

MECCANO



HORNBY'S ORIGINAL SYSTEM - FIRST PATENTED 1901

MODEL-BUILDING WITH MECCANO

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

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

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

HOW TO BUILD UP YOUR OUTFIT

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



ELECTRIC LIGHTING OF MECCANO MODELS

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

THE "MECCANO MAGAZINE"

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

THE MECCANO GUILD

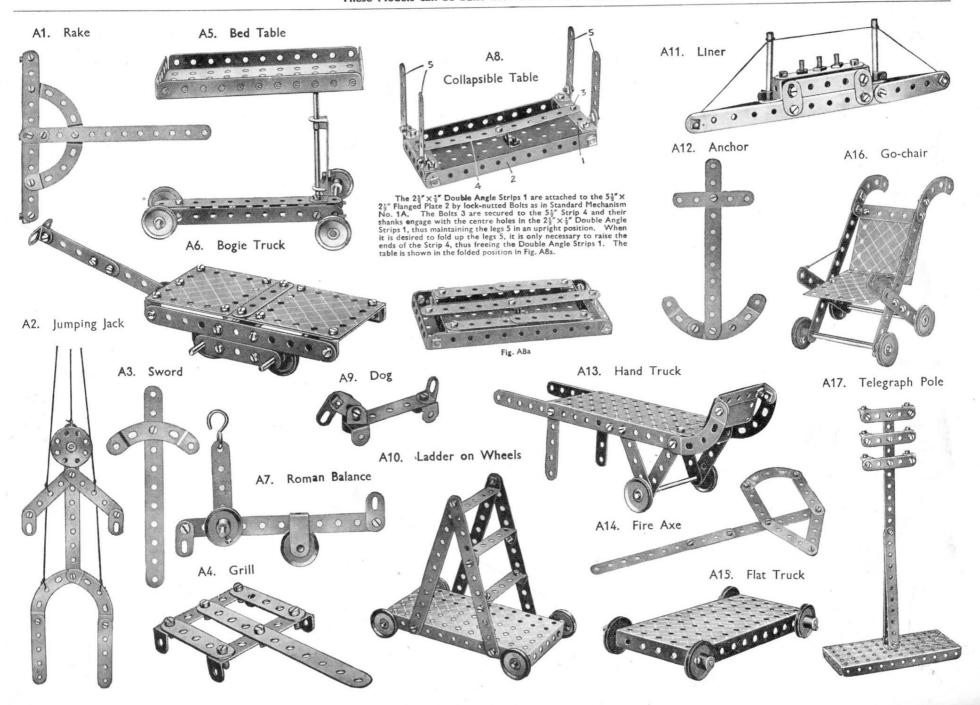
Every owner of a Meccano Outfit should join the Meccano Guild. This is a world-wide organisation for boys, started at the request of boys, and as far as possible conducted by boys. Its primary object is to bring boys together and to make them feel that they are all members of a great brotherhood, each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

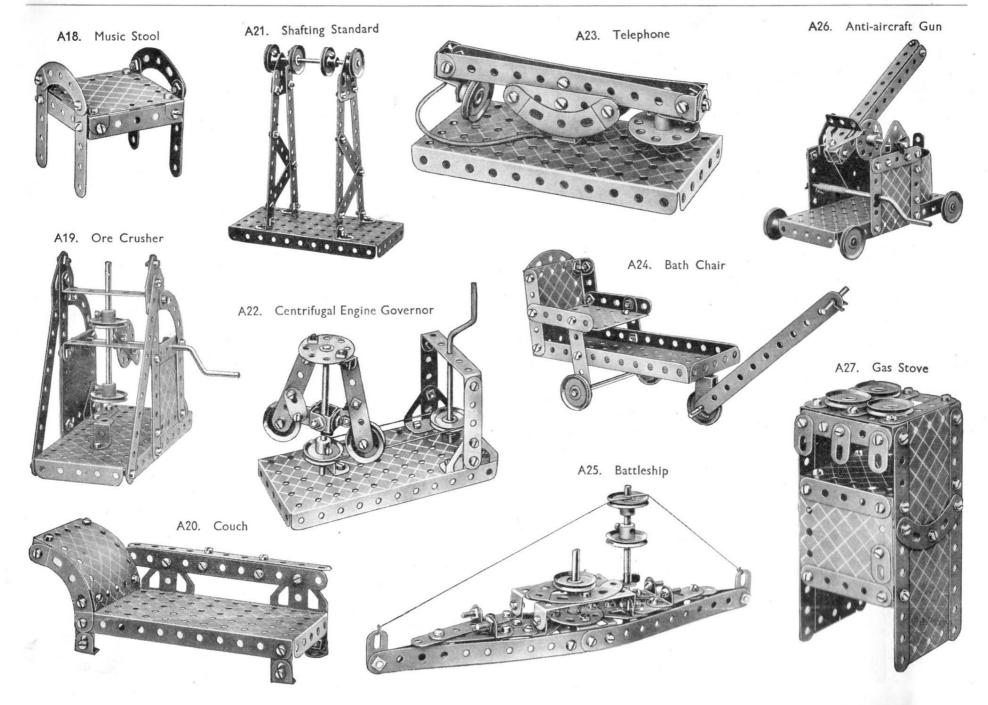
Meccano Clubs are founded and established under the guidance of the Guild Secretary at Headquarters, and at the present time there are active Clubs in nearly 250 towns and villages in the United Kingdom, and more than 100 in countries overseas. Each Club has its Leader, Secretary, Treasurer, and other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

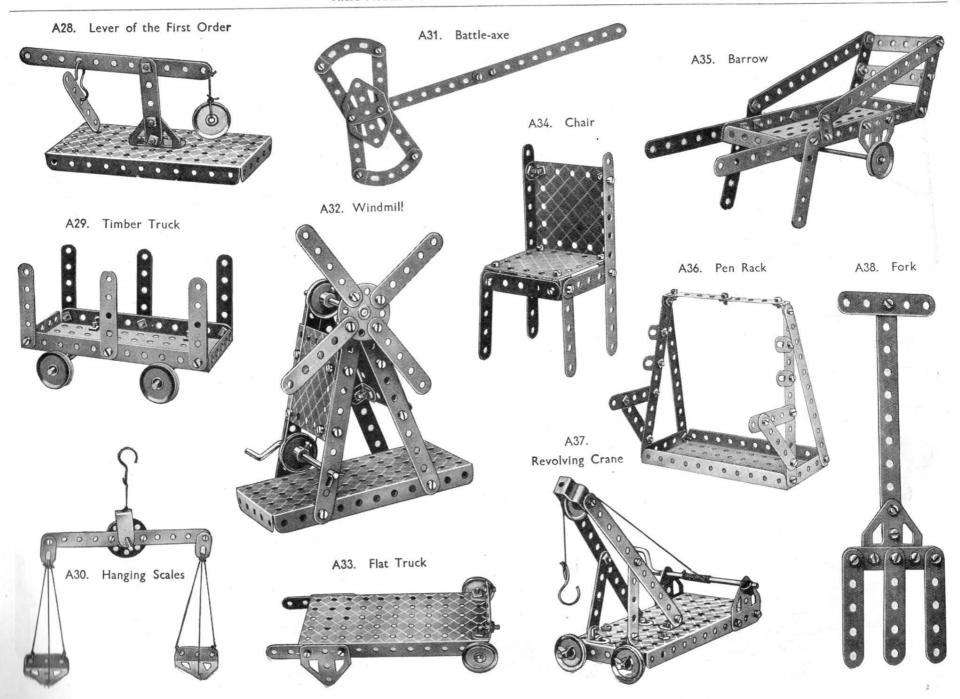
Special Merit Medallions are awarded to Club members for good work in connection with their Club, and Recruiting Medallions are awarded in connection with the Recruiting Campaign, full particulars of which will be sent on request.

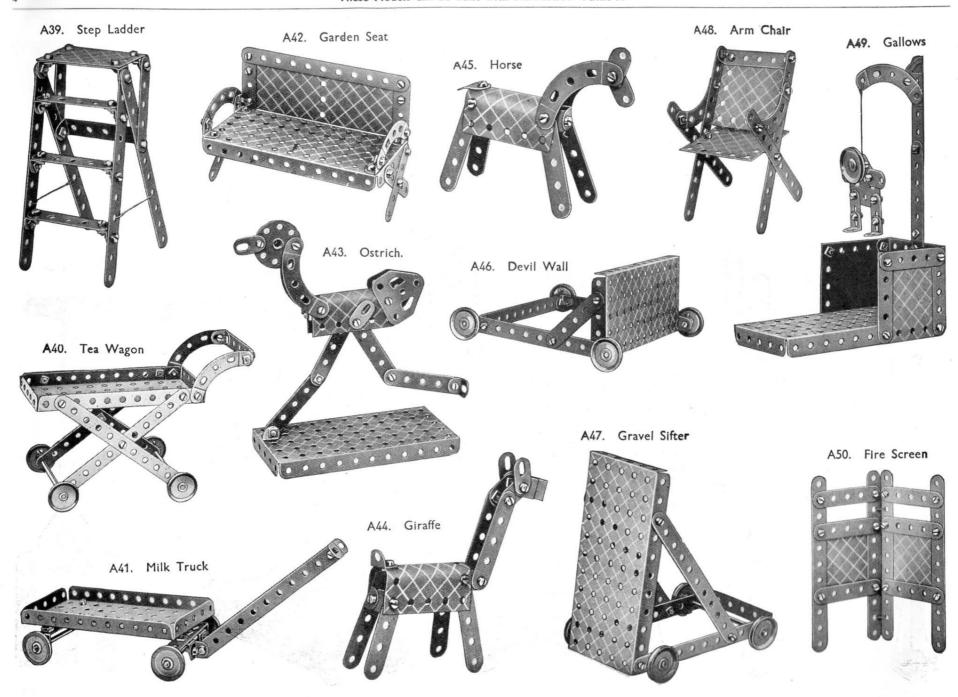
MECCANO SERVICE

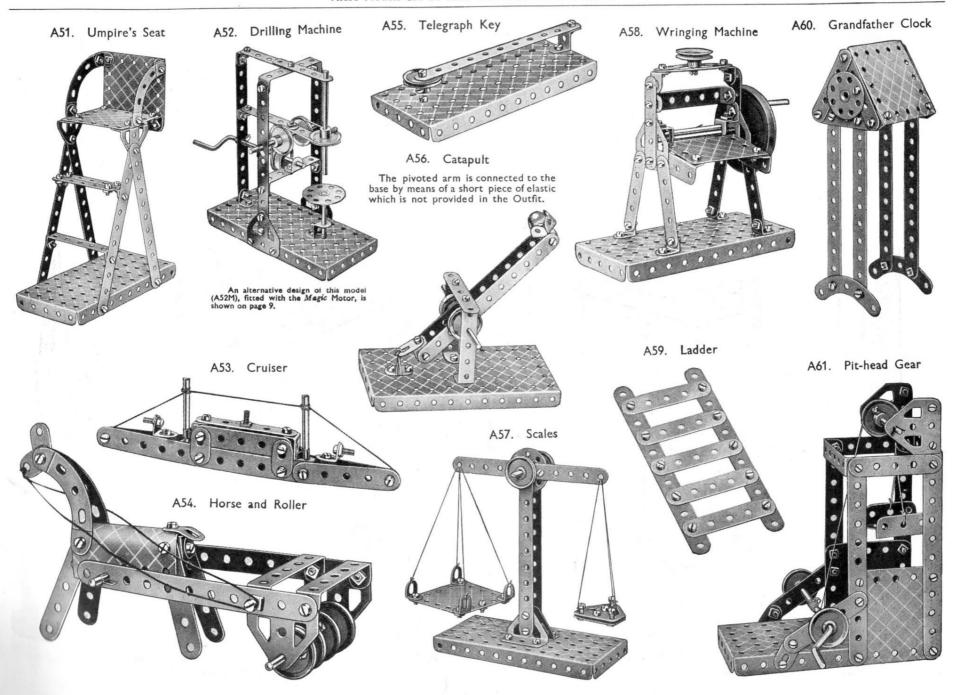
The service of Meccano does not end with selling an Outfit and an Instruction Manual. When you want to know something more about engineering than is now shown in our books, or when you strike a tough problem of any kind, write to us. We receive over 200 letters from boys every day all the year round.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

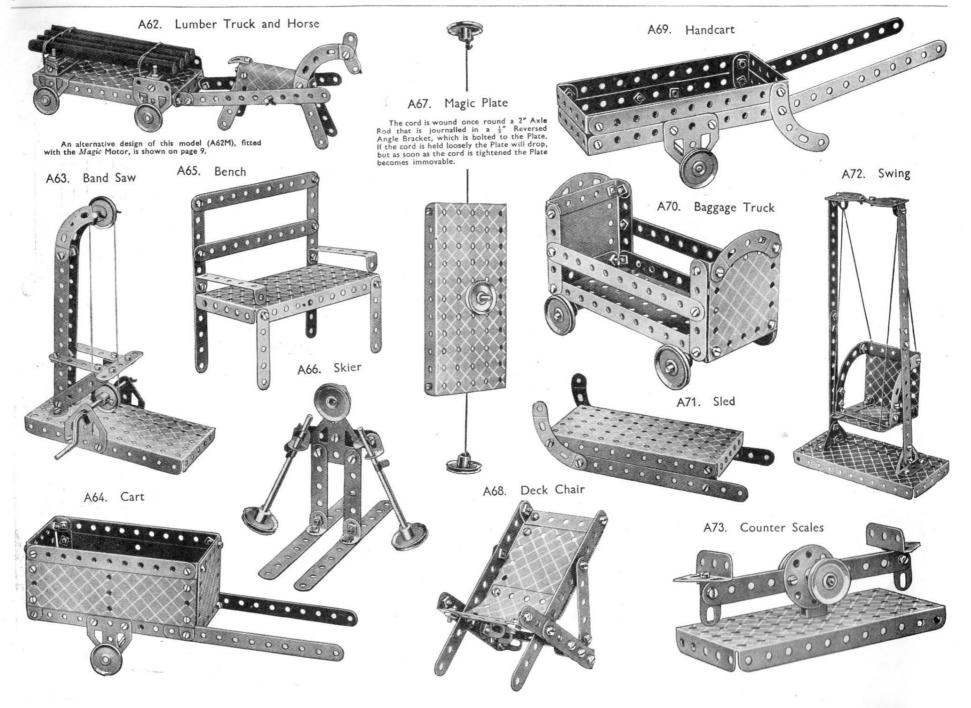


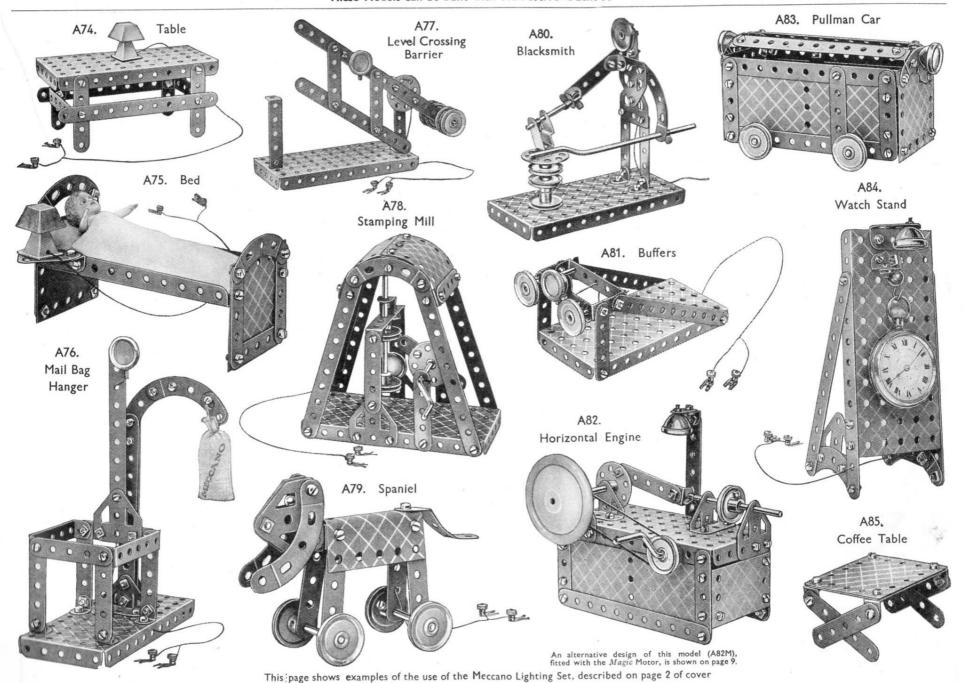


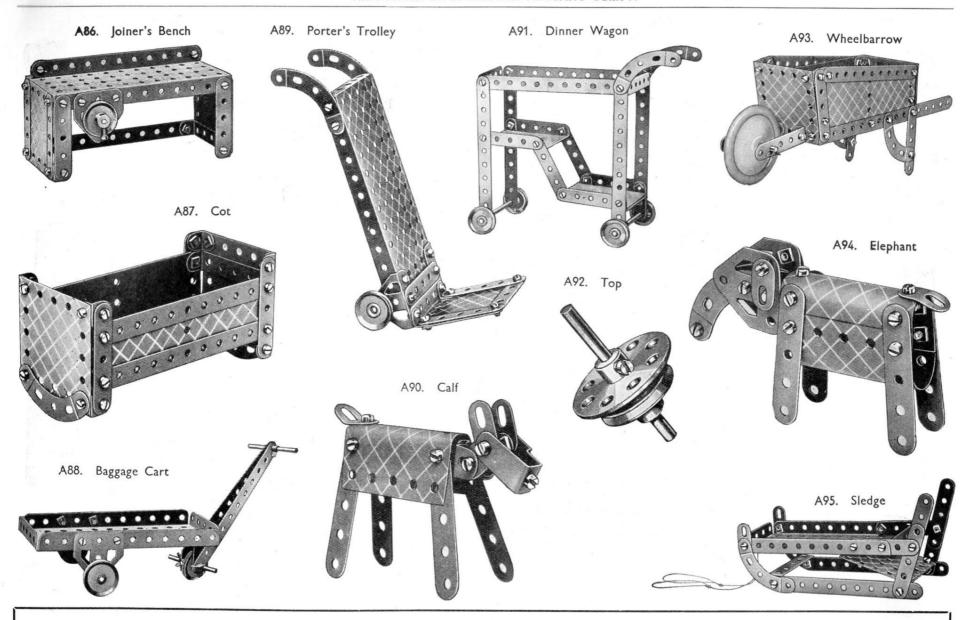








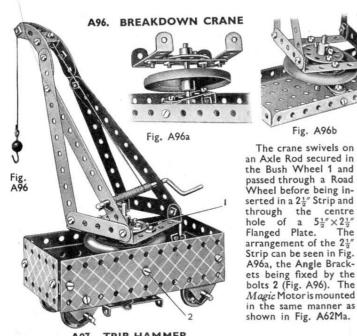




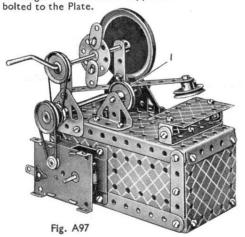
HOW TO CONTINUE

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

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

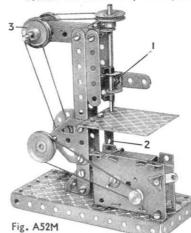


A97. TRIP HAMMER The hammer is pivoted at 1 on two Angle Brackets that are bolted through the slots to the centre hole of the 5½ "Strip. A 2" Axle Rod passes through the Angle Brackets and is supported in Trunnions



A52M. DRILLING MACHINE

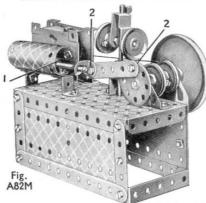
The drill Rod is journalled at the top in a Flat Bracket bolted to two Angle Brackets, and at its lower end in two Angle Brackets 1 that are bolted to a Strip attached to the vertical member of the drill. The drill table is supported by a $2\frac{1}{2}'' \times \frac{1}{2}''$ Double Angle Strip 2. A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



A82M. HORIZONTAL ENGINE

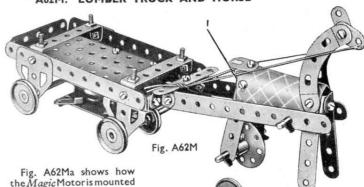
Fig. A96b

The crane swivels on



The cylinder is composed of a $2\frac{1}{2}$ × $2\frac{1}{2}$ Flexible Plate and a $2\frac{1}{2}$ " $\times 1\frac{1}{2}$ " Flexible Plate, and two Angle Brackets are bolted inside the cylinder to serve as guides for the piston rod. One of the Brackets is seen at 1. The bolts 2 are locknutted (see page 49), to form pivots.

