



(REG. U. S. TRADE MARK 83171)

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



THE Meccano No. 0 Outfit is the first step in the Meccano system. With it 70 working mechanical models can be made, each one a perfect little toy. After you have made them all, you will wish to go on building and you can do this either by adding new parts to your No. 0 or by purchasing a No. 0A Accessory Outfit, thus converting your No. 0 into a No. 1. You will then be able to build 105 models, including larger and better cranes, bridges, wagons, trucks, windmills, etc.

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 which 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 to play with, 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 nappiest 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; joins a Meccano Club and by wearing the club button proclaims himself to be the friend of millions of other Meccano boys all over the world. He reads the Meccano Magazine regularly and corresponds with his friend the Editor when he feels like it. Time never hangs heavily on his hands and he is too busy and too happy to grumble.

The Meccano Magazine is the Meccano boy's newspaper. It tells him of the latest Meccano models; what Meccano Clubs are doing; how to correspond with other Meccano boys; the Competitions that are running, etc. It contains interesting articles on engineering and electrical subjects and deals with many other topics of interest to boys, including suggestions from Meccano boys for new Meccano parts and correspondence columns in which the Editor replies to his readers' enquiries. Write to the Editor, Meccano Magazine, 1004 Elizabeth Ave., Elizabeth, N. J., and he will send you a copy FREE. It is sent regularly to subscribers at the rate of 15 cents for three issues, or 30 cents for six.

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 and you will find that you can play with the trucks, cranes, signals, etc., and obtain many hours of fun from them.

Particulars and Prices of Meccano Parts

Part	No.	nte
1	Perf. Strips, 121/2" long(1/2 doz.)	45
1A	" " 9½" " "	35
2	" " 5½" " "	25
2A	" " 4½" " "	20
3	" " 3½" " "	20
4	" " 3″ " "	20
5	" " 2½" " "	15
6	" " 2" "	15
6A	" " 1½" " "	15
7	Angle Girders, 24½" longeach	25
7A	18/2"	20
8	12 ¹ / ₉ 1/ ₀ doz	60
8A 9	" " 9½" " " " " " " " " " " " " " " " "	55
9	51/2"	45
10 11	Flat Brackets ½ doz. Double Brackets each	05 03
12	Angle Brackets doz.	12
12A	Angle Brackets, 1"each	05
13	Axle Rods, 11½" long each	10
13A	" " 8" "	10
14	" " 6" " … "	05
. 15	" " 5" "	05
15A	" " 4½" "	05
16	" " 3½" "	05
17	" " 2" "	02
18A	" " 1½" ""	02
10		
19	Crank Handles each	10
19A	Wheels, 3" diam. with set screw "	20



Part No	C	ents
20	Flanged Wheelseach	25
19B	Pulley Wheels, 3" diam. with centre boss and set screw	25
20A	Pulley Wheels, 2" diam. with centre boss and set screw	20
21 22	Pulley Wheels, 1½" diam. with centre boss and set screw each Pulley Wheels, 1" diam. with set screw	20 10
22A 23	Pulley Wheels, 1" diam. without centre boss and set screw	05
23A	Screw	05 10
24	Bush Wheelseach	15
Pin	ion Gear	
25 26 27 27A	Pinion Wheels, $\frac{34}{2}$ diam each $\frac{3}{12}$	25 15 30 35



	The strain was	
Part No	0.	Cents
28 29	Contrate Wheels, 1½" diameach	50 30
	Bevel Gear 1" Gear	
30 31	Bevel Gears each Gear Wheels, 1"-40 teeth	55 65
32	Worm Wheelseach	25
33 33A	Pawls, completeeach Pivot Bolts with Nuts	05 06
	200	
34	Spannerseach	10
35	Spring Clips, per box doz.	15
36 36A	Screw Driverseach Special Screwdrivers	10 50

Particulars and Prices of Meccano Parts—(Continued)

