

MECCANO

(TRADE MARK REG. U.S. PAT. OFF.)

INSTRUCTIONS

FOR OUTFITS Nos. 0 to 3,

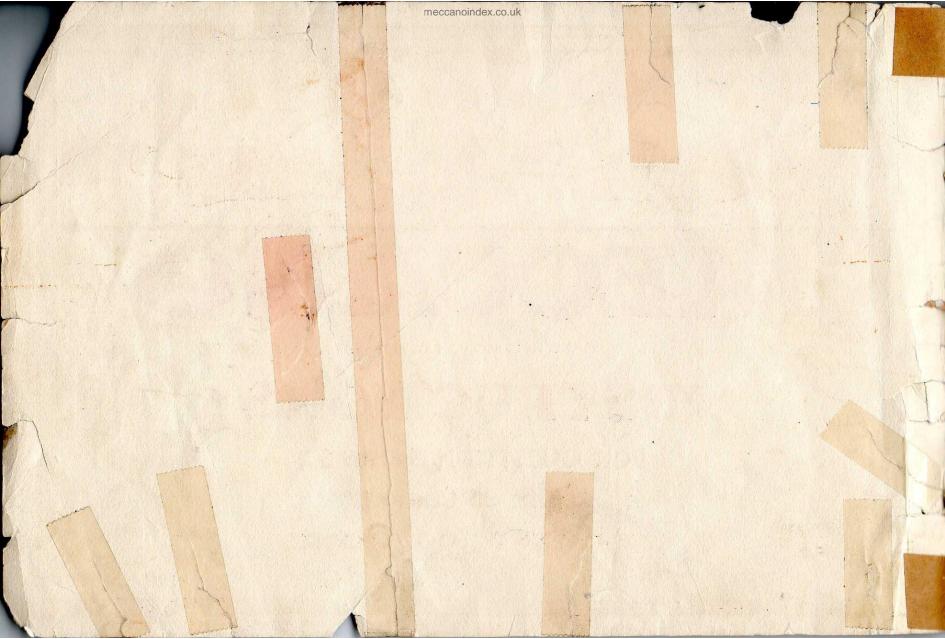
Price 35 Cents

MECCANO COMPANY

ELIZABETH.

NEW JERSEY

AMERICAN EDITION



A TALK WITH NEW MECCANO BOYS



MECCANO OUTFITS contain accurately-made and highly-finished engineering parts and enable every movement known to mechanism to be reproduced in model form. With Meccano you can accomplish more than with any other constructional toy, for no other system has its possibilities. No study is needed to enable anyone to build models with Meccano—the genius is in the Meccano parts.

You never come to the end of Meccano fun. There is always more ahead—always some new, ingenious and interesting model to build. Each one, as it is completed, "tuned up," and set going, brings a joy and satisfaction beyond anything that boys have ever previously experienced.

As you progress in Meccano you obtain a greater variety of parts, gear wheels, pulley wheels, worm wheels, couplings, cranks, and all manner of perfectly-made real engineering parts. These enable you to construct

complicated mechanical movements without any difficulty. The most wonderful feature of Meccano is that it is real engineering; it is fascinating and delightful and yet so simple that even an inexperienced boy may join in the fun without first having to study or learn anything.

THE LIFE OF A MECCANO BOY

. Meccano boy is the happiest boy in the world. He builds models from the Meccano Instruction books; invents new models; has a try at the Competitions which are always being held in connection with the hobby. Time never hangs heavily on his hands and he is too happy to grumble.

Meccano Prize Competitions. Money and Fame for Meccano Boys

Each year there is a big Prize Competition, cash prizes and Meccano outfits to the value of at least \$1250.00 being awarded to clever boys who are able to design new models. Particulars and Entry Blanks may be obtained from all Meccano dealers, or direct from us on receipt of a post card.

How to Build with Meccano

Follow the instructions closely at first, and build the models just as you see them. Then take each model and try to improve our design. Every model can be made in a dozen different ways. Screw up all the nuts and bolts firmly and you will find that you can play with the trucks, cranes, signals, etc., and

Meccano is sold in different sized outfits, (see page 63). All parts are of the same high quality and finish, the larger outfits containing a greater quantity and variety of parts.

Each outfit may be converted into the one next higher by the purchase of an Accessory Outfit. Thus, a No. 2 may be converted into a No. 3 by adding to it a No. 2A. A No. 3A would then convert it into a No. 4, and so on. In this way, no matter with which outfit you commence, you may by degrees

Particulars and Prices of Meccano Parts

	6	0	0	0	6		
No. 1 1A 1B 2 2A 3 4 5 6 6A	Perforate		12½" 9½" 7½" 5½" 3½" 3½" 1½"	long	1/2		.45 .35 .30 .25 .20 .20 .20 .15 .15
7 7 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Angle Gi	" 71 " 51 " 41 " 31 " 21	0 (2" londer" 1 londer 1 londe	0 0)	each	.25 .20 .60 .55 .50 .45 .40 .35 .35 .30 .25
10 11 12 12a	10) Flat Bra Double Angle Bra Angle Bra	Brackets, 1	0 ½"x½" 1"x1"	(12)	d	(12a) doz.	
13 13A 14 15 15A 6 5A	Axle Ro	ds, 11½" 8" 6" 5" 4½" 3½" 2½" 1½" 1" (andles .	long	J		ach	.10 .10 .05 .05 .05 .05 .03 .02 .02 .02

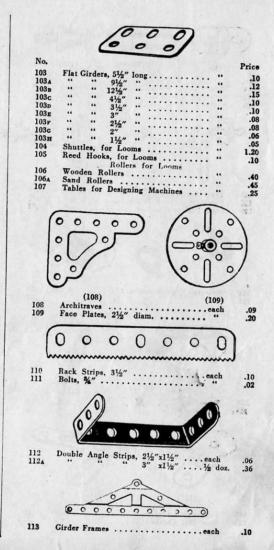
((20)	
No. 19a 20	(19A) Wheels, 3" diar Flanged Wheels	n., with set s	crewsca	Price ch .20 .25
(°)				
198 20A 21 22 23A 22A 23	(19a) 3" dia. with cer 2" " " 1½" " " 1½" " " 1" " without 1½" " "	: :	et screw, es	22A) ch .2520101005
6	(24)	(25)	Q	(27)
24 25 26	Bush Wheels . Pinion Wheels,	%" diam		.15 25 15
Co	(28)	(30)		(31)
27 27A 28 29 30 31	50 teeth to gear 57 " " " Contrate Wheel Bevel Gears . Gear Wheels,	%" "		.: .35 .: .50 .: .55 .: .65



Particulars and Prices of Meccano Parts-(Continued)



	(00000)	
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	(00000) (00000)
No.		D.
70	Flat Plates, 5½"x2½"each	Price
72 76	" " 2½"x2½"	.10
77	Triangular Plates 2½" "	.05
(100000000000000000000000000000000000000	m
79	Screwed Rods, 8"esch	teletil
79A	" " 6"	.25
80 80A	" " 5"	.15
80B	" " 41/2"	.12
81 82		.10
02	" " 1" "	.05
	000	
	(0 0000)	
89	Company of the	
90	Curved Strips, 5½"each	.05
,	222222222	
1	TETETETETETETETETETETETETETETETETETETE	=
•		~
94	Sprocket Chainper yard	1 .25
	8 (A) 3	
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95 96	Sprocket Wheels, 2" diam each	.27
-	* * * * * * * * * * * * * * * * * * * *	.20
• •		
(0)	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	17
		4
97		
98	21/2"	.20
99 99 _A	" " 12½" " " " " " " " " " " " " " " "	.75
	972	.60
	372	50
100 101 102	Healds, for Looms	.50 .45 .05



Particulars and Prices of Meccano Parts-(Continued)

(114) (115)	(120)
No. 114 Hinges	Price
	-
121 Train Couplings 122 Miniature Loaded Sacks 123 Cone Pulleys	
0000	000
124 Reversed Angle Brackets	1"½ doz25 .20
Q.D	
(126) 126 Trunnions	(126A) each .15
600	
(127) 127 Simple Bell Cranks 128 Boss Bell Cranks	(128)each .10 .15

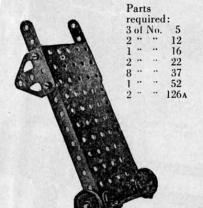
2.5000000000000000000000000000000000000	(130)
No. 129 Rack Segments, 3" di 130 Triple Throw Eccent	am each .20
Co.S	了。?
133 Corner Brackets 135 Theodolite Protracto	ors
(302)	(301)
301 Bobbins	each .10 per doz15
303 Insulating Washers (304)	(306)
304 6 B A. Screws 305 6 B A. Nuts	per doz15
306 Terminals	(308)
307 Silver-tipped Conta 308 Pole Pieces	ct-screwseach .12



Trucks and Luggage Carts

Model No. 2

Truck with Sides



Model No. 1

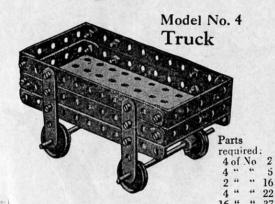
Flat Truck



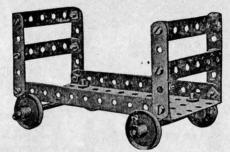
4 of No. 2 | 12 of No. 37 4 " " 5 | 1 " " 52 2 " " 16 | 4 " " 60 4 " " 22 |



Parts required:
2 of No. 2 | 9 of No. 37
1 " " 16 | 1 " " 44
2 " " 17 | 1 " " 52
3 " " 22 | 2 " " 60
4 " " 35 | 2 " " 126A



Model No. 5 Luggage Truck



Parts required:

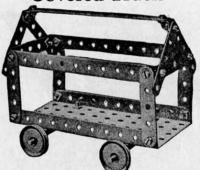
4 of No. 5 | 16 of No. 37

2 " " 16 | 1 " " 52

4 " " 22 | 4 " " 60



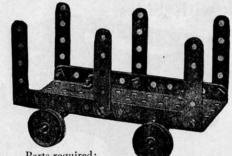
Model No. 7 Covered Truck



Parts requ	4 of No. 22			
3 of No. 2	2 of No. 12	20 "	" 37	
B " " 5	2 " " 16	1 "	" 52	
0		4 44	44 60	v

Trucks and Luggage Carts (Continued)

Model No. 8-Timber Truck



Parts required: 6 of No. 5 | 10 of No. 37 2 " " 16 | 1 " " 52 4 " " 22 | 2 " " 60

Model No. 11-Timber Truck



Parts required: 2 of No. 2
8 of No. 5 | 10 of No. 37
1 " " 16 | 1 " " 52
2 " " 22 | 1 " " 60

Parts required:

2 of No. 16 | 4 of No. 37
2 " 17 | 1 " " 52
4 " 22 | 2 " " 60



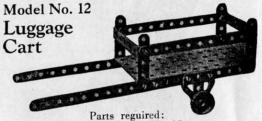
Parts required:
4 of No. 2 | 16 of No. 37
4 " " 5 | 1 " " 52
1 " " 16 | 2 " " 60
2 " " 22 | 2 " " 126A

Model No. 14-Timber Drag

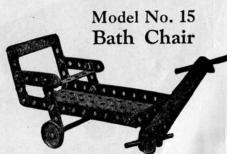


Parts | 2 of No. 11 | 8 of No. 37 required: 2 " " 16 | 4 " " 60 4 of No. 2 | 4 " " 22 |

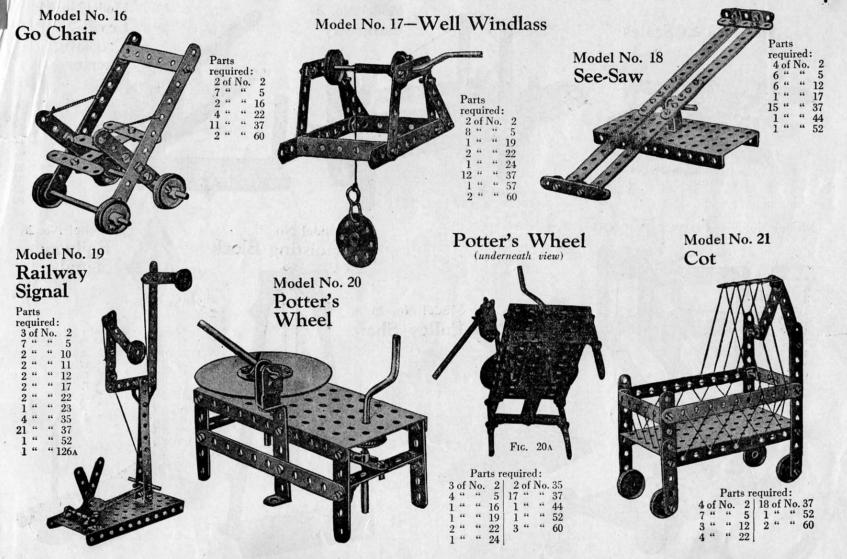




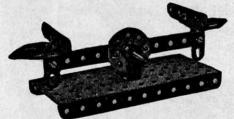
Parts regulred:
4 of No. 2 | 14 of No. 37
4 " " 5 | 1 " " 52
1 " " 16 | 2 " " 60
2 " " 22 | 2 " " 126A



Parts | 1 of No. 16 | 13 of No. 37 required: 2 " " 17 | 1 " " 44 2 of No. 2 | 3 " " 22 | 1 " " 52 6 " " 5 | 4 " " 35 | 3 " " 60

