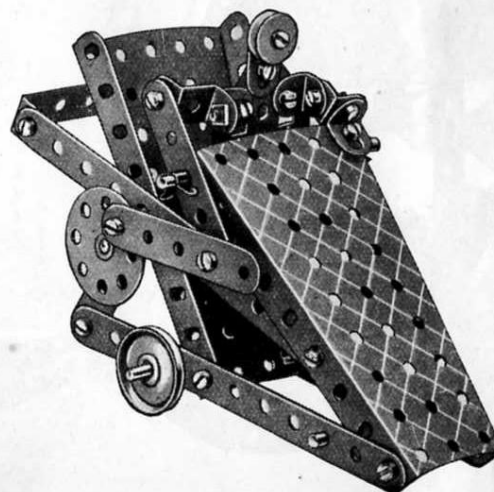


Parts required

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

C66. The Invalid

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



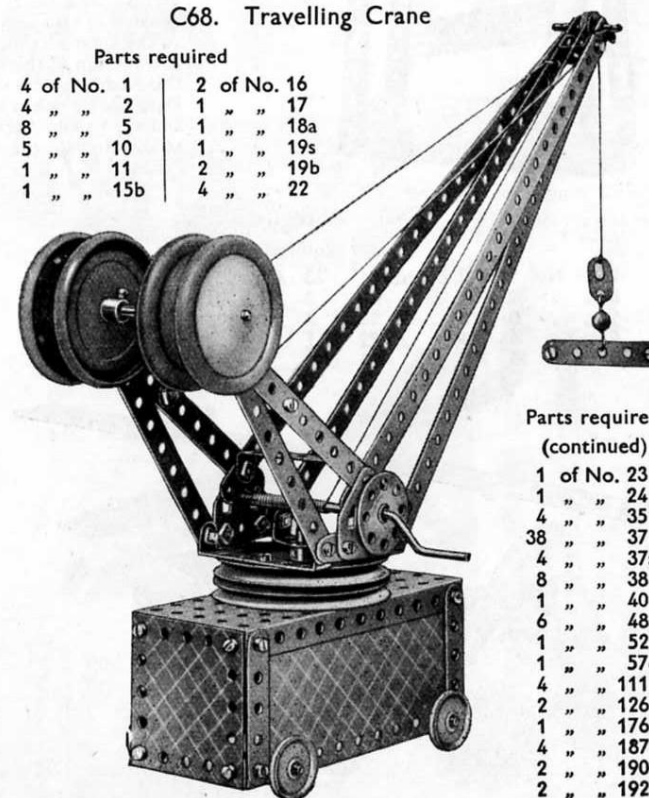
Parts required

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

C68. Travelling Crane

Parts required

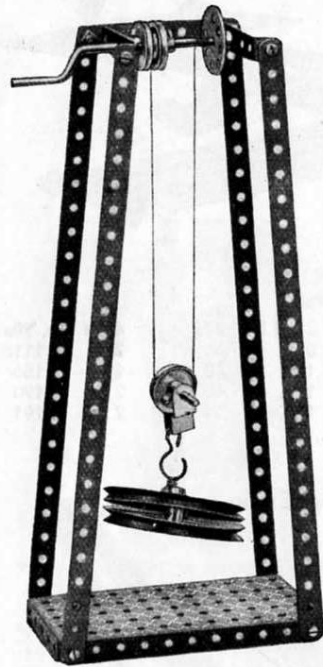
4 of No. 1	2 of No. 16
4 " " 2	1 " " 17
8 " " 5	1 " " 18a
5 " " 10	1 " " 19s
1 " " 11	2 " " 19b
1 " " 15b	4 " " 22

Parts required
(continued)

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

An alternative design of this model (C65M), fitted with the Meccano Magic Motor, is shown on page 20.

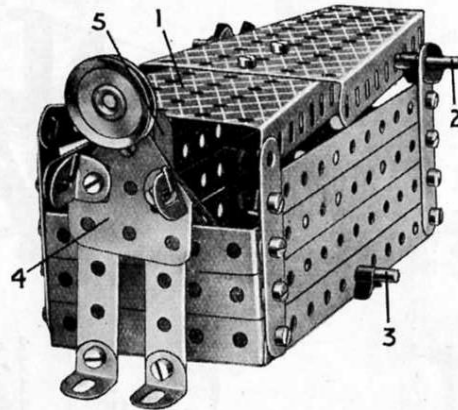
C69. Chinese Windlass



Parts required

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

C71. Disappearing Meccanitian



Parts required

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

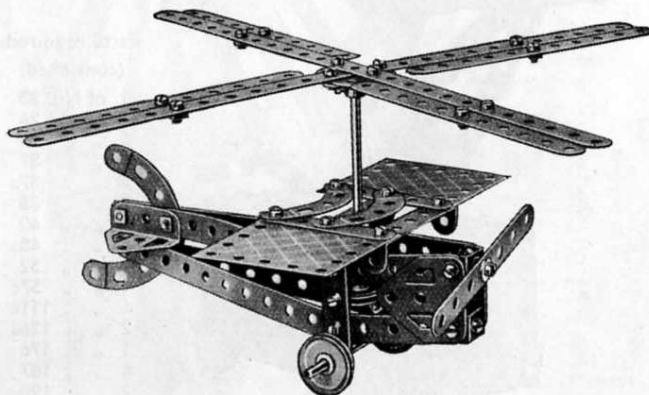
Four short lengths of elastic

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

C70. Autogiro

Parts required

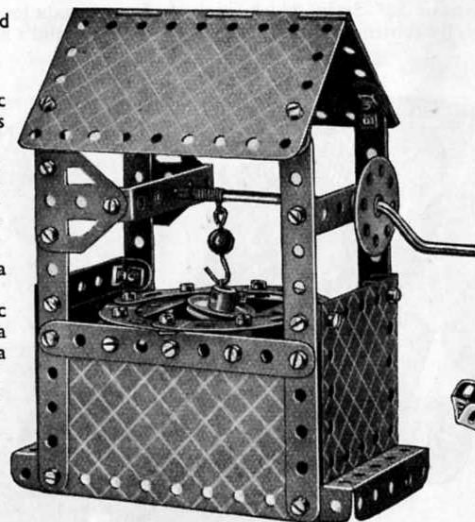
2 of No. 1	2 of No. 11	33 of No. 37	4 of No. 90a
8 " " 2	2 " " 12	3 " " 37a	2 " " 111c
1 " " 3	2 " " 16	7 " " 38	2 " " 126
9 " " 5	4 " " 22	1 " " 48	2 " " 126a
5 " " 10	1 " " 24	1 " " 48a	2 " " 190



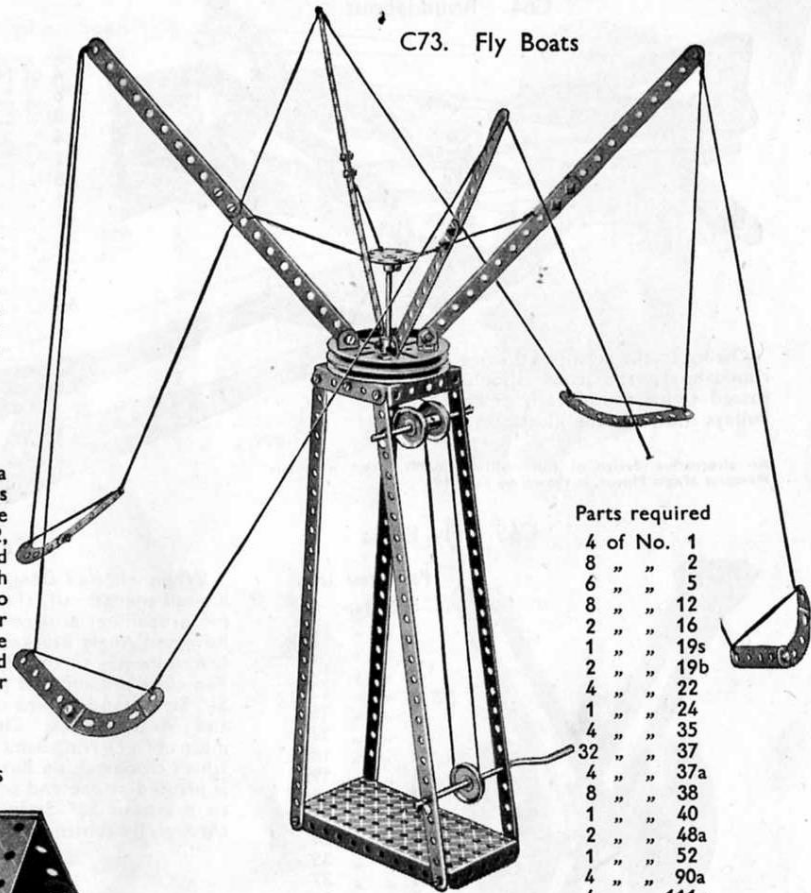
C72. Well Windlass

Parts required

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



C73. Fly Boats



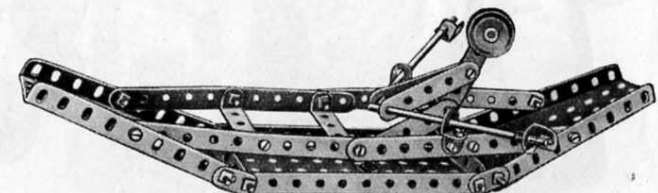
Parts required

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

C74. Rowing Boat

Parts required

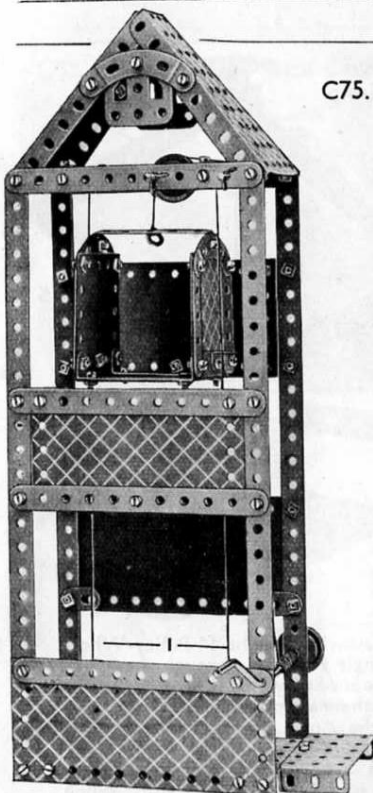
4 of No. 2	2 of No. 16	3 of No. 48a
4 " " 5	1 " " 22	1 " " 52
4 " " 10	6 " " 35	2 " " 54a
7 " " 12	25 " " 37	1 " " 111c



C75. Elevator

Parts required

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

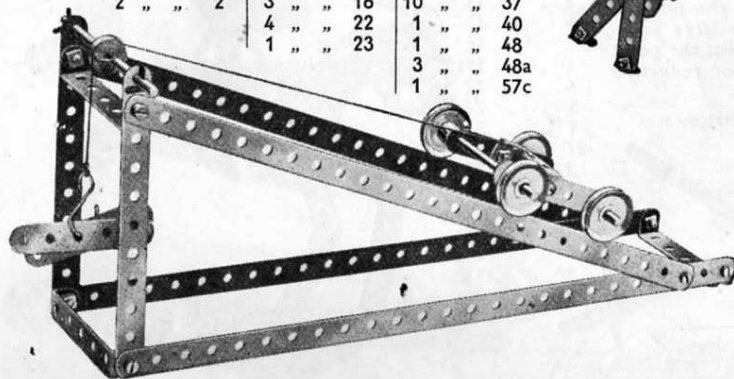


The guide cords 1 for the cage are tied to the centre holes of $2\frac{1}{2}$ " Strips attached to the top of the model by Angle Brackets, and in corresponding holes in the $5\frac{1}{2}$ " x $2\frac{1}{2}$ " Flanged Plate. The hoisting cord is passed over a $\frac{1}{2}$ " loose Pulley and 1" fixed Pulley before being tied to the cage as shown.