A62M. LUMBER TRUCK AND HORSE



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

A98. ROUNDABOUT

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



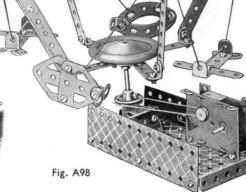
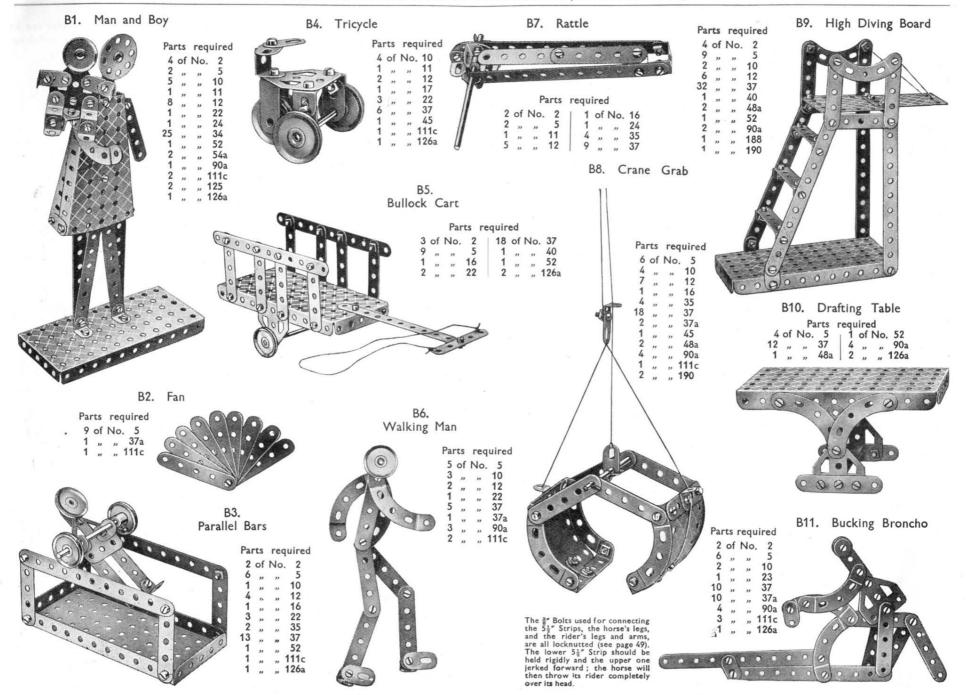


Fig. A62Ma

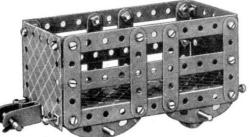






Parts required 4 of No. 37 4 " " 90a A short length of elastic

B15. Cattle Truck



D.	10	Cincle	Sheave	Pulley	Block
B	10.	Single	Sueave	runey	DIOCK

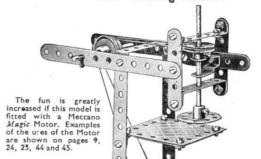


Parts required 1 of No. 23 " 111c " 126a

B19. Scales Parts required

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





B13. Coster's Barrow Parts required

				104.			
	of	No. " "	2	13	of	No.	37
	,,	,,	5	1	,,,	,,,	45
	,,	,,	10	2	,,	,,	48a
	,,	,,	11	1	,,	**	52
•	,,	,,	12				

		Par	rts r	eq	uir	ed	
4	of	No.		9	of	No.	37a
8	,,	,,	5	1	,,	,,	45
2	,,	,,	16	2	,,	,,	48a
1	,,	,,	18a	1	,,	,,,	52
4	,,	**	22	4	,,	,,	90a
2	,,	,,	35	4	,,	,,	111c
25	,,,	,,,	37	2	,,	,,	190
							D14

Wrestlers



B20. Card Table

Parts required 4 of No. 5 12 37

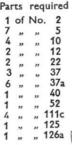
Parts required

				- 1			
4	of	No.	2	28	of	No.	37
8	,,	"	5	1	,,,	,,,	37
6	,,	**	12	1		,,	40
2	,,	,,,	16	1	,,	30	45
1	,,	34	19s	2	,,,	,,,	48
4	,,	"	22	1	,,	,,	52
1	,,	,,,	24	2	,,	**	126
6	,,	25	35	1	,,,	,,,	190

B22. Gong

B14. Swivelling Crane

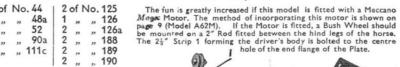
		1	arts	requ	uire	DS			
2	of	No.	1	1 4	of	No	. 35		
6	,,	,,,	5	19	,,,	,,,	37		
4	,,	,,,	10	1	,,,	22	40		
2	,,	,,	12	1	,,	22	52		
1	,,	,,	16	1	29	22	57c		A
1 2 1	,,,	,,,	17	2	29	33	126		MI.
1	,,	,,	19s	1	25	22	176	1	7 /A
4	,,,	,,	22					43	
1	,,	**	23				4		27
1	,,,	29	24	1			M	10	1

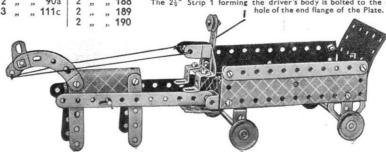


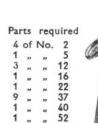
Parts required



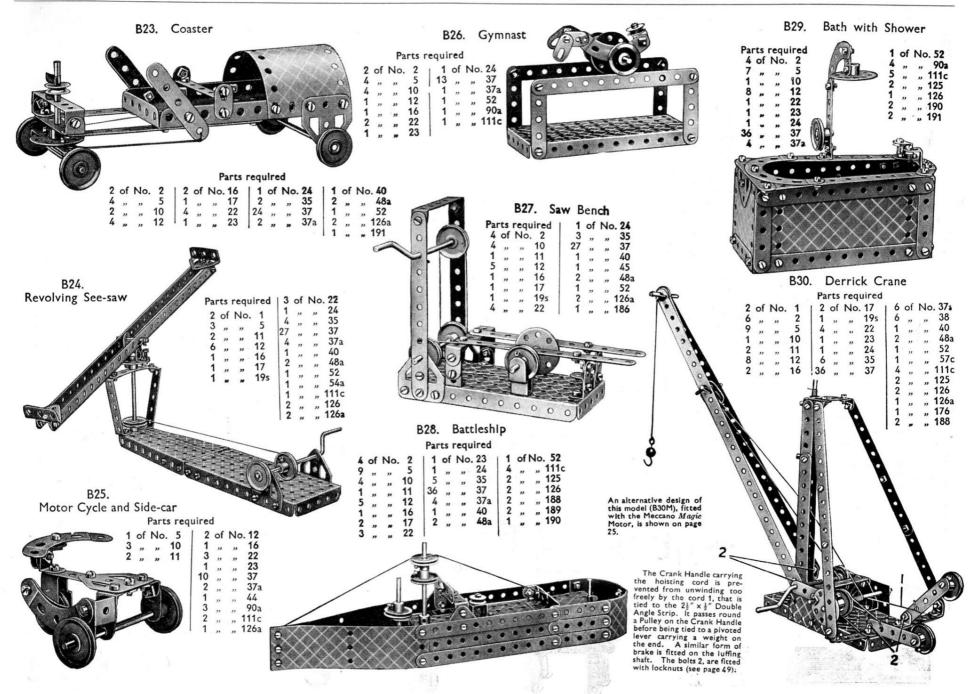


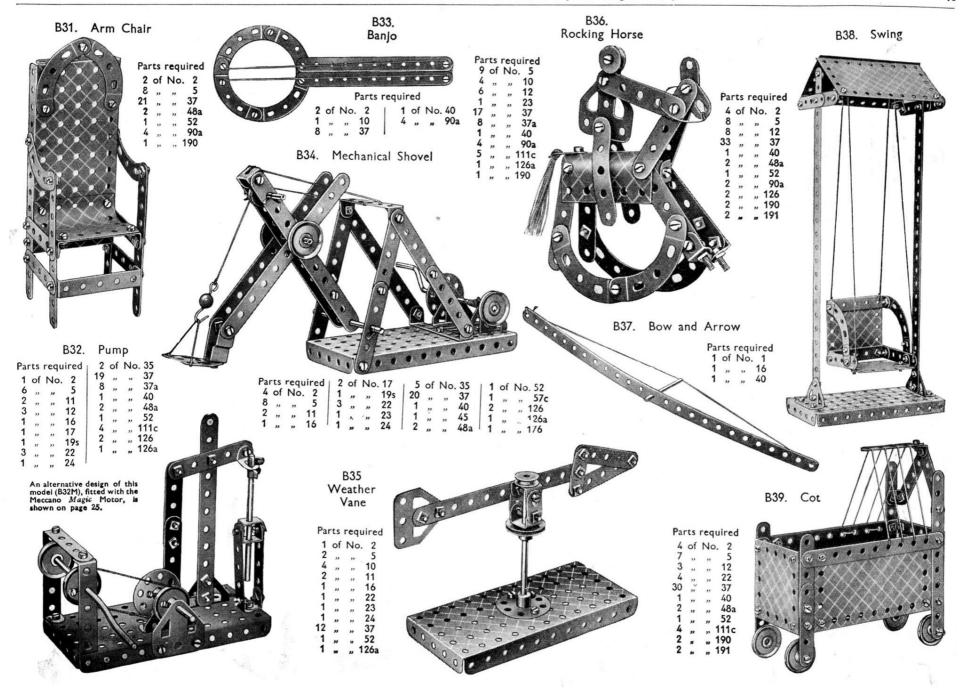


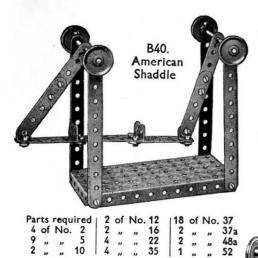




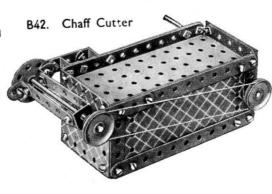




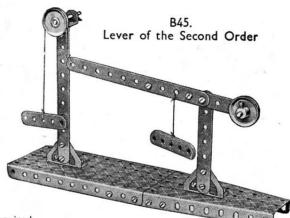




Par 4	of	requ No.	uired . 2
8	,,		5
1	"	"	11
	"	"	
6	,,	,,,	12
1	,,	33	16
1	,,	,,	19s
2		,,	22
1	,,	,,	24
2	,,		
	,,	"	35
33	,,	,,	37
1	,,	,,	40
1		,,	52
2	222		125
	"	**	
2	,,	,,	190
2	,,	**	191



		No.	
9	,,	,,	5
2	"	,,	17
2	,,	,,	22
1	,,	,,	23
2	,,	"	
21	"	"	37
2	"	"	37a 38
1	"	,,,	40
1	"	99	52a
1	"	"	54a
1	,,	" .	111c
1	"		125
2	"	,,,	126

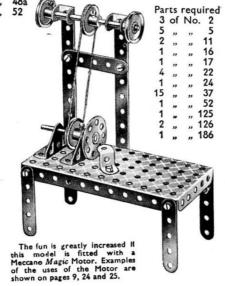


B46. Electric Trolley

B41. Modern Dressing Table

Farts required

4 of No. 2	1 4	of	No	. 12
9 " " 5	1	,,	,,	17
4 " " 10	1	30	,,	24
1 " " 11	2	,,	,,	35
and the last section	36	,,	"	37
	5 2	"	"	37a
4 6 5		,,	"	48a
XXX	5 2	"	**	52
	1 4	"	"	90a 111c
9	1 3	,,		126
	1 1	"		126a
	1	"	**	188
	1 1	"		189
10 m	l i	"		190
	2			191
		.,	,,	517650

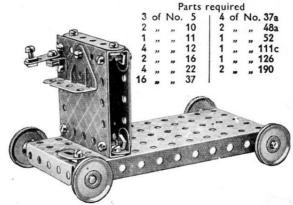


Bench Lathe

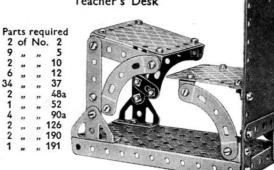
B44. Motor Boat

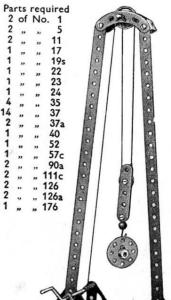
		P	arts	requ	ire	4	
2	of	No.	2	1	of	No.	23
2	,,	,,	5	7	,,	,,	37
3	,,	,,	10	1	,,	,,	37a
1	**	,,,	11	1	"	,,	111c



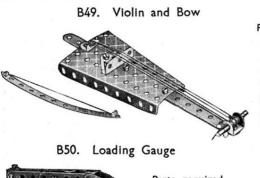


B47. Teacher's Desk

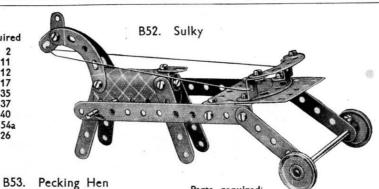




B48. Pulley Block



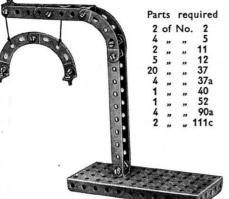
Pa	ırts	req	uired
4	of	No.	2
1	,,	,,	11
1	,,	,,	12
1	,,	,,	17
5	,,	,,	35
5	.,	,,	37
1	,,	,,	40
1	,,	,,	54a
1	,,	"	126



Parts required 2 of No. 2

Par	ts	req	uired
9	of	No.	. 5
4	,,	,,	10
8	,,	,,	12
26	,,	"	37
2	*	**	37a
2	,,	**	48a
4	,,	,,	90a
2	**	"	111c 190
2	"	**	190





Bread Van Parts required

				I al	62	164	unea				
4	of	No.	2	1 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



Par	ts	reg	uire	1 1	of	No.	12	5	of	No.	37a
2	of	No.	2	1	29	,,	22	2	,,	,,	90a
2	,,	,,	5	1	,,	,,	23	2	,,	,,	111c
3	**	,,	10	11	,,	,,	37	2	,,	,,	37a 90a 111c 126a

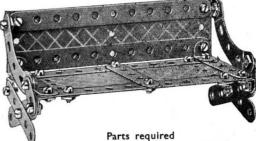
By alternately pushing and pulling the lower of the $5\frac{1}{2}$ " Strips, the hen can be made to peck vigorously at the "bowl," a 1" Pulley. The bolts used for securing the $5\frac{1}{2}$ " Strips together should be locknutted, care being taken to ensure that no "side play" is permitted.



2 of No. 22

B54. Grass Cutter

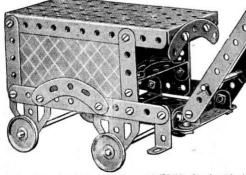




B57. Station Seat

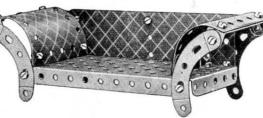
24 of No. 37 5 10

B58. Stool for Dressing Table



An alternative design of this model (B\$1M), fitted with the Meccano Magic Motor, is shown on page 25.