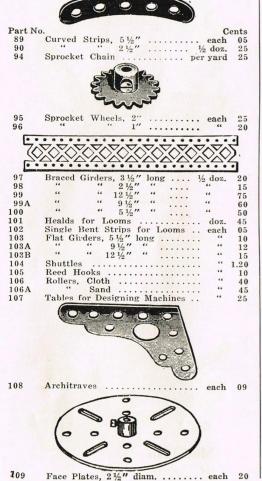


Part N	Jo
37	No. Cents Nuts and Bolts, per box doz. 15
37A	Nuts, per box " 05
37B	Bolts, per box " 10
38	Washers " 05
40	Hanks of Cord each 05
41	Propeller Blades per pair 15
43	Springs each 05
Cranke	ed Bent Strip Double Bent Strip
44	Cranked Bent Strips
45	Double Bent Strips each 05
46	Double Angle Strips, 2½"x1" each 05 (See also Nos. 60 and 112)
50	Eye Pieces each 05
52 52A	Perf. Flanged Plates, 5½"x2½", each 25 Flat Plates See No. 70

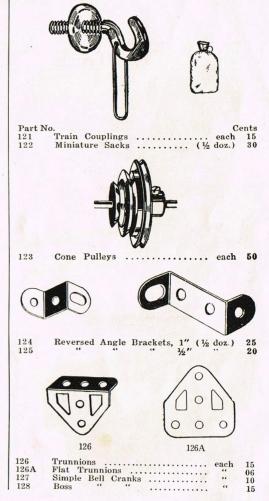
Part 1 53 53A	No. Perf. : Flat F	Flanged Plates	Plates,	3 ½"x2 ½	", each	Cents 20 20. 70
54 56 56A	Manua	ated Flan l of Inst tion Ma	truction	ector Plates	es, each	20 35 35
C		C.	Series and		(3)	
57 57 A 58 59	Hooks Hooks Spring Collars	(Scienti	ific) . er leng t Screw	th	. each	02 02 30 05
			0.0	6 - (6		
60A 60 60B 60C	Double "	Angle	Strips,	1 ½ "x ½ ' 2 ½ "x ½ ' 3 ½ "x ½ ' 5 ½ "x ½ '	, "	18 20 25 36
61	Windmi	ll Sails	0		each	10
62 62A	Cranks	Thread Bell—	led See No.	127	each · "	15 15



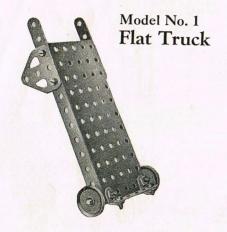
Particulars and Prices of Meccano Parts—(Continued)



	0 0	0	0 0	0	0	
Part No	Rack Stri	ips, 3 ½	<i>"</i>			nts 10
	- Lu	munn		my		
129	Rack Seg	ments,	3" diam		. each	20
				Ø		
111	Bolts, %	"			. each	02
	000	• •		0 1000)	
112 112A	Double A	also No	rips, 2 ½ 3" os. 46 a	x1 ½" x1 ½' nd 60)	, each ' ½ doz.	36
		/	0			
		2				
113	O O Girder Fr	O O	0 0	0 0	O O	10
		.10			· cucii	
	(9				
114	Hinges (1	pair,	• • • • • • • • • • • • • • • • • • • •	1	oer pair	20
(Mil))				9
115 120	Threaded Buffers .	Pins .			. each	05 05

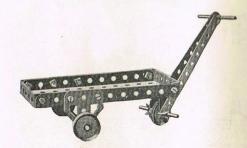


Trucks and Luggage Carts

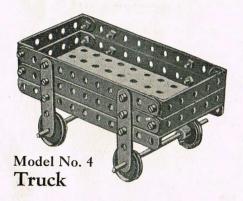


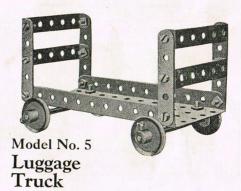


Model No. 2
Truck with
Sides



Model No. 3 Luggage Cart







Trucks and Luggage Carts (Continued)