C76. Inclined Plane

Parts required

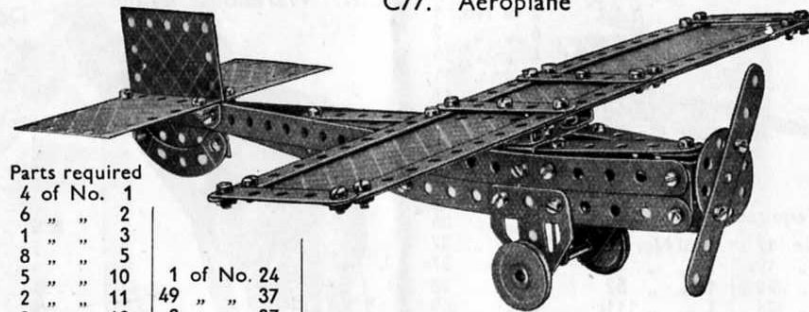
4 of No. 1	2 of No. 5	3 of No. 35
2 " " 2	3 " " 16	10 " " 37
	4 " " 22	1 " " 40
	1 " " 23	1 " " 48
		3 " " 48a
		1 " " 57c



C77. Aeroplane

Parts required

4 of No. 1
6 " " 2
1 " " 3
8 " " 5
5 " " 10
2 " " 11
2 " " 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 of No. 186
4 " " 190
2 " " 191

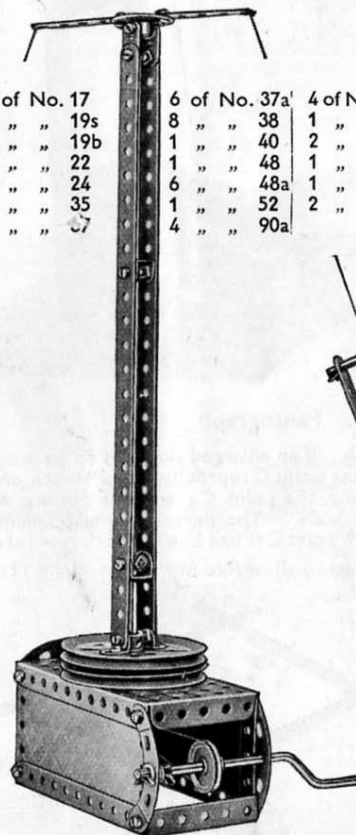


An alternative design of this model (C77M), fitted with the Meccano Magic Motor, is illustrated on page 20.

C78. Revolving Gymnasts

Parts required

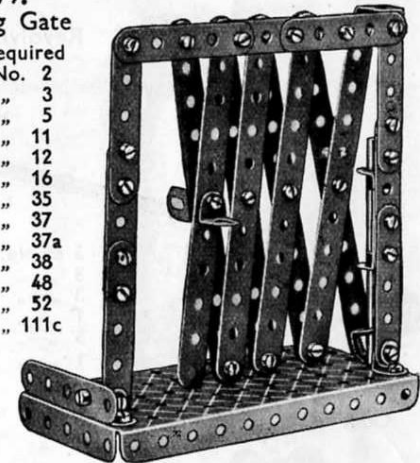
2 of No. 1
3 " " 2
8 " " 5
4 " " 10
2 " " 11
8 " " 12
1 " " 16
2 of No. 17
1 " " 19s
2 " " 19b
4 " " 22
1 " " 24
7 " " 35
40 " " 47
6 of No. 37a
8 " " 38
1 " " 40
1 " " 48
6 " " 48a
1 " " 52
4 " " 90a
4 of No. 111c
1 " " 125
2 " " 126a
1 " " 186
1 " " 190
2 " " 192



C79. Sliding Gate

Parts required

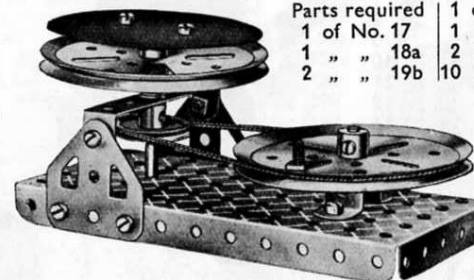
8 of No. 2
1 " " 3
9 " " 5
1 " " 11
6 " " 12
1 " " 16
2 " " 35
30 " " 37
14 " " 37a
5 " " 38
1 " " 48
1 " " 52
1 " " 111c



C80. Rotary Linisher

Parts required

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



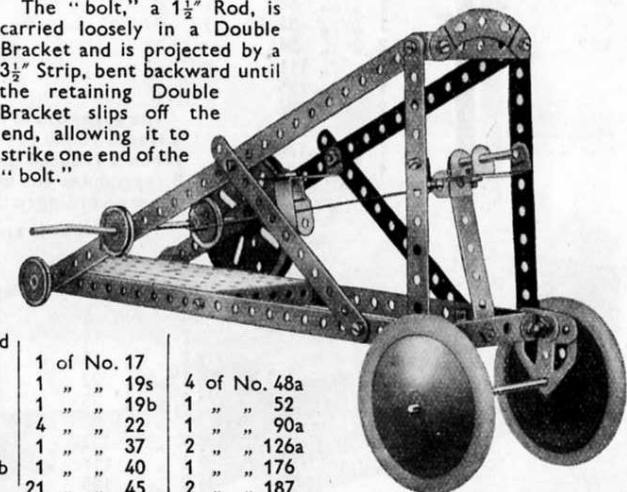
Disc of Emery Cloth (not included in Outfit)

C81. Ballista

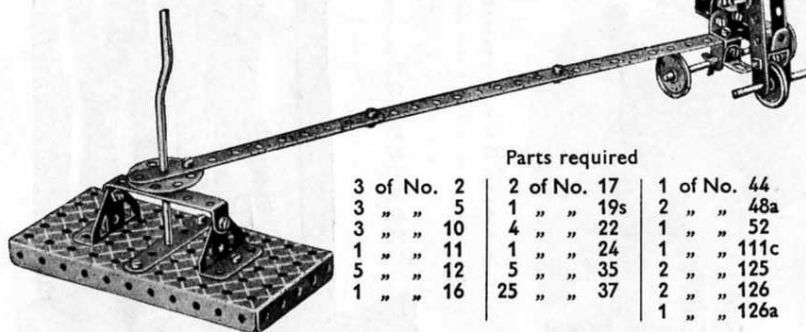
The "bolt," a $1\frac{1}{2}$ " Rod, is carried loosely in a Double Bracket and is projected by a $3\frac{1}{2}$ " Strip, bent backward until the retaining Double Bracket slips off the end, allowing it to strike one end of the "bolt."

Parts required

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

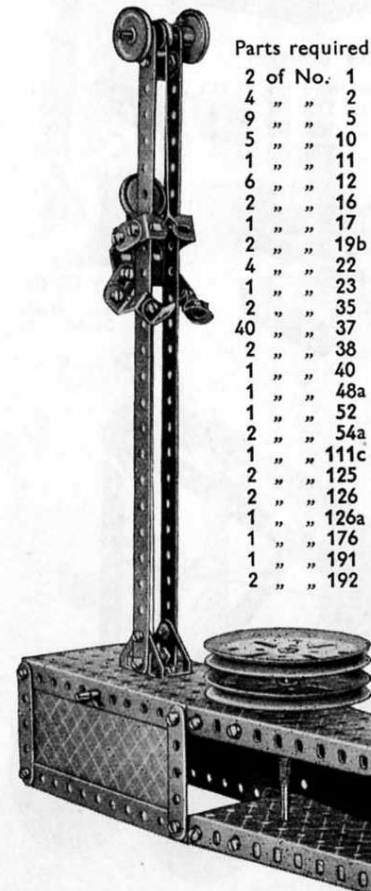


C82. Revolving Tricyclist



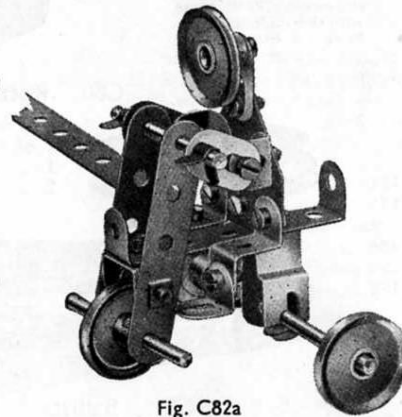
Parts required		
3 of No. 2	2 of No. 17	1 of No. 44
3 " " 5	1 " " 19s	2 " " 48a
3 " " 10	4 " " 22	1 " " 52
1 " " 11	1 " " 24	1 " " 111c
5 " " 12	5 " " 35	2 " " 125
1 " " 16	25 " " 37	2 " " 126
		1 " " 126a

