# Meccano Prize Models

MECCANO COMPANY, INC. 71 WEST 23RD ST. 46 WEST 24TH ST.

NEST 24TH ST. NEW YORK Price 25 Cents

A SELECTION OF THE MODELS WHICH WERE AWARDED PRIZES IN THE MECCANO COMPETITION 1915-16

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## What the Inventor of Meccano thinks of the 1915-16 Competition

HIS competition has been much more successful than the last one; the entries have been more numerous, and an altogether higher standard of merit has been attained. So many excellent models have been sent in that I decided to increase both the value and number of the prizes This accounts for the prize list being such a long one.

Letters have come to me in all languages, containing expressions of warmth and gratitude towards Meccano and myself, which have touched me to the heart. Letters from bright, sturdy, intelligent boys with brains to grasp the genius in Meccano and enterprise to break fresh ground, and send in something new and different. Hundreds of letters from boys in homes and hospitals, lying on beds of sickness from which many of them, unhappily, will never rise again, charged with touching words of gratitude for the pleasure and happy hours which Meccano has given to them. Letters from lonely boys in the Western States of America, in the heart of Africa, India, Australia, and far away points of the earth which I had never heard of before, telling me how Meccano has come as a boon to them to brighten up their long winter evenings. Letters from brave young boys on the battle-front, who are living with their parents within sound and reach of the enemy's guns, sending me models of cannon, armoured trains, or of aeroplanes which fly over their heads for the purpose of either destroying or defending them.

This world-tribute to Meccano has touched me deeply, and I should like to have the happiness of meeting all my Meccano boys, to thank them and encourage them, and talk over their Meccano problems and experiences with them.

I hope that competitors who have not had the good fortune to win prizes will not feel in the least discouraged. A very large number of them show great cleverness and inventiveness, and I have no doubt whatever that many of the losing competitors in this competition will be winners in the next. The 1916-7 competition has started, and entry forms are now available. I hope to see all the old Meccano competitors and many new ones making a serious attempt for the big money prizes.

I want all Meccano boys specially this year to get the new Manual of Instructions, which is now ready. In addition to some of the best models which have been invented during the past fifteen years, I have this time included a large number of the winning models in the 1914-5 competition, and as many as I can crowd in from the 1915-6 competition. Such a book, teeming with new and wonderful things, has never been issued before. There is enjoyment and fun in every page of it, which I want every Meccano user to share.

Frank Hornby

President Meccano Co., Inc.

# Meccano is the American Boy's Treasure Box

VERYTHING is possible to the Meccano Boy; his Meccano Outfit is a box of inexhaustible treasures, which he can draw on either for his hours of play, or his hours of study. If he likes to play with Cranes, or Bridges, or Wagons, and what boy does not, he can make them for himself, perfect in every detail. If he visits the Joy City, and is fascinated with the Ferris Wheel, the Helter-Skelter, or other joy structure, he can go home and build them, and play with them just like the real things. He can acquire useful knowledge in engineering, bridge-building, cloth-weaving, wood-turning, etc., in a delightful way which makes learning a pleasure. No study is necessary to do all this. The genius and knowledge and skill are all in the beautifully made Meccano parts, which need only be screwed up together, as described in the big Meccano Manual of Instructions.

To appreciate Meccano properly you must own a Meccano Manual. It tells you how to build all the models in this book, and hundreds of others besides. There is a new model for every day in the year. A large number of them are prizewinners in the Meccano Competition, all of them remarkable for ingenuity and beauty of design. It is a unique book, packed with good things for making boys happy. Included with all regular Meccano Outfits from No. 1 to No. 6, and in the No. 1a, or it can be purchased separately for 35 cents.

To be genuine your outfit must bear the trade name Meccano.

