



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

INSTRUCTIONS FOR OUTFIT No. 0.

Price 25 Cents

MECCANO COMPANY

INCORPORATED

No. 22.0

ELIZABETH,

NEW JERSEY

AMERICAN EDITION

A TALK WITH NEW MECCANO BOYS



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

A 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 obtain may hours of fun.

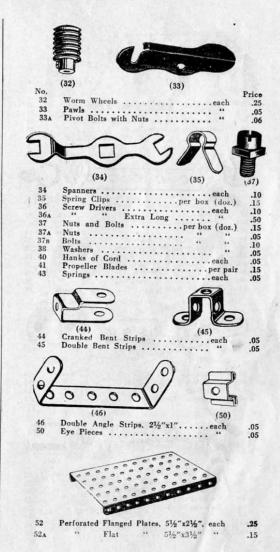
Meccano is sold in different sized outfits, (see page 18). All parts are of the same high quality and finish, the larger outfits containing a greater quantity and variety of parts.

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 build up to the largest outfit.

Particulars and Prices of Meccano Parts

	(00	0	0	0)	
	-					
No.			101/#		1/	Price
1	Perfora	ted Strips	, 121/2"	long.	1/2	
14	"		91/2"			.0.
1B	**	**	7/2			.01
2	**	**	51/2"			25
2A 3	**	**	4½" 3½"			
4	**	**	3"			" .20
5	44	**	21/2"	**		" .15
6	**	**	2"	"		" .15
64			11/2"	" .		15
		8	0	0:0		
		0		0 0	7	
		10	U	U	,	
7	Angle C	Girders, 24	1/2" lor	ıg		each .23
7A	**	" 18	1/2" "			.20
8	**	" 12	1/2" "		1/2	doz60
84	"		1/2" "			" .55
8B		7	½" "			.50
9						
94			72			40
98 9c		" 3	/2			35
9c	**	0	½" "			30
9E	**	" 2	,			" .25
9F	"		1/2" "			.25
-		No		0)	0
(0	9)	6	9	0		10
(10)	(11)		(12)	0	200
10	Flat Br	ackets			1/2	(12A) doz05
11		Brackets	:::::		ea	
12	Angle E		/2"x1/2"		do	
12A	Angle I	Brackets,	l"xl"	• • • • • •	ea	h .05
	-	-	2 10 50		W. 07	The state of
			-			
	Axle Ro	ds, 111/2"	long.		ea	
13	** **		** .			.10
13 13 _A	44 44	0	" .		"	.05
13A 14					"	.05
13A 14 15						
13A 14 15 15A		41/2"				
13A 14 15 15A 16		31/2"			"	.05
13A 14 15 15A 16 16A		21/2"			:	.05
13A 14 15 15A 16 16A 17		21/2"	::		"	.05 .03 .02
13A 14 15 15A 16 16A		2½" 2" 1½"	::		:	.05 .03 .02 .02

()		(20)	
No. 19a 20	Wheels	(19A) , 3" dian i Wheel	n., witi	h set so	rews	. each	Price .20 .25
Co	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		I				
19B 20A 21 22 23A 22A 23	(19a) 3" dia. 2" " 1½" " 1½" " 1½" " 1½" "	with cen	ulley		t screw	(22A) , each	.25 .20 .20 .10 .10 .05
24 25	(24) Bush W	heels Wheels,	(25%" dia		((27) .each	.15
26			(30)			(31)	115
27 27 A 28 29 30 31	Contrate	to gear v	1½″ d ¾″	pinion		. each	.30 .35 .50 .30 .55



Particulars and Prices of Meccano Parts-(Continued)