C83. Man Climbing Pole



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

Fig. C82a



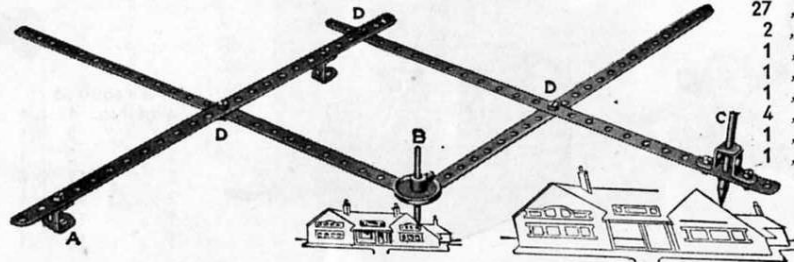
C85. Pantograph

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

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

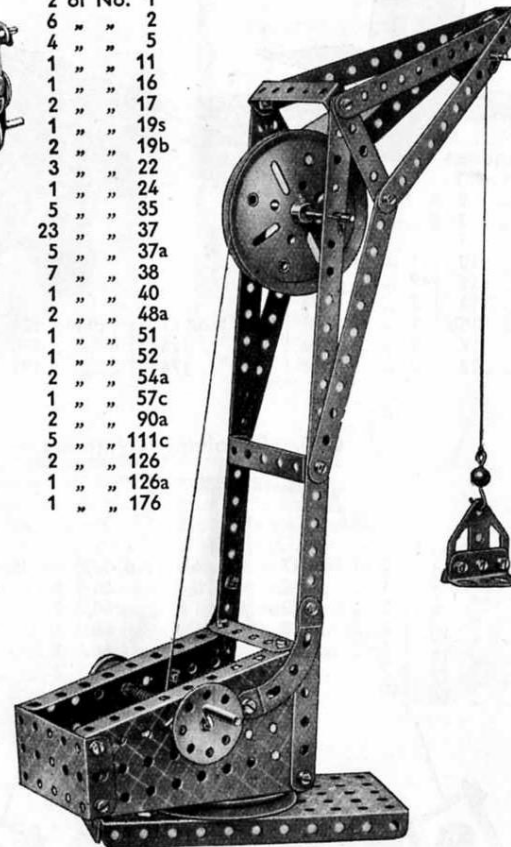
Parts required

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



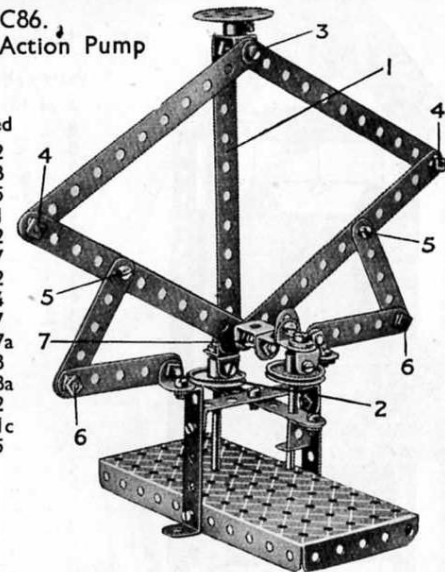
C84. Warehouse Crane

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



C86. Double Action Pump

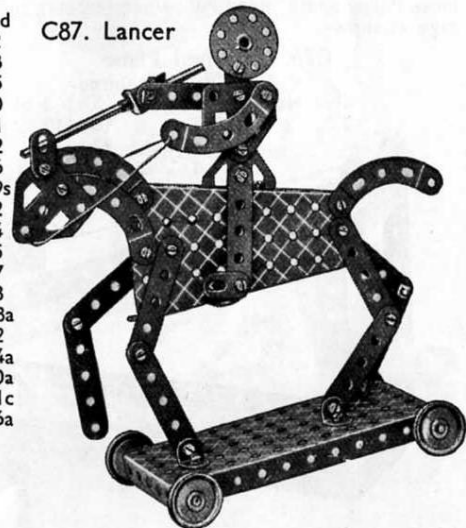
Parts required	
5 of No. 2	
1 " " 3	
4 " " 5	
2 " " 11	
6 " " 12	
2 " " 17	
2 " " 22	
1 " " 24	
9 " " 37	
3 " " 37a	
7 " " 38	
3 " " 48a	
1 " " 52	
3 " " 111c	
2 " " 125	



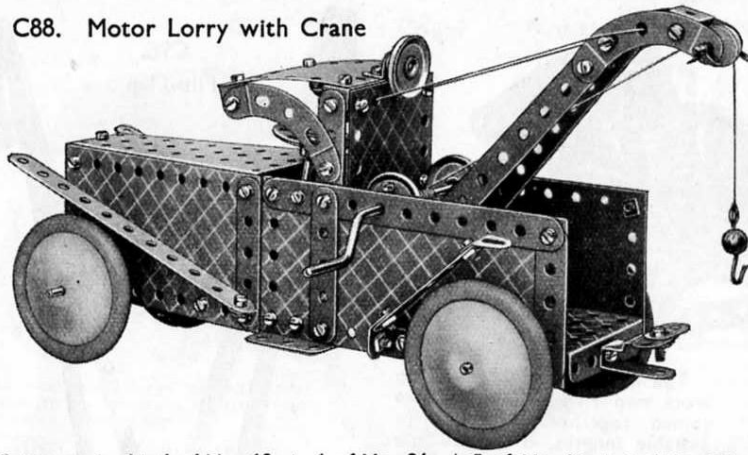
The $5\frac{1}{2}$ " Strip 1 is attached to the 1" Pulley Wheel 2 by means of two Angle Brackets, through the lower one of which passes the Set-Screw that secures the Pulley to its 2" Rod. Two Washers are placed beneath the head of the bolt joining the Angle Brackets in order to prevent its shank from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

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

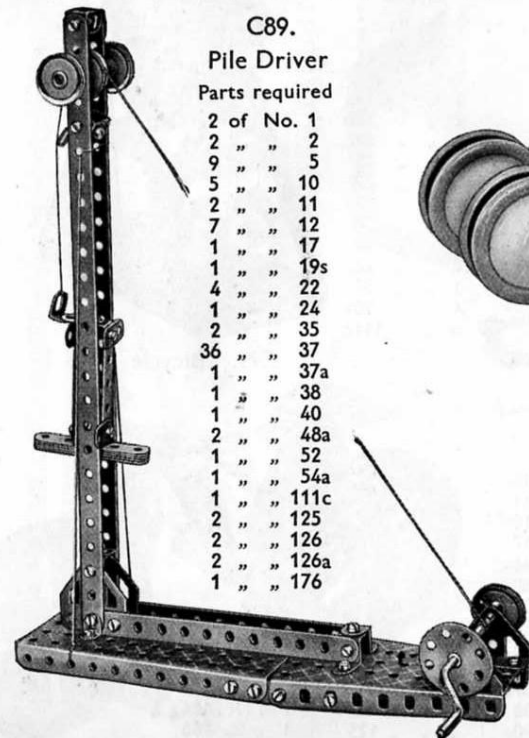
C87. Lancer



C88. Motor Lorry with Crane



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



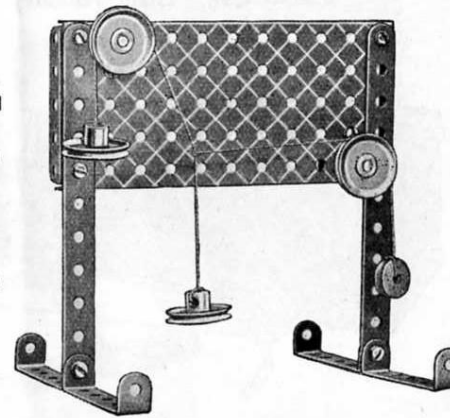
C89.

Pile Driver

Parts required

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

C90. Triangle of Forces

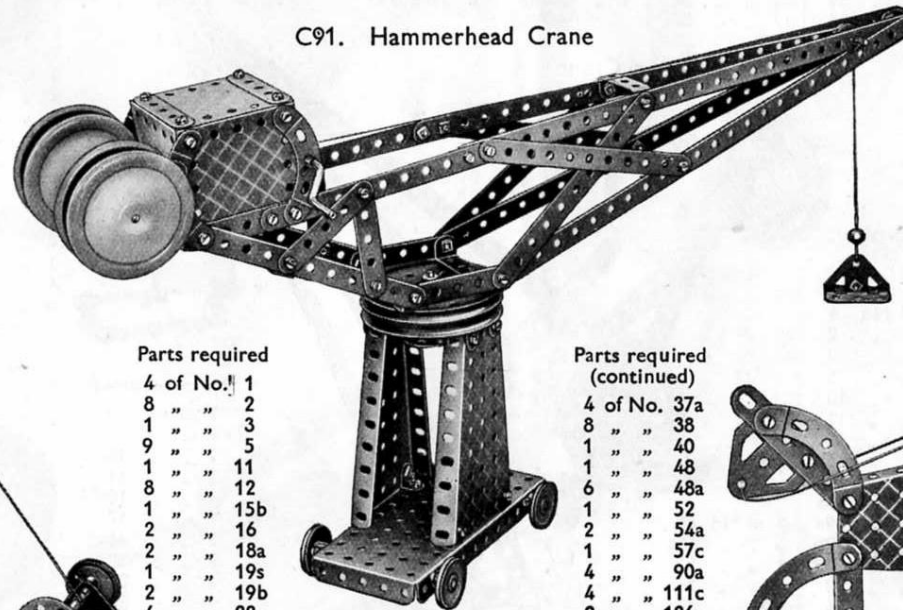


Parts required

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

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.