Insist on the Trade Mark Meccano, or You will be Disappointed

#### From Opinion

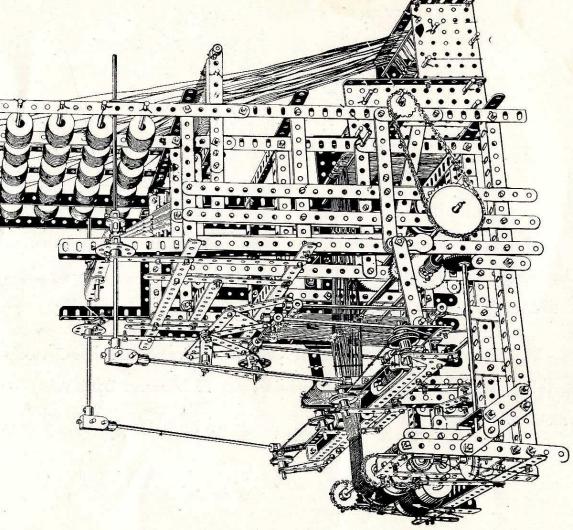
# U. S. District Court, Southern District of Ohio

The toy is of great utility, of educational value, is stimulating to the imagination, appeals to a boy's creative faculties, and not only gives entertainment, but is highly instructive.

The Manual of Instructions is in reality a Key by which the really wonderful treasures contained in the various parts of Meccano Outfits may be unlocked.

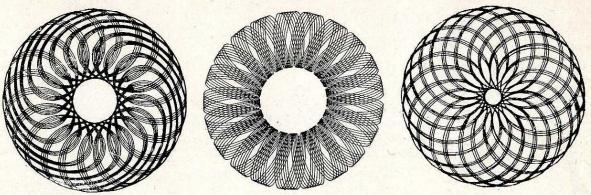
# Weaving Loom

(Fully Automatic)

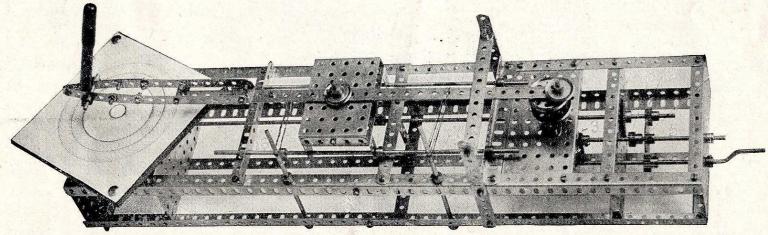


the Meccano It looks and colors, just a little complicated, perhaps, but with use and can put it together, instructions in the big Meccano Manual, any boy can put it together, instructions in the big Meccano Manual, any boy should make this handle This wonderful loom took one of the first prizes in when neckwear or every detail, and best you can buy perfect in and colors, just as good as the automatically it will Competition. turned

# The Meccanograph

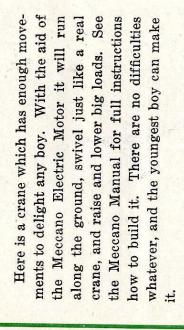


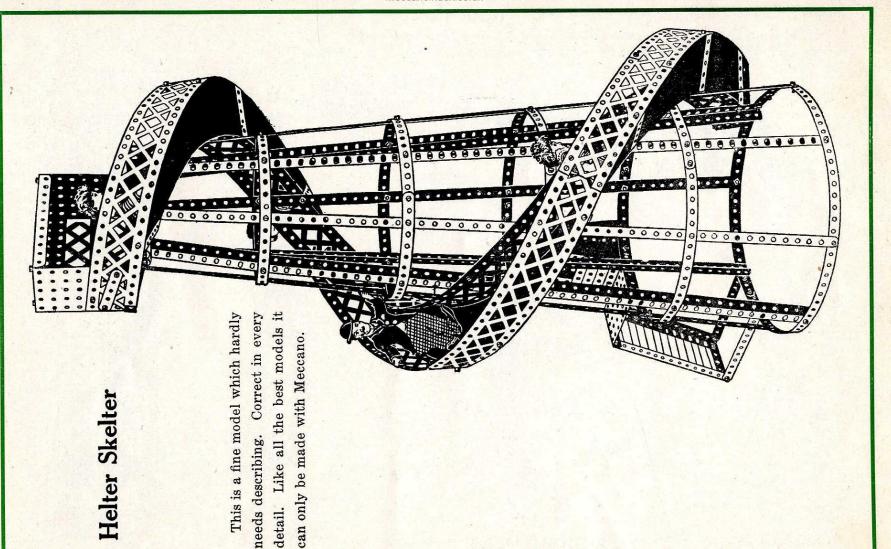
Specimen designs drawn on the Meccanograph