Model No. 7

Covered Truck



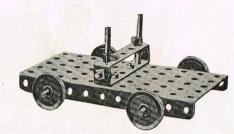
Model No. 10 Luggage Barrow



Model No. 13 Coster's Barrow



Model No. 8
Timber Truck

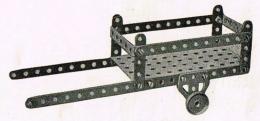


Model No. 11
Timber Truck



Model No. 14—Timber Drag

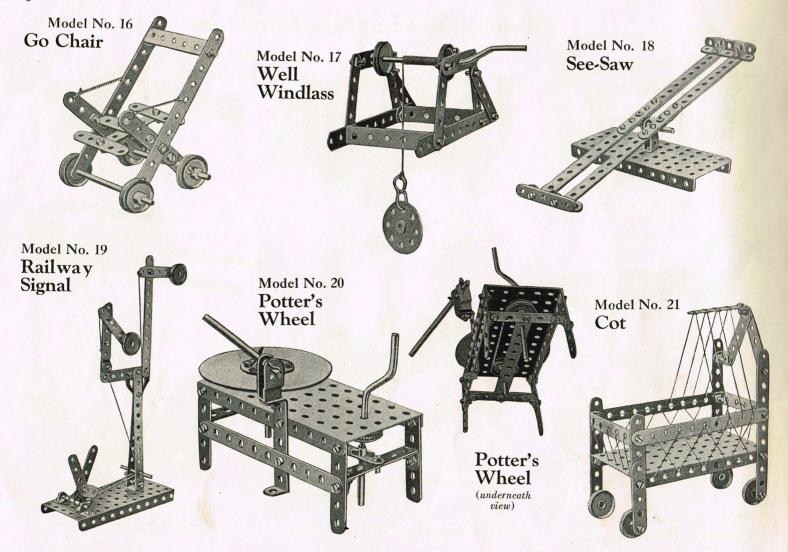


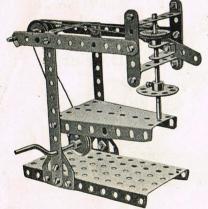


Model No. 12 Luggage Cart



Model No. 15 Bath Chair

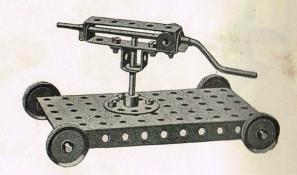


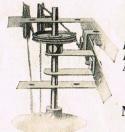


Model No. 29
Drilling
Machine



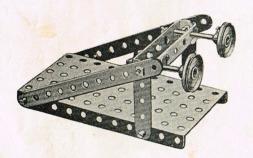
Model No. 31 Rock Drill





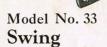
Detail of Drilling Machine.

Model No. 32 Buffers





Model No. 34
Ore Crusher

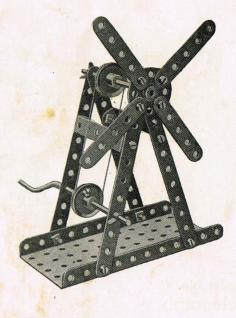


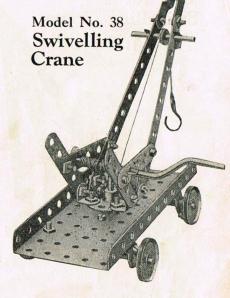
Model No. 35
Buffing
Spindle

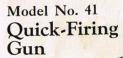
Model No. 36 Telpher Span

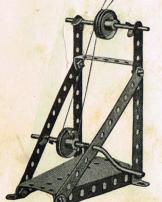
Many hours of enjoyment may be obtained from this model. The illustration shows exactly how it is worked. The cords may be made to any length, and the load carried from one side of the room to the other. In order to give a better grip the operating cord should be wound twice round the crank handle pulley.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