C91. Hammerhead Crane



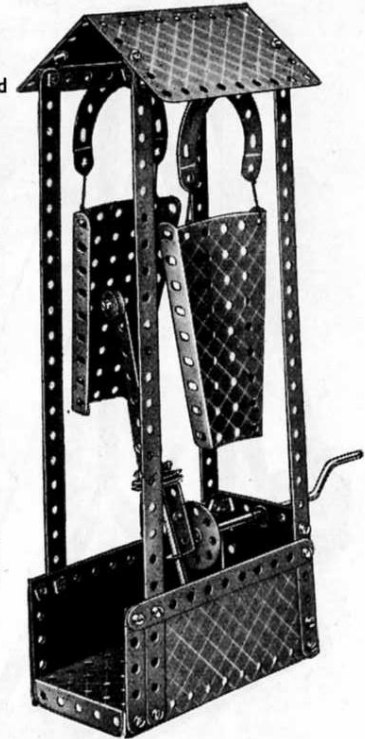
Parts required

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 " " 54a
1 " " 57c
4 " " 90a
4 " " 111c
2 " " 126
2 " " 126a
1 " " 176
4 " " 187
4 " " 190

C92. Mechanical Gong

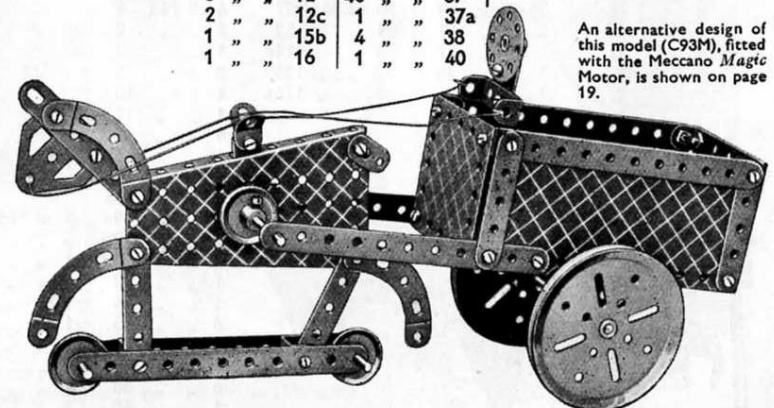


Parts required

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

C93. Horse and Cart

Parts required	2 of No. 18a	1 of No. 48	1 of No. 111c
6 of No. 2	2 " " 19b	2 " " 48a	2 " " 126
9 " " 5	4 " " 22	1 " " 52	2 " " 126a
3 " " 10	1 " " 24	1 " " 54a	2 " " 190
2 " " 11	2 " " 35	3 " " 90	2 " " 192
3 " " 12	40 " " 37		
2 " " 12c	1 " " 37a		
1 " " 15b	4 " " 38		
1 " " 16	1 " " 40		

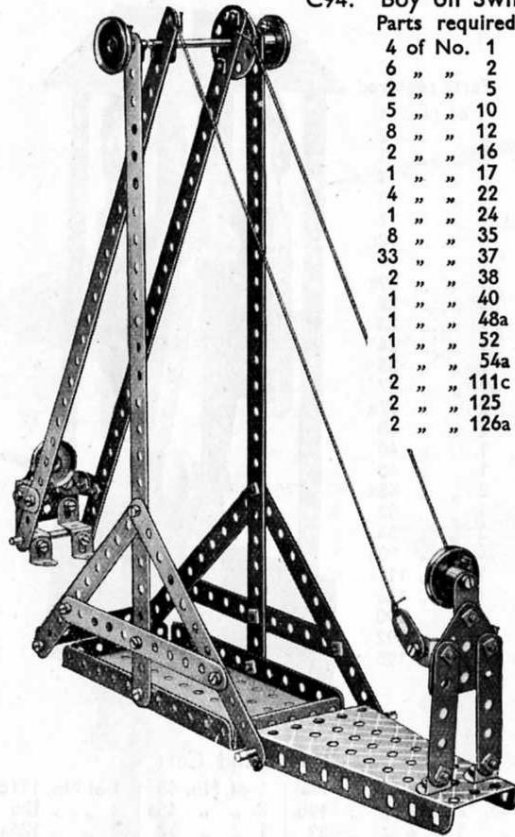


An alternative design of this model (C93M), fitted with the Meccano Magic Motor, is shown on page 19.

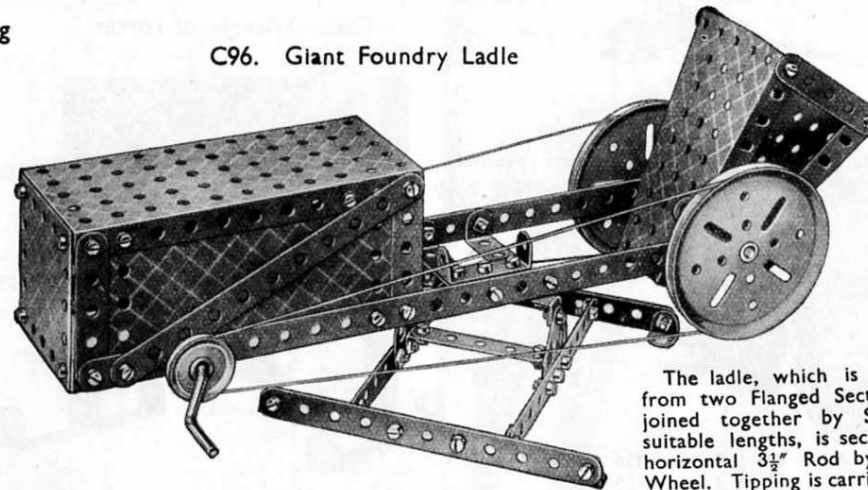
C94. Boy on Swing

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



C96. Giant Foundry Ladle

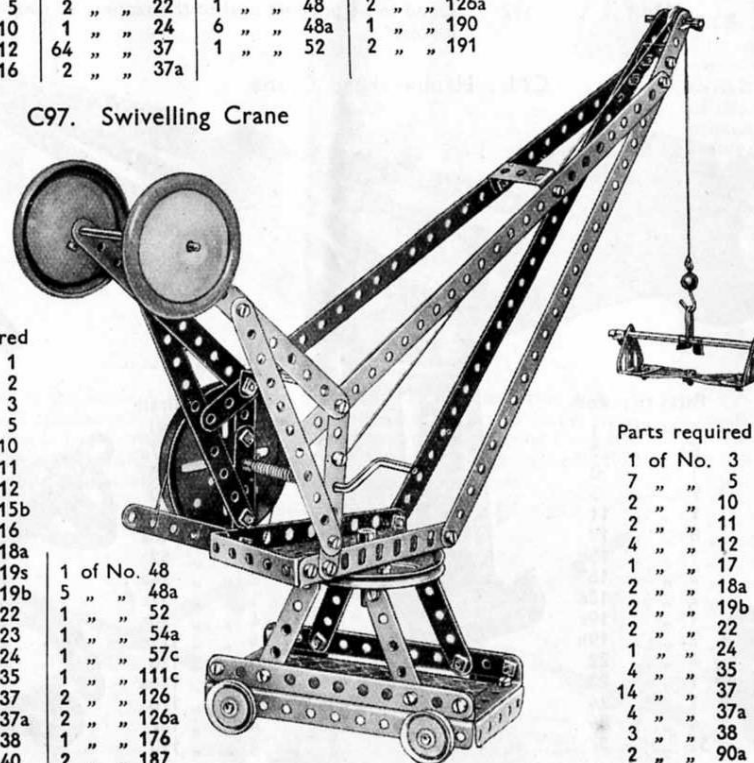


The ladle, which is built up from two Flanged Sector Plates joined together by Strips of suitable lengths, is secured to a horizontal $3\frac{1}{2}$ " Rod by a Bush Wheel. Tipping is carried out by two cords as shown.

Parts required

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

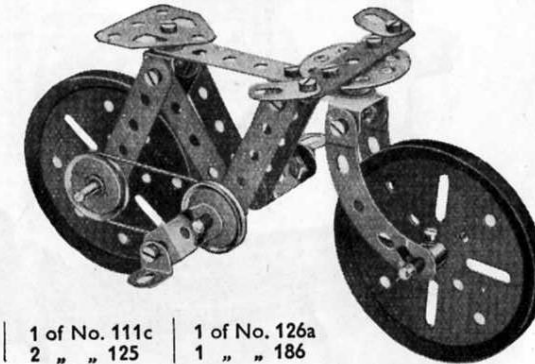
C97. Swivelling Crane



Parts required

4	of No.	1
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

C99. Bicycle



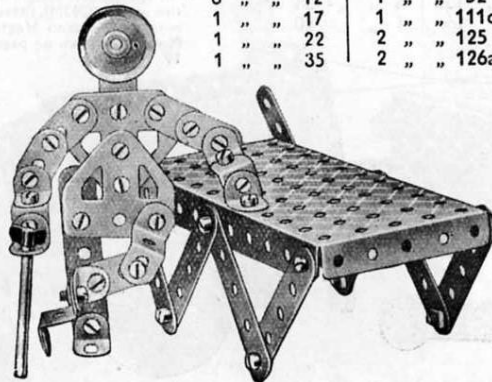
Parts required

1	of No.	3	1	of No.	111c	1	of No.	126a
7	"	5	2	"	125	1	"	186
2	"	10						
2	"	11						
4	"	12						
1	"	17						
2	"	18a						
2	"	19b						
2	"	22						
1	"	24						
4	"	35						
14	"	37						
4	"	37a						
3	"	38						
2	"	90a						

C95. King Meccano

Parts required

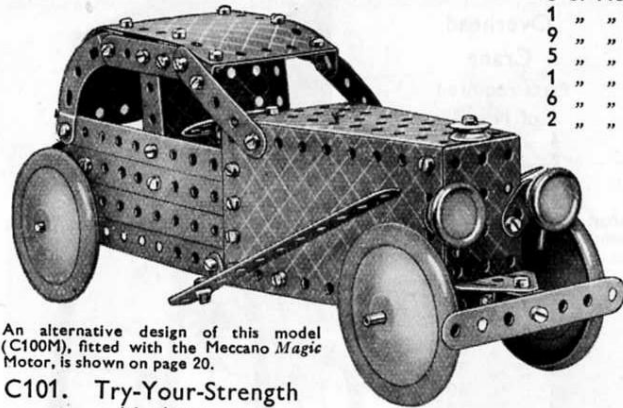
1	of No.	3	5	of No.	10	30	of No.	37
9	"	5	1	"	12	1	"	52
			1	"	17	1	"	111c
			1	"	22	2	"	125
			1	"	35	2	"	126a



Parts required

4	of No.	1	1	of No.	48
8	"	2	5	"	48a
1	"	3	1	"	52
1	"	5	1	"	54a
8	"	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			

C100. Sports Coupé

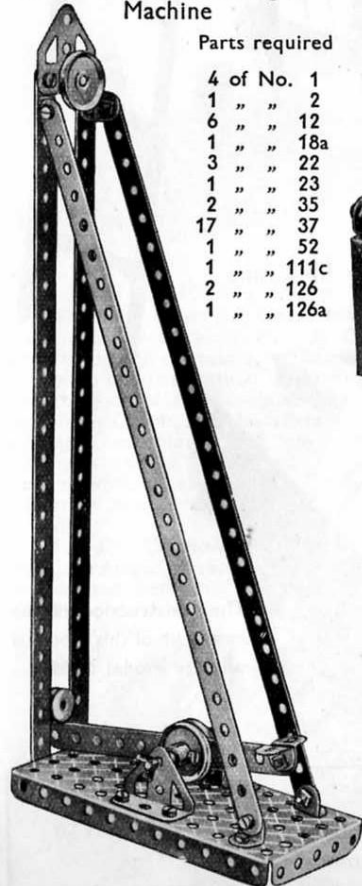


Parts required	
8 of No. 2	
1 " " 3	
9 " " 5	
5 " " 10	
1 " " 11	
6 " " 12	
2 " " 15b	