If you were to work with this model every night for a year, you would not be able to exhaust the beautiful designs which it will make. It is only necessary to fix a pencil in position on the paper and turn the handle. There are thousands of simple adjustments, and each one gives you a different design. This model illustrates the value of the special patented Meccano parts. No other material will make it, but with Meccano any boy can put it together in very quick time, and make his own beautiful designs. Full detailed instructions are given in the big Meccano Manual of Instructions.

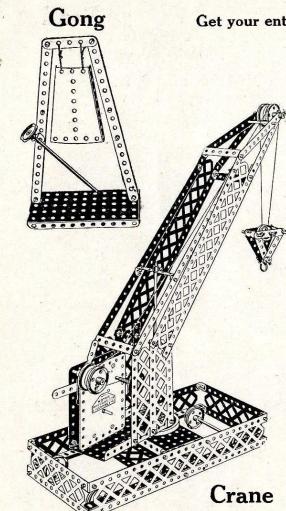






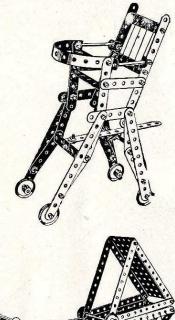
detail.

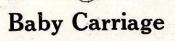
To be on right lines you must start right. Get a Meccano outfit. You cannot make these models with anything else. Automatic Weighing Machine Bed Table Field Gun **Buffers** Trench Periscope Windmill Scare Timber Drag

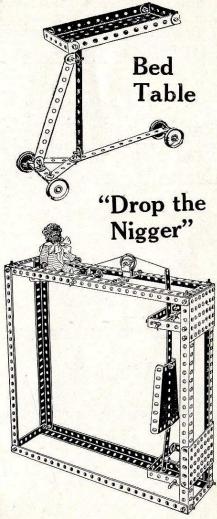


Get your entry form for the New Meccano Prize Contest

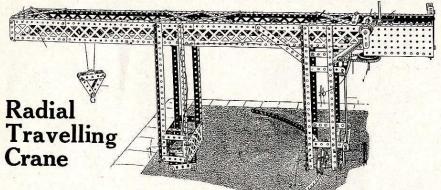


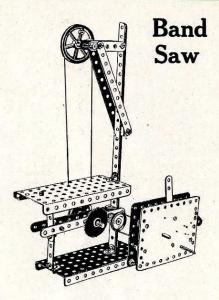




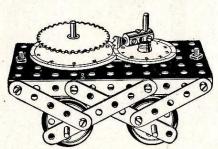


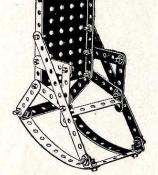
Meccano is real engineering for boys.

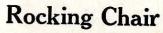


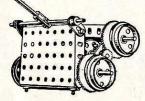


Distance Indicator

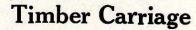


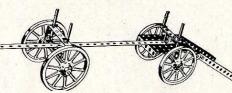




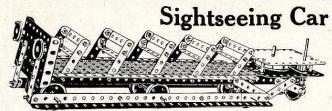


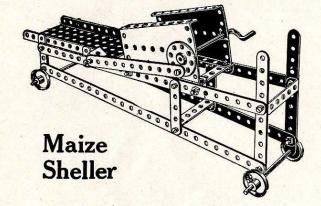
Carpet Sweeper

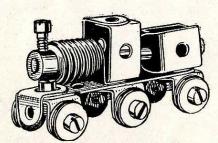




Each regular outfit is complete with all necessary parts and tools. There is nothing further to buy.