	6	0	0	0	0					0			
	0	,	0	0	0				/	000	1		
	0	0	0	0	0				10	0	10		
	1	^	0	0	0			1	0	0	0	1	
	10	0						6	0	0	00	10	
	6	0	0	0	0)			-	-	-	_		
No.												P	rice
70	F	lat	Plat	es, S	1/2"	21/2"					each		.15
72 76	7	rin		ar F		x21/2		• • • •			**		.05
77					**	1"					"		.04
(m	m	m	m	m	IIII		m		mm)
79	5	cre	wed	Rod	ls, 8'						each		.25
79A		**		"	6"						**		.20
80 80 _A					5'			• • •			**		.15
80B				**		1/2"	· · ·		:::				.12
81		**		"	2'						"		.10
82					1'	• • •	• • •	• • •	• • •	• • • •			.05
			-	-	_		1		-		MET		
		1	1)	0		9	(,	0	•		
		-	(_	_		-		_	~)		
89	-	Curv	ed S	Strip	s. 5 ¹	4"				\sim	each		.05
90		**		**	21	2"					1/2 d		.25
	0	0	9	0	-	0	2	-	~	~	2	-	
7-427		II,	II)	IL,	II.	II,	II.		[2		J	0	
	9	0	0	0	~	0	9	•	,	_	~		
94		Spro	cket	C	hain					р	er ya	rd	.25
					6	1		-					
					S				•				
					ζ.		W		9				
					7	~	S	251					
						40,							
95		Spre	cke	W	heels	1"	dian	n			each		.25
96		P.				1"			• • •	• • • •			.20
_													7
5	Ċ.	Ċ	Š		*	7	7.5	73	7 ~	٠,٠	7	7	5
(~	2	V	V 2	$\langle 2 \rangle$	$\langle Q_2 \rangle$	S		\sim		2	S	2
F-	•	• •	• •	•	•		• •	• •	• •	• •	• •	• •	3
97	1	Brac	ed (irde	ers.	31/6"	lon	g.			1/2 d	oz.	.20
98		**	-	**		21/2"	**				**		.15
99		**		**		21/2"	**				**		.75
99A 100		**		**		91/2"	**				**		.60
101	1	Heal	ds,	for :	Loor						doz.		.45
102					Str						each		.05

No.		Price
103	Flat Girders, 51/2" long	.10
103A	" " 9½" " "	.12
103в	" " 12½" " "	.15
103c	" " 4½" "	.10
103p	3/2	.10
103E 103F	3	.08
103F	" " 2½" "	.08
103н	11/2" "	.06
104	Shuttles, for Looms	1.20
105	Reed Hooks, for Looms "	.10
	Rollers for Looms	.10
106	Wooden Rollers "	.40
106A	Sand Rollers	.45
107	Tables for Designing Machines "	.25
,		\
		1
		\neg 1
		-1
	00/	1
	0/)/
1		/
•		
	(108) (109)	
108		
	Architraveseach	
109	Face Plates, 2½" diam	
109		
109	Face Plates, 2½" diam "	
109		
109	Face Plates, 2½" diam "	
(Face Plates, 2½" diam) .20
1109 1110 1111	Face Plates, 2½" diam. " O O O O O O Rack Strips, 3½"	.10
110	Face Plates, 2½" diam	.10
110	Face Plates, 2½" diam. " O O O O O O Rack Strips, 3½"	.10
110	Face Plates, 2½" diam. " O O O O O O Rack Strips, 3½"	.10
110	Face Plates, 2½" diam. " O O O O O O Rack Strips, 3½"	.10
110	Face Plates, 2½" diam. " O O O O O O Rack Strips, 3½"	.10
110	Face Plates, 2½" diam. " O O O O O O Rack Strips, 3½"	.10
110	Face Plates, 2½" diam. " O O O O O O Rack Strips, 3½"	.10
110	Rack Strips, 3½"	.100
110 111	Rack Strips, 3½"	.05
1110 1111	Rack Strips, 3½" each Bolts, ¾" each Double Angle Strips, 2½" each	.10
1110 1111	Rack Strips, 3½"	.10
1110 1111	Rack Strips, 3½"	.10
1110 1111	Rack Strips, 3½"	.10
1110 1111	Rack Strips, 3½"	.10
1110 1111	Rack Strips, 3½"	.10
110 111	Rack Strips, 3½"	.10

Particulars and Prices of Meccano Parts—(Continued)