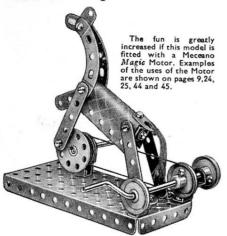




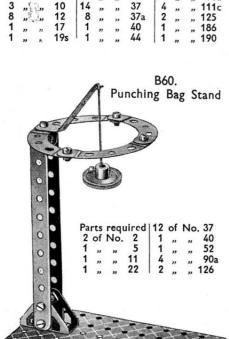




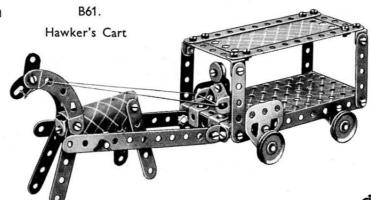




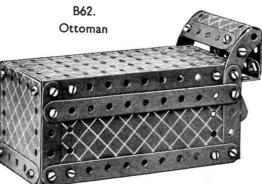
Pa	arts	req	uired	1 4	of	No.	22	11	of	No.	52
		No.		1	,,	,,	24	2	,,	,,	90
3	,,'	100	10	14	,,	,,	37	4			111
8	,,		12	8	,,	>>	37a	2	,,		125
1	,,	,,,	17	1	,,,	,,	40	1	,,	,,	186
1	,,	*	19s	1	,,	,,	44	1	,,	,,	190



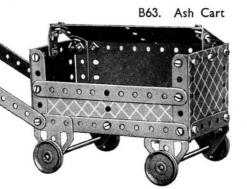
Par		rec	quire
4	of	No	. 2
8	,,	,,	5
4	,,	,,	10
8	,,	,,	12
2	,,	"	16
1	,,	,,	17
4	,,	,,	22
1	,,	,,	23
4	,,	,,	35
35	,,	,,	37
4	,,	,,	37
1	,,	,,	40
2	,,	,,	48
1	,,	,,	52
2	,,	,,	90:
2	,,	,,	1110
2	,,	,,	125
2	,,	,,	126
2	,,	,,	126
1	,,	,,	190
1	,,	,,	191



The fun is greatly increased if this model is fitted with a Meccano Magic Motor. For examples of the uses of the Motor see pages 9, 24, 25, 44 and 45. If the Motor is fitted, a Bush Wheel should be mounted on a 2" Rod fitted between the hind legs of the horse.



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



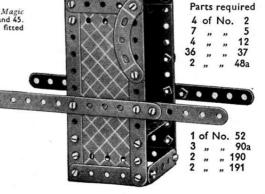
Parts required 12 52 111c 126 126a 189

B64. Shepherd's Crook



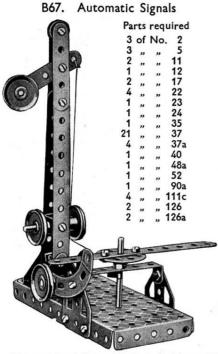


B65. Sedan Chair



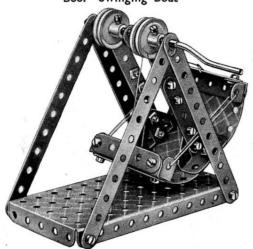
B66. Strong Man

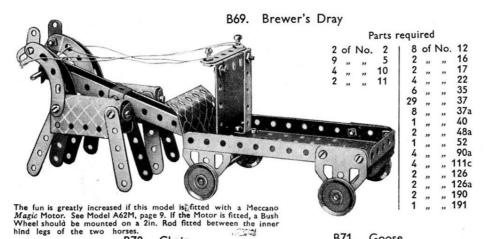




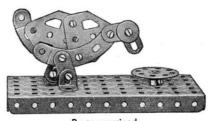
The weighted Curved Strip is locknutted (see page 49) to the Flat Trunnion. When the horizontal $5\frac{1}{2}$ " Strip is tripped by the locomotive the signal is raised to "danger" until the mechanism is re-set.

B68. Swinging Boat







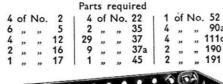


B71. Goose

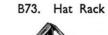
		1	arts	requ	ire	a	
4	of	No.	10	2	of	No.	37a
2	,,	,,	12	1	,,	,,	52
1	,,	,,	23	2	,,	,,	90a
1			24	3	,,	,,	111c
6	,,	,,	37	2	,,	,,	126a

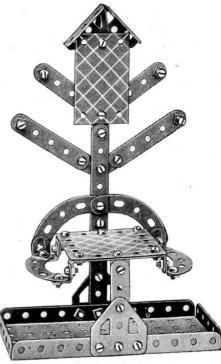
B72. Cattle Truck

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	, 1	, 5 , 10 , 12 , 19s , 22 , 35 , 37 , 37a , 40 , 48a

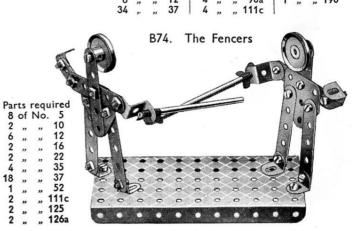


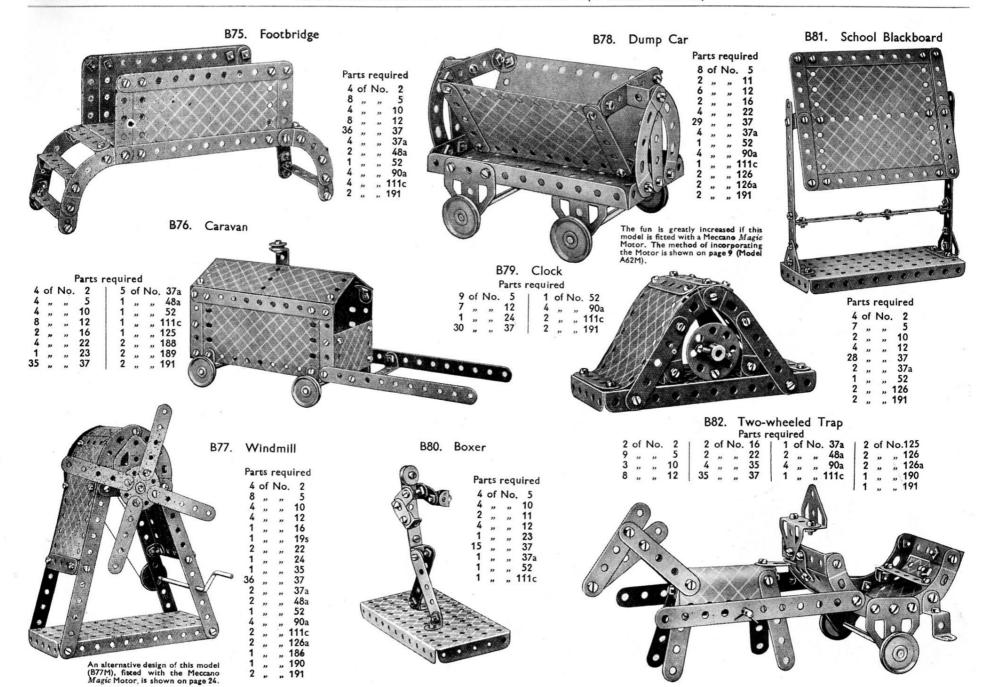






				га	1.52	requ	uneu				
2	of	No.	2	8	of	No.	37a	2	of	No	.126
9	,,	,,	5			,,	48a	2	,,	,,	126a
2	,,	,,	10	1	,,	,,	52	1	,,		188
8			12	4			90a	1			190







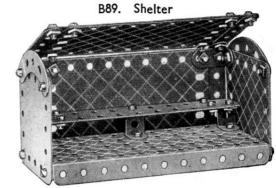
B83. Weighing Machine

Parts required 4 of No. 2 191



B86.

Swinging Garden Seat Parts required 4 of No. 2 126a 190



B90.

Windmill

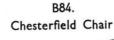
Pump

Parts required

2 of No. 1

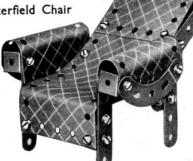
126a

Parts required 4 of No. 12 1 of No.125 37 52 90a 2 " " 190 2 " " 191



Parts required

9	of	No	. 5	1 2	of	No	. 482
2	,,	,,	10				902
2	,,	,,	11	2			125
8	,,	,,	12	2	,,		190
32		**	37	2		••	101



9 of No. 5 12 23 37 37a 48a 52 111c 126a

Parts required

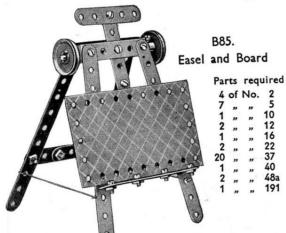
	Pa	rts	req	uired	2	of	No.	16	2	of	No	. 37a	1	of	No	.125
	2	of	No.	2	1	,,	,,	17	1	,,	,,	52	2	"	,,	126
	5			5	4			22	2	,,	,,	90a	2	,,	,,	126a
	4	"		10	4			35	2	,,	,,	111c	1	,,	,,	190
400	7	"	,,	12	26			37								
0	•	"	,,,	7		,,	~						(m		
			A			.5		No.			-					in.
20		650			umeta	A	1			齫	-	07 -		w	3/	Q)
ala	X	X	$\times 0$	9.		W		45-		100					665	
· / J/X	X	W/2	N	02/03/70	erid			0	70	0	0	, 0	Old S	9	D40	77
000	0	8	0		940	9366				7		1945	-	1	H	«
AND	-	3	1					A		4				7	16	
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									6	/						_

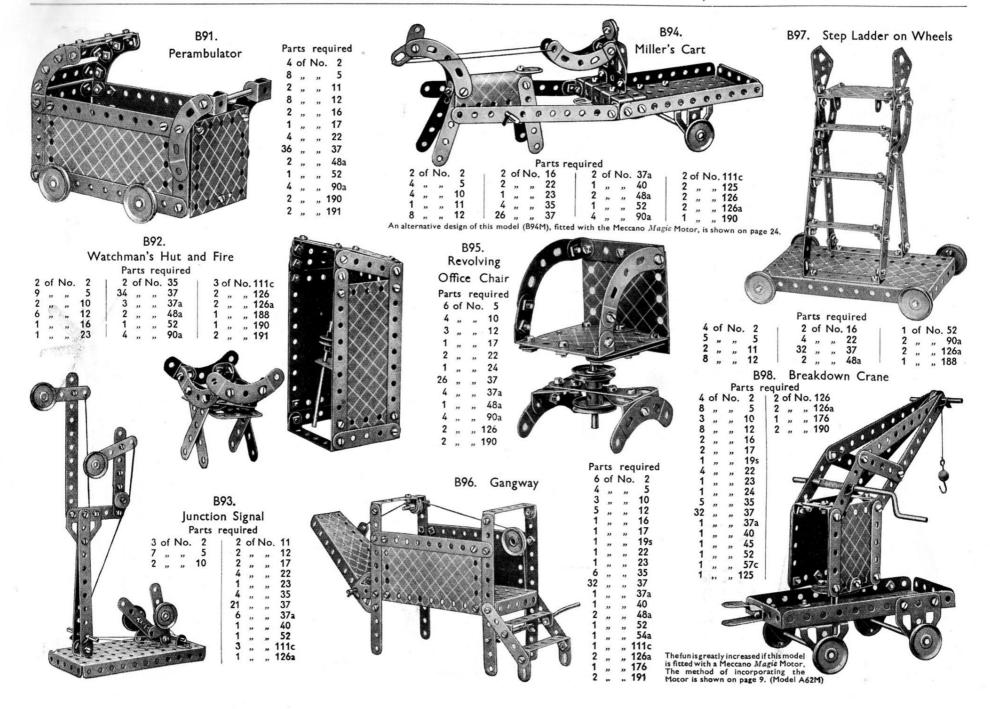
Horse and Cart

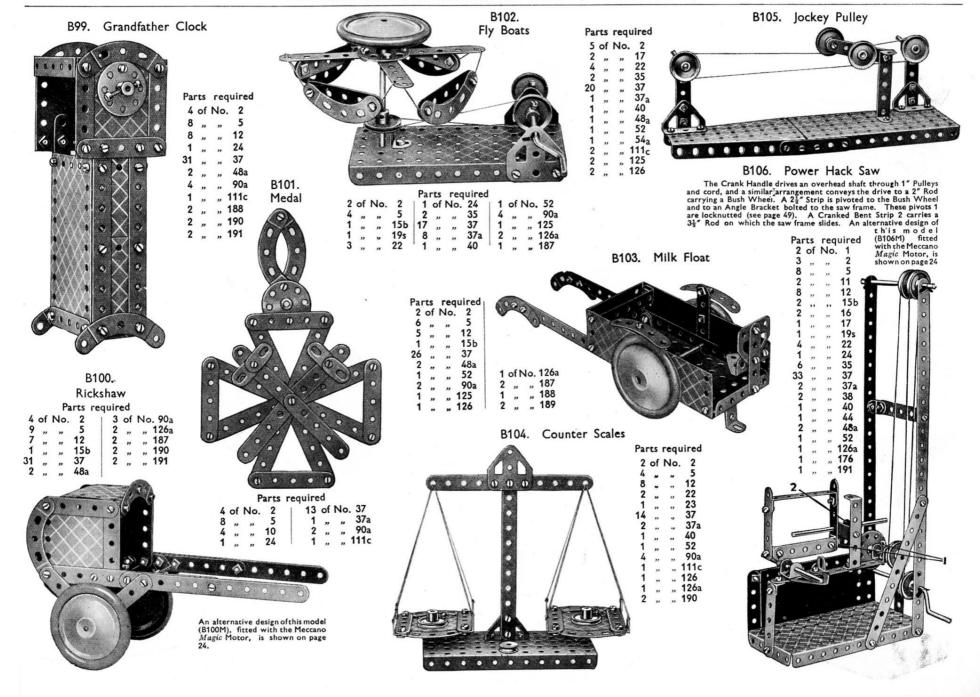
Pa	rts	req	uired	2	of	No.	16	2	of	No	. 37a	1	of	No	.125
2	of	No.	2	1	,,	"	17	1	**	**	52	2	,,,	,,	120
5	,,	,,	5	4	,,	,,	22	2	,,	,,	90a	2	,,	,,	126a
4	,,	,,	10	4	,,	,,,	35	2	,,	,,	111c	1	,,	,,	190
7	,,	,,	12	26	,,	,,,	37	1							
												- er	2200		

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

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







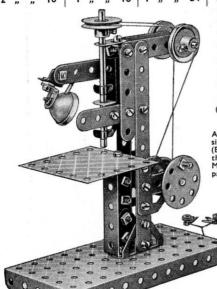
B107. Coffee Stall



Parts required 4 of No. 2 22 52 " 111c " 188 " 189 " 190 2 " " 191 Lighting Set (Not included in Outfit).

B108. Sensitive Drill Parts required

2	of	No.	2	2	of	No.	11	2	of	No.	17	3	of	No.	35
6	,,	,,	5	3	,,	"	12	4	,,	,,	22	28	,,	. ,,	37
2	,,	"	10	1	,,	,,	16	1	,,	,,	24	5	,,	,,	37
				'		T.						1	,,	,,	40
				5		415	3	-	2	1	-	. 1	,,	,,	482



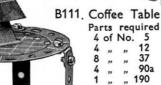
" 111c " 126 2 " "126a " 190 Lighting Set (Not included in

Outfit).

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



4	of	No.	2	1 of No. 40
2	,,	,,	10	2 " 48a
223241	,,	,,	11	1 " " 52
3	,,	,,	12	4 " " 90a
2	,,	,,	16	3 " " 111c
4	,,	,,	22	2 " " 126
1	,,	,,	23	2 " " 190
4	,,	,,	37	2 " " 191
6	,,	,,	37a	Lighting Set
	,,	.,		(Not included in in Outfit).



Lighting Set (Not included in Outfit).



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

B113.

Arc Lamp Parts required

2 of No. 1

2 " " 126

Lighting Set (Not included in Outfit).

MECCANO LIGHTING SET

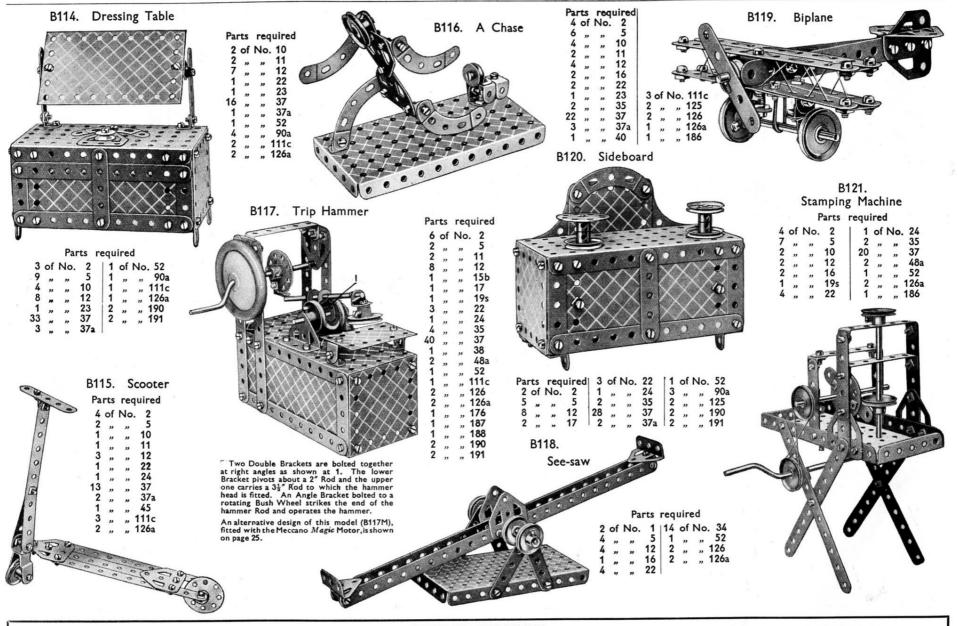
" 111c 126a

" 191

Outfit).