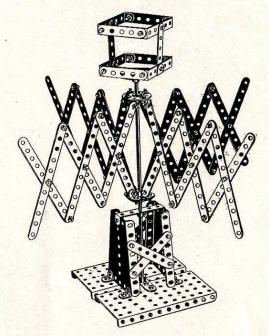


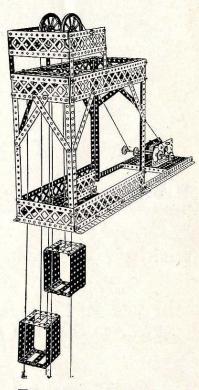




The Meccano Express

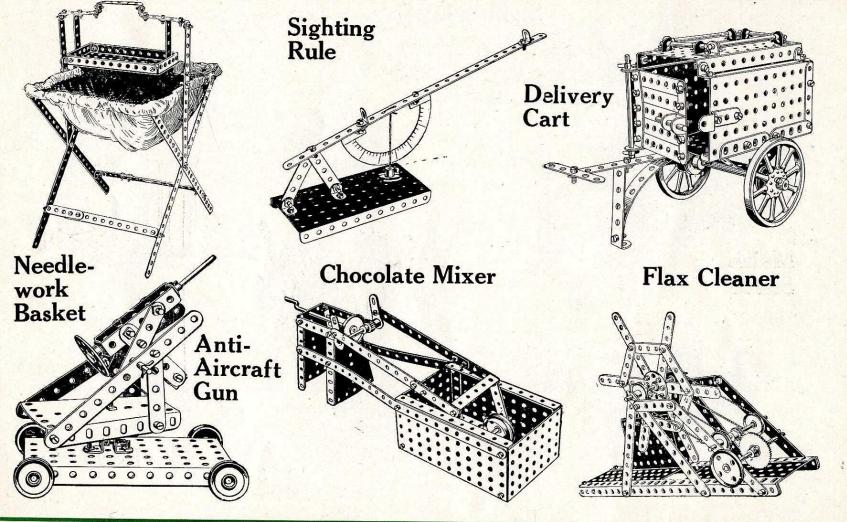
Skein Winder





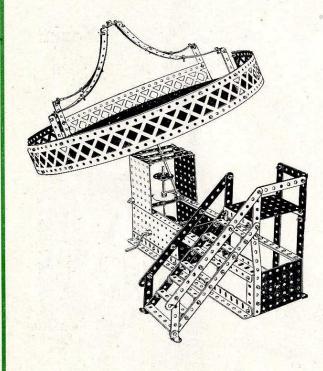
Pit Head Gear

There is no difficulty in building Meccano models. The youngest boy can commence at once, without study.

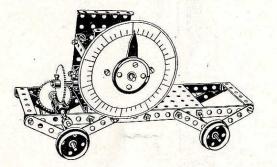


All Meccano models are built on correct engineering principles. Of no other system can this be said.