1 of No. 17	
2 " " 22	
66 " " 37	
4 " " 37a	
6 " " 48a	
1 " " 51	
1 " " 52	
2 " " 54a	
2 " " 90a	
6 " " 111c	
1 " " 125	
1 " " 126	
2 " " 126a	
4 " " 187	
2 " " 190	
2 " " 191	
1 " " 192	
Lighting Set	(not included in Outfit)

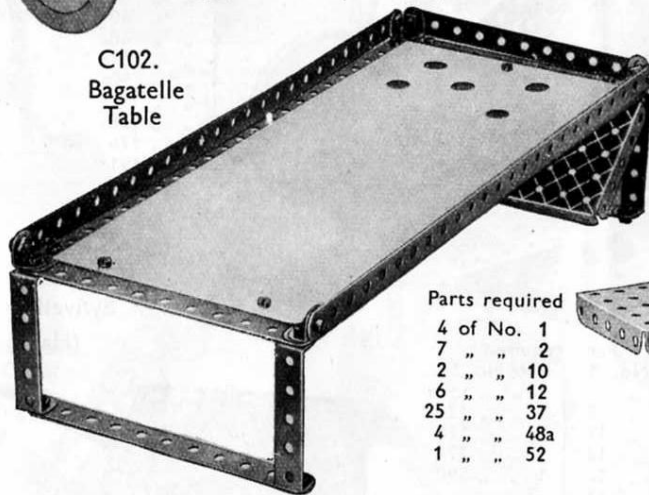
An alternative design of this model (C100M), fitted with the Meccano Magic Motor, is shown on page 20.

C101. Try-Your-Strength Machine



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

C102. Bagatelle Table

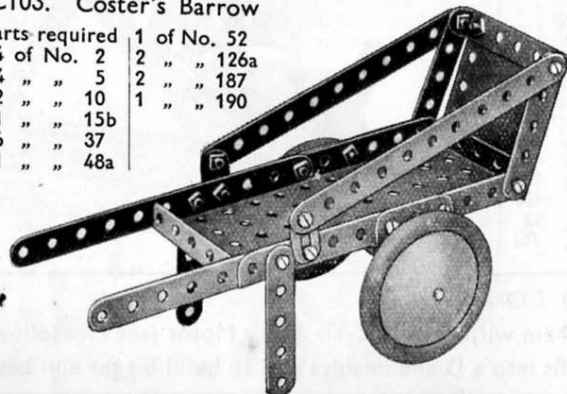


Parts required	
4 of No. 1	
7 " " 2	
2 " " 10	
6 " " 12	
25 " " 37	
4 " " 48a	
1 " " 52	

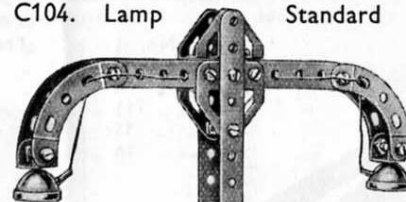
C103. Coster's Barrow

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

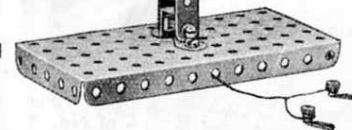
1 of No. 52	
2 " " 126a	
2 " " 187	
1 " " 190	



C104. Lamp



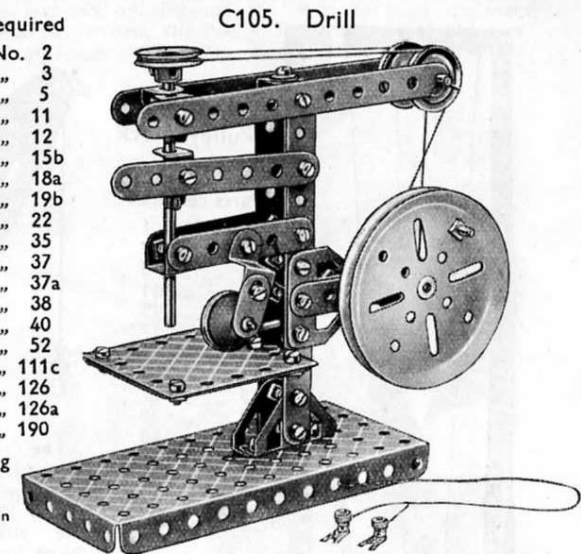
Standard	
Parts required	
2 of No. 1	
2 " " 2	
2 " " 11	
4 " " 12	
2 " " 22	
2 " " 37	
1 " " 52	
4 " " 90a	
2 " " 111c	
2 " " 125	
2 " " 126	
2 " " 126a	
Lighting Set	(not included in Outfit)



Parts required

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

Lighting Set
(not included in Outfit)



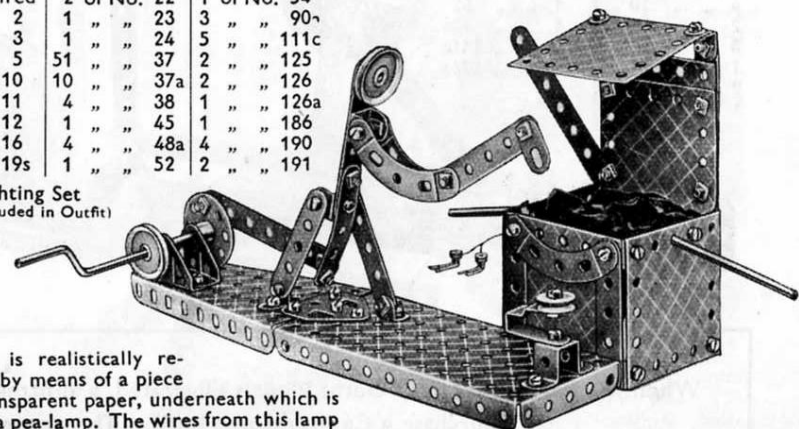
MECCANO LIGHTING SET

The appearance of many Meccano models, especially those built with Outfits A, B and C, can be vastly improved by the addition of suitably disposed lights. For this purpose a special set of lighting equipment has been introduced. This consists of two pea-lamps, two lanterns for use as headlamps or spot lights, and a fancy stand lamp. The appearance and uses of the parts are shown in models C100, C104, C105 and C106

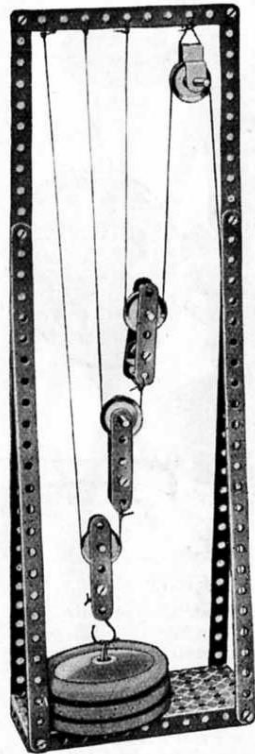
C106. Blacksmith

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

Lighting Set
(not included in Outfit)



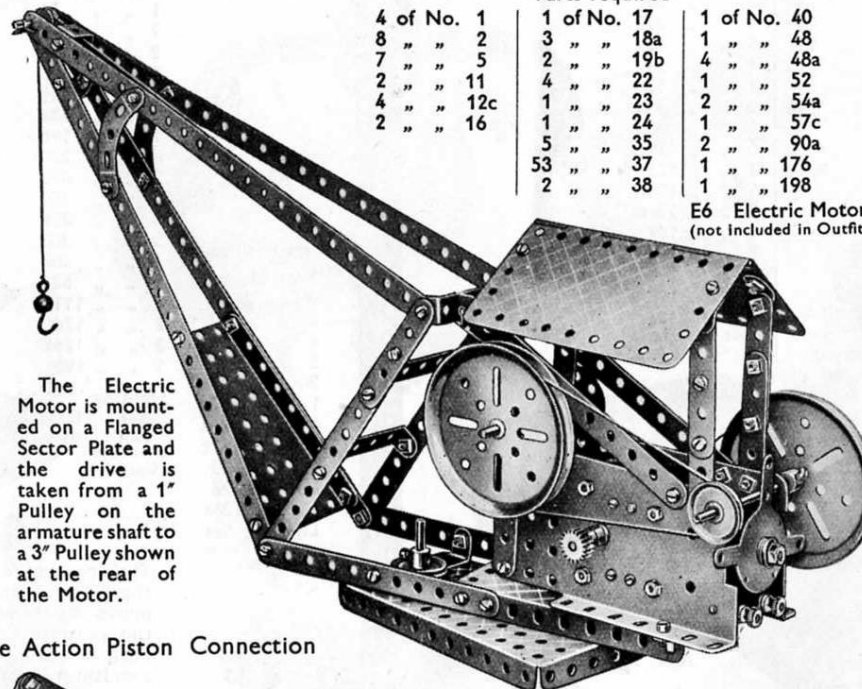
The fire is realistically represented by means of a piece of red transparent paper, underneath which is concealed a pea-lamp. The wires from this lamp are shown at the back of the model.