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





HOW TO CONTINUE

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

,, 111c ., 125 ., 126

,, 126a

The greatest thrill in Meccano model-building is experienced when a model is set to work by means of a Meccano Motor. The models featured on this and the opposite page are more elaborate variations of a selection of Outfit B Models, showing how the new Meccano Magic Motor can be fitted to give more realism and to increase the fun. The numbers of these re-designed models are the same as those of the corresponding models in the preceding pages, with the addition of the letter M. Try your hand at re-designing other models in a similar manner and become a real inventor. B108M. Sensitive Drill B100M. Rickshaw Fig. B108Ma The 3½" Rod 1 repre-B106M. senting the drill is journalled at the top in a $2\frac{1}{2}$ Power Hacksaw Strip and at the bottom in a The saw frame slides Flat Bracket. The Flat Bracket is secured to an on a 3½" Axle Rod held Angle Bracket held by the in a Cranked Bent Strip bolt 2. One of the two 1" and is driven to and fro Pulleys forming guides for Parts required by a 2½" Strip connected the cord is free on its Rod. 34 of No. 37 to a revolving Bush 37a 10 11 12 482 ** Wheel. The bolts 1 are provided with locknuts 15b 17 22 23 24 35 126a to form pivots. 187 190 ,, 191 Parts required 6 of No. Two $4\frac{1}{2}'' \times 2\frac{1}{2}''$ Flexible Plates are overlapped $\frac{1}{2}''$ to form the top and back of the rickshaw. They are fixed to Angle Brackets at the points 1. A 2½"×½" Double Angle Strip at 2 supports the floor and also the Magic Motor bolted as shown in Fig. B100Ma. 15b 17 22 23 35 37 B77M. Windmill Parts required The 1" Pulley on the inter-2 of No. mediate Rod drives a 1" Pulley on the Axle Rod carrying the 48a 52 54a "sails." (See Fig. B77Ma.) 16 19s 22 23 24 35 37 Fig. B108M 187 B94M. Miller's Cart Fig. B106M ., 191 Fig. B94Ma shows how the Magic Motor is arranged Magic Motor Parts required to drive the Road Wheels. A Bush Wheel is mounted Fig. B77M of No. 38 .. , 40 .. , 44 .. , 48a .. , 52 .. , 126 between the hind legs of the horse and the forelegs are kept off the ground by means of the reins. Parts required 1 of No. 188 of No. .. ,, 189 10 11 12 15b 17 22 23 24 35 37 37a 38 40 48a 52 ** " •• ••

Fig. B94Ma

Fig. B94M

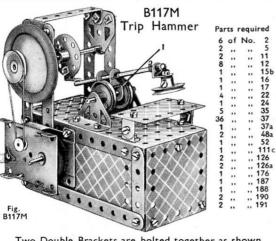
B32M. Pump

Parts required

B90M.

Windmill Pump

Outfit B Models fitted with the Magic Motor



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

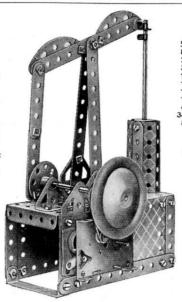
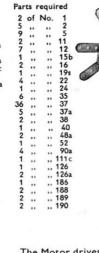


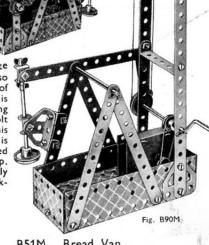
Fig. B32Ma The construction of the pump cylinder will be clear from Fig. B32Ma. The

Magic Motor drives a 1" that is fitted with a Bush Wheel forming the crank. to form pivots.



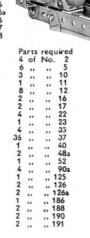
187

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



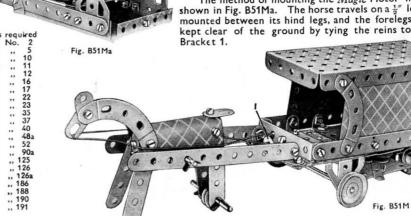
B51M. Bread Van

The method of mounting the Magic Motor in position is shown in Fig. B51Ma. The horse travels on a ½" loose Pulley mounted between its hind legs, and the forelegs should be kept clear of the ground by tying the reins to the Angle

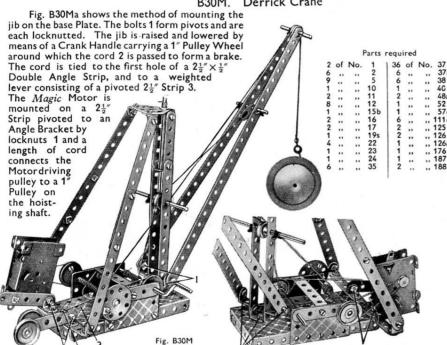


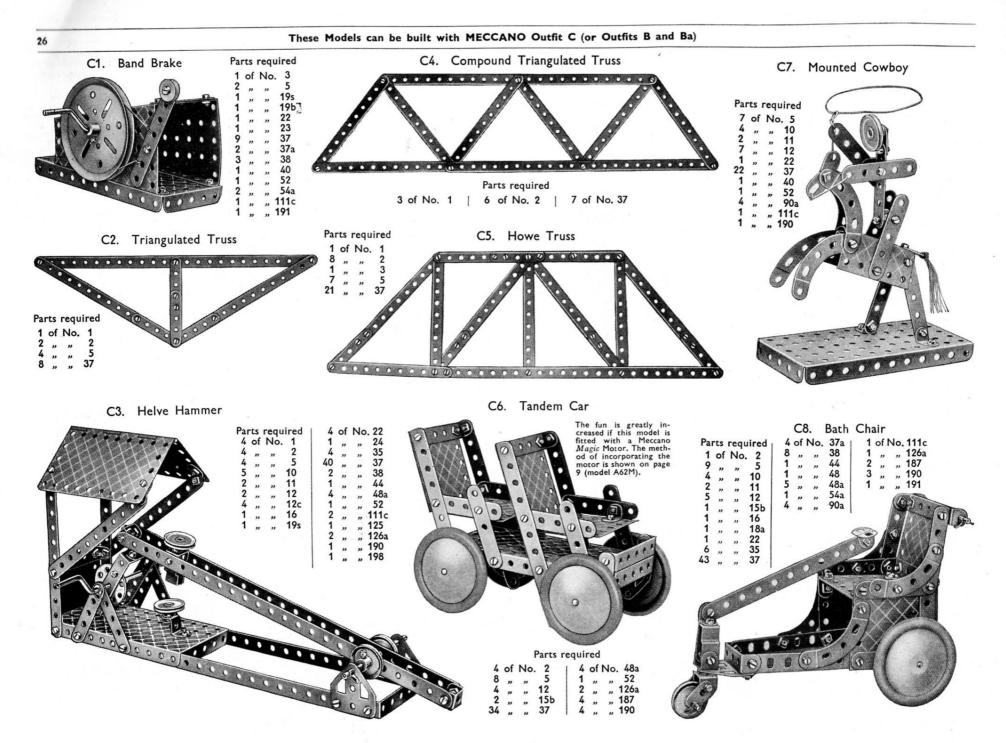
48a 52 57c

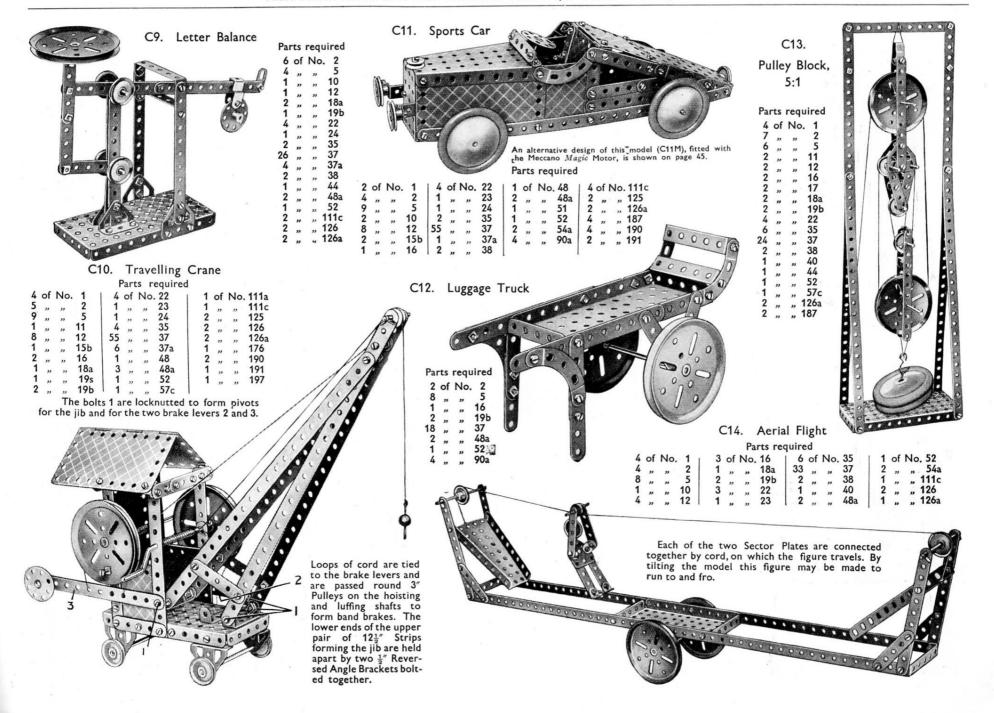








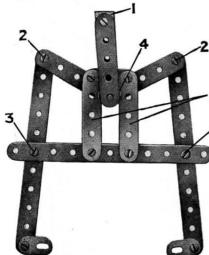




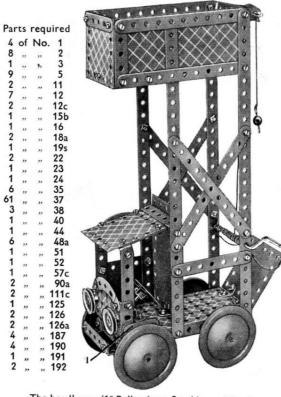
C15. Butter Churn



			Parts	requ	irec	i t	
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



C16. Tower Wagon



The headlamps (1" Pulleys) are fixed in position by means of $\frac{3}{6}$ " 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.

C18. Pneumatic Hammer

Par	ts	reat	uired	. 3	of 1	Na	190							1000	1	11 69
2	of	No.	. 1		01 1	40.								1	5969	Ŋ
8				2	**	"	191						-	200	1262	į
1	"	,,,	2 3 5	1	,,	**	198			-7			4	100	+	Į
	"	"	2	10			-	0 15					60	1	200	å
9	,,	"							CIS	-		3 (4	1	AD	ŝ
5	,,	"	10				9		Olle	0	20	1	<u>©</u>	,	0	ä
4	,,	,,	12					-	10	0		1	•		0	۹
3	,,	,,	12c						(O)	$\mathcal{L}\mathcal{N}$	<i>P</i> 5	1			-	
2	,,	"	15b				•		\sim	\mathcal{N}	0.	1	M		~ /	
1	,,	**	16						$\wedge \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$	\mathcal{N}	$\angle \angle$	1 (1	~	í
2	,,	,,	18a				-		\sim	1	7	1	100	1	1	ľ
1	,,	**	19s				10	00	30%		101	1	100	1	100	ä
1	,,	,,	19b				6		70	6	10	1	1			į
4			22						10/	-	10	11_		1	1.	į
1	,,	,,	23				4		0	Va.	- 10	A				å
1	"	"	24				0			100		1	0 13			å
6	"	"	35						0	[0]	-		This		10	å
52	,,	,,	37						00			1	//		9) .	ĕ
2	"	"	37a				0			20		0//		0	Canal Co	4
	"	"	40		-	4	10				(2)	10	1	10	0	9
1	"	,,			- (. 0		20	A.	015	10	
1	,,	"	44			1			0	29/	*	1 / V	•	0 42		
6	,,	,,	48a			E	,		1		11:		00			
1	,,	,,	51			A		0	7四篇	II		00	00			
1	,,	,,	52			M		0			00					
4	,,	"	90a				0	0 0	I O	00	0					ĕ
1	,,	,,	111c			4		- 101	0)					Mar	þ
1	,,	,,	125				10	7	0					,		
2	,,	,,	126a				-	A (O				- radion		/	1	
1	,,	,,	176								1	$\times_{\mathscr{I}}$		/	1	İ
		A 3"	Pulle	y WI	hee	l is	drive	en fro	m	6	$\langle \cdot, \cdot \rangle$. 0			1 6	Š

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 $2\frac{1}{2}$ " $\times 2\frac{1}{2}$ " 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.



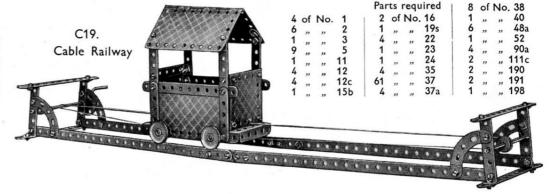


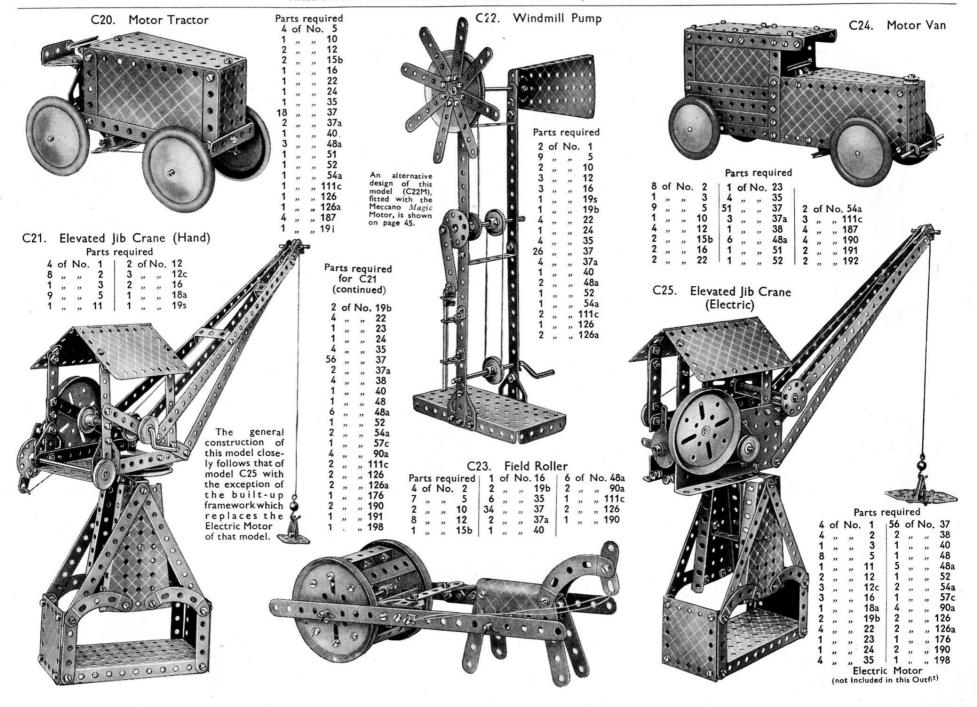
Friction Grip Tongs

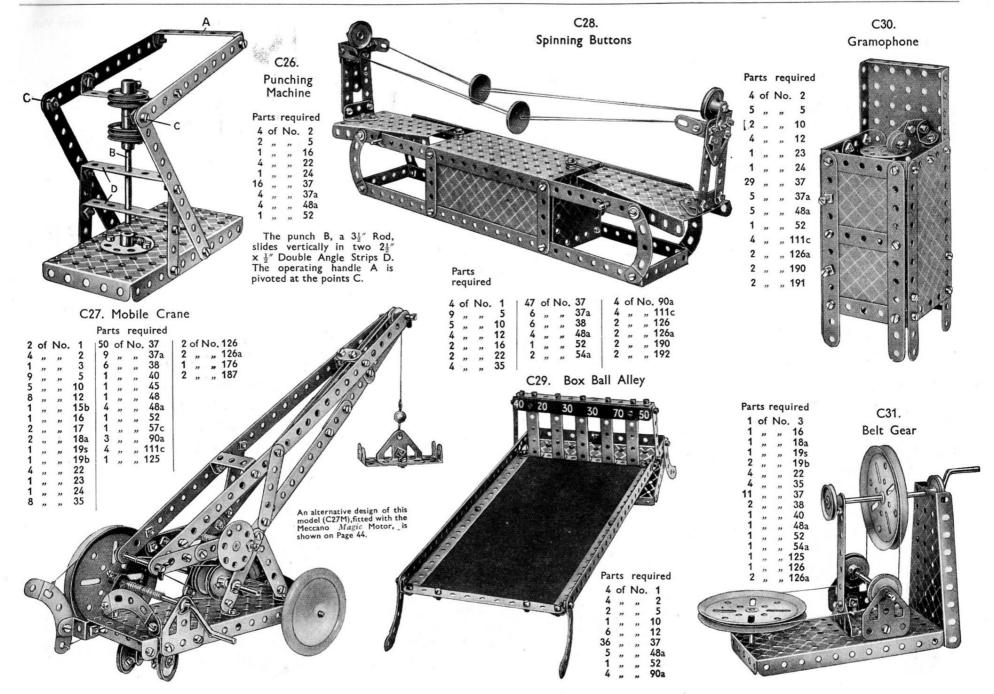
The hoisting cord is attached to the Double Bracket 1. The joints 2, 3 are locknutted, so that when the grip is raised the $\frac{1}{2}$ " loose Pulley Wheel 4 slides upward between the $2\frac{1}{2}$ " Strips 5, and the grip closes upon the block of wood or other material placed between its jaws.