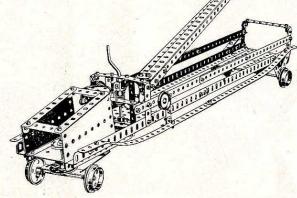
Joy Wheel



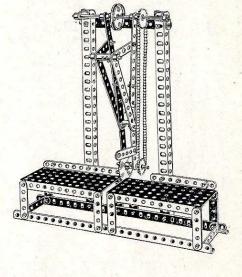
Distance Indicator

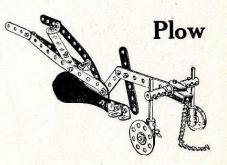


Fire Watertower

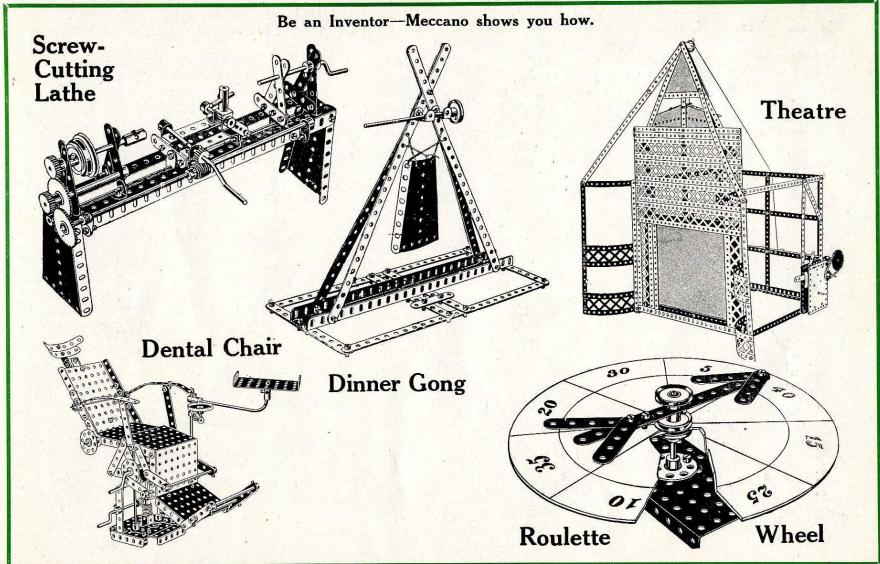


Swing Saw

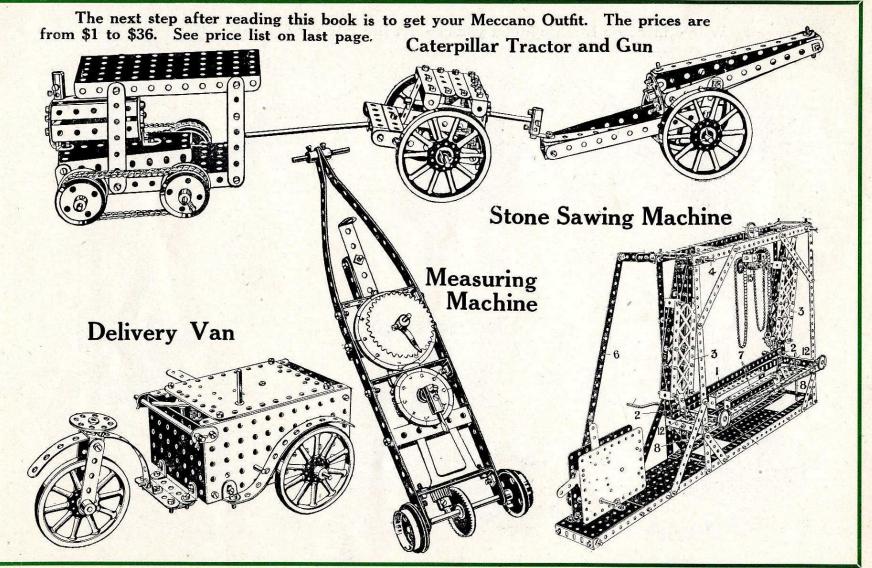




We strongly warn customers against systems which infringe our patents and copyrights. We have established our rights in the U.S. Courts, and shall vigorously proceed against any infringer. Purchase Semaphore Block Maxim Gun Roller Skate **Moving Staircase** 

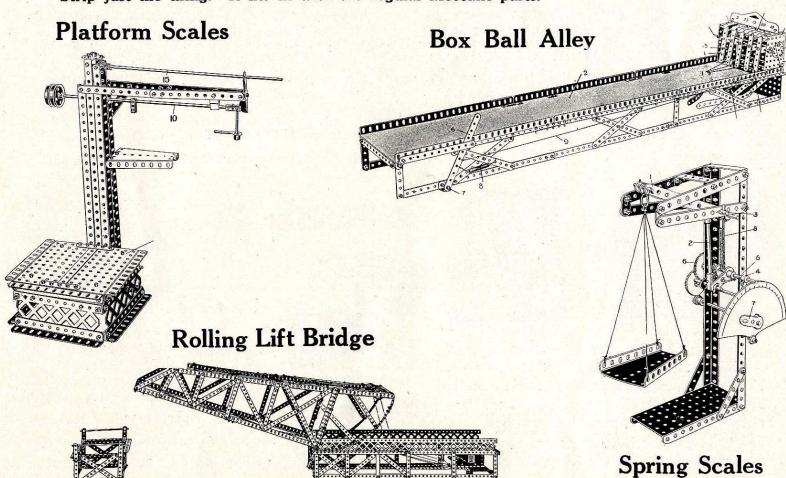


Big cash prizes are given to boys who design new models. A new Big Competition has started. Get your entry form. Bagatelle Jaunting Car Mechanical Swing Navvy Automatic Gong



With a Meccano Electric Motor you can put life into your models. This motor is a beauty, designed specially for Meccano. Field Gun and Carriage Rocking Chair Electric Loco

Those boys who like big imposing structures will find the Meccano Braced Girder Strip just the thing. It fits in with the regular Meccano parts.