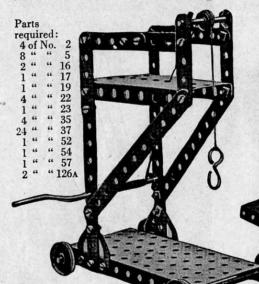


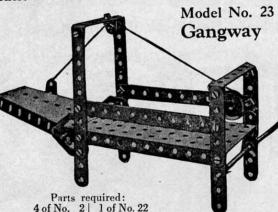
Model No. 22-Scales



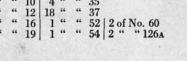
Parts requi	red:	9 of No. 37			
Lof No 2	2 of No. 12	1 " " 44 1 " " 52 2 " "126A			
2 " " 5	1 " " 17	1 " " 52			
2 " " 10	1 " " 24	2 " "126A			

Model No. 25-Tower Wagon





art	3 16	· cq car	***			The second secon
No.	2	1	of	No.	22	
46	5	1	44	44	23	
"	10	4	"	**	35	
46	12	18	66	"	37	
66	16	1	66	44	52	2 of No. 60
44	19	1	"	"	54	2 " "126A
	No. "	No. 2 " 5 " 10 " 12 " 16	No. 2 1 " 5 1 " 10 4 " 12 18 " 16 1	No. 2 1 of " 5 1 " " 10 4 " " 12 18 " " 16 1 "	" 5 1 " " " 10 4 " " " 12 18 " " " 16 1 " "	No. 2 1 of No. 22



Pulley Shaft Parts required: 4 of No. 2 4 " 12 1 " 16 4 " 22 10 " 37 2 " 38 1 " 52

Model No. 26



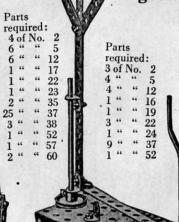
Model No. 27

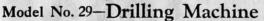
Hoisting Block

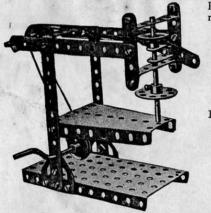
Model No. 24 Crossing Barrier

Parts required:

Model No. 28 Railway Signal







	qui		
4	4 of	No.	2
	3 "	- 66	1
	1 "	"	11
1	2 "	- 64	16
	2 "	44	19
	1 "	44	22
11 39	1 "	66	24
	4 "	- 66	35
19	9 "	44	37
	1 "	44	44
	1 "	44	52
	1 "	46	54
:		44	60
-	2 "	"	126A

		dies	11.15	2000		Jib	C	an	e	42
40		. 2	1	of .	No.	24	The same			1
9	-	5	4	**	"	35	TAKE	The state	1	1/
2	"	16	17	"	"	37	3000	THE .	10	P 1
1 "	"	17	1	"	46	52		/	AN	
1	44	19 22	1	**	**	57 60	COUNT	/	0/0	
1	14	23	1	25		00	/	-		
	11	-	4/10	Po.	-	. /		N	D	
- 3	11/2	1	-	1			Lyling	3	9	Y
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1	338	N SEA			BSK.	4	800	ABO	ACCORDING TO	
	300	3		1	4	1	1	. 6		,
	0	679		1	6	0	P	25		•
	-	010		は記述	1			2		
		0160			100			1		

Model No. 11-Rock Dail



Model No. 33-Swing

Model No. 34 Ore Crusher

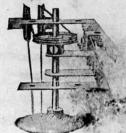
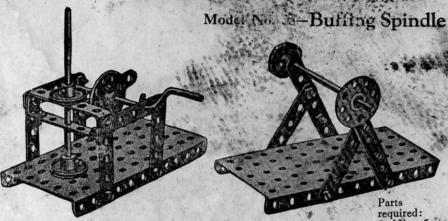


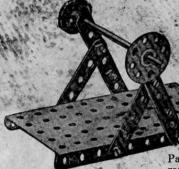
Fig. 29A Detail of Drilling Machine,

Model No. 32 Buffers



Parts required:
4.of No. 2 | 20 of No. 37
4 " " 5 | 1 " " 52
6 " " 12 | 1 " " 60





Parts reguired:
2 of No. 2 | 2 of No. 35
2 " " 5 | 6 " " 37
2 " " 17 | 1 " " 52
2 " " 22 | 2 " " 60

Parts required: 6 of No. 5 | 1 of No. 24

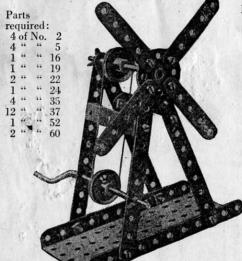
required:

Model No. 37-Windmill

These Models can be made with MECCANO Outfit No. 0

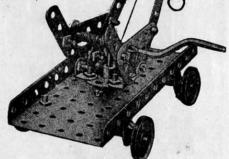
Model No. 36-Telpher Span

Many hours of enjoyment may be obtained from this model. The illustration shows exactly how it is worked. The cords may be made to any length, and the load carried from one side of the room to the other. In order to give a better grip, the operating cord should be wound twice round the crank handle pulley. The body of the telpher should be screwed down to a solid base with ordinary wood screws, and the pulley bracket screwed in a suitable position on the opposite side of the room.



Model No. 38
Swivelling Crane
Parts required 1 of No. 24

Parts required 1 of No. 24
2 of No. 2 | 4 " " 35
4 " " 5 | 18 " " 37
4 " " 12 | 4 " " 38
2 " " 16 | 1 " " 44
2 " " 17 | 1 " " 52
1 " " 19 | 1 " " 57
4 " " 22 | 2 " " 60
1 " " 23 | 1 " " 125



Parts required: 4 of No. 2 6 " " 5 4 " " 12 1 " " 16

1 " " 17 1 " " 19 4 " " 22 6 " " 35

14 " " 37 1 " " 44 1 " " 52

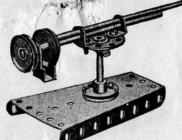
1 " " 52 1 " " 54 2 " " 60 Model No. 39 Furrow Roller



2 " " 60 2 " " 126A Model No. 40 Lawn Mower

Parts required:
4 of No. 2 | 4 of No. 22
7 " " 5 | 19 " " 37
2 " " 11 1 " " 44
2 " " 16 3 " " 60
1 " " 17

Model No. 41 Quick-Firing Gun



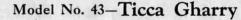
Parts required:
2 of No. 12 | 4 of No. 37
2 " " 16 | 1 " " 44
1 " " 17 | 1 " " 54
1 " " 24 |

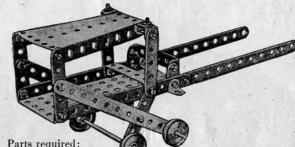
Model No. 42-Swivelling Crane

The sector plate of the Crane in this model is pivoted to the base with a fast pulley above and below.

Parts required:

4	of	No.	2	21	of	No.	37
7		**	5	3	"	**	38
2	44	44	12	1	44	**	44
2	66	44	17	1	**	44	52
1	"	44	19	1		66	54
4	"	**	22	1	44	44	57
ı	"	"	23	1	**	- 66	60
2	"	"	35	2	**		1264

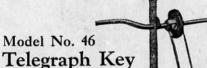




Parts required:

4 of No. 2 | 4 of No. 22 6 " " 5 | 22 " " 37 2 " " 10 | 1 " " 52

Model No. 46



Model No. 47 Sawing Machine



Parts required: 4 of No. 2 9 " " 5 2 " " 2 " " 19 " " 37 1 " " 52 2 " " 60

Model No. 45 Coronation

Chair

required: 3 of No. 2

2 of No. 35 4 of No. 2 3 " " 5 23 " " 37 4 " " 12 1 17 2 " "

4 of No. 2

Model No. 48

Parts required:

Gong





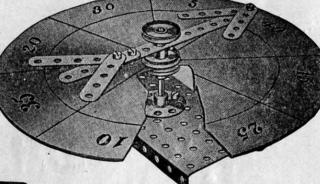


Model No. 49 Spinning Top

Parts required: 1 of No. 17 " " 22 " " 24

Model No. 50-Roulette Wheel

Parts | 5 of No. 5 | 1 of No. 24 required: 1 " " 16 5 " " 37 1 of No. 2 3 " " 22 1 " " 52

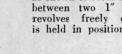


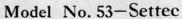
Model No. 51 Mechanical Hammer

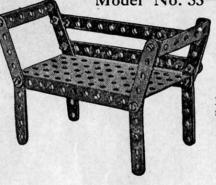
Parts required: 2 of No. 2

Model No. 54 Stamping Machine



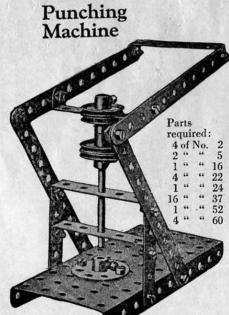




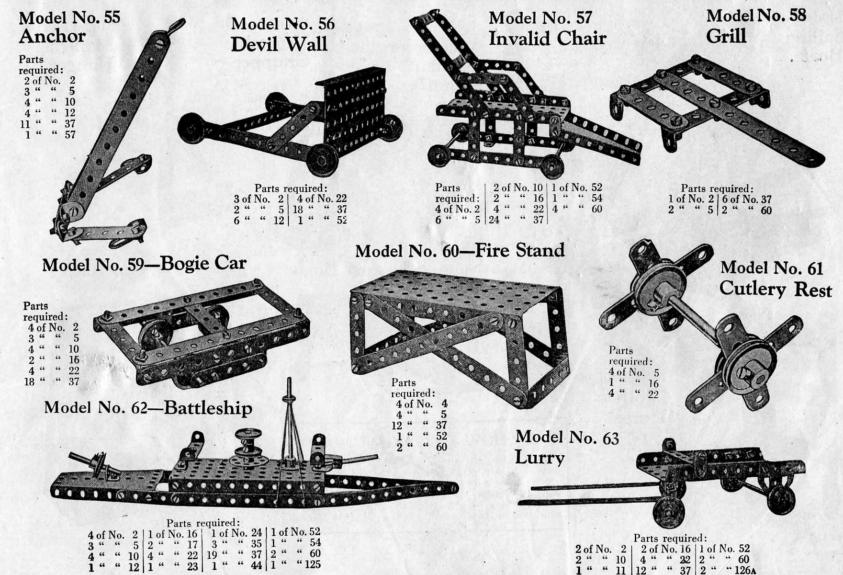


Parts required: 2 of No. 2 3 " " 10 15 " " 37 1 " " 52 2 " " 60





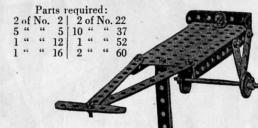
Model No.52



Parts required: 2 of No. 2 | 2 of No. 16 | 1 of No. 52 2 " " 10 | 4 " " 22 | 2 " " 60 1 " " 11 | 12 " " 37 | 2 " " 126A



Model No. 68-Shipyard Bogie



Model No. 69 Clothes Horse

Parts required: 4 of No. 2 6 " " 5 12 " " 37

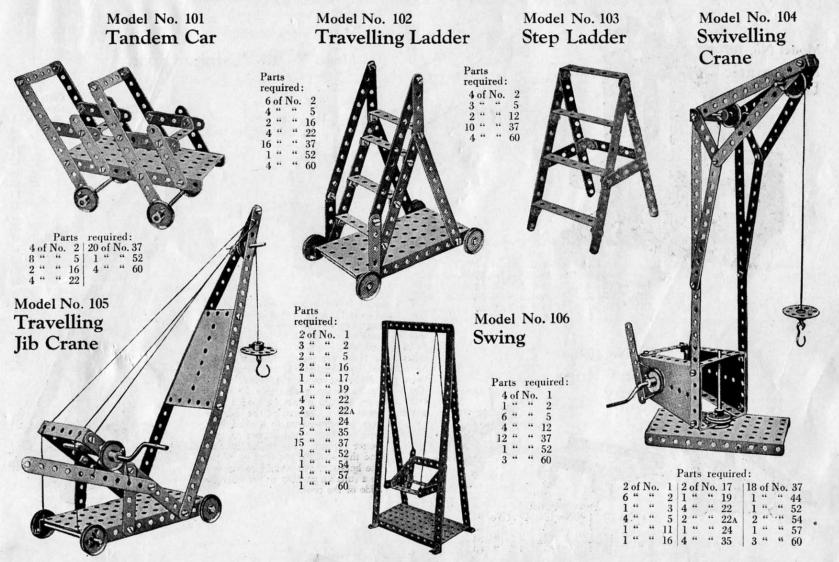
HOW TO CONTINUE

This completes the Models which may be made with MECCANO Outfit No. 0. The next Models are a little more advanced, requiring a number of extra parts to construct them. The necessary parts are all contained in a No. 0A Accessory Outfit, the price of which will be found in the list at the end of the Manual.