(114) (115) No. 114 Hinges	each .05
121 Train Couplings	each .15 .½ doz30 each .50
6.00 G	60
124 Reversed Angle Brackets, 1" 125 " ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	½ doz25
(I)	
(126) 126 Trunnions	(126A) each .15 " .06
	0
(127) (1 127 Simple Bell Cranks	28)each .10 " .15

Guaran	(129)	V (<u> </u>	(130)	9
No. 129 130	Rack Segm Triple Thr	ents, 3" d	iam	each	Price .20 .45
		60	了。 ?		
133 135	Corner Bra Theodolite	Protracte	ors	each	.10 .06
	302)	3	(301)		103)
301 302 303	Bobbins Insulating Insulating			each	.10 loz15 .08
((304)		((306)	
304 305 306	6 B. A. Scr 6 B. A. Nut Terminals			per d	loz, .15 .10 .05
5				- CONTRACT	
	(307)			(308)	
307 308	Silver-tippe Pole Piece	d Contac	t-screws .	each	.12 .10



Trucks and Luggage Carts

Model No. 1 Flat Truck



Parts

Truck with Sides

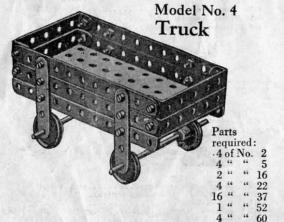
Model No. 2

Parts required:

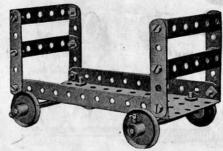
4 of No. 2 | 12 of No. 37 4 " " 5 | 1 " " 52 2 " " 16 | 4 " " 60

Model No. 3 Luggage Cart

> Parts required: 2 of No. 2 | 9 of No. 37 1 " " 16 | 1 " " 44



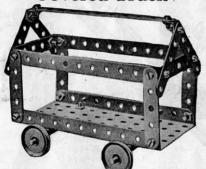
Model No. 5 Luggage Truck



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



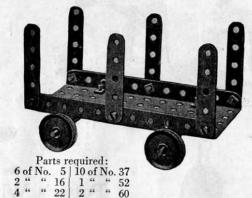
Model No. 7 Covered Truck



Parts required: 4 of No. 22 3 of No. 2 | 2 of No. 12 | 20 " " 37 8 " " 5 | 2 " " 16 | 1 " " 52

Trucks and Luggage Carts (Continued)

Model No. 8-Timber Truck



Model No. 11-Timber Truck



Model No. 13

Coster's

Barrow

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

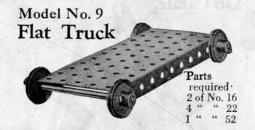
Parts required:

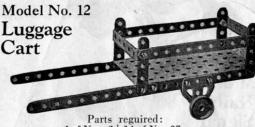
2 of No. 16 | 4 of No. 37
2 " 17 | 1 " " 52
4 " " 22 | 2 " " 60