Model No. 37 Windmill







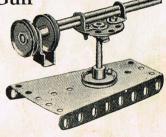


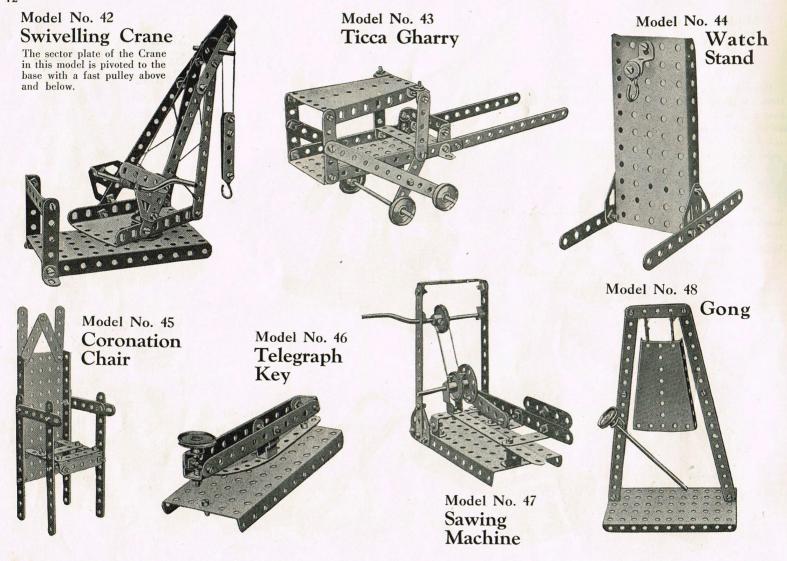
on the opposite side of the room.

Model No. 39 Furrow Roller



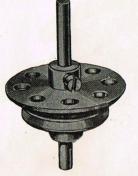
Model No. 40 Lawn Mower



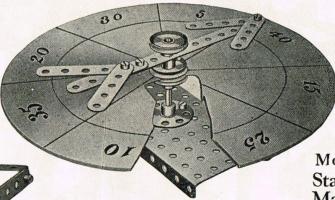


Model No. 50-Roulette Wheel

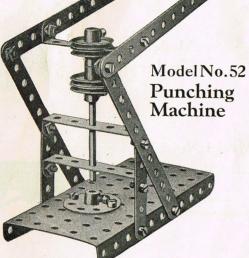
Cut out a circular piece of cardboard and mark as shown to form scoring board. This is clamped between two 1" pulley wheels. The pointer revolves freely on the upright spindle and is held in position by another 1" pulley wheel.