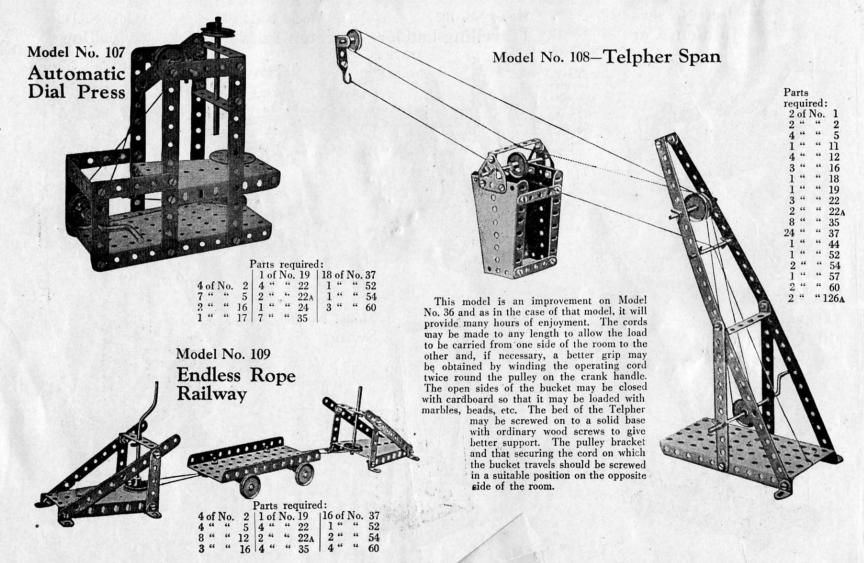
Model No. 70-Pen Rack



These Models can be made with MECCANO Outfit No. 1, or No. 0 and No. OA



These Models can be made with MECCANO Outfit No. 1, or No. 0 and No. Oa



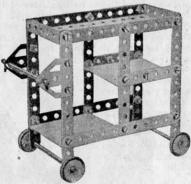
These Models can be made with MECCANO Outfit No. 1, or No. 0 and No. OA



Fig. 110A

The construction of the framework of this model presents no difficulty. The sector plate forming the plough is loosely pivoted on the bolts (1). The axle (2) is mounted in the front sector plate and the 2½" bent strip (3). A 2½" strip (4) is bolted by angle brackets to a bush wheel on the front of the axle and forms a dispersing propeller for the snow after it has risen up the inclined sector plate. A continuous cord (5) is passed around a 1" pulley (6) and round the short axle (7) and a 1" pulley on the propeller axle. In this way, as the plough is moved along the ground, the propeller is revolved.

Model No. 111 Dinner Wagon



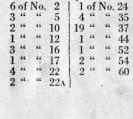
Parts required:

6	of	No.	2	2	of	No.	35
8	44	44		22		44	37
4	66	44	12	1	44	-66	52
3	44	**	16	4	**	44	60
4	**	44	22	2	44	46	126

The two lower platforms are constructed out of pieces of ordinary cardboard, their outer edges resting on 2½" bent strips and their inner edges on angle brackets.

Model No. 112 Roundabout

Begin to build this model by making the platform from a flanged plate and $12\frac{1}{2}$ " strips. The drive from the pulley on the crank is taken to a 1" pulley fast on a spindle (2), another similar pulley being secured to the spindle beneath the plate. The arms are formed of four $5\frac{1}{2}$ " strips and bolted to a bush wheel (1) fast on the spindle.



Parts required:

Parts required:

4 of No. 1 | 3 of No. 22

4 " " 2 | 1 " " 24

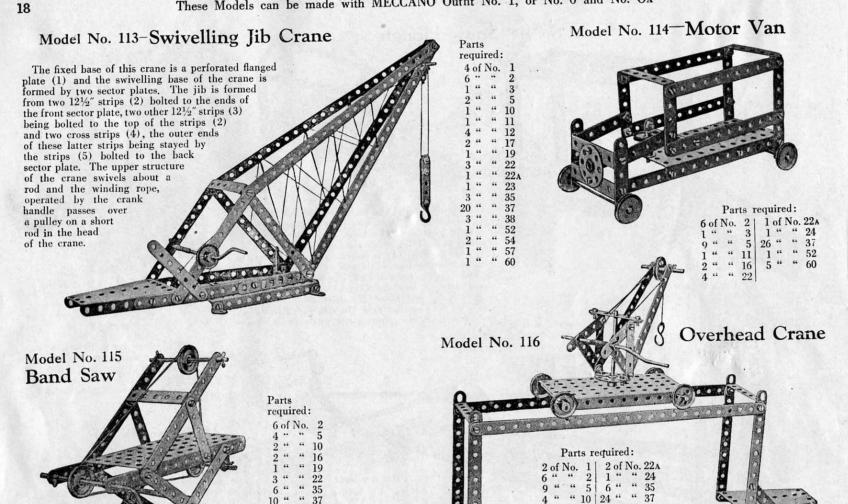
6 " " 5 | 6 " " 35

4 " " 10 | 22 " " 37

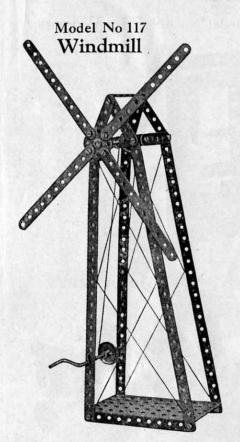
2 " " 16 | 1 " " 52

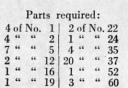
1 " " 17 | 2 " " 54

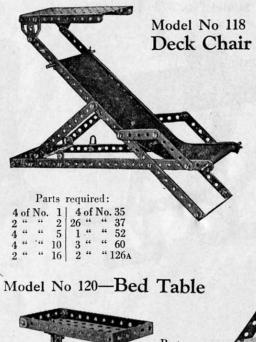
1 " " 19 | 4 " " 60

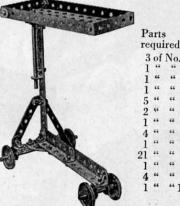


" 52 2 " " 60

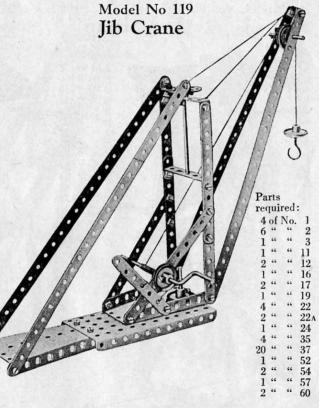




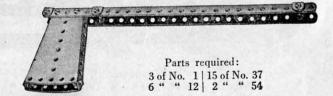






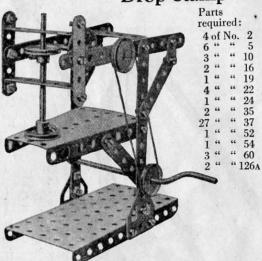


Model No. 121-Hatchet

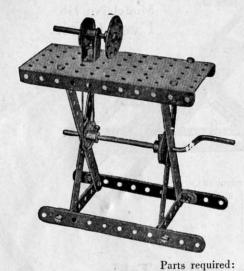


Model No. 122

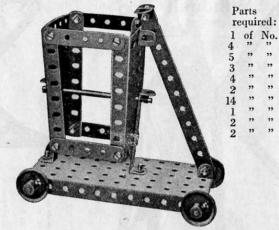
Drop Stamp



Model No. 123-Lathe



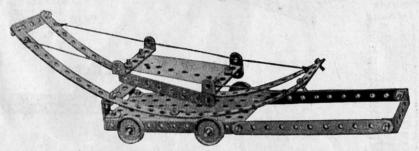
Model No. 124-Tip Wagon



Model No. 126 Motor Lurry



Mountain Transport



Parts required:

2 of No. 1	3 of No.	5 2 of No. 1	6 18 of No.	37 1 of No. 54
2 " " 2	4 " "]	12 4 " " 2	2 1 " "	37 1 of No. 54 52 2 " " 60

Parts required

4	of	No.	2	3	of	No.	22	3 of 1	No. 38
8		- 66	5	2	**	44	22A	1	. 52
4	44	66	12	1	44	66	24	1. "	" 54
2	**	- 66	16	2	44	44	35	3 "	" 60
	"	**	17	25	44	**	37	2 "	" 125

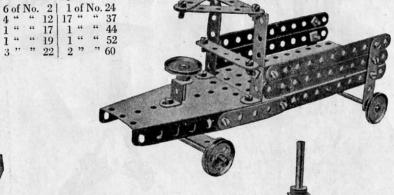
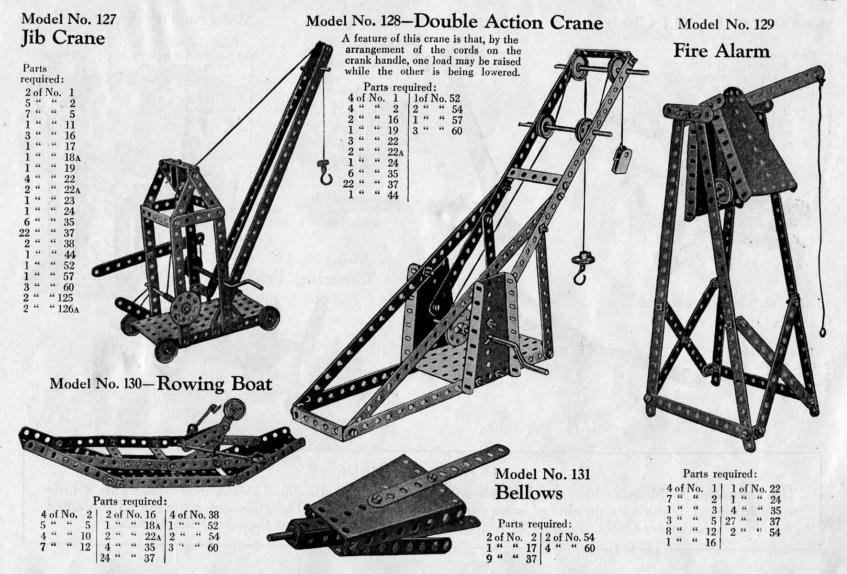
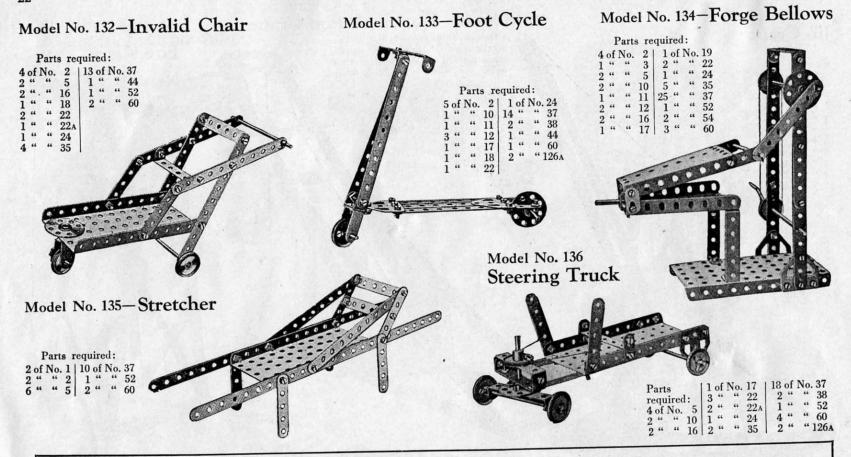


Fig. 126A

These Models can be made with MECCANO Outfit No. 1, or No. 0 and No. OA



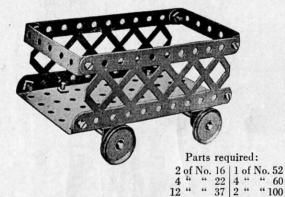


HOW TO CONTINUE

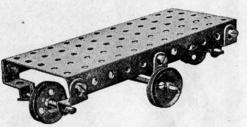
This completes the Models which may be made with MECCANO Outfit No. 1. The next Models are a little more advanced, requiring a number of extra parts to construct them. The necessary parts are all contained in a No. 1A Accessory Outfit, the price of which will be found in the List at the end of the Manual.

These Models can be made with MECCANO Outfit No. 2, or No. 1 and No. 1A

Model No. 201 Truck

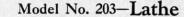


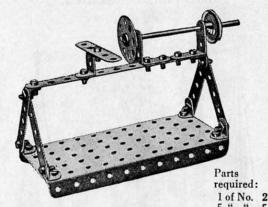
Model No. 202 Revolving Truck



Parts required:

2	of	No.	10	2	of	No.	22	6 of	No. 37 " 52
1	**	"	16	2	66	44	22A	1 "	" 52
2	46	44	17	4	**	**	35	4 "	" 125





Model No. 204-Turntable Gangway

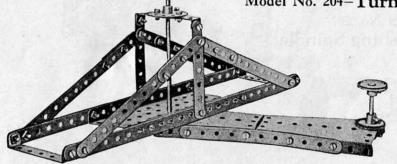
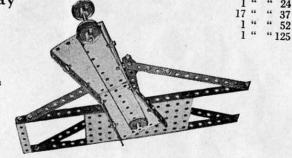


Fig. 204A (underneath view)



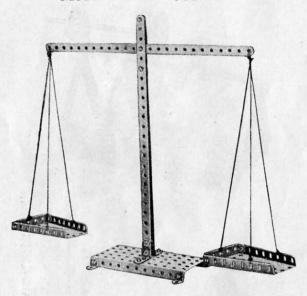
Parts required:

2	of	No.	1	4	of	No.	22
6	44	**	2	1	44	No.	24
2	44	"	3	34	"	44	37
4	"	"	5	1	"	"	52
1	44	"	15A	2	66	**	54
1	"	"	17	3	"	"	60

The side frames of the gangway are made of 12½" strips bolted by means of 2½" bent strips to parallel strips below. The side frames are connected by a perforated flanged plate to the underside of which is bolted a bush wheel fitted with a rod on which is mounted a 1" pulley (see Fig. 204a). The rod passes through one of the end holes of the sector plate which is connected by diagonal strips to another sector plate. Through the end hole of the latter a rod is threaded carrying two 1" pulleys from one of which an operating cord passes through the pulley mounted on the under side of the flanged plate. In this way the Gangway may be rotated by an operating spindle.