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

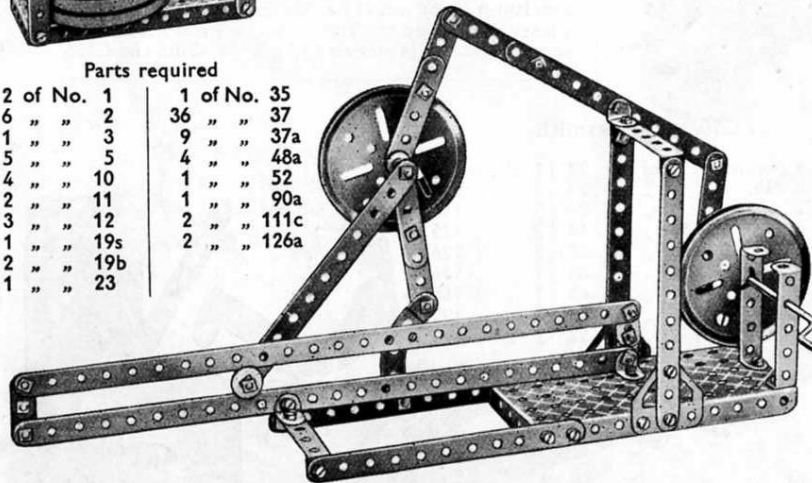
4 of No.	1
4 "	2
8 "	5
2 "	10
8 "	12
2 "	16
1 "	18a
1 "	19s
4 "	22
1 "	23
4 "	35
48 "	37
2 "	37a
1 "	40
6 "	48a
1 "	57c
4 "	90a
1 "	111c
2 "	126a
1 "	176
2 "	191



C108. Double Action Piston Connection

Parts required

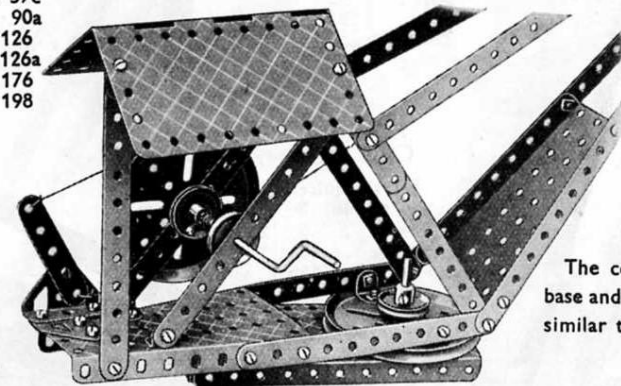
2 of No.	1	1 of No.	35
6 "	2	36 "	37
1 "	3	9 "	37a
5 "	5	4 "	48a
4 "	10	1 "	52
2 "	11	1 "	90a
3 "	12	2 "	111c
1 "	19s	2 "	126a
2 "	19b		
1 "	23		



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

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

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

C55M. Paddle Steamer

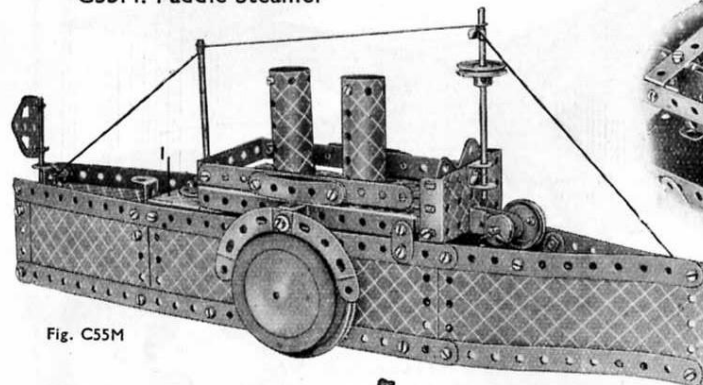


Fig. C55M

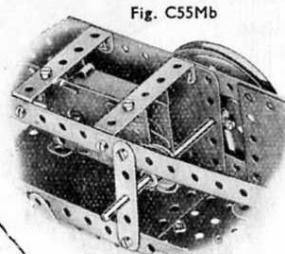


Fig. C55Mb

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

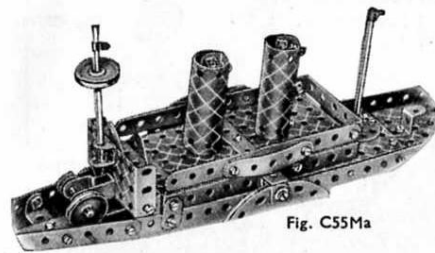


Fig. C55Ma

Parts required	2 of No.	16	7 of No.	38	2 of No.	125
4 of No. 1	1	17	1	40	2	126
7 " " 2	1	18a	1	44	1	126a
1 " " 3	2	19b	1	48	1	176
9 " " 5	4	22	5	48a	2	187
2 " " 10	1	23	1	51	4	190
2 " " 11	1	24	1	52	2	191
7 " " 12	8	35	1	54a	2	192
4 " " 12c	66	37	4	90a	1	198
2 " " 15b	6	37a	6	111c		

C27M. Mobile Crane

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

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

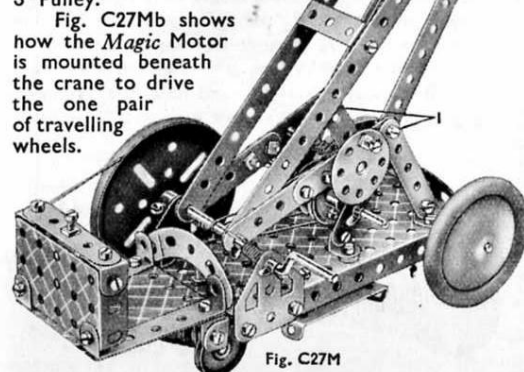


Fig. C27M

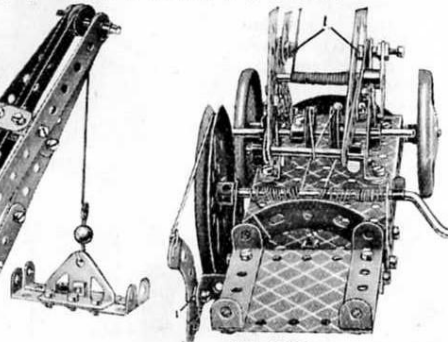


Fig. C27Ma

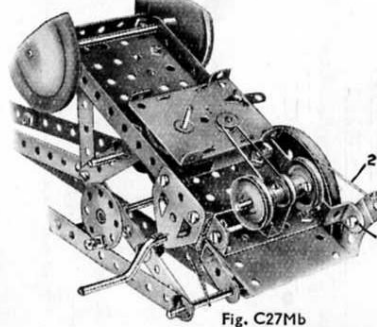


Fig. C27Mb

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

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

C64M. Roundabout

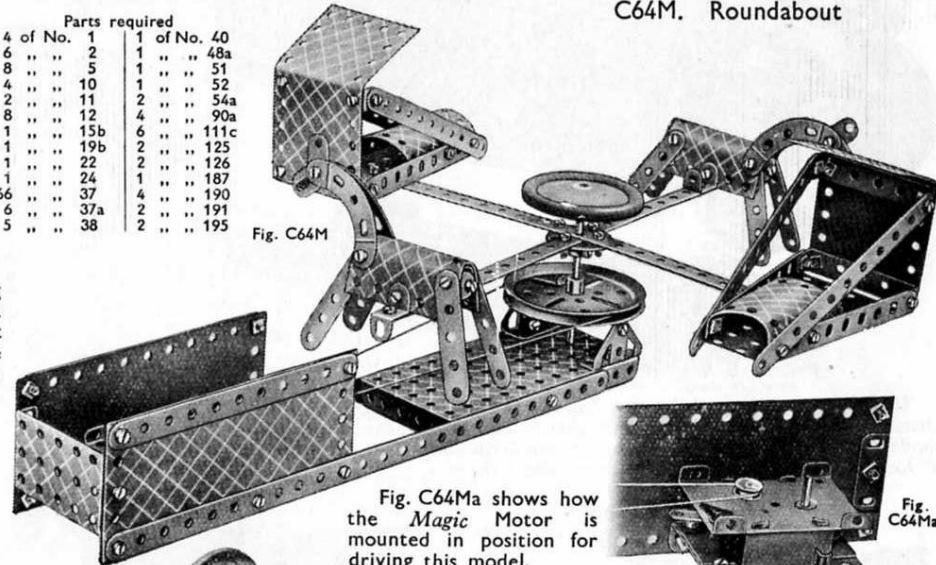


Fig. C64M

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

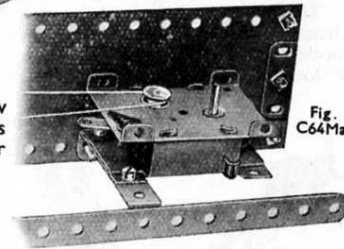


Fig. C64Ma

C93M. Horse and Cart

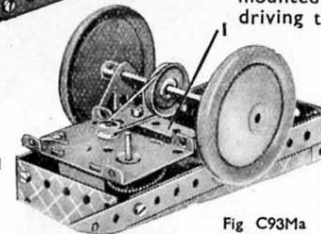


Fig. C93Ma

Parts required	2 of No.	1	1 of No.	24	1 of No.	52
2 of No. 1	1	5	35	1	54a	
6 " " 2	5	42	37	4	90a	
8 " " 5	2	38	2	126		
3 " " 10	2	40	2	126a		
1 " " 11	1	44	2	187		
1 " " 12	1	48	2	190		
2 " " 16	1	48a	2	192		
2 " " 18a	1					
4 " " 22	1					

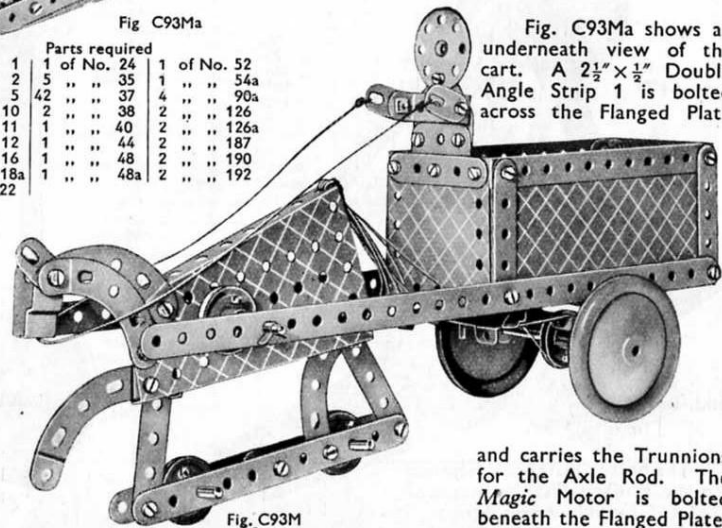


Fig. C93M

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

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

C11M. Sports Car

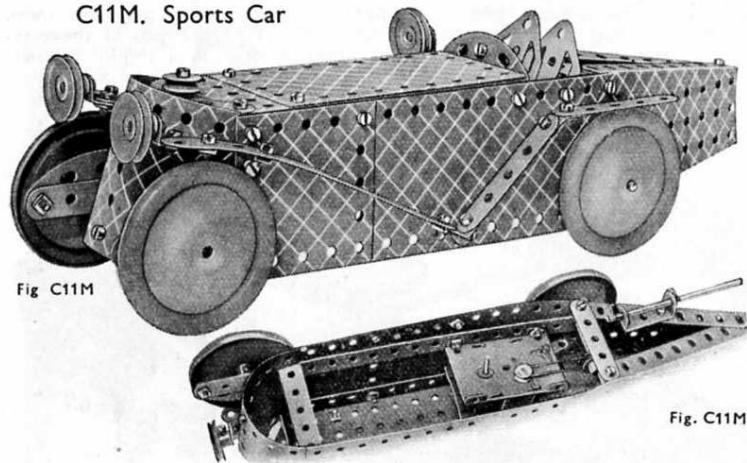


Fig C11M

Fig. C11Ma

The underneath view of the model shown in Fig. C11Ma shows how the chassis is formed from two 12½" Strips that project beyond the front of the model. The Magic Motor is bolted to one Strip and drives the special ½" loose Pulley on the axle of the rear Road Wheels.