### How to Recognize a Genuine Meccano Outfit

Owing to the great success of Meccano, a number of imitations have sprung into existence, which are worthless, because they do not embody the essential features for model building, which are owned by Meccano Company, Inc., and which are covered by patents and copyright registrations. See page 3. The following particulars will enable the intending purchaser to ensure obtaining the genuine Meccano product.

Our trade name MECCANO is registered, and is our sole property. If your outfit and manual do not bear this mark, they are worthless imitations, and unsuitable for building on correct engineering lines, and they will disappoint you.

#### THE OUTFITS



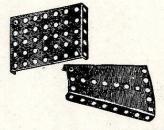
All the regular Meccano Outfits up to the No. 5 are sold in this way, with the parts neatly arranged in a durable box, with divisions. The No. 6 is packed in a beautiful wood box, with lock and key. The No. 5 may also be purchased in a similar box. For full price list see page 23.

#### A FEW SPECIAL MECCANO PARTS

Each one indispensable in building Meccano models



Perforated strips with equidistant holes,  $\frac{1}{2}$ " apart.  $12\frac{1}{2}$ ",  $5\frac{1}{2}$ ",  $3\frac{1}{2}$ ", 3",  $2\frac{1}{2}$ " and 2" long.



Perforated rectangular and sector plates. Important features in the structure of many of the finest models.



Crank, and Coupling. Valuable engineering parts enabling mechanism to be constructed, which would be impossible by any other means.

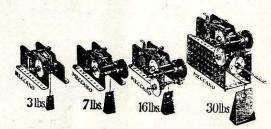
## Meccano Electrified

It has always been great fun to build Meccano models, and now it has become possible for you to electrify them, and supply your own motive power. Like a skilled engineer you can have your own machineshop, and with one touch of the lever can set into motion all your models, Saws revolving at a great rate, Lathes working in fine style, Drop-hammers, Elevators and Vertical Saws, everything running perfectly with all the busy hum of a great factory. All this is possible with the Meccano patented Electric Motor. Notice the perforated flanged base, and the perforated sides so that you can build Meccano parts right on to the motor. It will work quite small models, as well as large ones, and has a wonderful reserve of power; we illustrate the gearing necessary for lifting 30 pounds dead weight. It is included as part of Outfits No. 1x, No. 2x and No. 3x. Get the motor and find out what good fun you can have in working your own models.

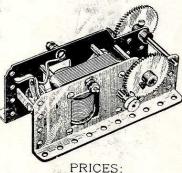


#### THE MECCANO TRANSFORMER PRICE \$2.00

The Meccano Transformer enables the boy to use the ordinary home lighting system to run his motor. It dispenses with the expense and uncertainty of dry cells and storage batteries. It reduces alternating current 10 volts, 60 to 133 cycles, to the proper strength of current for running the Meccano Motor. Attach the transformer plug to lamp socket, no special wiring is necessary.



This illustration shows a combination of gearings built from Meccano parts on to the Electric Motor itself, the drive being direct from the Armature Spindle. Note how a slow drive and substantial lifting power are secured. In this case three dry batteries (approximately four volts) were used.



E1. .. .. .. \$1.50

E2. With reversing mechanism and extra gears .. \$3.0

Just a hint on the use of the non-reversing electric motor. When it is fitted to a crane or an elevator it is a good plan to secure a collar to the shaft, on the inside of the plate nearest the large gear wheel, allowing about \( \frac{1}{4} \) inch play. When the load has reached the top the rod may be slid along sufficiently to throw the big gear wheel out of gear with the pinion, thus allowing the load to be released.

## The Big \$5.00 Outfit

Contains all these parts.