These Models can be made with MECCANO Outfit No. 2, or No. 1 and No. 1A

Model No. 205-Scales

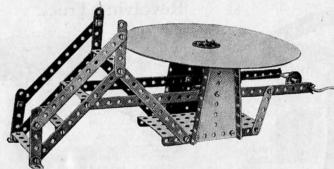


Parts required:

		1 4	LEO T	- II	***	ce.	
3	of	No.	1	4	of	No.	38
4	44	"	12	1	44	44	
	**	44	12A	2	**	**	54
19	44	- 66	37	2	66	**	60

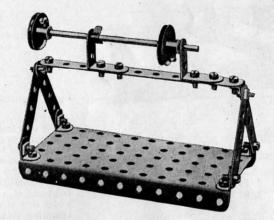
The slot is formed by inserting 2 washers in the bolts above and below the beam. These washers hold the strips composing the standard at the required distance apart to give the beam free play.

Model No. 206-Joy Wheel



The driving mechanism and construction of the framework of this model are clearly brought out in Fig. 206a. Cut out a circular piece of cardboard, 8" in diameter, and in the centre of the disc fix a bush wheel by nuts and bolts. The eye of the bush wheel is then threaded over the top of a vertical spindle, and secured by its set-screw.

Model No. 207 Polishing Spindle



Parts required:

2	of	No.	1	1	of	No.	22A
6	44	44	2	1	44	"	24
6	**	44	5	2	44	"	35
2	44	44	12	28	44	. 66	37
1	44	**	15A	1	66	"	52.
1	**	**	19	2	**	"	54
3	44	"	22	5	"	44	60

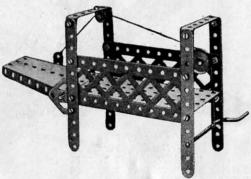


Parts required:

1	of	No.	2	1	of	No.	15A
4	46	44	5	1 2	020		44
6	**	44	12	1	44	44	35
2	"	44	12A	16			37
				1	44	**	52

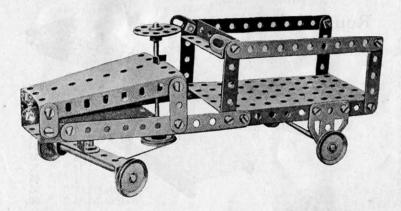


Model No 209 Gangway



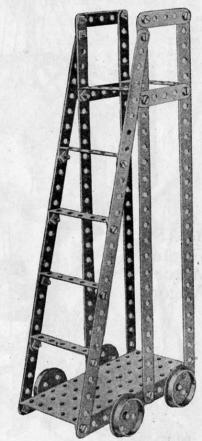
		F	arts re	equi	red:		
40	f No	. 2	1 of	No.	22		
1		10	1 "	44	23	1 of	No. 54
1		12	4 "	**	35	2 "	" 60
1		16	17 "	44	37	2 "	" 100
1		19	1 "	44	52	2 "	" 126A

Model No. 211-Motor Cart

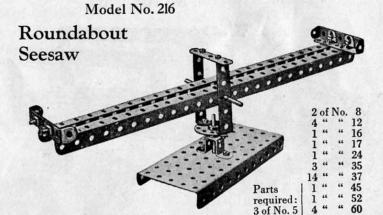


Parts required: 4 of No. 2 4 " " 5 2 " " 6 4 " " 10 1 " " 11 3 " " 16 3 " " 22 2 " " 22 4 " " 35 26 " " 37 1 " " 52 2 " " 54 3 " " 60 2 " " 126 2 " " 126

Model No. 210 Ladder on Wheels

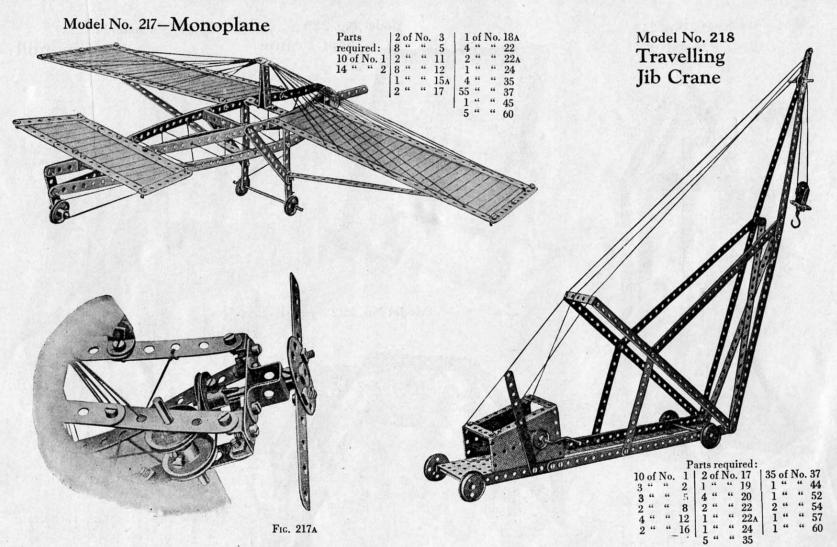


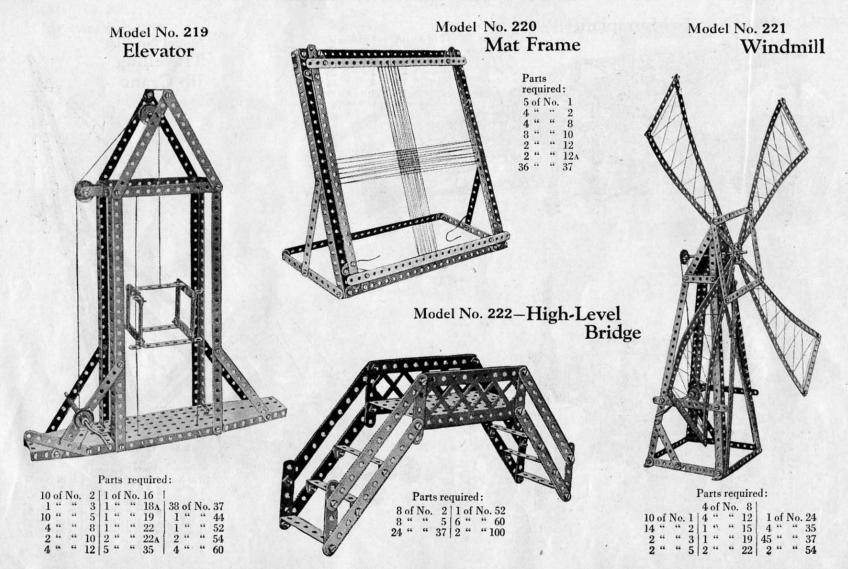
Parts required:
6 of No. 1 | 24 of No. 37
4 " " 5 | 1 " " 52
2 " " 16 | 6 " " 60
4 " " 20



Wagon

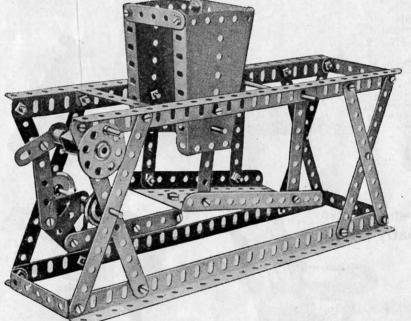
These Models can be made with MECCANO Outfit No. 2, or No. 1 and No. 1A





These Models can be made with MECCANO Outfit No. 2, or No. 1 and No. 1A

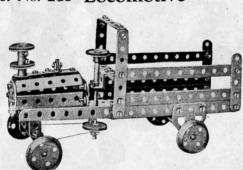
Model No. 223-Coal Sifter



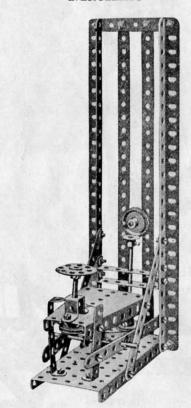
Parts required: 4 " " 60 1 " " 62 1 " " 115 1 " " 126A

Model No. 225-Locomotive

Parts required

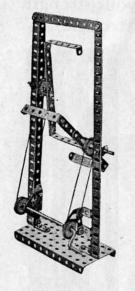


Model No. 224 Try-your-strength Machine



				Pari	S	req	uired				
2	of	No.	1	1	of	No	. 17	12	of I	Vo	. 38
5	**	44	2	1	66	66	. 18A	1	44	44	45
2	**	**	3	4	44	44	22	1	44	66	52
2	44	"	8	1	**	44	24	1	66	**	54
1	**	44	11	4	44	44	35	4	44	66	60
2	"	**	16	30	44	44	37	1	"	66	126A

Model No. 226-Candy Puller



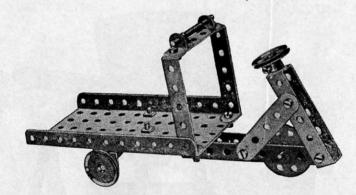
Parts required: 3 of No. 2 2 " " 8 2 " " 12 2 " " 17 1 " 19 4 " 22 2 " 35 26 " 37 10 " 38 1 " 60 2 " 62 4 " 125

Model No. 228 Hay Tedder

Parts required											
4 of No	. 2	3 of	No.	22							
8 " "	5	1 "	44	24							
4 " "	10	5 "	44	35							
3 " "	16	18 "	**	37							
7 44 44	77	7 44	44	- 4							

Model No. 227-Carrier Tricycle

1000	art	24	
re	qu	ired	:
2	of	No.	2
3	66	66	5
1	"	"	11
2	**	"	12
1	66	"	16
1	"	"	17
1	44	44	18 _A
3	**	**	22
1	"	44	24
2	"	66	35
15	**	44	37
1	**	44	52
5	"	"	60





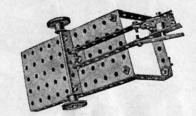
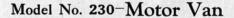


Fig. 227A

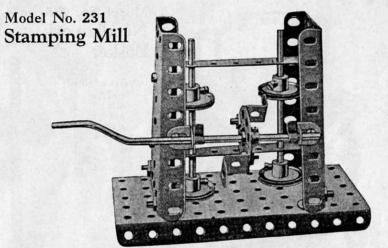
Carrier Tricycle, underneath view

Parts required: 8 of No. 2 " " 12 " " 14 " " 2 31 " " 3 6 " " 6 " " 6



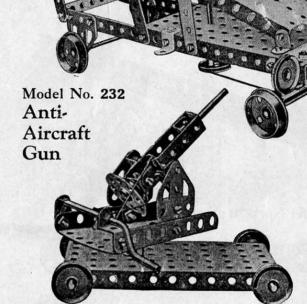
Parts required:

6	of	No.	2	4	of .	No.	20
10	"	**	5	4	**	66	22
1	"	"	10	1		**	24
1	"	44	11	38	44	44	37
4	"	"	12	1	66	44	44
3	"	"	16	1	**	44	52
				2	**	"	54
				6	"	**	60
				2	"	"	125
				1 9	66	66	196



Parts required:

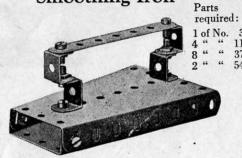
				arts	10	qui	····				
2	of	No.	3	4	of	No.	22	1	of	No.	52
10	44	44	12	1	44	"	24	2	**	**	54
2	"	"	16	2	44	66	35	2	**	"	125
1	66	44	10	1 16	44	44	37	1			



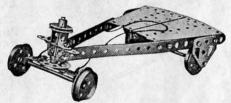
Parts required:

5 of No. 10

1 of No. 54 2 " " 60 4 " " 125 Model No. 233 Smoothing Iron



Model No. 234 Coaster



Parts required:

2.	of	No	2	1	of	No.	17 20	16	of l	No.	38
ī		44	5	4	44	**	20	1	44	"	45
9	"	44	12	1	66	44	22	2	66	44	54
1	44	44	15	1	"	44	24	11	**	**	60
1	"	**	16	16	"	"	24 37	2	**	44	126

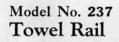
These Models can be made with MECCANO Outfit No. 2, or No. 1 and No. 1A

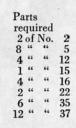


Model No. 235 Needlework Basket

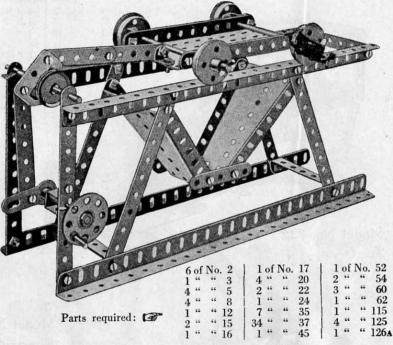
Parts required:

	,	roda	1100
		No.	1
6	**	"	2
2	66	**	3
6	"	**	5
12	46	66	12
46	**	- 66	37
1	44	44	52
3	44	"	60