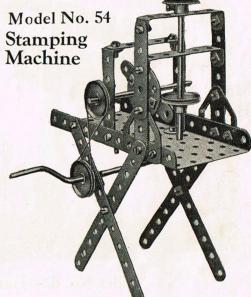
Model No. 49 Spinning Top

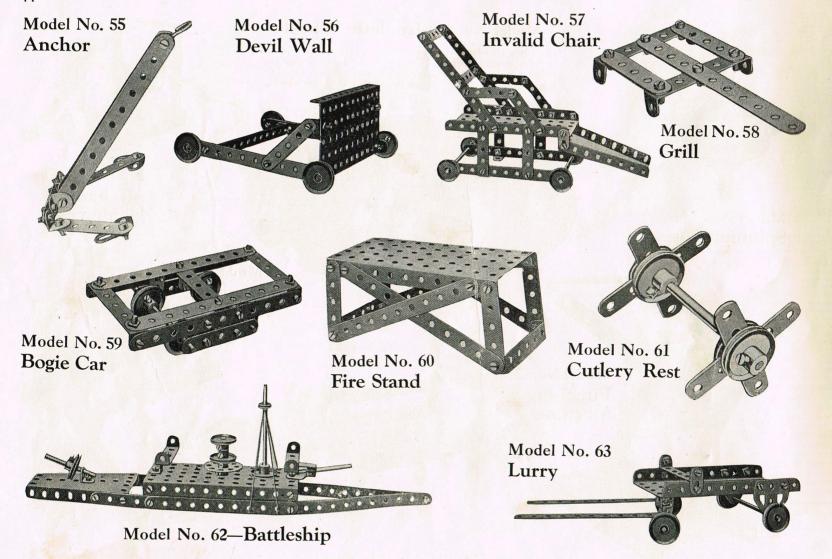


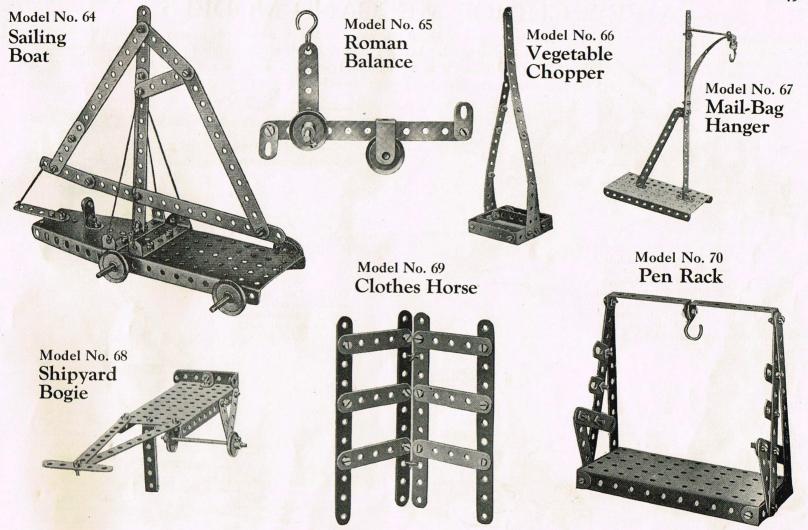
Model No. 51 Mechanical Hammer



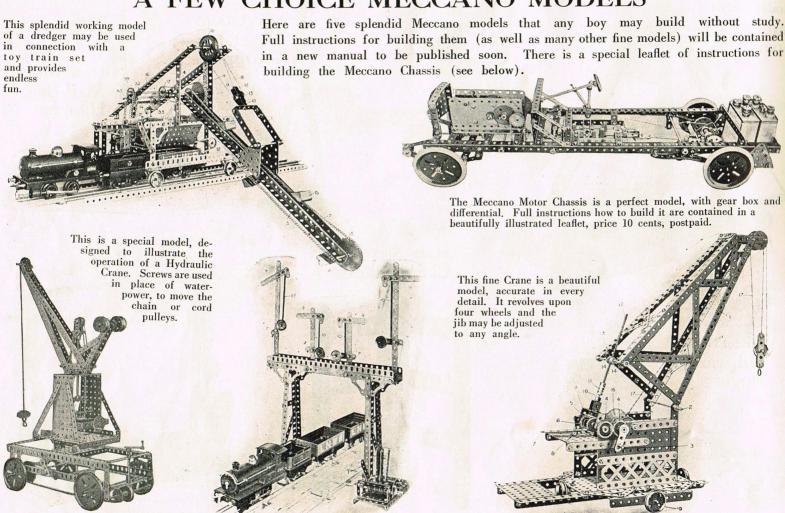


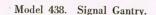


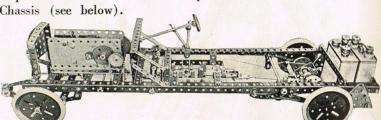




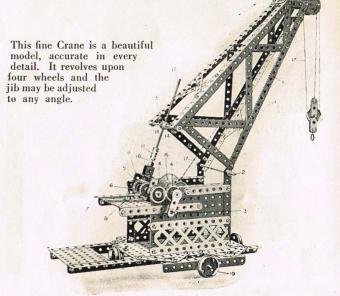
A FEW CHOICE MECCANO MODELS







The Meccano Motor Chassis is a perfect model, with gear box and differential. Full instructions how to build it are contained in a beautifully illustrated leaflet, price 10 cents, postpaid.



Model 440. Revolving Crane.

MECCANO INVENTOR'S ACCESSORY OUTFITS

New and valuable parts are added to the Meccano system from time to time, and for the convenience of Meccano boys we have made up selected assortments of these new parts in useful quantities. These may be purchased in special boxes, known as Inventor's Accessory Outfits. With them many models in the Manuals of Instruction may be greatly improved and a large number of further models made.