C65M. Flyboats

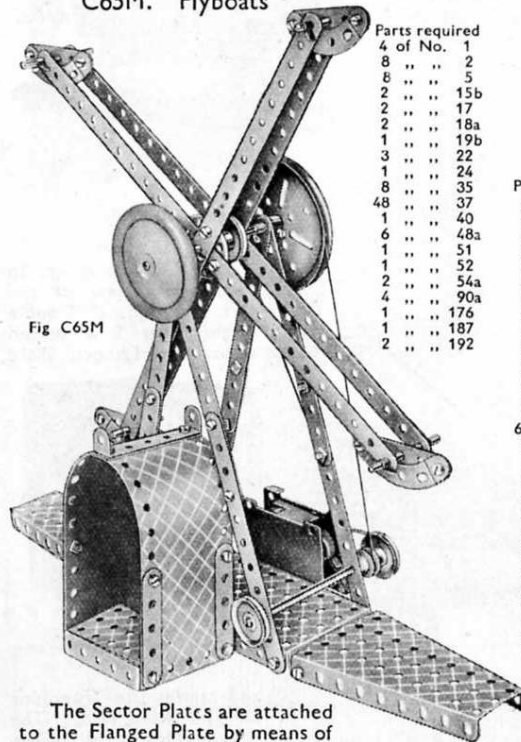


Fig C65M

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

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

The Sector Plates are attached to the Flanged Plate by means of 2½" x ½" Double Angle Strips.

Parts required

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

Parts required

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

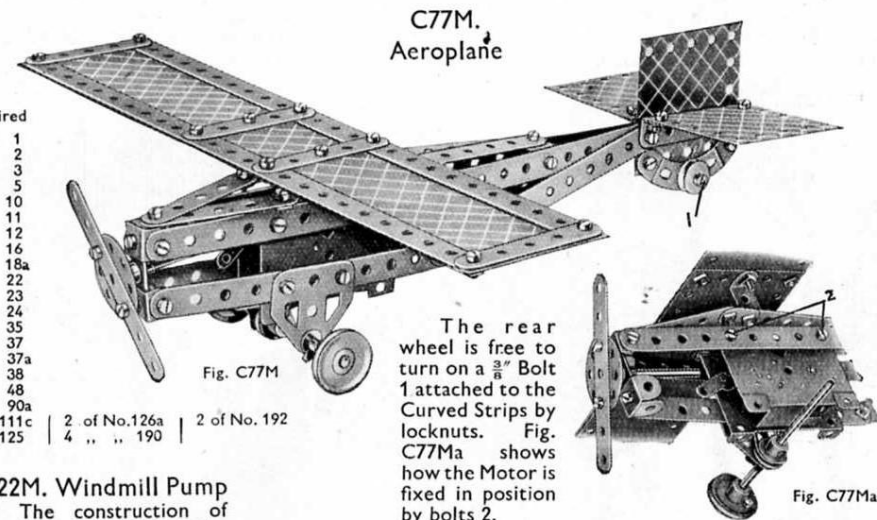


Fig. C77M

Fig. C77Ma

C77M. Aeroplane

The rear wheel is free to turn on a ¾" Bolt 1 attached to the Curved Strips by locknuts. Fig. C77Ma shows how the Motor is fixed in position by bolts 2.

C22M. Windmill Pump

The construction of the model is seen in the sectional view in Fig. C22Ma the Magic Motor being shown ready to be mounted in position. The beam operating the pump is pivoted at each end by means of locknotted bolts 2. A 2½" Strip connects one end of the beam to a Bush Wheel and pivots on the bolt 1 that is fixed in place by two nuts. The pump cylinder 3 is attached to the base Plate by Angle Brackets.

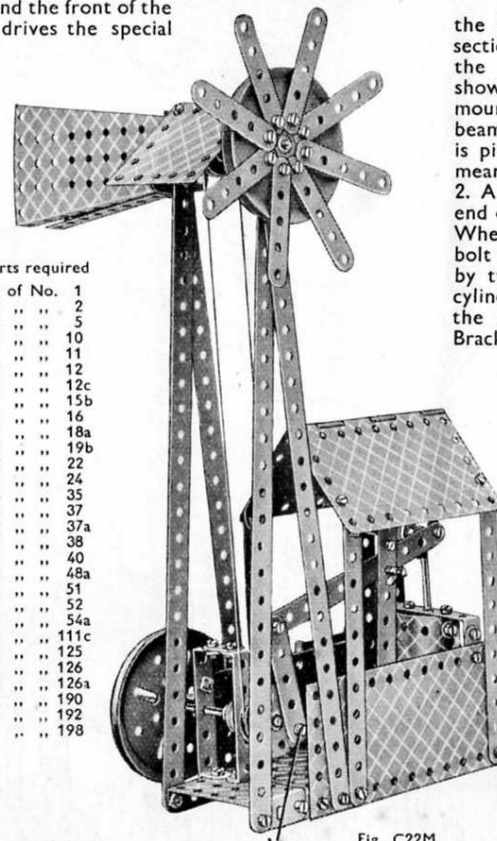
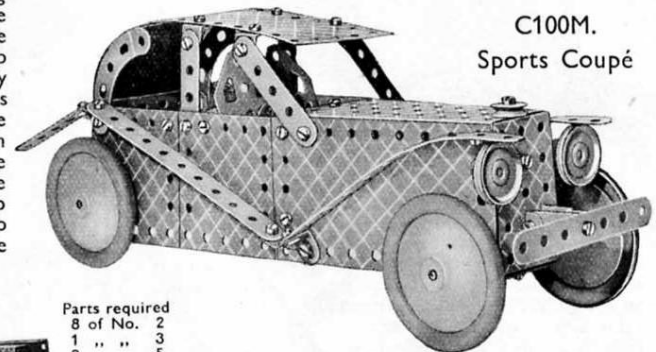


Fig. C22M

Fig. C22Ma

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

The front Axle Rod is carried in the upturned ends of a 1½" x ½" Double Angle Strip bolted to the lower flange of the 2½" x 1½" Flanged Plate forming the radiator. A dummy steering wheel, represented by a Bush Wheel, is carried on a 1½" Rod passed through the right-hand hole of a Trunnion and held in place by Spring Clips.