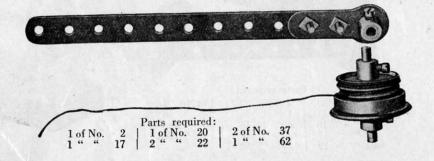


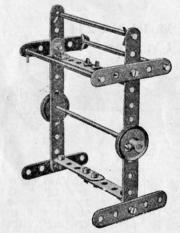


Model No. 236-Sifter



Model No. 238-Spinning Top

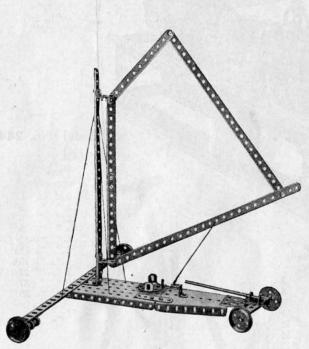


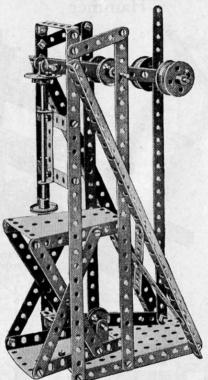


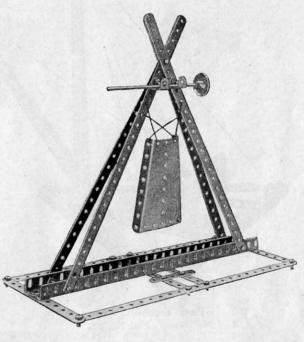
Model No. 239-Seashore Aeroplage

Model No. 240 Embossing Machine









TO .	1
Parte	required

							I come or co				
4	of	No.	. 1	11	of	No.	12A	33	of	No.	37
3	44		2	1	66	**	15	1	**	- 44	33
2	66	- 66	5	1	44	44	16	1	44	44	52
1	66	44	8	2	44	44	17	1	44	44	54
3	44	44	10	4	66	44	20	1	44	44	60
3		66	11	1	66	**	24	1	44	- 66	125
	66	66	12	1 6	44	**	35	1	44	44	126 _A

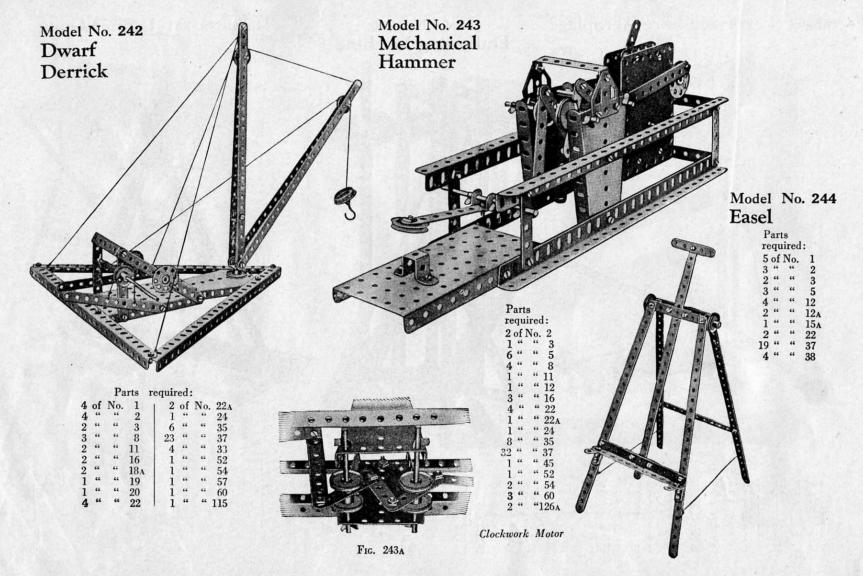
Parts required

				Pai	TS	requ	irea:				
5	of	No.	. 1	12	of	No.	16	44	of	No.	37
9	66	**	2	1	**	**	17	1	**	"	44
2	66	**	5	1	66	44	18A	1	66	44	52
2	44	44	8	4	44	- 66	20	2	44	44	54
2	44	- 44	11	4	66	44	22	4	**	46	60
4	66	44	12	1	44	**	24				
1	66	66	15	14	66	44	35				

Parts required:

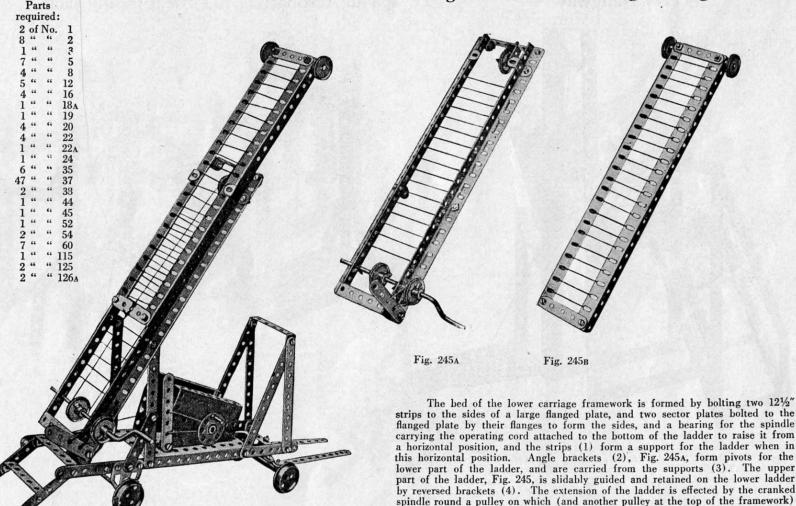
			I arre	requireu.			
6	of	No.	1			No.	
4	44	66	2		66		
		44	5	27	66	**	37
	766		8	1	44	**	54
2	"	44	11				

These Models can be made with MECCANO Outfit No. 2, or No. 1 and No. 1A



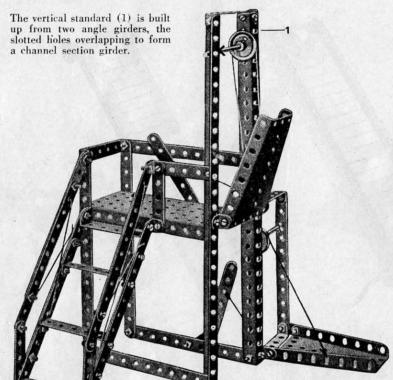
Model No. 245-Extending Ladder on Running Carriage

the cord is passed, the ends being secured to the lower part of the slidable ladder.



Model No. 246

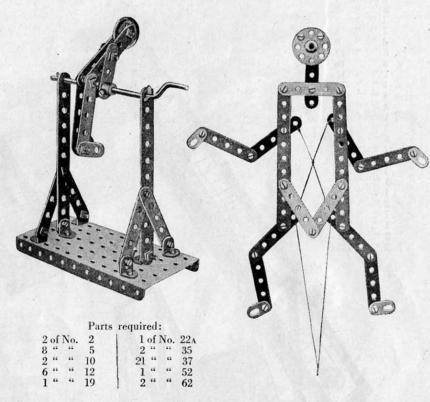
Ferry Gangway



	Parts required:	
14 of No. 2	6 of No. 12	1 of No. 45
2 " " 3	2 " 16	1 " " 52
6 " " 5	2 " " 22	2 " " 54
3 " " 8	2 " 35	8 " " 60
9 " " 10	54 6 6 97	

Model No. 247
The Acrobat

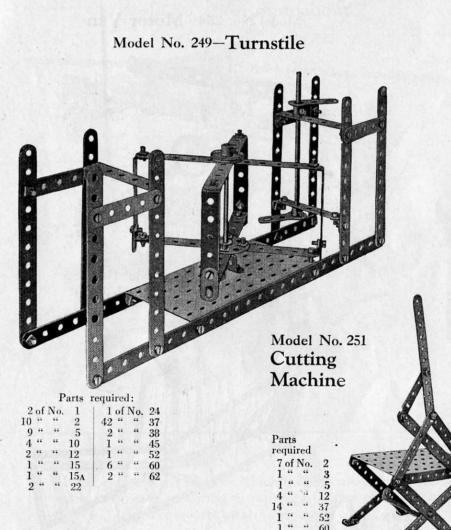
Model No. 248
Jumping Jack



Parts required: 2 of No. 2 12 " " 5 4 " " 10 1 " " 24 18 " " 37

Parts required: 6 of No. 2 2 " " 3 10 " " 5

21 " " 37 1 " " 52 2 " " 60



Model No. 250 Chair for Wounded

Model No. 252



Magic Sector Plates

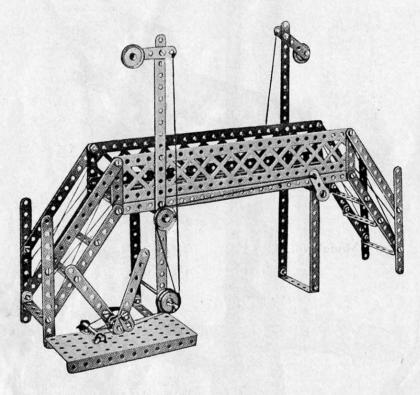
Parts required: 2 of No. 11

2 of No. 11 1 " " 17 2 " " 35

2 " " 35 6 " " 37 2 " " 54

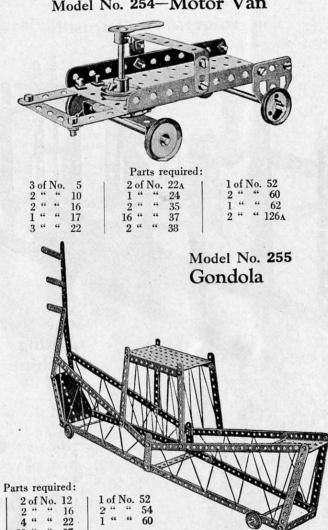
When the cord is held vertically the magic sector plates will fall or stop at the bidding of the owner. If the cord is held without tension the plates will fall, but the instant the cord is tightened they will stop dead. The cord is wrapped once around the rod which passes through the centre holes of the sector plates.

Model No. 253 Railway Foot Bridge and Signals



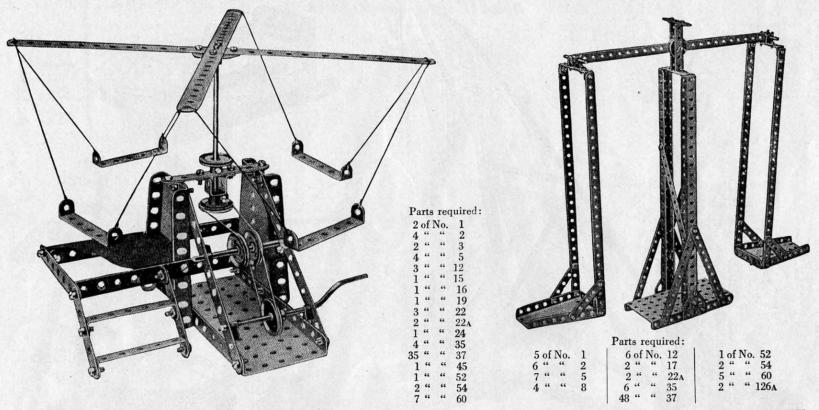
				Pa	rts	reg	uired:				
4	of	No.	1	1 1	of	No.	11	2	of i	No.	22A
14	66	**	2				12	6	46	"	35
2	66	"	3	1	**	**	15A				37
8	66	"	5	2	"	66	16			44	
		"	8	1	"	44	17	8	"	44	60
		"	10	3	66	44	22	1335			

Model No. 254-Motor Van



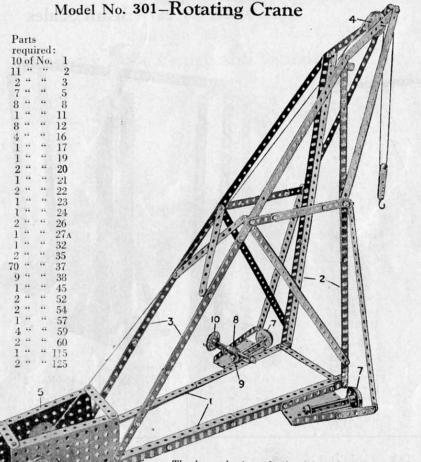
Model No. 256-Roundabout

Model No. 257-Beam Scales

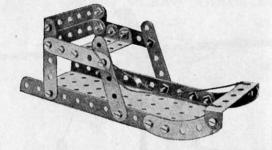


HOW TO CONTINUE

This completes the Models which may be made with MECCANO Outfit No. 2. The next Models are a little more advanced, requiring a number of extra parts to construct them. The necessary parts are all contained in a No. 2A Accessory Outfit (see page 58).



Model No. 302-Toboggan



Parts required: 6 of No. 5 20 " 37 1 " 52 5 " 60 2 " 90

Model No. 303-Horse Sleigh



Parts required:

3 of No. 2	13 of No. 37	1 of No. 60
4 " " 5	1 " " 52	2 " " 90
1 " " 23	1 " " 57	1 " " 1264

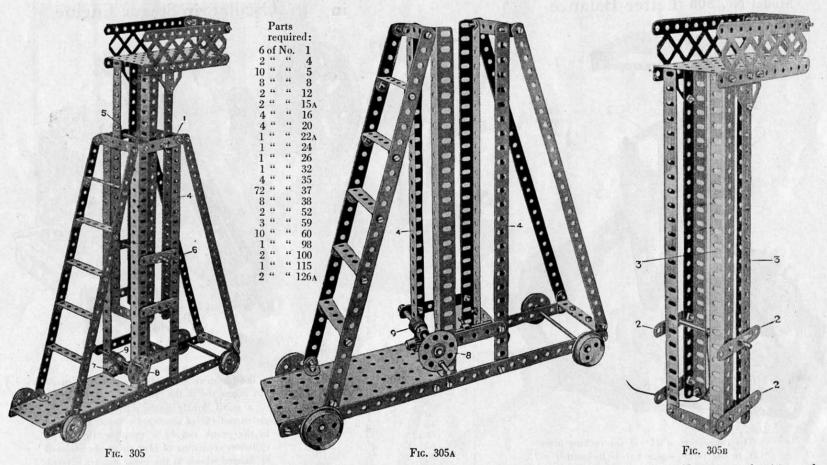
Model No. 364-Sleigh

The lower horizontal ribs (1) and main vertical members (2) are made of angle girders overlapping nine holes, and the diagonal ties (3) of two $12\frac{1}{2}''$ strips and one $5\frac{1}{2}''$ strip, the $12\frac{1}{2}''$ strips being overlapped three holes, and the lower $5\frac{1}{2}''$ strips seven holes. The pulley (4) is carried in a nosing made of two $5\frac{1}{2}''$ strips and two $12\frac{1}{2}''$ strips connected at their apex by a double bracket. The rear swivel point of the crane is made by bolting the gear box (5) to a double bent strip (6) secured to the floor. The crane runs on the flanged wheel (7) and is rotated by means of the worm (8) which engages a pinion (9) on the spindle of one of the flanged wheels and is rotated by the hand wheel (10).