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

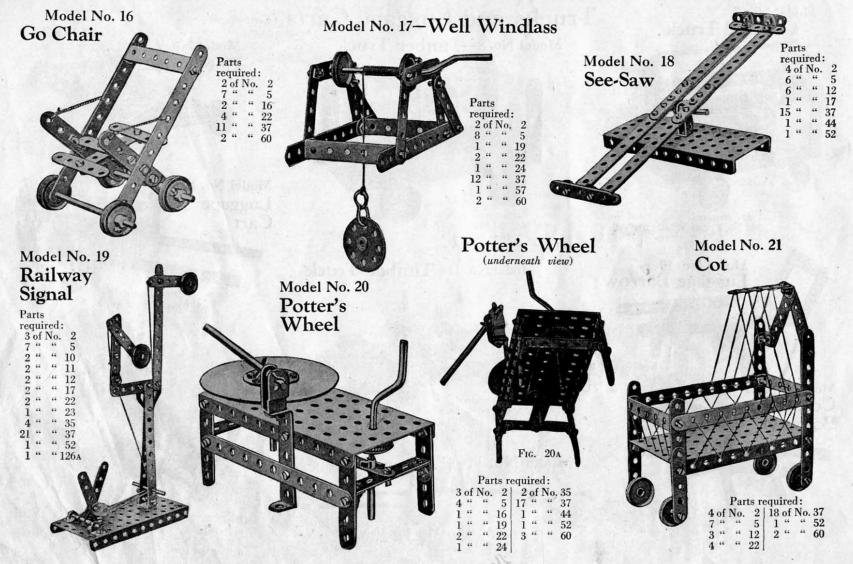




4 of No. 2 | 14 of No. 37 4 " 5 | 1 " 52 1 " 16 | 2 " 60 2 " 22 | 2 " 126a



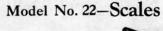
Parts | 1 of No. 16 | 13 of No. 37 required: 2 " " 17 | 1 " " 44 2 of No. 2 | 3 " " 22 | 1 " " 52 6 " " 5 | 4 " " 35 | 3 " " 60

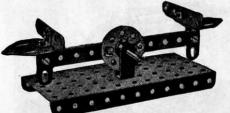


Model No. 23

Gangway

These Models can be made with MECCANO Outfit No. 0





Parts	9	of !	No.	37			
1 of N	o. 2	2 of 1	No. 1	2 1	66	66	44
2 "	" 5	1 "	" 1	7 1	"	"	52
2 "	" 10	1 "	" 2	4 2	66		126A

Model No. 25-Tower Wagon

Parts required: 4 of No. 2 | 1 of No. 22

4		**	5	1	**	**	23	
1	**	44	10	4	"	**	23 35 37	
1	. 66	66	19	12	44	66	27	

1 " " 16 1 " " 52 2 of No. 60 1 " " 19 1 " " 54 2 " " 126A

Model No. 26
Pulley Shaft
Parts

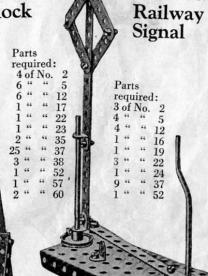
required:
4 of No. 2
4 " " 12
1 " " 16
4 " " 22
10 " " 37
2 " " 38

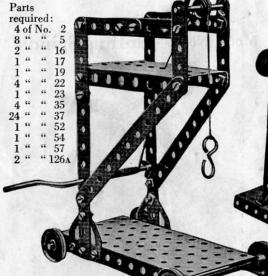
Model No. 24 Level Crossing Barrier

	Pa			
			red:	
-	3	of	No.	2
200	2	44	**	5
	1	**	**	17
9	4	**	64	22
	1	**	**	24
	10	66	44	37
	1	66	66	52
	2	66	44	60

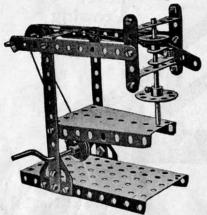
Model No. 28

Model No. 27 Hoisting Block



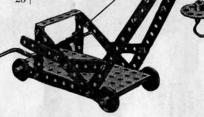


Model No. 29-Drilling Machine

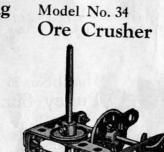


	rts		
rec	Jui	red	:
4	of	No.	2
3	44	44	5
1 2	**	44	11
2	"	66	16
1	44	"	19
4	66	**	22
1	44	66	24
4	**	**	35
19	**	**	37
1	"	**	44
1	66	66	52
1	**	**	54
3	**	"	60
2	66	"1	26A

Model No. 30-Jib Crane Parts required: 4 of No. 2 | 1 of No. 24

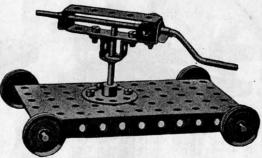


Model No. 33-Swing



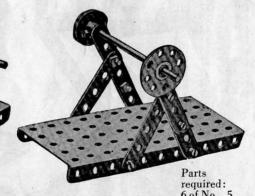
		Par	ts re	equi	ire	d:	
6	of	No.	5	1	of	No.	24
2	44	44	10	2	**	44	35
1	**	44	16	10	**	**	37
1	66	44	19	1	44	66.	52
-	126	40	-	-	2.00		