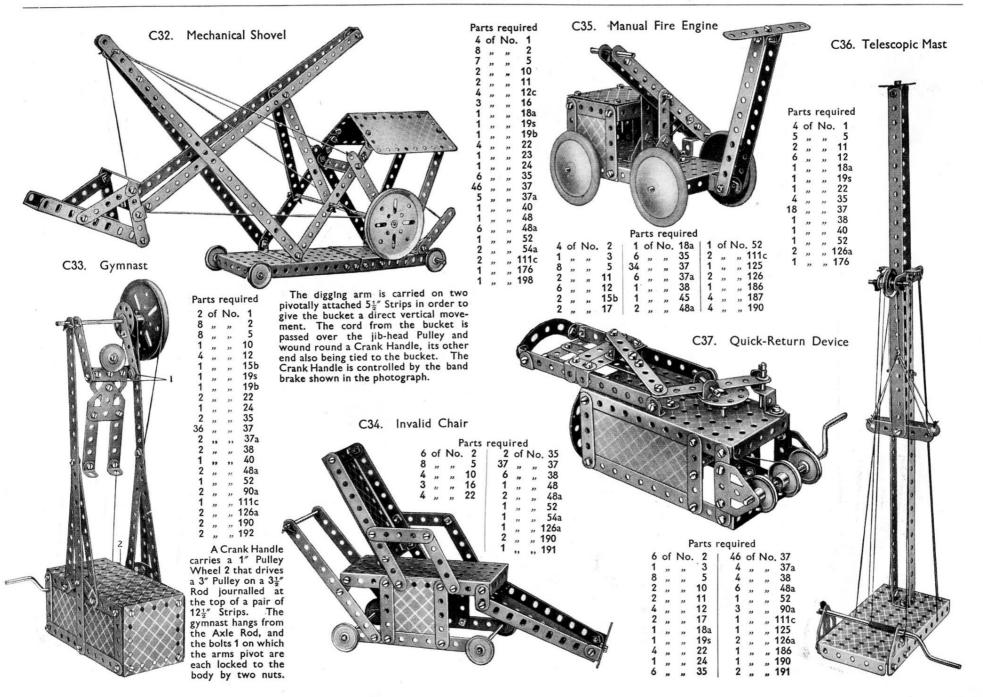
Parts required

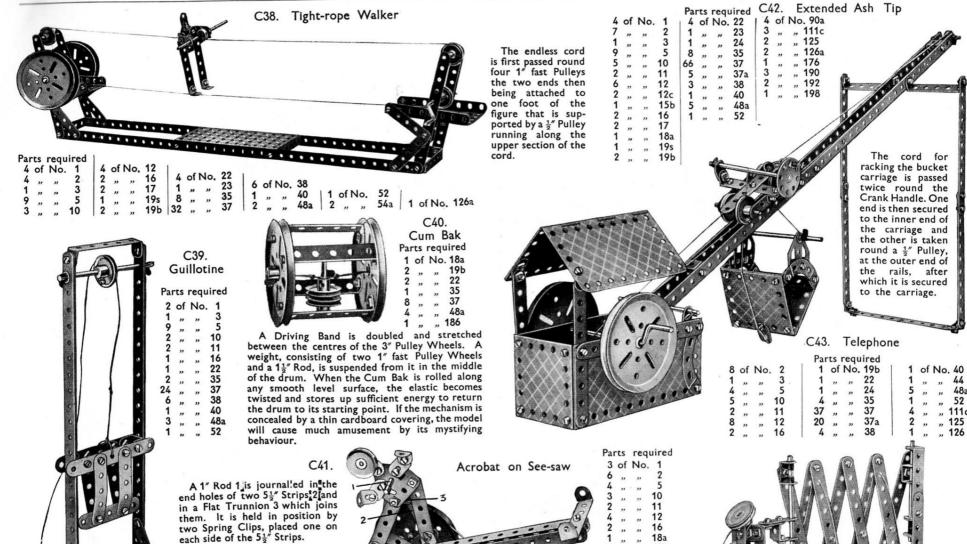
3	of	No.	2	1 1	of	No.	23
5	,,	,,	5	2	,,	,,	35
4	,,	,,	10	12	,,	,,	37
1	,,	,,	11	4	,,	,,	37
1	,,,	,,	18a	4			38



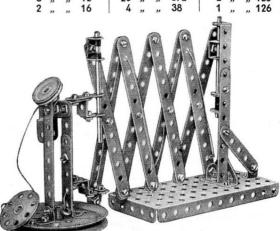


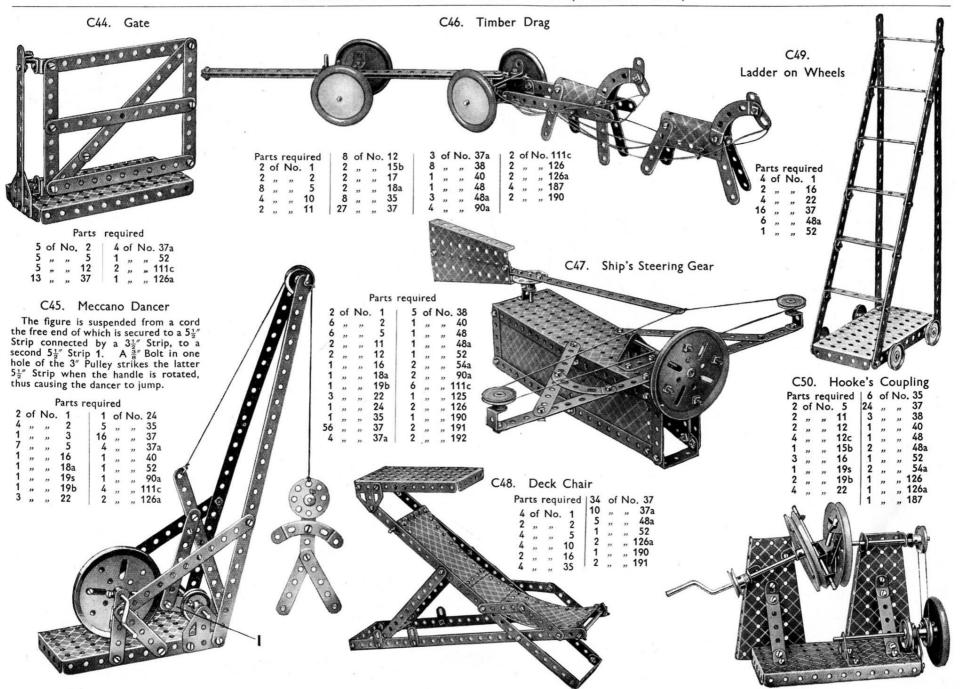


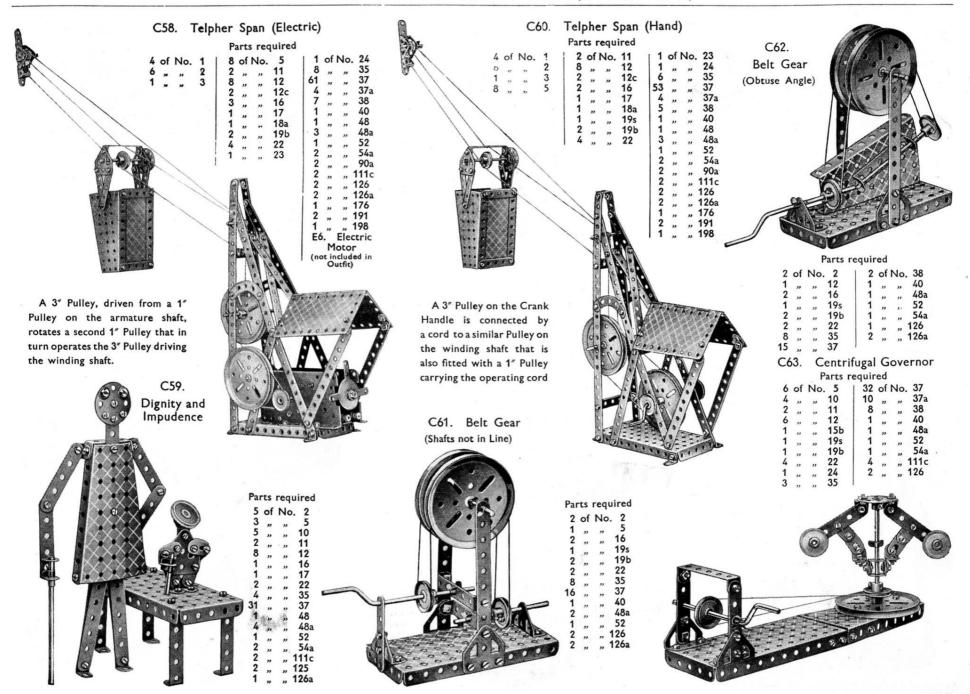


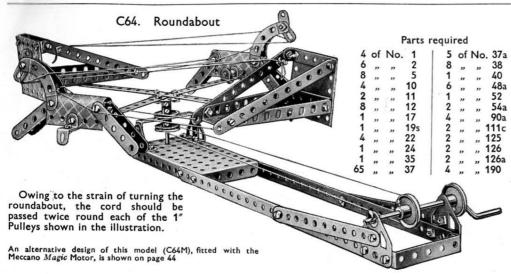


35 " 126a

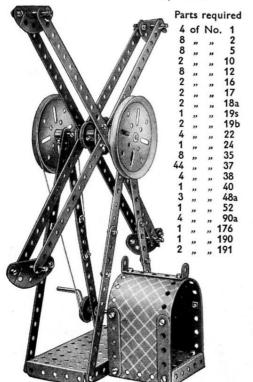








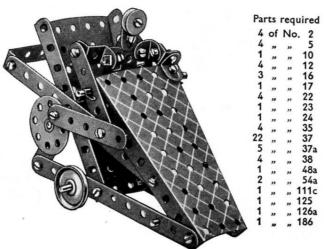
C65. Fly Boats

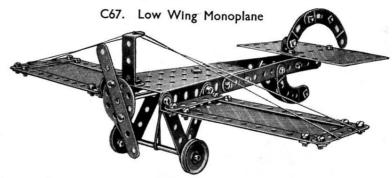


An alternative design of this model (C65M), fitted with the Meccano Magic Motor, is shown on page 45

C66. The Invalid

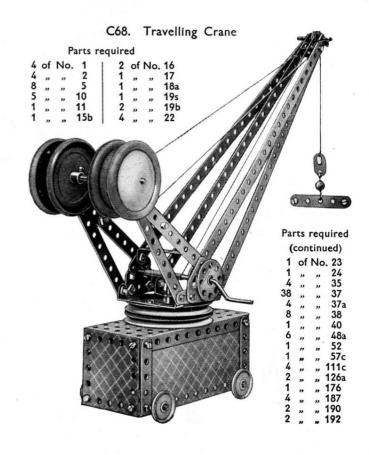
When wheeled along the table the "invalid" appears to push himself energetically along. His neck is a Flat Bracket: his right (or propelling) arm consists of one Angle Bracket and one $\frac{1}{2}$ " Reversed Angle Bracket, and his left arm—the hand of which is bolted loosely to the chair—is formed by 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 BushWheel and at the other end to a second $2\frac{1}{2}$ " Strip which, rocking about an axle journalled through its centre hole is again pivoted to the invalid's hands.





Parts required

6	of	No.	. 2	2	of	No.	16	2	of	No.	37a	4	of N	o. 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

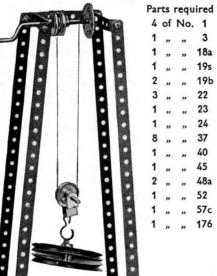


Parts required

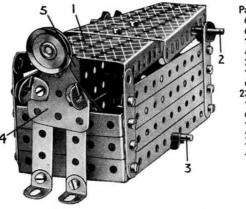
4 of No. 1

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

C69. Chinese Windlass



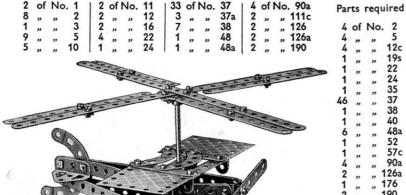
C71. Disappearing Meccanitian

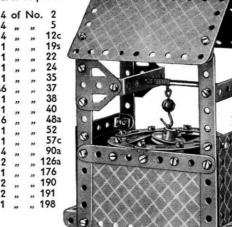


Parts required 6 of No. 2 12 16 22 35 37 45 48a " 111c " 126a Four short lengths of elastic

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.

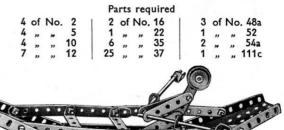
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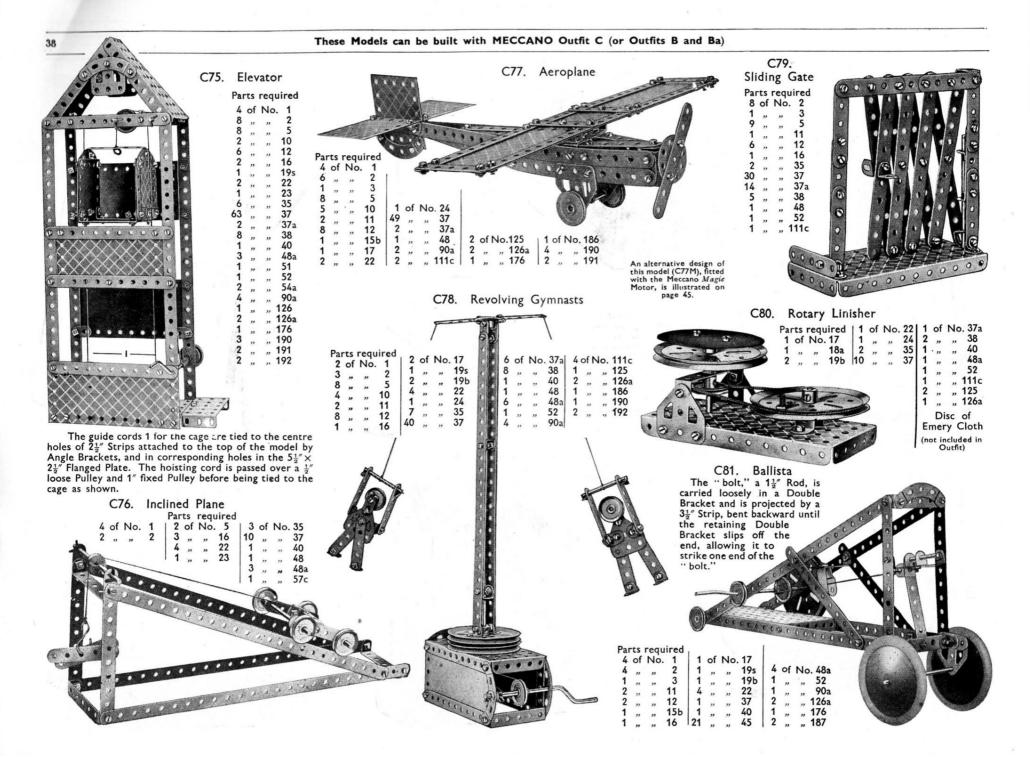


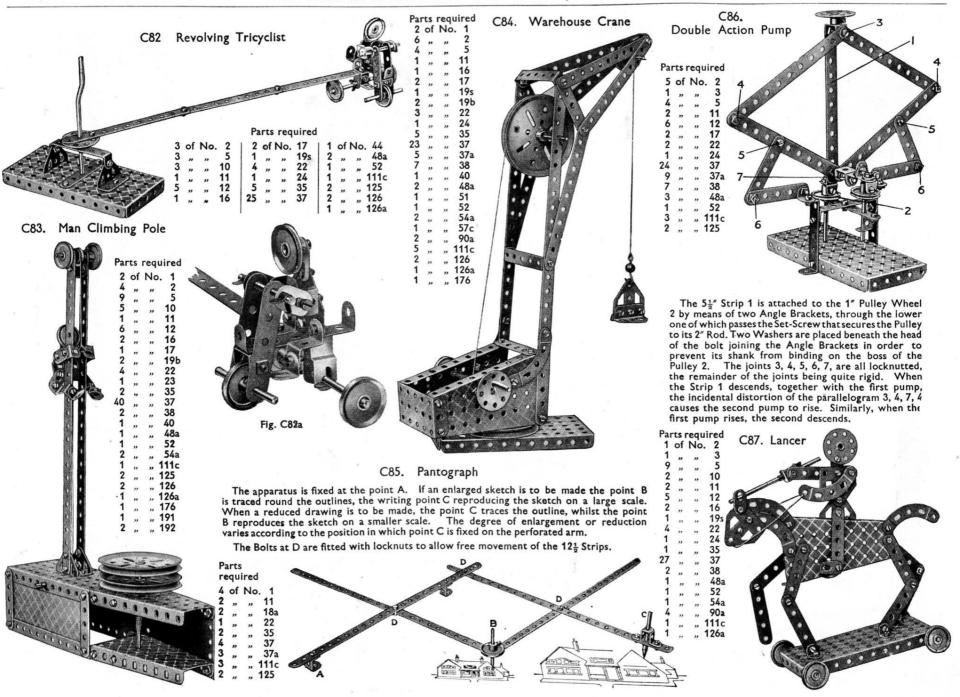


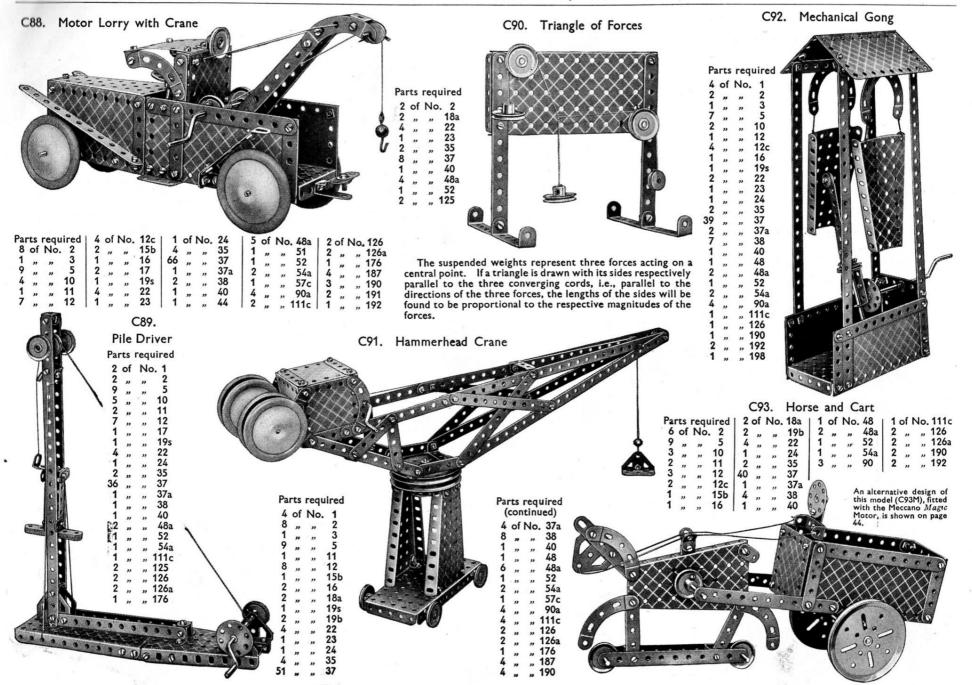
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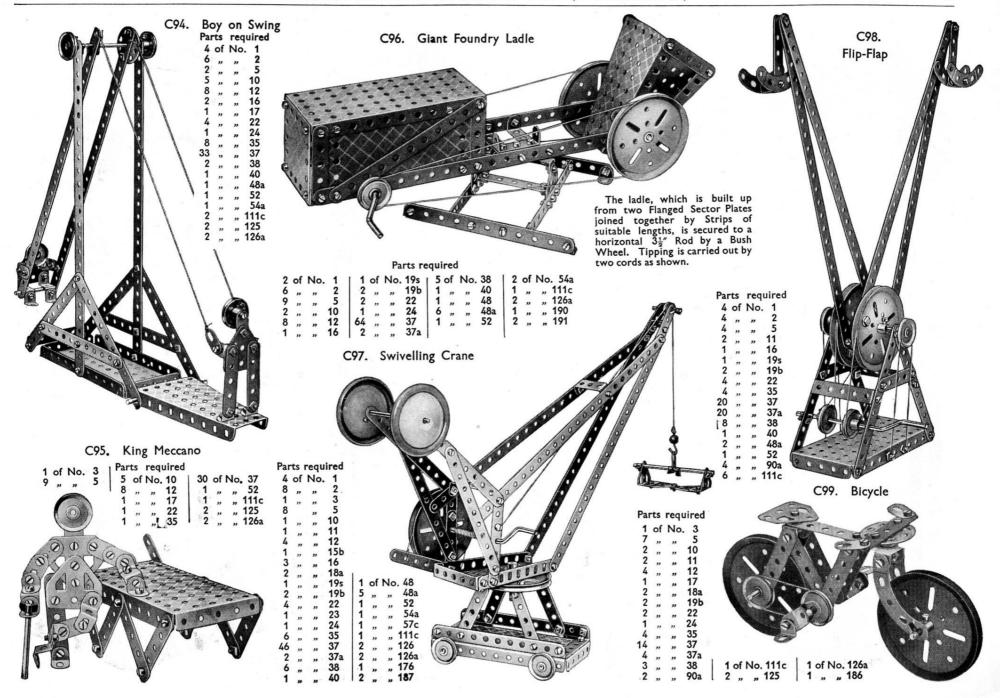