Accessory Outfit "A"

This Outfit makes a splendid addition to any Meccano Outfit and with it a considerable amount of extra fun may be obtained. It contains large 3" Pulley Wheels, Gear Wheels, Washers, Sprocket Wheels, Sprocket Chain, and Meccano Braced Girders. For price see page 18.



Accessory Outfit "B"

Every boy who is interested in engineering subjects will find this Outfit of the greatest service to him, not only providing him with new movements but also considerably extending the scope of his experiments.

The Outfit contains Bevel Gears, Gear Wheels, Flat Plates, Octagonal and Strip Couplings, Triangular Plates, Screwed Rods, Curved and Rack Strips, Hinges, and Buffers and Couplings (for constructing Trains). For price see page 18.

Clockwork Motor

How splendid it is, after spending hours in building a model, to be able to set it in motion with a motor, just as do real engineers! The Meccano Clockwork Motor is specially made for this purpose and is a fine piece of mechanism—simple, powerful, and reliable. It is fitted with starting and stopping levers, and has a reversing movement. For price see page 18.



Electrical Outfit

All Meccano boys are fascinated by electricity and never become tired of learning more about this wonderful subject. The application of electricity to the Meccano system adds a further and wonderful charm, and the joys of model-building are now increased by the fascinating pastime of carrying out delightful electrical experiments.

The Meccano Electrical Outfit contains a number of specially

designed electrical parts which may be used in conjunction with any of the regular Outfits. For price see page 18.



Electric Motor

This motor serves the same purpose as the Clockwork Motor and may be run from dry batteries or—by employing a Meccano transformer—direct from the main. It is specially made to be built into Meccano models and is the most reliable and powerful toy electric motor made. The E1 motor will run one way only and has a pulley and pinion. The E2 motor has reversing motion, starting and stopping levers, and is fitted with gears. For prices see page 18.



MECCANO PRICE LIST

No. 0 Meccano Outfit\$ 2.00						9	No. 0a Meccano Outfit\$		
" 1 " 1x " 2 " 2x " 3 " 3x " 4	«« «« «« «« «« «« «« «« «« «« «« «« ««	«« «« «« «« «« «« «« «« «« «« «« «« ««	(with o	one-way	motor); motor	··· ·) . ·) .	3.00 5.00 6.00 8.50 9.00	" 2A " " " 3A " " " 4A " " " 5A " "	3.00 3.00 6.00 5.00 3.00 7.00 4.00
" 5	66	"	"	"	66		20.00	MECCANO MOTORS	
" 5x ² " 6 *The I	" No. 5x Oi	" utfit als	" so includes	" s an Inver	" ntor's A		25.00 40.00 atfit and	S1 Clockwork, reversing	2.50 3.50 3.00 2.50

Meccano is sold in seven different Outfits, numbered 0 to 6. 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 which outfit you commence with, you may by degrees build up your Outfit to a No. 6.

CONTENTS OF No. 0 OUTFIT No. No. Quantity. Quantity. Quantity. 2. 51/2" Perforated Strips 4 22. 1" Pulley Wheels (with Set-screw) 4 57. Hook 1 5. 21/2" 23A. 1/2" " Wheel (without Set-screw) 1 60. 21/2"x1/2" Double Angle Strips... 4 10. Flat Brackets 5 24. Bush Wheel 1 125. 1/2" Reversed Angle Brackets.... 2 11. Double " 2 35. Spring Clips 6 126A. Flat Trunnions 2 12. Angle " 8 37. Nuts and Bolts 25 38. Washers 6 16. 31/2" Axle Rods 2 44. Cranked Bent Strip 1 36. Screwdriver 1 52. Perforated Flange Plate, 51/2" x21/2" 1 40. Hank of Cord 1 19. Crank Handle 1 " Sector Plate.... 1 56. Manual of Instructions No. 0.... 1

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

1 inch	2	4	5	6	7	.8	9

MECCANO

Hornby's Original System, First Patented 1901

PATENTS AND DESIGNS, UNITED STATES

810,148	1,166,688	1,289,014	1,412,116
1,079,245	1,196,238	1,293,973	1,412,117
1,161,131	1,202,388	1,355,975	49,308

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.