Model No. 31-Rock Drill



Parts	1 of No. 19 4 " " 22	4 of No. 37
required:	4 " " 22	1 " " 52
2 of No. 1	5 1 " " 24	2 " " 60
1 " " 1	7 2 " " 35	2 " "125

Model No. 35-Buffing Spindle



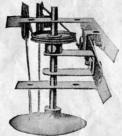
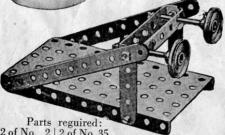
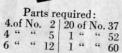


Fig. 29A Detail of Drilling Machine.

Model No. 32 **Buffers**



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





Model No. 36-Telpher Span

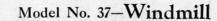
Many hours of enjoyment may be obtained from this model. The illustration shows exactly how it is worked. The cords may be made to any length, and the load carried from one side of the room to the other. In order to give a better grip, the operating cord should be wound twice round the crank handle pulley. 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.

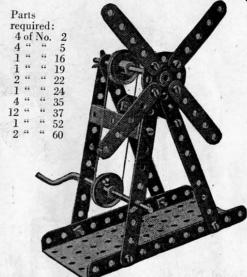


1 " " 52

1 " " 54

2 " " 60





Model No. 38

2	of	No	. 2	18	"	66	35
4	**	"	12	4	"	44	38
2	"	"	16	1	24	**	44
2 2 1	**	44	17	1	66	44	52
1	"	44	19	1	44	"	57
4	44	**	22	2	**	44	60
1	**	66	23	1	**	"	125

Model No. 41 Quick-Firing Gun

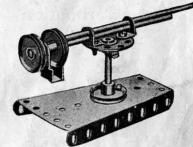


Parts required: 2 of No. 2

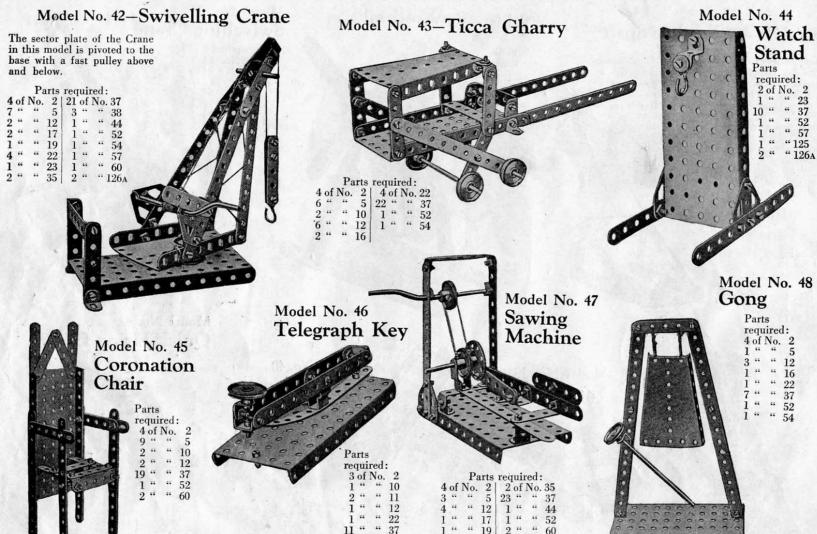
Model No. 39

Furrow Roller

1 " " 16 4 " " 22 4 " " 37 2 " " 60 2 " " 1264 Parts required:
4 of No. 2 | 4 of No. 22
7 " " 5 | 19 " " 37
2 " " 11 | 1 " " 44
2 " " 16 | 3 " " 60
1 " " 17



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



2 " " 22 1 " " 24

Model No. 49 Spinning Top

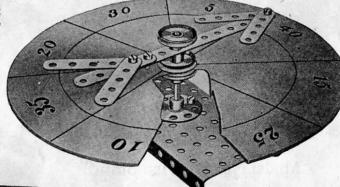
Parts required: 1 of No. 17 1 " " 22 1 " " 24