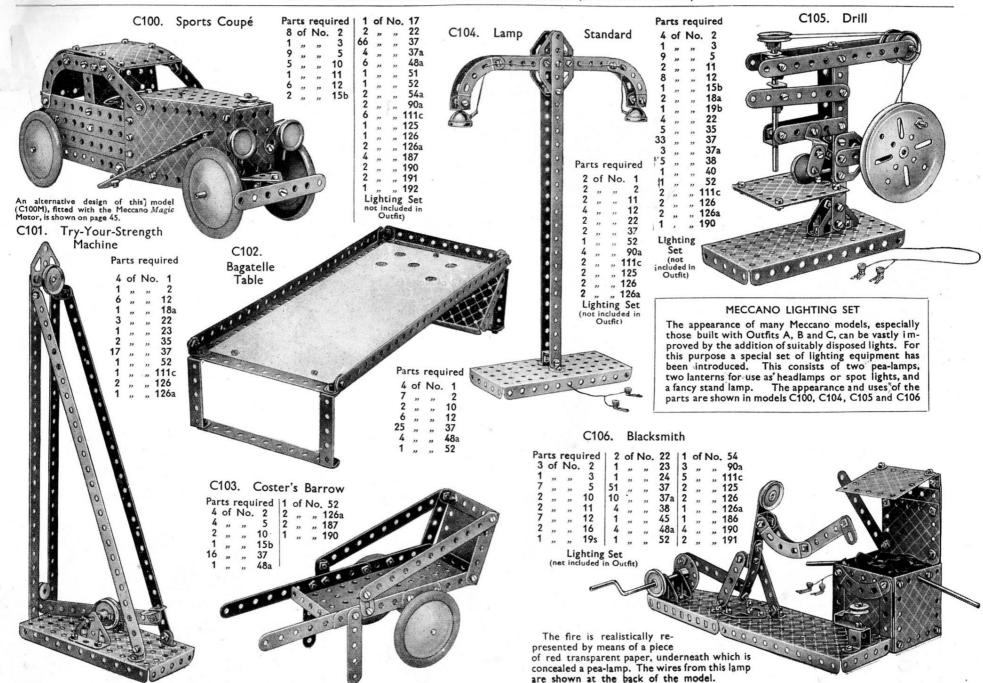


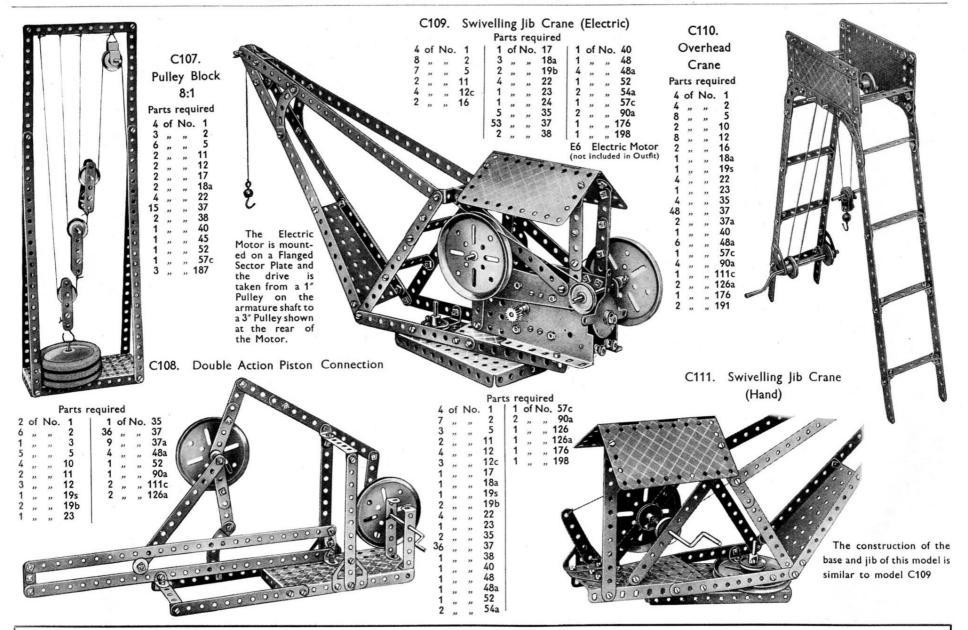












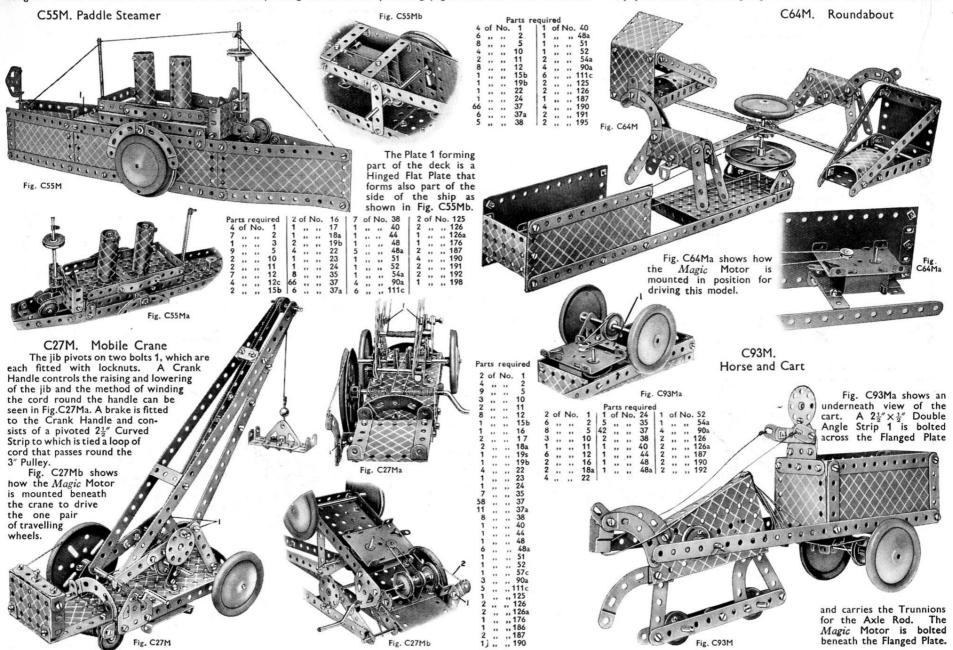
HOW TO CONTINUE

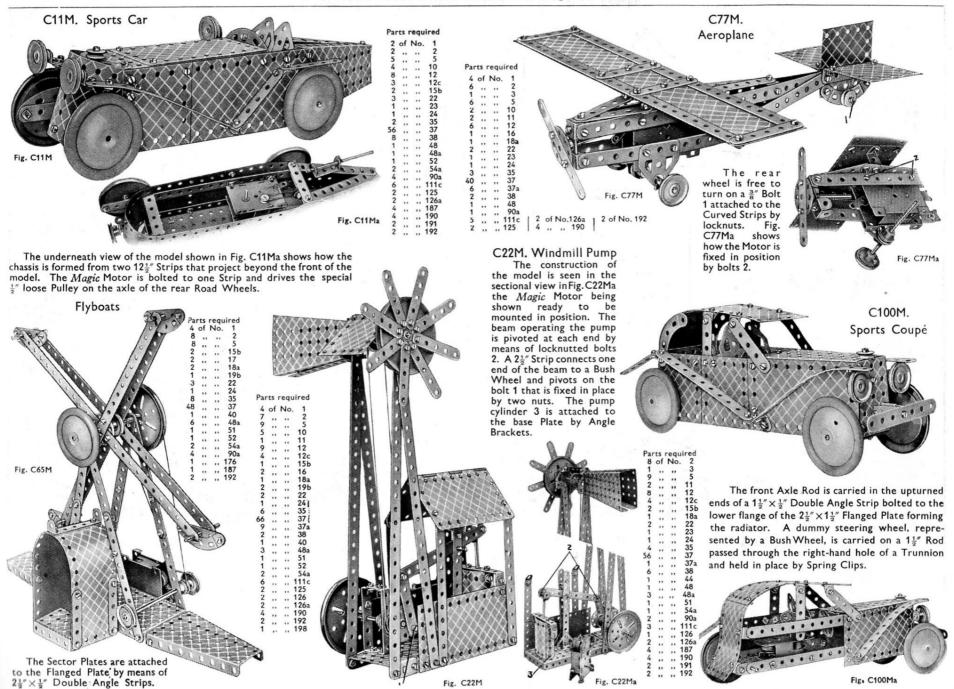
When you have built the C Outfit Models illustrated, and fitted a number of them with the Meccano Magic Motor (see two following pages), your next step is to purchase a Ca Accessory Outfit. This converts your C Outfit into a D and enables you to build bigger and better models.

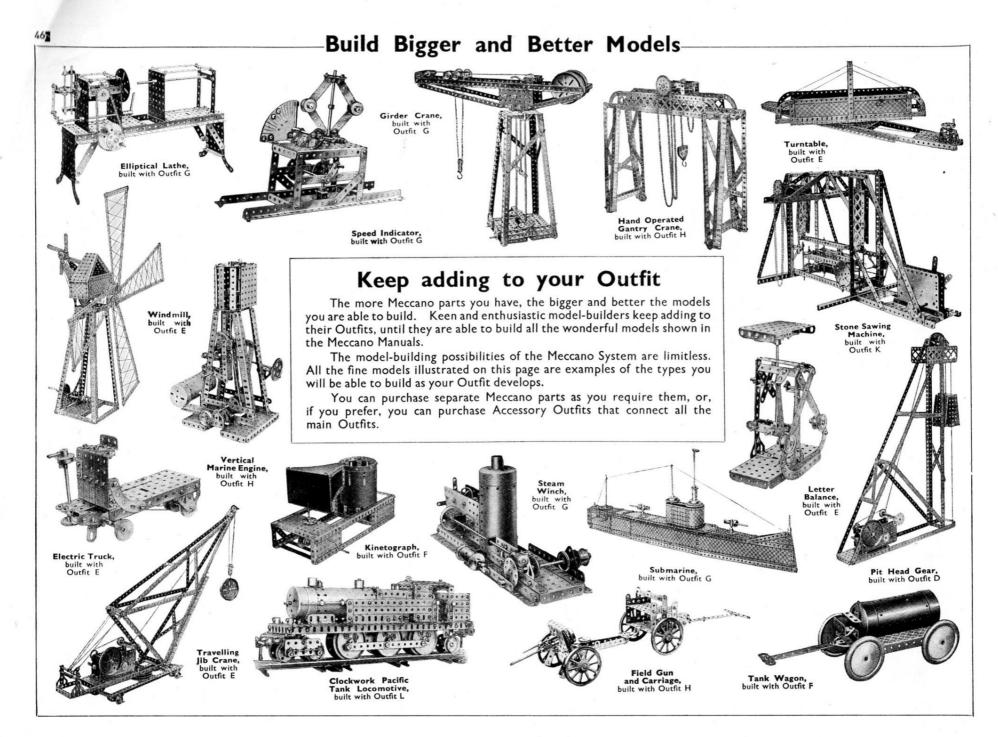
Outfit C Models fitted with Meccano Magic Motor

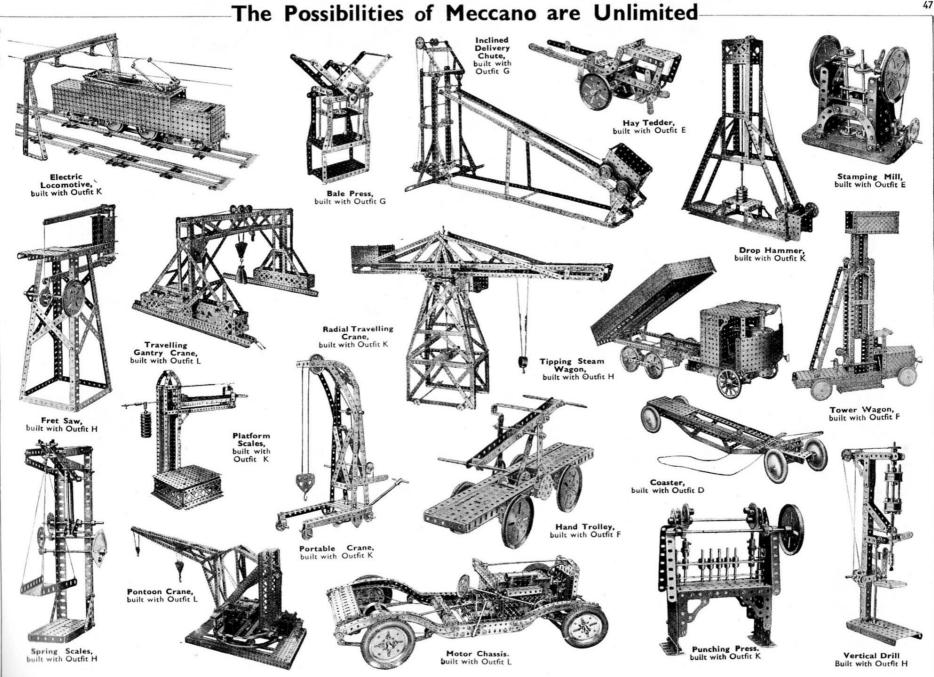
The greatest thrill in Meccano model-building is experienced when a model is set to work by means of a Meccano Motor. The models featured on this and the opposite page are more elaborate variations of a selection of Outfit B Models, showing how the new Meccano Magic Motor can be fitted to give more realism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

Try your hand at re-designing other models in a similar manner









MECCANO

POWER UNITS FOR OPERATING MECCANO MODELS

operate your models by means of one of the Meccano power units described commences to work in exactly the same manner as its prototype in real life. on this page. You push over the control lever of the clockwork or electric

If you want to obtain the fullest enjoyment from the Meccano hobby you should motor and immediately your Crane, Motor Car, Ship Coaler or Windmill Each motor is pierced with the standard Meccano equidistant holes.

Meccano Clockwork Motors are especially suitable for small models built with a

limited range of parts. They are extremely simple to operate and have the

MECCANO CLOCKWORK MOTORS

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



No. I Clockwork Motor

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



EI Electric Motor (6-volt)

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



No. T20a Transformer



No. la Clockwork Motor

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

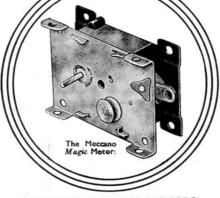


E6 Electric Motor (6-volt)

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

No. T20A TRANSFORMER (Output 35 VA at 20/3 volts) for 20-volt Electric Motors. Has two separate circuits at 20 volts, one controlled by a 5-stud speed regulator; and a third circuit at $3\frac{1}{2}$ volts for lighting up to 14 lamps.

No. T6A TRANSFORMER (Output 40 VA at 9/31 volts) for 6-volt Electric Motors. Has two separate circuits at 9 volts, one controlled by a 5-stud speed regulator; and a third circuit at 31 volts for lighting up to 18 lamps.



MECCANO ELECTRIC MOTORS

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

MECCANO TRANSFORMERS

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

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

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

The Meccano Magic Motor

advantage of being self-contained.

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



No. 2 Clockwork Motor

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



No. El20 Electric Motor (20-volt)

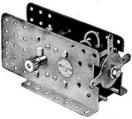
The E120 Electric Motor is a very reliable and smooth-running power unit. It is operated through a Meccano 20-volt Transformer from alternating current supply mains. Non-reversing.

Resistance Controllers

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

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

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



No. E20b Electric Motor (20-volt)

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



No. T20 Transformer



MECCANO STANDARD MECHANISMS



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

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

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

LOCKNUTS.

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

CORD TRANSMISSION

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

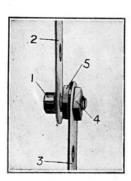
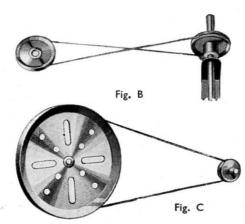


Fig. A



BAND BRAKE

A simple method of slowing down or stopping a shaft is shown in Fig. D. A Strip 1 is secured by means of a locknutted Bolt (see Fig. A) to the framework of a model. A short length of cord attached to this Strip passes round a 1" fast Pulley 3 secured on the shaft 4. By depressing or adding weight to the end of the lever 1 the cord is pressed into the groove of the Pulley 3, and by regulating the weight or pressure the speed of the shaft can be very finely adjusted.

STEERING MECHANISM

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

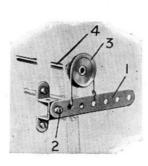


Fig. D

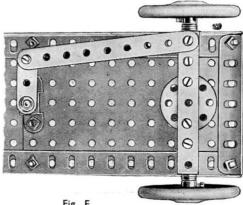


Fig. E

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

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CIAL INSTRUCTION LEAFLETS

	SPECIAL INSTRUCTION LEAFLETS	TS
No. 1a-Motor Chassis	No. 14a-New Grandfather Clock	No. 25-H
2-High-speed Ship-Coaler	16a-New Loom	., 26—Twin-
5-Dredger	17-Planing Machine	., 28-Po
6-Stiff Leg Derrick	., 18-Revolving Crane	., 29—Ha
7—Platform Scales	19-Steam Shovel	30—Br
9-Bagatelle Table	., 20-Electric Mobile Crane	., 31–W
10-Log Saw	" 21-Transporter Bridge	., 35—Au
11a-Horizontal Engine	., 22—Traction Engine	, 36—Ele
12-Stone-sawing Machine	23-Vertical Log Saw	., 37—Ho
., 13-Meccanograph	., 24-Travelling Gantry Crane	
	,	

Outfits Ha and K contain Special Instruction Leaflets Nos. 7, 9, 10, 11a, 12 and 37.