0	CAT	0	1 1	CAL	-
20	of No-	4		f No.	
4	** **	5	2		90
10	" "	37			

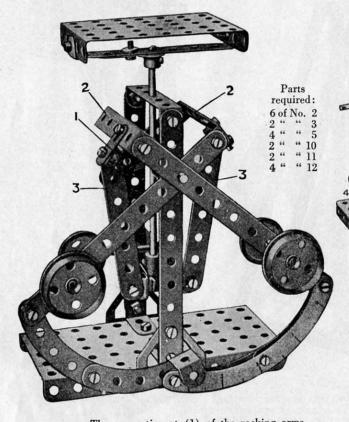
Model No. 305-Tower Wagon



Begin the construction of this model by building up the platform, Fig. A, the tie strips (1) being left off as shown in order to be able to insert the rising and falling tower, Fig. B. The strips are then bolted on. The guide strips (2) are bolted to the girder (3) of the tower with washers beneath the strips. This gives the necessary clearance and enables the strips to rise easily up the faces of the girders (4) of the fixed lower part of the tower. The tower is raised by means of a cord which passes over a pulley (5) and is fastened to a rod (6), the other end of the cord winding on a rod (7) rotated by a hand wheel (8) on the spindle of the worm (9).

Model No. 306-Letter Balance

Model No. 307 Oscillating Steam Engine



The connection at (1) of the rocking arms (2) to the thrust strips (3) is locknutted to give a free pivotal action, and similarly the pivotal connections (5) of the strips (3) to the lever strips (4) are locknutted to give free play.

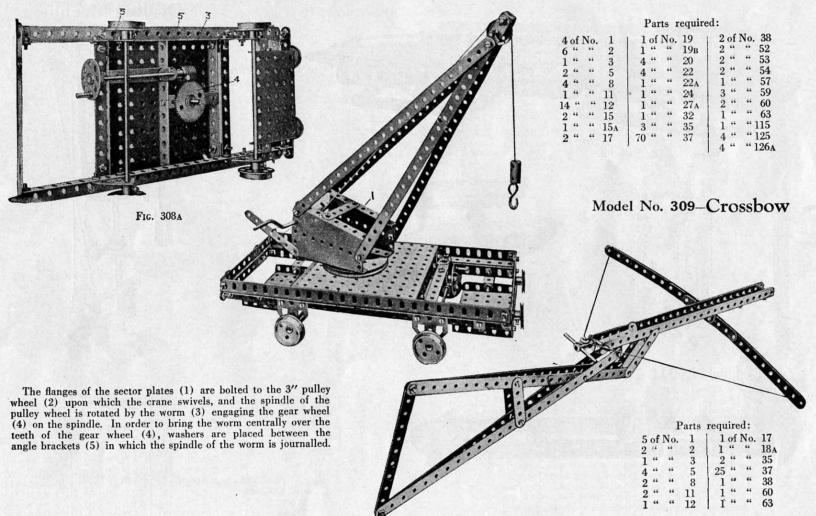
17

11 Fig. 306A 15 19

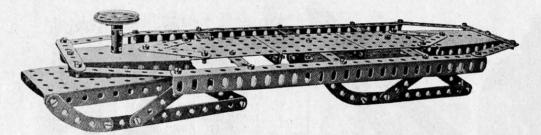
Parts required:

The piston rod (1) of one cylinder is pivotally connected to the crank rod (2) by means of a small double angle strip (3), and the piston rod (4) of the other cylinder is pivoted to the crank rod by a coupling (5). The cylinders consisting of four strips are enclosed by flanged wheels at the ends, and are pivoted on 1/2" reversed brackets (6). The model is operated from the handle rod (7), a pulley on the rear end of which is coupled to the pulley (8) by a cord (9).

Model No. 308-Railway Wagon Swivel Crane



Model No. 310 Bob Sleigh



Parts required:

7 of No. 2 55 of No.	
	110000
6 " " 3 2 " "	38
12 " " 5 1 " "	45
2 " " 8 2 " "	52
2 " " 11 3 " "	53
1 " " 17 2 " "	54
1 " " 2! 1 " "	63
1 " " 24 4 " "	90

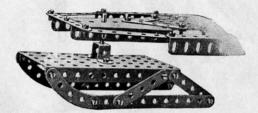
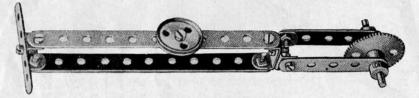


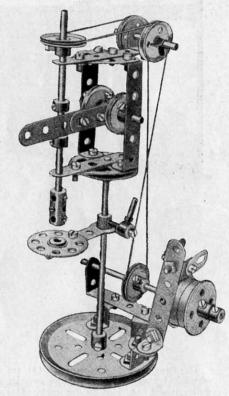
Fig. 310A

Pastry Designer Model No. 311



Parts required:

Model No. 312 **Drilling Machine**



				Par	rts	requ	uired:			
		No.	4	2	of	No.	20	5 of	No	. 59
*	**	**	5	1	44	"	21	2 "	**	60
-	44	"	10	4	**	**	22	2 "	**	62
2	**	44	11	2	**	44	22A	1 "	**	63
1	"	44	12	1	44	44	24	1 "	66	111
1	**	44	15	2	66	44	35	1 "	44	115
2	44	**	15A	21	**	66	37	3 "	**	125
2	44	-64	17	1	66	**	44	2 "	**	126A
1	"	"	19 _B	1	44	"	46			

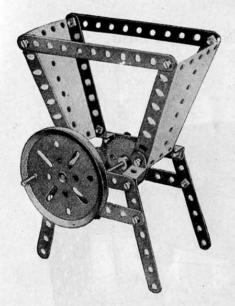
18A

3 " " 126A

Parts required:

6 " "

3 of No. 1



Model No. 313 Coffee Grinder

Parts required:

2 of No. 2 .

6 " " 3

2 " " 4

2 " " 16

1 " " 19

1 " " 26

1 " " 27

16 " " 37

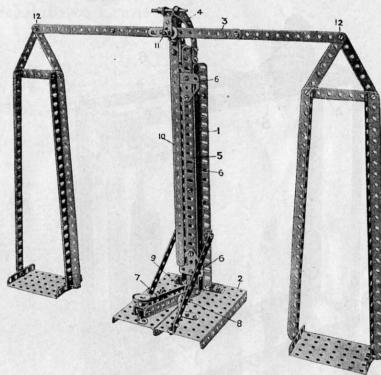
2 " " 54

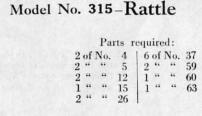
3 " " 59

1 " " 115

4 " " 125

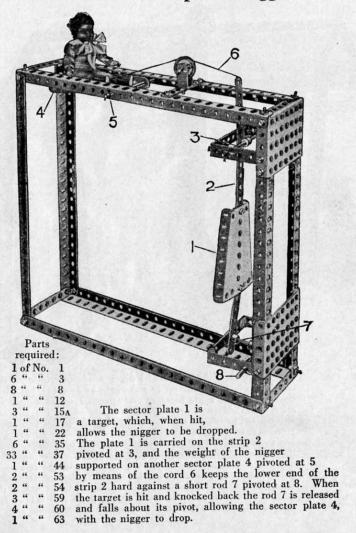
Model No. 314—Demonstration Scales



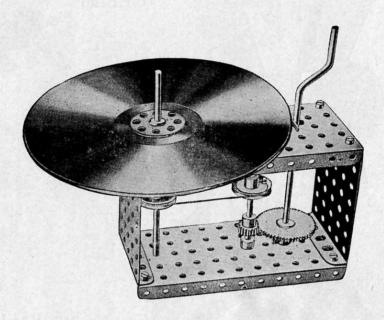


The only feature of this model which needs description is the standard which is built up of two angle girders (1) bolted to the base (2) by angle brackets and spaced apart at the top by a 2½" strip obliquely disposed. The balance lever (3) is pivotally carried in curved strips (4) bolted to the top of two angle girders (5) sliding between the girders (1). The girders (5) are themselves bolted together and in order to guide them as they slide vertically flat trunnions (6) are bolted at the front and rear. The balance is raised by depressing the lever (8) pivoted at 9 and pivotally connected at 11 to the vertically sliding girders (5). The indicator (10) is bolted to a crank at the rear, the boss of which is fitted on the pivot rod (11). The connections at 12 are lock-nutted to allow free action.

Model No. 316-Drop the Nigger



Model No. 317-Newton's Disc

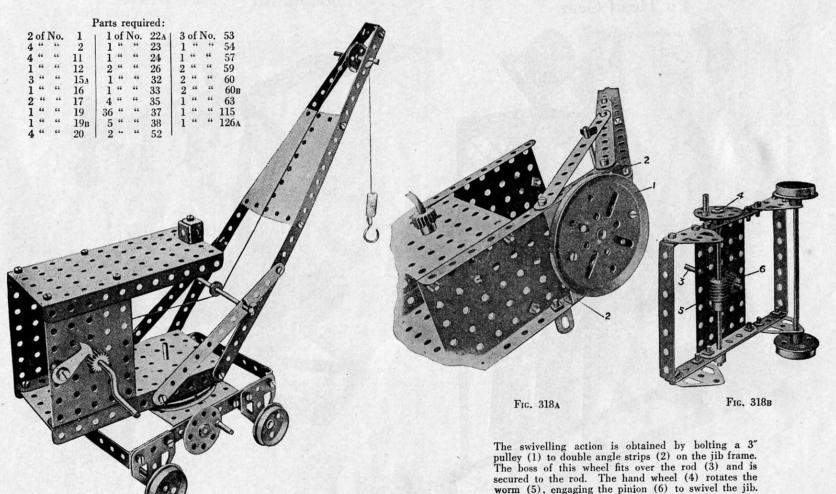


This is a model to show that white light is made up of the three primary colours—red, yellow, blue. Sectors of these three colours are mounted or painted on the disc, which if then quickly rotated, shows as white.

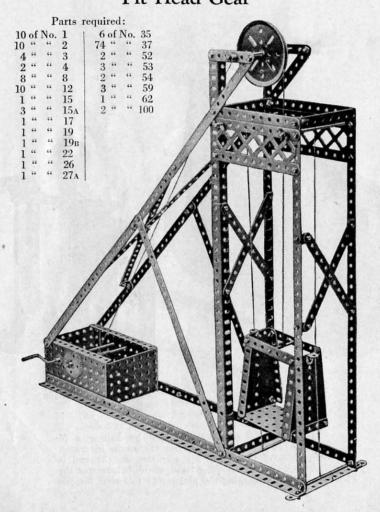
Parts required:

1 of No.	15	1 of No.	24	8 of No.	37
1 " "	15A	1 " "	26	2 " "	52
1 " "	19	1 " "	27A	2 " "	53
2 " "	22	2 " "	35	4 " "	59

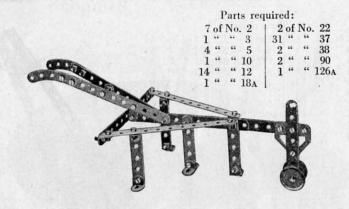
Model No. 318-Railway Breakdown Crane



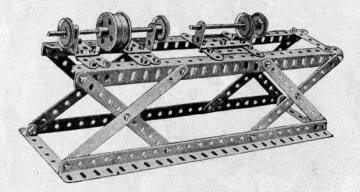
Model No. 319 Pit Head Gear



Model No. 320 Scarifier



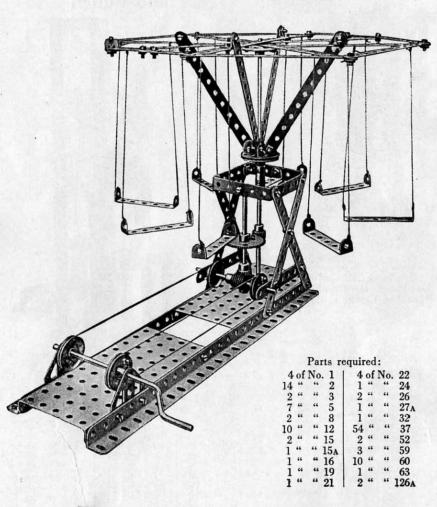
Model No. 321 Lathe



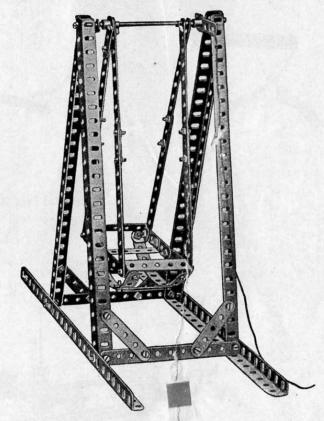
Parts required:

A CLARGE	cquirou.
8 of No. 2	2 of No. 20
10 " " 5	1 " " 22
4 " " 8	41 " " 37
2 " " 12A	1 " " 46
1 " " 15A	2 " " 60
1 " " 16	





Model No. 323 Swing

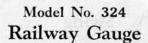


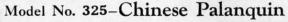
Parts required:

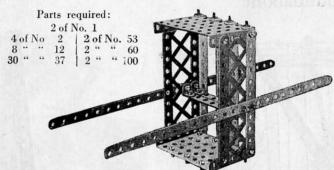
12 of No. 2	1 of No-	15
9 " " 5	2 " "	35
6 " " 8	43 " "	37
2 " " 11	4 " "	60
4 " " 12	2 " "	62

Parts required: 2 of No. 2

4 " " 90 2 " " 126_A

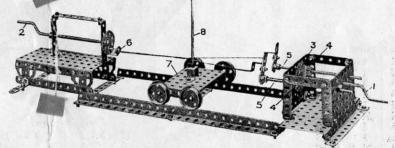






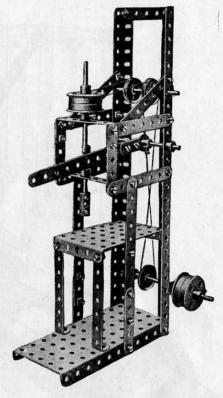
Model No. 327-Wire Rope Maker

The strands are twisted from both ends by the handles (1) and (2) of the fixed parts. The handle (1) rotates through a large gear wheel (3) two pinions (4) on the rods (5) carrying cranks to which the strands are attached. The other ends of the strands are connected to a double bent strip (6) on a bush wheel which is rotated in the opposite direction by a crank handle (2). The carriage (7) runs on rails and the vertical rod (8) is kept just at the formation of the twisted rope and so controls the tightness of the twist.