Model No.52

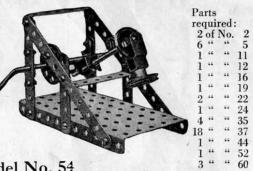
Punching Machine

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



Model No. 54 Stamping Machine

Cut out a circular piece of cardboard and mark as shown to form scoring board. This is clamped between two 1" pulley wheels. The pointer revolves freely on the upright spindle and is held in position by another 1" pulley wheel.

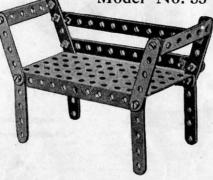


required:
4 of No. 2
2 " " 5
1 " " 16
4 " " 22
1 " " 24
16 " " 37
1 " " 52

1 " " 24 16 " " 37 1 " " 52 4 " " 60

Parts

Model No. 53-Settee



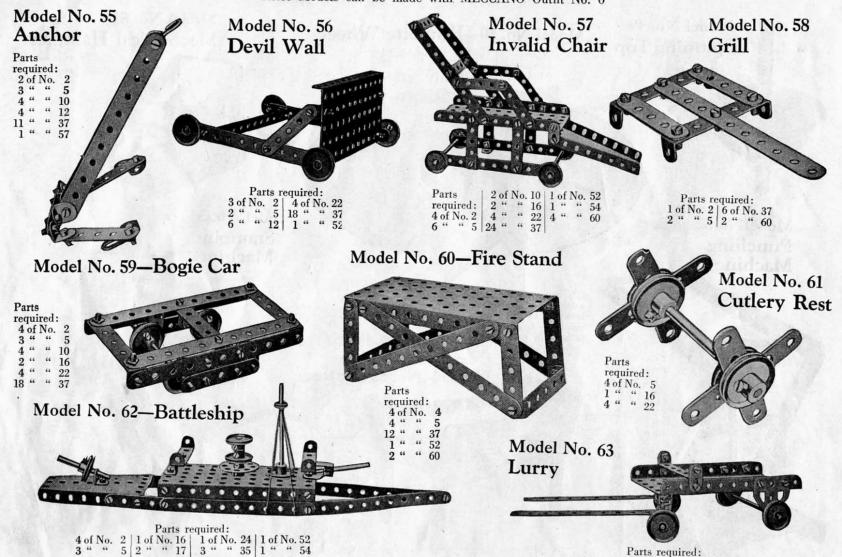
Parts required: 2 of No. 2 8 " " 5 3 " " 10 15 " " 37

9 " " 60

4 of No. 2 4 " " 5 1 " " 16 1 " " 19 4 " " 22 1 " " 24 2 " " 35

Parts required:

4 " " 60 2 " "126A



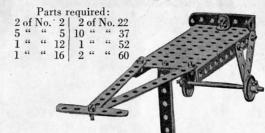
4 " " 10 | 4 " " 22 | 19 " " 37 | 2 " " 60 | 1 " " 12 | 1 " " 23 | 1 " " 44 | 1 " " 125

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

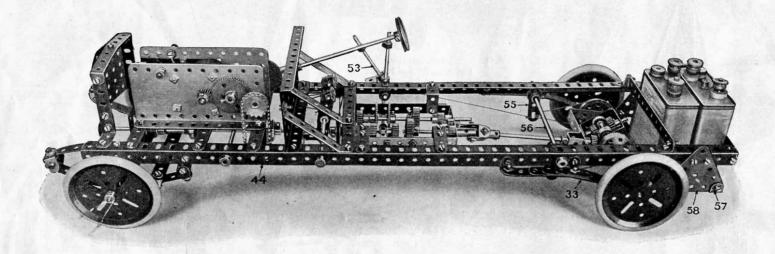
This completes the Models which may be made with MECCANO Outfit No. 0. The next Models are a little more advanced, requiring a number of extra parts to construct them. The necessary parts are all contained in a No. 0A Accessory Outfit, the price of which will be found in the list at the end of the Manual.