Outfit Ka contains Special Instruction Leaflets Nos. 1a, 2, 5, 6, 13, 14a, 16a, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 28, 29, 30, 31, 35 and 36.

Outfit L contains a copy of each of the 29 Special Instruction Leaflets listed above.

LIST OF MODELS ILLUSTRATED IN THIS MANUAL

				C/4
Acrobat on Seesaw Aerial Flight Aeroplane American Shaddle Anchor	***	::: :::		C41 C14 C77 ; C77M
Aerial Flight			* + +	C14
Aeroplane				C77; C77M B40 A12 A26 B113 A48; B31 B63 C70 B67
American Shaddle				B40
Anchor		***		A12
Anti Airereft Com		****	***	A 24
Anti-Aircraft Gun				AZO
Arc Lamp				B113
Arm Chair				A48; B31
Ash Cart				B63
Autorino	•••			C70
Autogiro				0/0
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Bagatelle Table				C102
Baggara Cant				A88
Baggage Cart		***		A00
Baggage Truck				A70
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Baggage Truck Ballista Band Brake Band Saw Banjo Barrow Bath Chair				C1
Band Saw				A63
Kanio		***		B33
Banjo		***		4.05
Barrow				A35
Bath Chair				A24; C8
Bath with Shower				A24 ; C8 B29 A31
Battle-axe				A31
Battleship		7.00		A25 - R28
Bod	• • •			A25 ; B28 A75
Ded T.11		***		A/3
Bed Table				A5
Belt Gear			C31	; C61 ; C62
Bench				A65 B43
Bench Lathe				B43
Bisusta				C99
Bicycle	***			
Biplane				B119
Blacksmith				A80; C106
Bogie Truck				A6
Bow and Arrow				A80 ; C106 A6 B37 C29
Box Ball Alley				C20
East Dall Alley				027
boxer				880
Boy on Swing				C94
Bread Van				B51; B51M
Breakdown Crane				A96 : B98
Brewer's Dray				B69
Bucking Broncho			***	B11
Buffors				A 94
Bulleds			***	MOI
Bullock Cart				Bo
D CI				
Butter Churn				C15
Butter Churn				C15
Band Saw Banjo Barrow Bath Chair Bath with Shower Battle-axe Battleship Bed Table Bed Table Bench Lathe Bicycle Biplane Biplane Biplane Bow and Arrow Box Ball Alley Boxer Boy on Swing Bread Van Breakdown Crane Brewer's Dray Bucking Broncho Buffers Bullock Cart Butter Churn		•••		B37 C29 B80 C94 B51; B51M A96; B98 B69 B11 A81 B5 C15
				C19 A90 B76
				C19 A90 B76
Cable Railway Calf Caravan Cart Card Table Catapult				C19 A90 B76
Cable Railway Calf Caravan Cart Card Table Catapult				C19 A90 B76
Cable Railway Calf Caravan Cart Card Table Catapult				C19 A90 B76
Cable Railway Calf Caravan Cart Card Table Catapult Cattle Truck Centrifugal Engine (Gove			C19 A90 B76
Cable Railway Calf Caravan Cart Card Table Catapult Cattle Truck Centrifugal Engine (Gove	 rnor		C19 A90 B76 A64; C51 B20 A56; B12 B15; B72 A22 C63
Cable Railway Calf Caravan Cart Card Table Catapult Cattle Truck Centrifugal Engine (Centrifugal Governo Chaff Cutter	 Gove	 rnor		C19 A90 B76 A64; C51 B20 A56; B12 B15; B72 A22 C63
Cable Railway Calf Caravan Cart Card Table Catapult Cattle Truck Centrifugal Engine (Centrifugal Governo Chaff Cutter	 Gove	 rnor		C19 A90 B76 A64; C51 B20 A56; B12 B15; B72 A22 C63
Cable Railway Calf Caravan Cart Card Table Catapult Cattle Truck Centrifugal Engine (Centrifugal Governo Chaff Cutter	 Gove	 rnor		C19 A90 B76 A64; C51 B20 A56; B12 B15; B72 A22 C63
Cable Railway Calf Caravan Cart Card Table Catapult Cattle Truck Centrifugal Engine (Centrifugal Governo Chaff Cutter	 Gove	 rnor		C19 A90 B76 A64; C51 B20 A56; B12 B15; B72 A22 C63
Cable Railway Calf Caravan Cart Card Table Catapult Cattle Truck Centrifugal Engine (Centrifugal Governo Chaff Cutter	 Gove	 rnor		C19 A90 B76 A64; C51 B20 A56; B12 B15; B72 A22 C63 B42 A34; B70 B116 B84
Cable Railway Calf Caravan Cart Card Table Catapult Cattle Truck Centrifugal Engine (Centrifugal Governo Chaff Cutter	 Gove	 rnor		C19 A90 B76 A64; C51 B20 A56; B12 B15; B72 A22 C63 B42 A34; B70 B116 B84
Cable Railway Calf Caravan Cart Card Table Catapult Cattle Truck Centrifugal Engine (Centrifugal Governo Chaff Cutter	 Gove	 rnor		C19 A90 B76 A64; C51 B20 A56; B12 B15; B72 A22 C63 B42 A34; B70 B116 B84
Cable Railway Calf Caravan Cart Card Table Catapult Cattle Truck Centrifugal Engine (Centrifugal Governo Chaff Cutter	 Gove	 rnor		C19 A90 B76 A64; C51 B20 A56; B12 B15; B72 A22 C63 B42 A34; B70 B116 B84
Cable Railway Calf Caravan Cart Card Table Catapult Cattle Truck Centrifugal Engine (Centrifugal Governo Chaff Cutter	 Gove	 rnor		C19 A90 B76 A64; C51 B20 A56; B12 B15; B72 A22 C63 B42 A34; B70 B116 B84
Cable Railway Calf Caravan Cart Card Table Catapult Cattle Truck Centrifugal Engine (Centrifugal Governo Chaff Cutter	 Gove	 rnor		C19 A90 B76 A64; C51 B20 A56; B12 B15; B72 A22 C63 B42 A34; B70 B116 B84
Cable Railway Calf Caravan Card Table Catapult Cattle Truck Centrifugal Engine (Centrifugal Governo Chaff Cutter Chair Chase Chesterfield Chair Chinese Windlass Clock Coaster Coffee Stall Coffee Table Collapsible Table	Gove	rnor		C19 A90 B76 B76 A64: C51 B20 A56: B12 B15: B72 A22 C63 B42 A34: B70 B116 B84 C69 B79 B23 B107 A85: B111
Cable Railway Calf Caravan Card Table Catapult Cattle Truck Centrifugal Engine (Centrifugal Governo Chaff Cutter Chair Chase Chesterfield Chair Chinese Windlass Clock Coaster Coffee Stall Coffee Table Collapsible Table	Gove	rnor		C19 A90 B76 B76 A64: C51 B20 A56: B12 B15: B72 A22 C63 B42 A34: B70 B116 B84 C69 B79 B23 B107 A85: B111
Cable Railway Calf Caravan Card Table Catapult Cattle Truck Centrifugal Engine (Centrifugal Governo Chaff Cutter Chair Chase Chesterfield Chair Chinese Windlass Clock Coaster Coffee Stall Coffee Table Collapsible Table	Gove	rnor		C19 A90 B76 B76 A64: C51 B20 A56: B12 B15: B72 A22 C63 B42 A34: B70 B116 B84 C69 B79 B23 B107 A85: B111
Cable Railway Calf Caravan Card Table Catapult Cattle Truck Centrifugal Engine (Centrifugal Governo Chaff Cutter Chair Chase Chesterfield Chair Chinese Windlass Clock Coaster Coffee Stall Coffee Table Collapsible Table	Gove	rnor		C19 A90 B76 B76 A64: C51 B20 A56: B12 B15: B72 A22 C63 B42 A34: B70 B116 B84 C69 B79 B23 B107 A85: B111
Cable Railway Calf Caravan Card Table Catapult Cattle Truck Centrifugal Engine (Centrifugal Governo Chaff Cutter Chair Chase Chesterfield Chair Chinese Windlass Clock Coaster Coffee Stall Coffee Table Collapsible Table	Gove	rnor		C19 A90 B76 B76 A64: C51 B20 A56: B12 B15: B72 A22 C63 B42 A34: B70 B116 B84 C69 B79 B23 B107 A85: B111
Cable Railway Calf Caravan Card Table Catapult Cattle Truck Centrifugal Engine (Centrifugal Governo Chaff Cutter Chair Chase Chesterfield Chair Chinese Windlass Clock Coaster Coffee Stall Coffee Table Collapsible Table	Gove	rnor		C19 A90 B76 B76 A64: C51 B20 A56: B12 B15: B72 A22 C63 B42 A34: B70 B116 B84 C69 B79 B23 B107 A85: B111
Cable Railway Calf Caravan Card Table Catapult Cattle Truck Centrifugal Engine (Centrifugal Governo Chaff Cutter Chair Chase Chesterfield Chair Chinese Windlass Clock Coaster Coffee Stall Coffee Table Collapsible Table	Gove	rnor		C19 A90 B76 B76 A64: C51 B20 A56: B12 B15: B72 A22 C63 B42 A34: B70 B116 B84 C69 B79 B23 B107 A85: B111
Cable Railway Calf Caravan Card Table Catapult Cattle Truck Centrifugal Engine (Centrifugal Governo Chaff Cutter Chair Chase Chesterfield Chair Chinese Windlass Clock Coaster Coffee Stall Coffee Table Collapsible Table	Gove	rnor		C19 A90 B76 B76 A64: C51 B20 A56: B12 B15: B72 A22 C63 B42 A34: B70 B116 B84 C69 B79 B23 B107 A85: B111
Cable Railway Calf Caravan Card Table Catapult Cattle Truck Centrifugal Engine (Centrifugal Governo Chaff Cutter Chair Chase Chesterfield Chair Chinese Windlass Clock Coaster Coffee Stall Coffee Table Collapsible Table	Gove	rnor		C19 A90 B87 A64; C51 B20 A56; B12 B15; B72 A22 C63 B42 C63 B44 C69 B116 B84 C69 B23 B107 A85; B111 A8 C4 A87; B39 A20; B55 B13; C103 A73; B104 B8
Cable Railway Calf Caravan Card Table Catapult Cattle Truck Centrifugal Engine (Centrifugal Governo Chaff Cutter Chair Chase Chesterfield Chair Chinese Windlass Clock Coaster Coffee Stall Coffee Table Collapsible Table	Gove	rnor		C19 A90 B87 A64; C51 B20 A56; B12 B15; B72 A22 C63 B42 C63 B44 C69 B116 B84 C69 B23 B107 A85; B111 A8 C4 A87; B39 A20; B55 B13; C103 A73; B104 B8
Cable Railway Calf Caravan Card Table Catapult Cattle Truck Centrifugal Engine (Centrifugal Governo Chaff Cutter Chair Chase Chesterfield Chair Chinese Windlass Clock Coaster Coffee Stall Coffee Table Collapsible Table	Gove	rnor		C19 A90 B87 A64; C51 B20 A56; B12 B15; B72 A22 C63 B42 C63 B44 C69 B116 B84 C69 B23 B107 A85; B111 A8 C4 A87; B39 A20; B55 B13; C103 A73; B104 B8
Cable Railway Calf Caravan Card Table Catapult Cattle Truck Centrifugal Engine (Centrifugal Governo Chaff Cutter Chair Chase Chesterfield Chair Chinese Windlass Clock Coaster Coffee Stall Coffee Table Collapsible Table	Gove	rnor		C19 A90 B87 A64; C51 B20 A56; B12 B15; B72 A22 C63 B42 C63 B44 C69 B116 B84 C69 B23 B107 A85; B111 A8 C4 A87; B39 A20; B55 B13; C103 A73; B104 B8
Cable Railway Calf Caravan Card Table Catapult Cattle Truck Centrifugal Engine (Centrifugal Governo Chaff Cutter Chair Chase Chesterfield Chair Chinese Windlass Clock Coaster Coffee Stall Coffee Table Collapsible Table	Gove	rnor		C19 A90 B87 A64; C51 B20 A56; B12 B15; B72 A22 C63 B42 C63 B44 C69 B116 B84 C69 B23 B107 A85; B111 A8 C4 A87; B39 A20; B55 B13; C103 A73; B104 B8
Cable Railway Calf Caravan Card Table Catapult Cattle Truck Centrifugal Engine (Centrifugal Governo Chaff Cutter Chair Chase Chesterfield Chair Chinese Windlass Clock Coaster Coffee Stall Coffee Table Collapsible Table	Gove	rnor		C19 A90 B87 A64; C51 B20 A56; B12 B15; B72 A22 C63 B42 C63 B44 C69 B116 B84 C69 B23 B107 A85; B111 A8 C4 A87; B39 A20; B55 B13; C103 A73; B104 B8
Cable Railway Calf Caravan Card Table Catapult Cattle Truck Centrifugal Engine (Centrifugal Governo Chaff Cutter Chair Chase Chesterfield Chair Chinese Windlass Clock Coaster Coffee Stall Coffee Table Collapsible Table	Gove	rnor		C19 A90 B76 A64; C51 B20 A56: B12 B15: B72 A22 C63 B42 C63 B44: B70 B116 B84 B64 B69 B79 B79 B23 B107 A85; B111 A8 C4 A87; B39 A20: B55 B13; C103 A73; B104 B8 B98 B00: B30M C91 C25
Cable Railway Calf Caravan Card Table Catapult Centrifugal Engine (Centrifugal Governo Chaff Cutter Chair Chase Chesterfield Chair Chinese Windlass Clock Coster Coffee Stall Coffee Table Collapsible Table	Gove	rnor		C19 A90 B76 A64; C51 B20 A56: B12 B15: B72 A22 C63 B42 C63 B44: B70 B116 B84 B64 B69 B79 B79 B23 B107 A85; B111 A8 C4 A87; B39 A20: B55 B13; C103 A73; B104 B8 B98 B00: B30M C91 C25
Cable Railway Calf Caravan Card Table Catapult Centrifugal Engine (Centrifugal Governo Chaff Cutter Chair Chase Chesterfield Chair Chinese Windlass Clock Coster Coffee Stall Coffee Table Collapsible Table	Gove	rnor		C19 A90 B76 A64; C51 B20 A56: B12 B15: B72 A22 C63 B42 C63 B44: B70 B116 B84 B64 B69 B79 B79 B23 B107 A85; B111 A8 C4 A87; B39 A20: B55 B13; C103 A73; B104 B8 B98 B00: B30M C91 C25
Cable Railway Calf Caravan Card Table Catapult Centrifugal Engine (Centrifugal Governo Chaff Cutter Chair Chase Chesterfield Chair Chinese Windlass Clock Coster Coffee Stall Coffee Table Collapsible Table	Gove	rnor		C19 A90 B76 A64; C51 B20 A56: B12 B15: B72 A22 C63 B42 C63 B44: B70 B116 B84 B64 B69 B79 B79 B23 B107 A85; B111 A8 C4 A87; B39 A20: B55 B13; C103 A73; B104 B8 B98 B00: B30M C91 C25
Cable Railway Calf Caravan Card Table Catapult Centrifugal Engine (Centrifugal Governo Chaff Cutter Chair Chase Chesterfield Chair Chinese Windlass Clock Coster Coffee Stall Coffee Table Collapsible Table	Gove	rnor		C19 A90 B76 A64; C51 B20 A56; B12 B15; B72 A22 C63 B42 C63 B44 C69 B79 B23 B107 A85; B111 A86 C4 A87; B39 A20; B55 B13; C103 A73; B104 B8 B98 B00; B30M C25 C21 C21 C23 C27; C27M C110 A37
Cable Railway Calf Caravan Cart Card Table Catapult Cattle Truck Centrifugal Engine (Centrifugal Governo Chaff Cutter	Gove	rnor		C19 A90 B76 A64; C51 B20 A56: B12 B15: B72 A22 C63 B42 C63 B44: B70 B116 B84 B64 B69 B79 B79 B23 B107 A85; B111 A8 C4 A87; B39 A20: B55 B13; C103 A73; B104 B8 B98 B00: B30M C91 C25