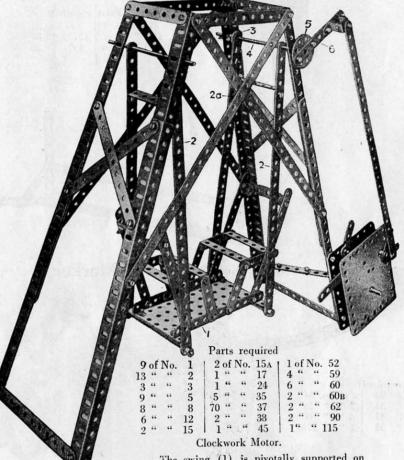
Parts	2 of No. 5	2 of No. 15	1 of No. 24	50 of No. 37	4 of No. 59
required:	2 " " 8	3 " " 15A	2 " " 26	1 " " 45	2 " " - 60
6 of No. 2	3 " " 11	2 " " 19	1 " " 27A	2 " " 52	2 " " 62
1 " " 3	12 " " 12	4 " " 20	3 " " 35	3 " " 53	

Model No. 326 Hand Punch



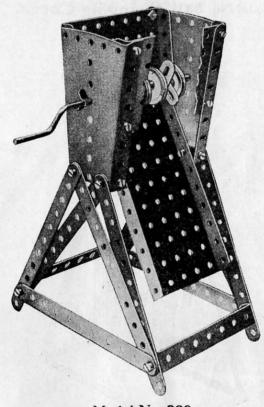
		Parts	require	d:			
3 of	No. 2	4 of	No. 20	1 1	of	No.	53
6 "	" 3	1 "	" 22	4	"	"	59
5 "	" 5	2 "	" 22/	2	"	44	60
2 "	" 8	3 "	" 35		46	44	60B
2 "	" 11	38 "	" 37	1	**	66	62
2 "	" 15	1 "	" 46	1	66	44	63
2 "	" 16	1 "	" 52	16			
				1000000			

Model No. 328-Lawn Swing



The swing (1) is pivotally supported on four strips (2), the far strip (2A) is connected at the top to a crank (3) which is

bolted to a rod (4) and at the front end of this rod is a wheel (5) to which is bolted a strip (6) to the motor spindle-



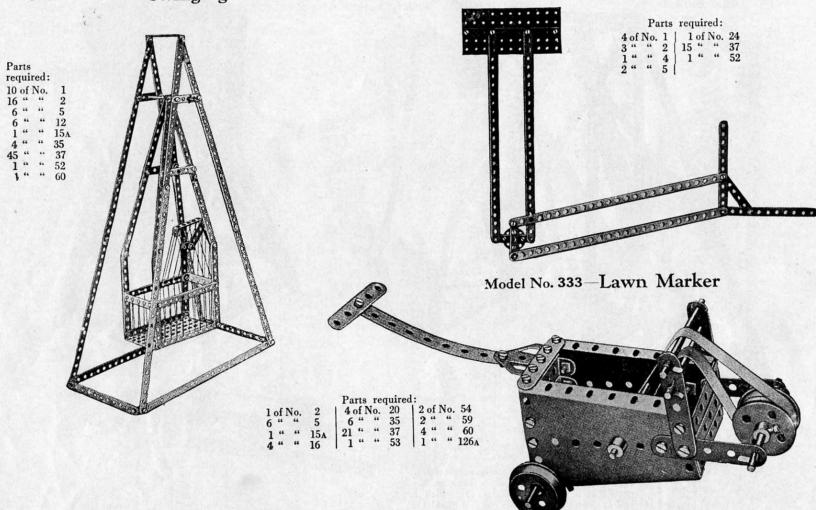
Model No. 329
Oil Cake Chopper

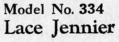
Parts required:

10 of No. 2				20 of No. 37				
4			10	1	44		52	
2	44	**	12	2	"	**	53	
1	**		19	2	**	44	54	
4	"	44	22	2	-	**	60B	
2	44	44	35					

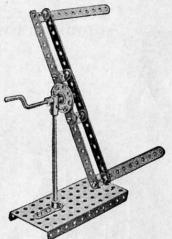


Model No. 332—Drafting Machine

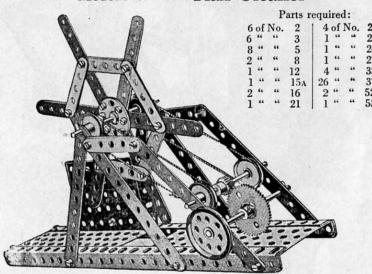


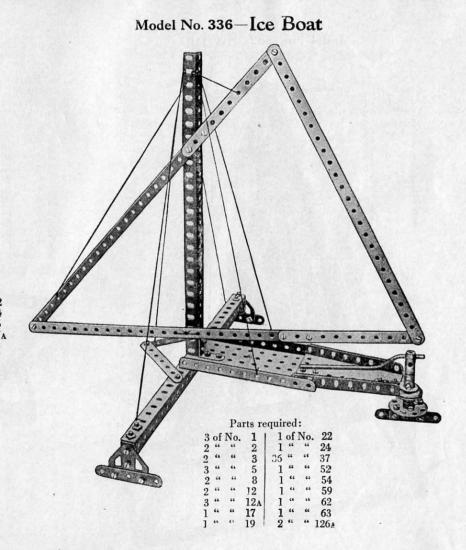


Parts
required:
8 of No. 2
4 " " 11
1 " " 15
1 " " 19
1 " " 24
14 " " 37
1 " " 52
1 " " 59
1 " " 62
1 " " 63



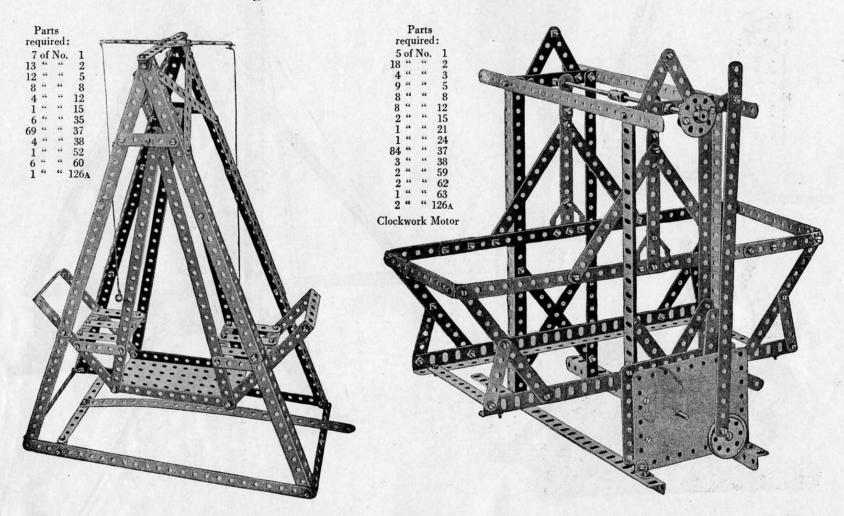
Model No. 335-Flax Cleaner



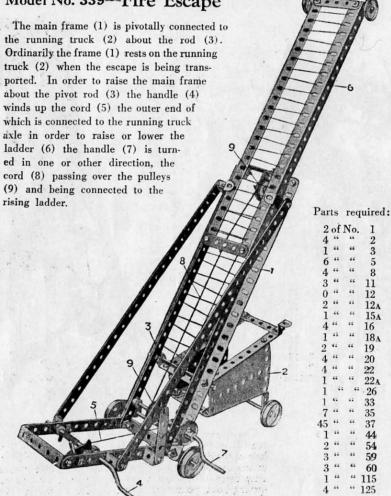


Model No. 337-Swing

Model No. 338-Automatic Swing Boat

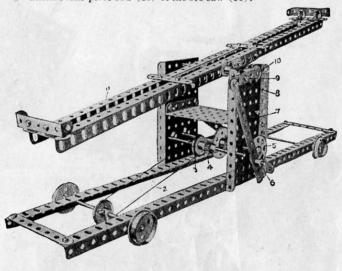


Model No. 339-Fire Escape



Model No. 340-Actuated See-Saw

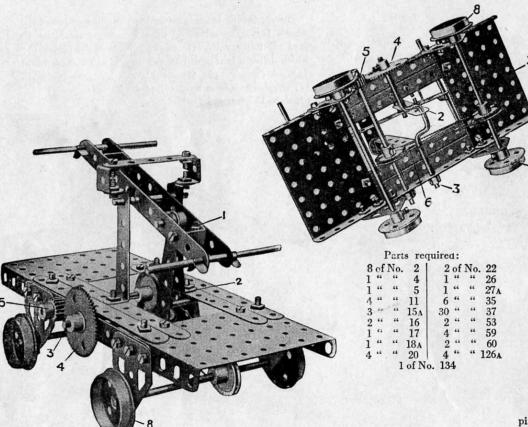
The see-sawing is actuated by the travelling action of the wheels (1). The spindle of the wheels is connected by the cord (2) to the pulley (3) on the spindle of the pinion (4) which drives a gear wheel on the spindle of the bush wheel (5). A threaded pin (6) on this wheel engages the strip (7) coupled to a lever strip (8) pivoted at (9) which rocks pivot rod (10) of the see-saw (11).



Parts required:

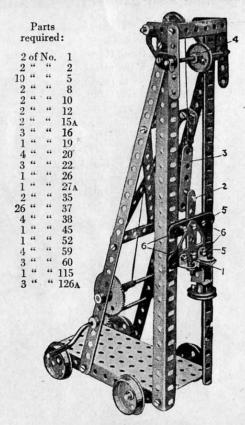
		- The state of the	
3 of No. 2	2 of No. 15	1 of No. 26	1 of No. 53
2 " " 3	3 " " 15A	1 " " 27A	3 " " 59
5 " " 5	4 " " 20	4 " " 35	2 " " 60
8 " " 8	2 " " 22	36 " " 37	2 " " 62
4 ": " 12	1 " " 24	2 ". " 52	1 " " 115

Model No. 341—Hand Car



The car is caused to travel by working the rocking lever (1) which is connected by a strip (2) to a crank shaft (3) and a gear wheel (4) meshing with a pinion (5) on a rod coupled by a cord (6) to an axle rod (7) of the travelling wheels (8).

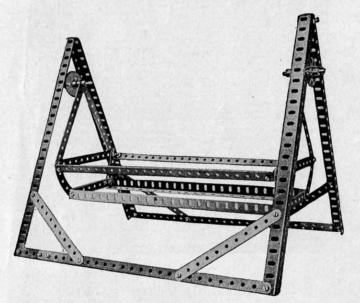
Model No. 342-Pile Driver



The driving head (1) is raised by means of a threaded pin (2) on two 2½" strips (3), the pin engaging in the first hole of the driving head. As the head is raised, the strip (3) makes contact with a pulley (4) and the latter pushes the strip rearwardly, disengaging the pin from the hole on the driving head, permitting it to fall. The cross strips (5) of the driving head are duplicated behind, spacing washers being inserted between them on the bolts (6) to allow free movement up and down the guide girders.

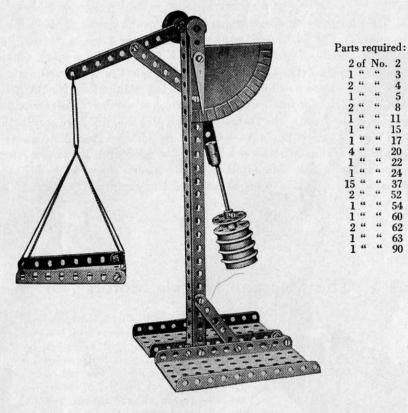
Model No. 343-Swing Cot

Model No. 344-Scales





	_			-		
4 of	No.	1	1	of	No.	27A
10 "	66.	2	42	"	44	37
	"	5	4	66	"	38
6 "	**	8	4	"	"	59
4 "	**	12	2	"	. "	60в
2 "	"	17	4	**	66	90
1 "	**	24				



HOW TO CONTINUE

This completes the Models which may be made with MECCANO Outfit No. 3. The next Models are a little more advanced, requiring a number of extra parts to construct them. The necessary parts are all contained in a No. 3A Accessory Outfit (see next page).