Model No. 70-Pen Rack



The Meccano Auto Chassis

Special Model No. 701



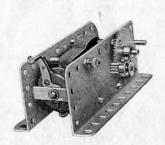
The Meccano Auto Chassis is a model of exceptional interest as it provides a complete demonstration of a real Auto Chassis. It is equipped with a perfect differential, worm steering mechanism and a transmission giving two speeds forward and reverse. It is underslung and provided with semi-elliptic front 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 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 18

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 18.



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 18.

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 18.

MECCANO PRICE LIST

MECCANO OUTFITS

No.	0	Meccano	Outfi	t		9	2.00
"	1	44	44				3.00
"	1x	"	- 44	(with	motor	·)	5.00
. 46	2	"	66			<i>34.8</i> 4	6.00
- "	2x	44	"	(with	motor	·)	8.50
44	3	44	66				9.00
"	3x	44	66	(with	motor	·)	11.50
"	4	"	66	"	- 44		15.00
66	5	66	66	"	44		20.00
"	5x*	"	66	"	"	120	25.00
"	6		"	66	66		10.00

*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

	ACCESSORT OUTFITS	
No. 0A	Accessory Outfit	\$ 1.25
	(Converts a No. 0 Outfit into a No. 1)	
No. 1A	Accessory Outfit	3.00
	(Converts a No. 1 Outfit into a No. 2)	
No. 2A	Accessory Outfit	3.00
	(Converts a No. 2 Outfit into a No. 3)	
No. 3A	Accessory Outfit	6.00
	(Converts a No. 3 Outfit into a No. 4)	
No. 4A	Accessory Outfit	5.00
	(Converts a No. 5 Outfit into a No. 6)	
No. 5A	Accessory Outfit	20.00
	(Converts a No. 5 Outfit into a No. 6)	

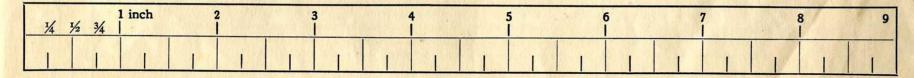
Accessory Outfits do not contain Motors.

Meccano Motors and Transformer

El	Meccan	o Electric	Motor,	—(one-way)	2.50	S1 Meccano Clockwork Motor, (reversing)	
E2	"		44	(reversing)	3.50	Type B Transformer,(for 110v. 60c. A.C. only) 2.50	

		CC	ONTENTS OF No. 0 OUTFIT		
No.	Quantity	No.	Quantity	No.	Quantity
2.	5½" Perforated Strips 4	22.	1" Pulley Wheels (with Set-screw) 4	44.	Cranked Bent Strip 1
	2½" " " 9		1/2" " Wheel (without Set-screw) 1		
10.	Flat Brackets 5	24.	Bush Wheel 1	54.	" Sector Plate 1
11.	Double " 2	35.	Spring Clips 6		O TOIOT TIMEO I
12.	Angle " 8		Screwdriver 1		
16.	3½" Axle Rods 2		Nuts and Bolts 25		2½"x½" Double Angle Strips 4
17.	2" " " 2	38.	Washers 6		1/2" Reversed Angle Brackets 2
19.	Crank Handle 1	40.	Hank of Cord 1		Flat Trunnions 2

This rule is provided for measuring rods, strips and other parts.



MECCANO

Hornby's Original System, First Patented 1901

PATENTED IN THE UNITED STATES

Jan. 16, 1	906 Ja	n. 4,	1916	Oct. 24,	1916	Oct. 19,	1920
Nov. 18, 1	913 Fe	b. 15,	1916	Oct. 9,	1917	Dec. 14,	1920
Nov. 23, 1	915 A	ıg. 1,	1916	Dec. 24,	1918	Apr. 11,	1922
Dec. 21, 1	915 A	ıg. 29,	1916	Feb. 11,	1919	May 15,	1923

Design Patent 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.