T OF M	O D	EL	. S	ILL	U S
Crane, Swivelling Crane, Swivelling Crane, Travelling Crane, Warehouse Cruiser Cum Bak	Jib (H	and)		C111	
Crane, Swivelling	Jib (El	ectric)		C109	
Crane, Warehouse				C84	
Cruiser				A53	
Cum Bak				C40	
Deck Chair Dentist Chair Derrick Crane Devil Wall Dignity and Imput Dinner Wagon Disappearing Mecc Dog Double Action Pis Double Action Pis Double Action Pis Drill Drill Drill Drill Dressing Table Dressing Table Dump Car Easel and Board					
Deck Chair				A68; C48	
Dentist Chair				B109	1
Devil Wall			6	A46	•
Dignity and Impur	dence			C59	
Dinner Wagon		***	* * *	A91	
Dog	.aiiiciaii			A9	
Double Action Pis	ton Co	onnect	ion	C108	
Double Action Pu	mp			C86	
Drill				C105	
Drilling Machine			A52 ; A	A52M ; B2	21
Dressing Table	• • • •		•••	B114	3
Dump Car	***	• • • •	***	B/0	•
Easel and Board Electric Trolley Elephant Elevated Jib Crane Elevated Jib Crane Elevator Extended Ash Tip				B85 B46	
Electric Trolley		***	•••	B46 A94	
Elevated lib Crane	(Hanc	1)		C21	
Elevated Jib Crane	(Elect	ric)		C21 C25	
Elevator	• • •			C75 C42	
Extended Ash Tip	• • • •		***	C42	
Fan				B2	
Field Roller	• • •	•••		C23	
Fire Axe				A14	
Fire Screen				A50	
Flat Truck	•••		/	C98	
Fly Boats	В	102 ;	C65 ; C	C73 ; C651	М
Footbridge				B75	
Fan Fencers Field Roller Fire Axe Fire Screen Flat Truck Flip-Flap Fly Boats Footbridge Fork Friction Grip Ton			•••	A38	
rriction Grip Tong	53		•••	CII	
Gallows Gangway Garden Seat Gas Stove Gate Giant Foundry Lac Giraffe Go-Chair Goog Gramophone Grandfather Clock Grass Cutter Gravel Sifter Grill Guillotine Gymnast					
Gallows	• • •		• • •	A49	
Garden Seat				A42	
Gas Stove				A27	
Gate	110	• • • •	• • • •	C44	
Giraffe				A44	
Go-Chair				A16	
Gong	• • • •		•••	B22	
Gramophone				C30	
Grandfather Clock			/	A60 ; B99	
Grass Cutter	• • •			B54	
Graver Sitter				A4	
Guillotine				C39	
Gymnast	•••		Е	326 ; C33	
				C04	
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Handcart				A69	
Hanging Scales				A30	
Hawker's Cart	***	***	• • •	B/3 B61	
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High Diving Board	•••	•••	***	C50	
Horizontal Engine			A	82 ; A82M	
Horse				A45	
Horse and Roller	•••	В	88 ; C	93 ; C93M	
Hammerhead Cran Hand Truck Handcart Hanging Scales Hat Rack Hawker's Cart Hay Cart Helve Hammer High Diving Board Hooke's Coupling Horizontal Engine Horse Horse and Cart Horse and Roller Howe Truss				C5	
Inclined Plane		***		C76 C66 C34	
Inclined Plane Invalid Invalid Chair	•••	•••	•••	C66	
chair			***	204	

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Jib Crane				C53
Jockey Pulley				B105
Jockey Pulley Joiner's Bench Jumping Jack Junction Signal				A86
Jumping Jack			***	A2 B93
junction signal	***	***	***	B93
King Meccano	•••			C95
Ladder on Wheels Lamp Standard Lancer Letter Balance Lever of 1st Ordel Lever of 2nd Orde Level Crossing Bar Liner Loading Gauge Low Wing Monopl Luggage Truck Lumber Truck and			***	A69
Ladder on Wheels			A	10 ; C49
Lamp Standard	• • •		***	C104
Letter Balance	***			C0/
Lever of 1st Order			***	A28
Lever of 2nd Orde	r			B45
Level Crossing Bar	rier			A77
Liner		***		A11
Loading Gauge			***	B50
Luggage Truck	ane		***	C6/
Lumber Truck and	Horse	· · · ·	A	A69 10; C49 C104 C87 C9 A28 B45 A77 A11 B50 C67 C12 52; A62M
Magic Plate Mail Bag Hanger Man and Boy Man Climbing Pole Manual Fire Engine Meccano Dancer Mechanical Gong Mechanical Shovel Medal Milk Float Milk Float Miller's Cart Mobile Crane Modern Dressing T Motor Boat Motor Rotel and S				A67
Mail Bag Hanger				A76
Man and Boy				A76 B1 C83 C35 C45 C92 34; C32 B101
Man Climbing Pole				C83
Manual Fire Engine		• • •	***	C35
Mechanical Gong			• • • •	C92
Mechanical Shovel			B	34 : C32
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Miller's Cart		***	B9	4 ; B94M
Modern Dressing T	abla	***	C2	7; C2/M
Motor Boat	able	***		B44
Motor Cycle and S	idecar			B25
Motor Lorry with	Crane			C88
Motor Tractor				C20
Motor Van				C88 C20 C24 C7
Mounted Cowboy				C7
Modern Dressing I Motor Boat Motor Cycle and Si Motor Lorry with Motor Tractor Motor Van Mounted Cowboy Music Stool	•••	***	***	A18
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Pantograph				C85 B3
Parallel Bars	• • •	• • • •		
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Pecking Hen Pen Rack Perambulator Pile Driver Pithead Gear Pneumatic Hammer Forter's Trolley Potter's Wheel Power Hack Saw Prancing Horse Pullman Car Pump Punch Bas Stand				B91
Pile Driver				C89
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Pulley Block		D40 ;		
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Revolving Office Ch	nair			A37 C78 B95
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Revolving Tricyclist				C82
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Rocking Chair				C82 00; B100M B56 B36
Rake Rattle Revolving Crane Revolving Gymnasts Revolving Office Chevolving Seesaw Revolving Tricyclist Rickshaw Rocking Chair Rocking Horse	•••	•••	***	B36

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Doman Dalance				47
Roman Balance Kotary Linisher	* * *			A7 C80
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sports Coupe			(_100; C1C0M
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Step Ladder				A39
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Swivelling lib Cran	e (Fle	ctric)		C109
Swivelling lib Cran	- (Lie	ctric)		C107
Swivelling Jib Cran	e (H1:	ia)		Citi
Sword				A3
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Table				
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Table Tandem Car Tea Wagon Teacher's Desk				A74 C6 A40 B41
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Table Tandem Car Tea Wagon Teacher's Desk Telegraph Pole Telegraph Key Telephone Telescopic Mast				A74 C6 A40 B41 A17 A55 A23; C43 C36
Table Tandem Car Tea Wagon Teacher's Desk Telegraph Pole Telegraph Key Telephone Telescopic Mass Telpher Span (Elec				A74 C6 A40 B41 A17 A55 A23; C43 C36
Table Tandem Car Tea Wagon Teacher's Desk Telegraph Pole Telegraph Key Telephone Telescopic Mass Telpher Span (Elac Telpher Span (Elac				A74 C6 A40 B41 A17 A55 A23; C43 C36
Table Tandem Car Tandem Car Tea Wagon Teacher's Desk Telegraph Pole Telegraph Key Telephone Telescopic Mast Telpher Span (Elec Telpher Span (Han Tightrope Walker				A74 C6 A40 B41 A17 A55 A23; C43 C36
Table Tandem Car Tandem Car Tea Wagon Teacher's Desk Telegraph Pole Telegraph Key Telephone Telscopic Mass Telpher Span (Elec Telpher Span (Han Tightrope Walker Timber Drag				A74 C6 A40 B41 A17 A55 A23; C43 C36 C58 C60 C38 C46
Table Tandem Car Tandem Car Tea Wagon Teacher's Desk Telegraph Pole Telegraph Key Telephone Telescopic Mast Telpher Span (Elec Telpher Span (Han Tightrope Walker Timber Drag Timber Truck				A74 C6 A40 B41 A17 A55 A23; C/3 C36 C58 C60 C38 C46 A29
Table Tandem Car Tandem Car Tea Wagon Teacher's Desk Telegraph Pole Telegraph Key Telephone Telescopic Mass Telpher Span (Elec Telpher Span (Han Tightrope Walker Timber Drag Timber Truck				A74 C6 A40 B41 A17 A55 A23; C/3 C36 C58 C60 C38 C46 A29
Table Tandem Car Tandem Car Tea Wagon Teacher's Desk Telegraph Pole Telegraph Key Telephone Telscopic Mast Telpher Span (Elec Telpher Span (Han Tightrope Walker Timber Drag Timber Truck Top				A74 C6 A40 B41 A17 A55 A23; C/3 C36 C58 C60 C38 C46 A29
Table Tandem Car Tandem Car Tea Wagon Teacher's Desk Telegraph Pole Telegraph Key Telephone Telpher Span (Elec Telpher Span (Han Tightrope Walker Timber Drag Timber Truck Top Tower Wagon				A74 C6 A40 B41 A17 A55 A23; C/3 C36 C58 C60 C38 C46 A29
Table Tandem Car Tandem Car Tea Wagon Teacher's Desk Telegraph Pole Telegraph Key Telephone 1 elescopic Mast 1 elpher Span (Elec Telpher Span (Han Tightrope Walker Timber Drag Timber Truck Top Tower Wagon Tram Car				A74 C6 A40 B41 A17 A55 A23: C/3 C36 C58 C60 C38 C46 A29 A92: C54 C16 B110
Table Tandem Car Tandem Car Tea Wagon Teacher's Desk Telegraph Pole Telegraph Key Telephone Telpher Span (Elec Telpher Span (Han Tightrope Walker Timber Drag Timber Truck Top Tower Wagon Tram Car Travelling Crane				A74 C6 A40 B41 A17 A55 A23; C/3 C36 C58 C60 C38 C46 A29 A92; CF4 C16 B110 C10: C68
Table Tandem Car Tandem Car Tea Wagon Teacher's Desk Telegraph Pole Telegraph Key Telephone 1 elescopic Mast 1 elpher Span (Elec Telpher Span (Han Tightrope Walker Timber Drag Timber Truck Top Tower Wagon Tram Car Travelling Crane Triangle of Forces				A74 C6 A40 B41 A17 A55 A23; C/3 C36 C58 C60 C38 C46 A29 A92; CF4 C16 B110 C10: C68
Table Tandem Car Tandem Car Tea Wagon Teacher's Desk Telegraph Pole Telegraph Key Telephone Telpher Span (Elec Telpher Span (Han Tightrope Walker Timber Drag Timber Truck Top Tower Wagon Tram Car Travelling Crane Triangle of Forces Triangulated Trucs				A74 C6 A40 B41 A17 A55 A23; C/3 C36 C58 C60 C38 C46 A29 A92; CF4 C16 B110 C10: C68
Telpher Span (Han- Tightrope Walker Timber Drag Timber Truck Top Tower Wagon Tram Car Travelling Crane Triangle of Forces Triangulated Truss	 tric) d) 			A74 C6 A40 B41 A17 A55 A23; C/3 C36 C58 C60 C38 C46 A29 A92; CF4 C16 B110 C10: C68
Telpher Span (Han- Tightrope Walker Timber Drag Timber Truck Top Tower Wagon Tram Car Travelling Crane Triangle of Forces Triangulated Truss	 tric) d) 			A74 C6 A40 B41 A17 A55 A23; C/3 C36 C58 C60 C38 C46 A29 A92; CF4 C16 B110 C10: C68
Telpher Span (Han Tightrope Walker Timber Drag Timber Truck Top Tower Wagon Tram Car Travelling Crane Triangle of Forces Triangulated Trus Trip Hammer	 tric) d) 			A74 C6 A40 B41 A17 A55 A23; C/3 C36 C58 C60 C38 C46 A29 A92; CF4 C16 B110 C10: C68
Telpher Span (Han Tightrope Walker Timber Drag Timber Truck Top Tower Wagon Tram Car Travelling Crane Triangle of Forces Triangulated Trus Trip Hammer	 tric) d) 		 	A74 C6 A40 B41 A17 A55 A23; C/3 C36 C58 C60 C38 C46 A29 A92; C54 C16 B110 C10; C68 C90 C2 B4 S117; B117M B112
Telpher Span (Han Tightrope Walker Timber Drag Timber Truck Top Tower Wagon Tram Car Travelling Crane Triangle of Forces Triangulated Trus Trip Hammer	 tric) d) 			A74 C6 A40 B41 A17 A55 A23: C/3 C36 C58 C60 C38 C46 A29 A92: C54 C16 D10: C68 C90 C2 B4 B110 C10: C68 C90 C2 B4 C17: B117M B112 C1C1
Telpher Span (Han Tightrope Walker Timber Drag Timber Truck Top Tower Wagon Tram Car Travelling Crane Triangle of Forces Triangulated Trus Trip Hammer	 tric) d) 		 	A74 C6 A40 B41 A17 A55 A23; C/3 C36 C58 C60 C38 C46 A29 A92; C54 C16 B110 C10; C68 C90 C2 B4 S117; B117M B112
Telpher Span (Han Tightrope Walker Timber Drag Timber Truck Top Tower Wagon Tram Car Travelling Crane Triangle of Forces Triangulated Truss Tricycle Trib Hammer	 tric) d) 		 	A74 C6 A40 B41 A17 A55 A23: C/3 C36 C58 C60 C38 C46 A29 A92: C54 C16 D10: C68 C90 C2 B4 B110 C10: C68 C90 C2 B4 C17: B117M B112 C1C1
Telpher Span (Han Tightrope Walker Timber Drag Timber Truck Top Tower Wagon Tram Car Travelling Crane Triangle of Forces Triangulated Truss Tricycle Trolley Try-your-strength I Two-Wheeled Trap	 d) 			A74 C6 A40 B41 A17 A55 A23: C/3 C36 C58 C60 C38 C46 A29 A92: C54 C16 B110 C10: C68 C90 C2 B4 S117: B117M B112 C1C1 B82
Telpher Span (Han Tightrope Walker Timber Drag Timber Truck Top Tower Wagon Tram Car Travelling Crane Triangle of Forces Triangulated Trus Trip Hammer	 tric) d) 		 	A74 C6 A40 B41 A17 A55 A23: C/3 C36 C58 C60 C38 C46 A29 A92: C54 C16 D10: C68 C90 C2 B4 B110 C10: C68 C90 C2 B4 C17: B117M B112 C1C1
Telpher Span (Han Tightrope Walker Timber Drag Timber Truck Top Tower Wagon Tram Car Travelling Crane Triangle of Forces Triangulated Truss Tricycle Trolley Try-your-strength I Two-Wheeled Trap Umpire's Seat	tric) dd)			A74 C6 A40 B41 A17 A55 A23: C/3 C36 C58 C60 C38 A29 A92: C54 C16 C10: C68 C90 C2 B4 S117: B1117 B112 C1C1 B82 A51
Telpher Span (Han Tightrope Walker Timber Drag Timber Truck Top Tower Wagon Tram Car Travelling Crane Triangle of Forces Triangulated Truss Tricycle Trolley Try-your-strength I Two-Wheeled Trap	 d) 			A74 C6 A40 B41 A17 A55 A23; C/3 C36 C58 C60 C38 C46 A29 A92; CF4 C16 B110 C10; C68 C90 C2 B4 S117; B117M B112 C1C1 B82 A51
Telpher Span (Han Tightrope Walker Timber Drag Timber Truck Top Tower Wagon Tram Car Travelling Crane Triangle of Forces Triangulated Truss Tricycle Trip Hammer Tryour-strength I Two-Wheeled Trap Umpire's Seat Violin and Bow	crric) d)			A74 C6 A40 B41 A17 A55 A23; C/3 C36 C58 C60 C38 C46 B110 C10; C68 C90 C2 B4 S117; B117M B112 C1C1 B82 A51
Telpher Span (Han Tightrope Walker Timber Drag Timber Truck Top Tower Wagon Tram Car Travelling Crane Triangle of Forces Triangulated Truss Tricycle Trip Hammer Trolley Try-your-strength I Two-Wheeled Trap Umpire's Seat Violin and Bow Walking Man	tric)			A74 C6 A40 B41 A17 A55 A23: C/3 C36 C58 C60 C38 C46 A29 A92: C54 C16 B110 C10: C68 C90 C90 B4 B117: B117M B112 C1C1 B82 A51 B49 B6
Telpher Span (Han Tightrope Walker Timber Drag Timber Truck Top Tower Wagon Tram Car Travelling Crane Triangle of Forces Triangulated Truss Tricycle Trip Hammer Trolley Try-your-strength I Two-Wheeled Trap Umpire's Seat Violin and Bow Walking Man Warehouse Crane	tric)			A74 C6 A40 B41 A17 A55 A23; C/3 C36 C58 C60 C38 C46 A29 A92; CF4 C16 B110 C10; C68 C90 C2 B4 S117; B117M B112 C1C1 B82 A51 B49 B6 C84
Telpher Span (Han Tightrope Walker Timber Drag Timber Truck Top Tower Wagon Tram Car Travelling Crane Triangle of Forces Triangulated Truss Tricycle Trip Hammer Trolley Try-your-strength I wo-Wheeled Trap Umpire's Seat Violin and Bow Walking Man Warehouse Crane	tric) d) Machin			A74 C6 A40 B41 A17 A55 A23; C/3 C36 C58 C60 C38 C46 A29 A92; CF4 C16 B110 C10; C68 C90 C2 B4 S117; B117M B112 C1C1 B82 A51 B49 B6 C84
Telpher Span (Han Tightrope Walker Timber Drag Timber Truck Top Tower Wagon Tram Car Travelling Crane Triangle of Forces Triangulated Truss Tricycle Trip Hammer Trolley Try-your-strength I Two-Wheeled Trap Umpire's Seat Violin and Bow Walking Man Warehouse Crane Watch Stand	 			A74 C6 A40 B41 A17 A55 A23: C/3 C36 C58 C60 C38 A46 A27 A92: C54 C16 B110 C10: C68 C90 C2 B4 S117: B1117M B112 C1C1 B82 A51 B49 B6 C84 A84
Telpher Span (Han Tightrope Walker Timber Drag Timber Truck Top Tower Wagon Tram Car Travelling Crane Triangle of Forces Triangulated Truss Tricycle Trip Hammer Trolley Try-your-strength I Two-Wheeled Trap Umpire's Seat Violin and Bow Walking Man Warehouse Crane Watch Stand	 			A74 C6 A40 B41 A17 A55 A23: C/3 C36 C58 C60 C38 A46 A27 A92: C54 C16 B110 C10: C68 C90 C2 B4 S117: B1117M B112 C1C1 B82 A51 B49 B6 C84 A84
Telpher Span (Han Tightrope Walker Timber Drag Timber Truck Top Tower Wagon Tram Car Travelling Crane Triangle of Forces Triangulated Truss Tricycle Trip Hammer Trolley Try-your-strength I Two-Wheeled Trap Umpire's Seat Violin and Bow Walking Man Warehouse Crane Watch Stand	 			A74 C6 A40 B41 A17 A55 A23: C/3 C36 C58 C60 C38 A46 A27 A92: C54 C16 B110 C10: C68 C90 C2 B4 S117: B1117M B112 C1C1 B82 A51 B49 B6 C84 A84
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MECCANO PARTS & ACCESSORIES PLATES, **BRACKETS** STRIPS, JOD 54^ 154⁴& 154⁸ Conning 103° (0000000) (o o = = \circ \circ ETC. WHEELS, PULLEYS, GEARS, 26⁸ 95⁸ 30⁴& 30^c 0.8 20^B (B) 165 2114 & 211B 62^B **MISCELLANEOUS** 0/ . 18 120^B 57^ 147⁸ 66 & 67 58^B