The Meccano Accessory Outfits

The illustration at the right shows a specimen of one of the Meccano Accessory outfits. As we have already explained, these connect the main outfits, making it possible for a boy to commence with one of the small outfits and build it up by easy stages until he has the equivalent of the largest outfit made. For example, if you now have a No. 3 outfit, the addition of a No. 3A Accessory outfit will convert it into a No. 4, with which a number of bigger and better models can be built. The further addition of a No. 4A Accessory outfit will build your equipment into a No. 5 Outfit. By adding a No. 5A Accessory outfit you will have all the parts included in the No. 6, which is the largest one made. You will then be able to build all of the 325 models shown in the big complete manual and also be able to invent new models. For prices see page 63.

Accessory Outfits do not contain Motors.

The Meccano Electric Motors



How splendid it is, after spending hours in building a model, to be able to set it in motion with an electric motor, just as do real engineers! The Meccano Electric motors are made especially for this purpose and may be run from three dry batteries or direct from the house current with the Meccano Transformer. They are designed to be built into Meccano models and are the most powerful toy motors made. Two types are available—the E-1, a one way motor which is fitted with

a pulley for belt drive and a pinion for gears; and the E-2, which is reversible and includes extra gears. For prices see page 63.



The Meccano Clockwork Motor



This motor serves the same purpose as the electric motors and is a fine piece of mechanism—simple, powerful and reliable. It is provided with the standard Meccano equidistant holes and can be built right into the model and form a rigid part of it. A starting and stopping lever is provided, and the motor is also fitted with reverse mechanism. For price see page 63.

The Meccano Transformer

Specially constructed to operate Meccano Electric Motors from the house current. A safe and reliable instrument that eliminates the expense of batteries. For 110 volts, 60 cycle alternating current only. For price see page 63.

A Few Choice Meccano Models

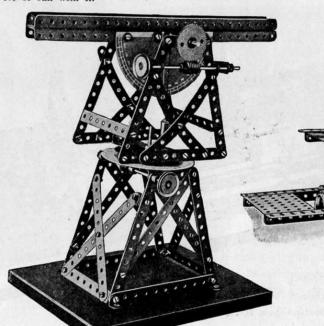
On this and the following pages we illustrate some of the larger models which can be built with Meccano. Each one of these is a perfect working model, accurate in every detail. They represent the genius of generations of engineering experts, and will give any boy who builds them many hours of enjoyment in addition to a sound knowledge of the construction and operation of the actual mechanisms.

Hydraulic Crane

This model illustrates the operation of a Hydraulic Crane, in which great power is utilized to force two or more sets of pulley wheels apart; it is so arranged that a great movement of the load is obtained by a small movement of the operating power.

Theodolite

A Theodolite is an instrument with which angles and inclinations can be accurately and rapidly determined and distances calculated. It is used by surveyors and civil engineers for measuring plots of land, etc. The model Theodoite illustrated is easy to build and any boy can have a lot of fun with it.

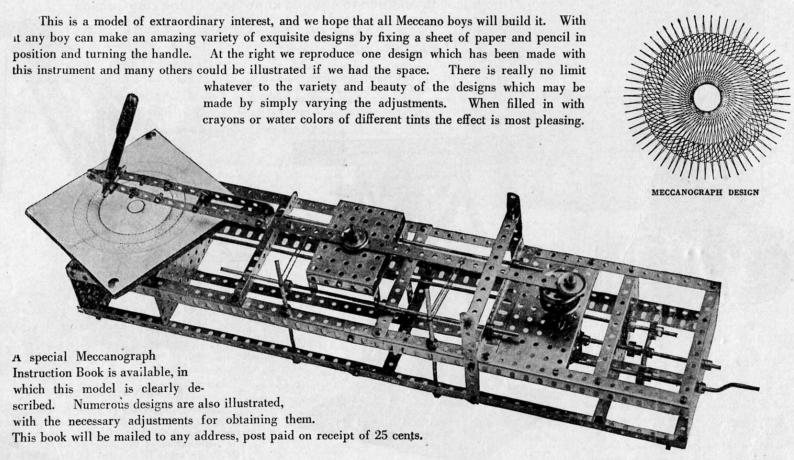


Revolving Crane

Another type of crane in which the movements of both the hoisting pulley and the jib are controlled by one handle. Clutches are provided for engaging either the pulley or jib gears, and the entire crane is mounted on four wheels at right angles to each other, and they may run on rails or on a flat surface to turn the crane around.

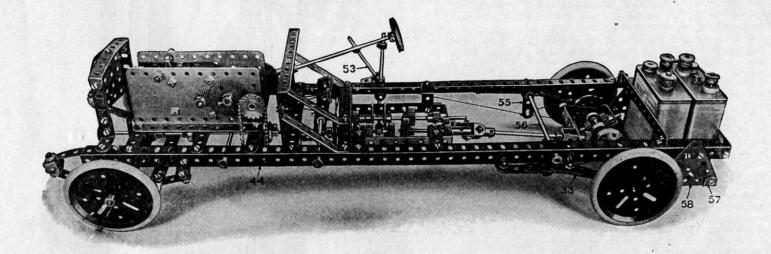
The "Meccanograph" Designing Machine

Special Model No. 708



The Meccano Auto Chassis

Special Model No. 701



The Meccano Auto Chassis is a model of exceptional interest as it provides a complete demonstration of a real Auto Chassis. It is equipped with a perfect differential, worm steering mechanism and a transmission giving two speeds forward and reverse. It is underslung and provided with semi-elliptic front springs and cantilever rear springs. In order to make its construction quite clear a number of sectional photographs and drawings are necessary. These are all contained on a separate sheet, printed on art paper, which may be purchased from Meccano Company Inc., Elizabeth, N. J. price 10 cents postpaid.

The New Meccano Loom

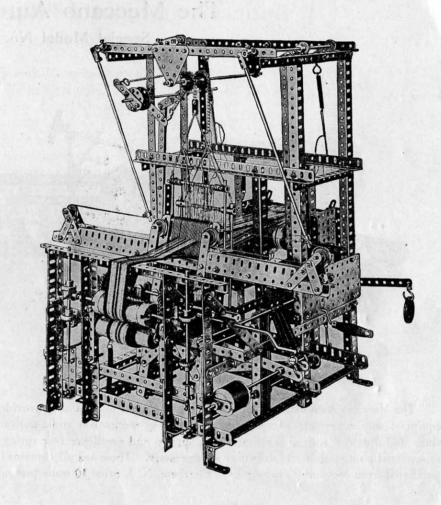
No model could better illustrate the wonderful genius of the Meccano system than this new model of the Meccano Loom. In this model every technical operation in the process of weaving is perfectly carried out in miniature, exactly as in every-day practice in actual manufacture. The loom is operated simply by turning a crank handle, which sets in motion all the necessary operations.

A woven fabric is composed of two elements, the "warp" or longitudinal threads, and the "weft," or cross threads. The inter-weaving of the warp by the weft is called the "picking motion," and this is effected by the passing of a thread from the shuttle which flies from one side of the loom to the other, and in doing so, passes each time between the threads of the warp.

Before cloth can be woven in a loom, the warp threads must be wound evenly and in their correct places upon a roller, known as the "weaver's beam." This operation is carried out by a Beaming Frame, which is the subject of a special Meccano model. From the beam the warp threads are passed through the "healds," which consist of a number of wires called "leaches," each having in its center an eye or "mail," which to a certain extent resembles the eye of a needle. The healds are assembled vertically in two or more frames, so arranged that when one heald frame is raised, the other is pulled down. The healds thus serve to lift and depress the threads of the warp, so that the shuttle may be passed between them and drag the welt along after it.

The shuttle moves along the "slay" which supports and guides it as it is jerked from one side of the loom to the other, by means of the "picking stick," suspended from above. Attached to the slay is the "reed," formed by a number of strips spaced with washers, and this moves forward with the slay after every crossing of the warp by the weft. This action presses the last strand of the weft firmly into place in the finished fabric.

Full instructions for building the new Meccano Loom are given in a beautifully illustrated sheet, on art paper, which shows not only the complete model, but also sectional photographs of all essential details. The leaflet also gives full instructions for building a beaming frame. The price of this instruction leaflet is 10 cents, postpaid.



MECCANO PRICE LIST

3.00

MECCANO OUTFITS

No. 0

Meccano	Outfit\$	2.00
Meccano	Outnt	2.00

" 1x " (with motor) 5.00 " 2 " " 6.00

" 5 " " " 20.00 " 5x* " " " 25.00

" 6 " " " " 40.00

*The No. 5x is a special Presentation Outfit. It contains all the parts in the No. 5 Outfit, also a Transformer and a number of new parts not included in any of the other Meccano Outfits.

ACCESSORY OUTFITS

No. 1a Accessory Outfit 3.00
(Converts a No. 1 Outfit into a No. 2)

No. 4a Accessory Outfit 5.00 (Converts a No. 4 Outfit into a No. 5)

No. 5a Accessory Outfit 20.00 (Converts a No. 5 Outfit into a No. 6)

Accessory Outfits do not contain Motors.

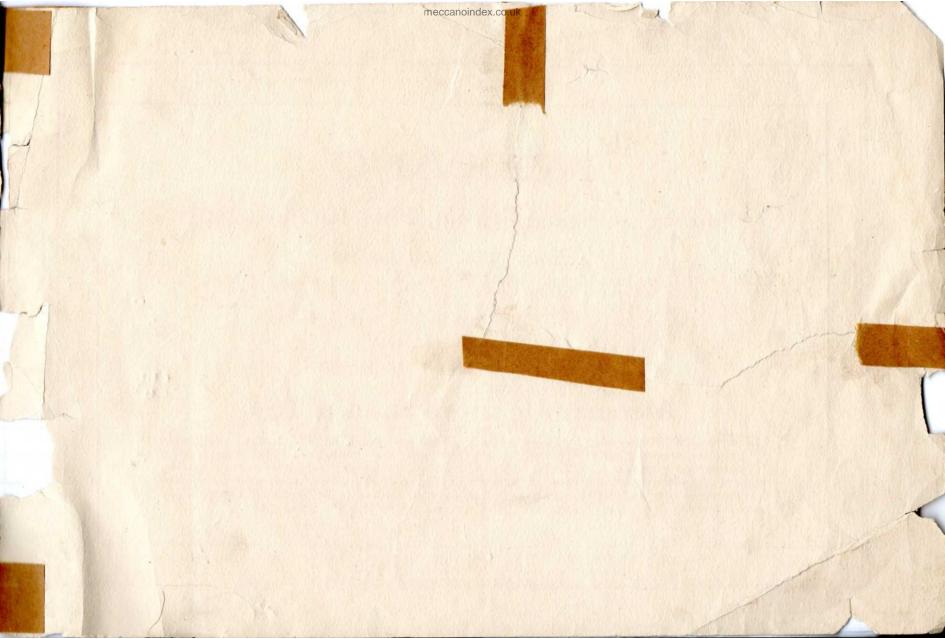
Meccano Motors and Transformer

E1	Meccano	Electric	Motor,-	-(one-way)\$	2.50	5
E2	"	**	"	(reversing)	3.50	7

Contents of Outfits

9	40 8 4 4 4 4 4 5 5 5 5 6 4 6 6 6 6 6 6 6 6 6
2x	487774003 34880 3480448881949619 499191998 1882
5.4	######################################
20	422554003 34500 340040000 3400 3 4 30000000 5 5 5 5 5 5 5 5
44	4\(\pi_\alpha\alp
4	#80048 0100 5148889 01480498010 1409 01 01 11-101098 - 5514 11-09 014801 051949014 1 01 01441
34	44 300 4 3 3 3 3 3 3 1 4
60	5x50xx 0x x4xx ux4xxxx+ -4xx- - x - - - - x - x - x - 45x x - 4 - x - x -
21	440 4 20 20
63	[2국의 집 의 4 ∞ 4 집의 의 대 4 기의 다 4 기
14	200-10 014 0040 01-1
-	40-10 000 000- 40- -
VO	401
0	4 0 nux 4 -
DESCRIPTION OF PART	Angle Girders, 12] Angle Girders, 12] Fit Brackets Double Brackets Angle Brackets Engle B

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M_CCANO

Hornby's Original System, First Patented 1901

PATENTED IN THE UNITED STATES

Jan. 16, 1906	Jan. 4, 1916	Oct. 24, 1916	Oct. 19, 1920
Nov. 18, 1913	Feb. 15, 1916	Oct. 9, 1917	Dec. 14, 1920
Nov. 23, 1915	Aug. 1, 1916	Dec. 24, 1918	Apr. 11, 1922
Dec. 21, 1915	Aug. 29, 1916	Feb. 11, 1919	May 15, 1923

Design Parent July 4, 1916

PATENTED THROUGHOUT THE WORLD

Meccano is more than a Toy

T is important to remember that when a boy is playing with MECCANO he is using engineering parts in miniature, and that these parts act in precisely the same way as do the corresponding engineering elements in actual practice. No other system of model construction can be correct, and other toys which attempt the same object by other methods must avail themselves of constructive elements which are not correct engineering elements. Consequently, though a boy may succeed in building playthings with them, they are merely toys and nothing else.