C100M. Sports Coupé

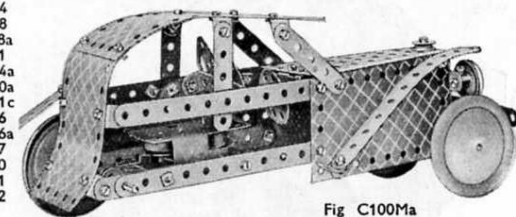


Fig C100Ma

LIST OF MECCANO PARTS

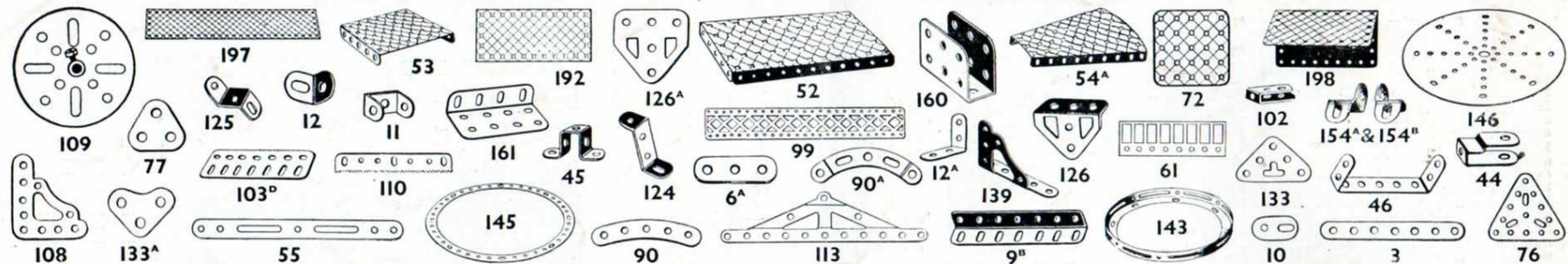
No.	Description.	No.	Description.	No.	Description.	No.	Description.	No.	Description.
1	Perforated Strips, 12"	28	Contrate Wheels, 1" diam.	73	Flat Plates, 3" x 1"	120	Buffers	164	Chimney Adaptors
1a	" " 7"	29	" " 16"	76	Triangular Plates, 2"	120a	Spring Buffers	165	Swivel Bearings
2	" " 4"	30	Bevel Gears, 26 teeth	77	" " 1"	120b	Compression Springs	166	End
2a	" " 3"	30a	" " 16" (Can only be used together)	78	Screwed Rods, 11"	121	Train Couplings	167	Geared Roller Bearings
3	" " 3"	30c	" " 16" (used together)	79	" " 8"	122	Miniature Loaded Sacks	167a	Roller Races, geared, 192 teeth
4	" " 3"	31	Gear Wheels, 1", 38 teeth	79a	" " 6"	123	Cone Pulley	167b	Ring Frames for Rollers
5	" " 3"	32	Worms	80	" " 5"	124	Reversed Angle Brackets, 1"	167c	Pinions for Roller Bearings, 16 teeth
6	" " 2"	34	Spanners	80a	" " 3"	125	" " 1"	168	Ball Bearing, 4" diam.
6a	" " 2"	34b	Box Spanners	80b	" " 4"	126	Trunnions	168a	" Races, flanged disc
7	Angle Girders, 24"	35	Spring Clips	81	" " 2"	126a	Flat Trunnions	168b	" " toothed
7a	" " 18"	36	Screwdrivers	82	" " 1"	127	Simple Bell Cranks	168c	" Casing, complete with balls
8	" " 9"	36a	" Extra Long	89	5 1/2" Curved Strips, 10" radius	128	Boss Bell Cranks	169	Digger Buckets
8a	" " 9"	36b	" Special	89a	3 1/2" " cranked, 1 1/2"	129	Rack Segments, 3" diam.	170	Eccentrics, 1/2" throw
8b	" " 7"	37	Nuts and Bolts, 7/32"	89b	4" Curved Strips, cranked, 4 1/2"	130	Eccentrics, Triple Throw	171	Socket Couplings
9	" " 5"	37b	Bolts, 7/32"	90	2 1/2" Curved Strips, 2 1/2" radius	131	Dredger Buckets	172	Pendulum Connections
9a	" " 4"	38	Washers	90a	2 1/2" " cranked, 1 1/2"	132	Flywheels, 2 1/2" diam.	173	Rail Adaptors
9b	" " 3"	40	Hanks of Cord	94	radius, 4 to circle	133	Corner Brackets, 1 1/2"	174	Grease Cups
9c	" " 3"	41	Propeller Blades	95	Sprocket Chain, 40" length	133a	" " 1"	175	Flexible Coupling Units
9d	" " 2"	43	Spring	95a	" " 28" 1 1/2" diam	135	Theodolite Protractors	176	Anchoring Springs for Cord
9e	" " 2"	44	Cranked Bent Strips	95b	" " 18" 1"	136	Handrail Supports	177	Shafting Standards, large
9f	" " 1 1/2"	45	Double	96	" " 14" 1"	136a	" Couplings	178	" " small
10	Flat Brackets	46	Double Angle Strips, 2 1/2" x 1"	97	Braced Girders, 3 1/2" long	137	Wheel Flanges	179	Rod Sockets
11	Double Brackets	47	" " 2 1/2" x 1"	97a	" " 3"	138	Ships' Funnels	180	Toothed Gear Rings, 3 1/2" diam.
12	Angle Brackets	47a	" " 2 1/2" x 1"	98	" " 2 1/2"	*138a-z	" " Raked		(133 external teeth; 95 internal teeth)
12a	" " 1" x 1"	48	" " 2 1/2" x 1"	99	" " 12"	139	Flanged Brackets (right)	181	Bobbins
12b	" " 1" x 1"	48a	" " 2 1/2" x 1"	99a	" " 9"	139a	" (left)	182	Insulating Bushes, 6BA
12c	Obtuse Angle Brackets, 1" x 1"	48b	" " 3" x 1"	99b	" " 7"	140	Universal Couplings	183	Lamp Holders
13	Axle Rods, 11 1/2"	48c	" " 4" x 1"	100	" " 5"	141	Wire Lines (for suspending clock weights)	184	Lamps, 2 1/2" volt
13a	" " 8"	48d	" " 5" x 1"	100a	" " 4"	142	Rubber Rings, 3" rim	184b	" " 3 1/2" "
14	" " 6"	50a	Eye Pieces, with boss	101	Healds, for looms	142a	Motor Tyres (to fit 2" diam. rims)	184c	" " 6" "
15	" " 5"	51	Flanged Plates, 2 1/2" x 1 1/2"	102	Single Bent Strips	142b	" " 3" "	184d	" " 10" "
15a	" " 4"	52	" " 5 1/2" x 2 1/2"	103	Flat Girders, 5 1/2" long	142c	" " 1" "	184e	" " 20" "
15b	" " 4"	52a	Flat Plates, 5 1/2" x 3 1/2"	103a	" " 9"	142d	" " 1 1/2" "	185	Steering Wheels, 1 1/2" diam.
16	" " 3"	53	Perforated Flanged Plates, 3 1/2" x 2 1/2"	103b	" " 12"	143	Circular Girders, 5 1/2" diam.	186	Driving Bands
16a	" " 3"	53a	Flat Plates, 4 1/2" x 2 1/2"	103c	" " 4"	144	Dog Clutches	187	Road Wheels
16b	" " 3"	54	Flanged Sector Plates, 4 1/2" long	103d	" " 3"	145	Circular Strips, 7 1/2" diam. overall	188	Flexible Plates, 2 1/2" x 1 1/2"
17	" " 2"	55	Perforated Strips, slotted, 5 1/2" long	103e	" " 3"	146	" Plates, 6"	189	" " 5 1/2" x 1 1/2"
18a	" " 1"	55a	" " 2"	103f	" " 2"	146a	" " 4"	190	" " 2 1/2" x 2 1/2"
18b	" " 1"	57	Hooks	103g	" " 1 1/2"	147	Pawls, with Pivot Bolt and nuts	191	" " 4 1/2" x 2 1/2"
19	Crank Handles, large, 5"	57e	" Scientific	103h	" " 7"	147a	Pawls	192	" " 5 1/2" x 2 1/2"
19a	" " small, 3 1/2"	57b	" Loaded, large	104	Shuttles, for looms	147b	Pivot Bolt with 2 nuts	193	Strip Plates, 2 1/2" x 2 1/2"
19b	" " small, 3 1/2"	57c	" small	105	Reed Hooks, for looms	147c	Pawl without boss	194	" " 3 1/2" x 2 1/2"
20	Flanged Wheels, 1 1/2" diam.	58	Spring Cord	106	Wood Rollers	148	Ratchet Wheels	195	" " 5 1/2" x 2 1/2"
20b	" " Pulley Wheels	58a	Coupling Screws for Spring Cord	106a	Sand Rollers	149	Collecting Shoes for Electric Locos	196	" " 9 1/2" x 2 1/2"
19b 3" dia., with centre boss & set screw		59	Hooks for Spring Cord	107	Tables for designing machines	150	Crane Grabs	197	" " 12 1/2" x 2 1/2"
19c 6" " " " " " "		61	Collars with Grub Screws	108	Architraves	151	Pulley Blocks, Single Sheave	198	Hinged Flat Plates, 4 1/2" x 2 1/2"
20a 2" " " " " " "		62	Windmill Sails	109	Face Plates, 2 1/2" diam.	152	" " Two	201	Lamps with Flex
21 1 1/2" " " " " " "		62a	Threaded Cranks	110	Rack Strips, 3 1/2"	153	" " Three	202	Angle Brackets (for Headlamps)
22 1" " " " " " "		62b	Double Arm Cranks	110a	" " 6 1/2"	154a	Corner Angle Brackets, 3/4" (right hand)	203	Headlamps
23a 1" " " " " " "		63	Couplings	111	Bolts, " "	154b	Corner Angle Brackets, 3/4" (left hand)	204	Headlamp Nuts
22a 1" " " " " " "		63a	Octagonal Couplings	111a	" " 6 1/2"	155	Rubber Rings, 3/4" (for 1" Pulleys)	205	" " Glasses (Green, Plain or Red)
23 1" " " " " " "		63b	Strip Couplings	111c	" " 6 1/2"	156	Pointers, (with boss) 2 1/2" overall	206	Lampshades
24 Bush Wheels		63c	Threaded Couplings	113	Girder Frames	157	Fans, 2" diam.	207	Lamp Bases
25 Pinion Wheels, 1 1/2" diam., face		64	" Bosses	114	Hinges	158a	Signal Arms, Home	208	Battery Tags and Studs
25a " " " " " " "		65	Centre Forks	115	Threaded Pins	158b	" Distant	208a	Washers for Battery Studs
25b " " " " " " "		66	Weights, 50 grammes	116	Fork Pieces, large	160	Channel Bearings, 1 1/2" x 1" x 1/2"	210	Nuts
26 " " " " " " "		67	" 25	116a	" " small	161	Grid Brackets, 2" x 1" x 1/2"	211a	Helical Gear, 3/4" (Can only be used together)
26a " " " " " " "		68	Wood screws, 3/8"	117	Steel Balls, 3/8" diam.	162	Boiler, complete, with ends	211b	" " 1 1/2" (used together)
26b " " " " " " "		69	Set Screws	118	Hub Discs, 5 1/2"	162a	" ends		
27 50 teeth to gear with pinion		69a	Grub Screws, 5/32"			162b	" without ends		
27a 57 " " " " " " "		69b	" 7/32"			163	Sleeve Pieces		
27b 133 " " " " " " "		70	Flat Plates, 5 1/2" x 2 1/2"						
27c 95 " " " " " " "		72	" " 2 1/2" x 2 1/2"						

* The series includes 26 Funnels in the correct designs and colours of leading shipping companies.

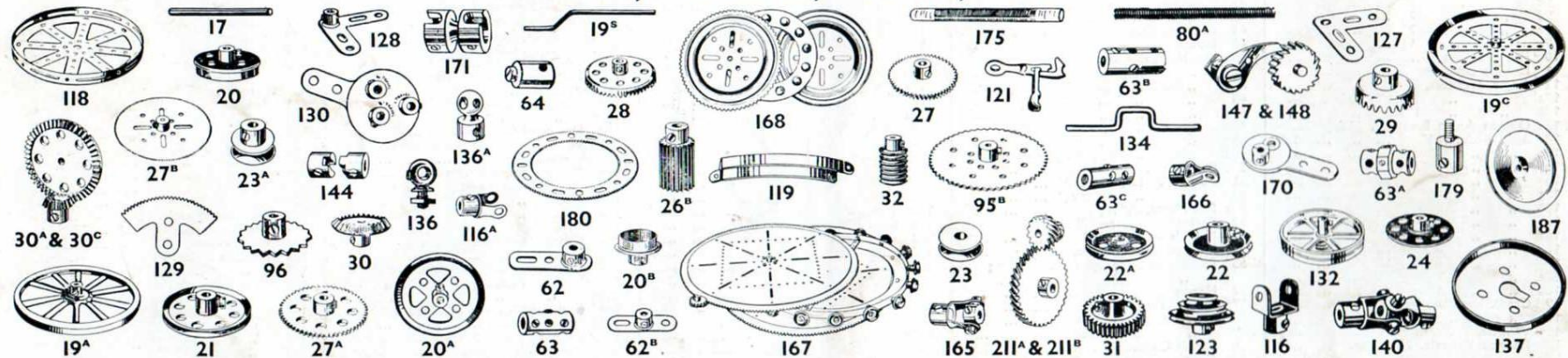
For illustrations of Meccano Parts, refer to back page

MECCANO PARTS & ACCESSORIES

PLATES, STRIPS, GIRDERS & BRACKETS



WHEELS, PULLEYS, GEARS, ETC.



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