There are Meccano Outfits at prices to suit each customer. Just buy the Outfit at the price you can afford, because you can always add to it later by buying Accessory Outfits.

#### BUILDS

Trucks Baggage Carts Railroad Cars Sleighs Swings Windmills Cable Railways Telpher Span Tib Crane Joy Wheel Monoplane Railroad Bridge Potato Reaper Derrick Morse Key Round-about Drilling Machine Churn Potter's Wheel Torpedo Boat See-saw

Ore Crusher Metal Saw Lathe Merry-go-round Fire Escape Candy Puller Beam Scales Stamping Mill Machine Gun Anti-aircraft Gun Power Hammer Roulette Wheel Spinning Top Gong Rock Drill Motor Truck Railroad Signal Elevator Designing Machine

Hay Stacker

See-saw Dial Press
Drop Stamp and hundreds of other
interesting models.

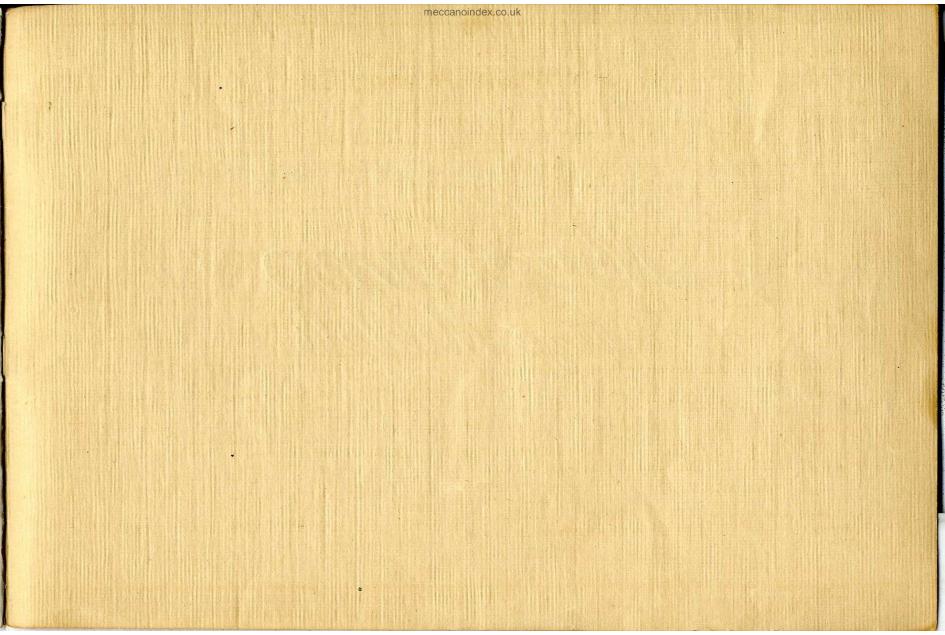
Whether you spend one dollar or thirty-six dollars you get a complete Outfit ready for building. The No. 2x Meccano Outfit is a typical example of the fine value of Meccano. Notice the fine assortment of parts which it contains, together with Manual of Instructions and all tools necessary. This enables you to build a wonderful selection of fine working models.

# Price List

No. 0.	Meccano (	Outfit		••					\$1.00
No. 1.	,,	,,					••	•	2.00
No. 1X.	, ,	,,	1	4		- A			3.00
No. 2.	,,	,,					• •		4.00
No. 2X.	,,	,,							5.00
No. 3.	,,	,,				1.0	•••		6.00
No. 3X.	,,	,,				••			7.50
No. 4.	,,	,,		.,					10.00
No. 5.	,,	,,	Packed in	n neat and wel	l-made cardbo				14.00
Do.		resentation	Outfit	t		1			18.00
			Packed in v	vell-made wood	box with lock	k and key			
No. 6.	,,	,,	,,	Ditto	Ditto			••	36.00
-			The state of the s	(containing s	Ditto				36.00 \$1.00
No. 0a.	Meccano	Accessory	Outfit	(containing s No. 0 into a (containing st	Ditto ufficient parts No. 1 Outfit) ufficient parts		Meccano		
No. 0a. No. 1a.	Meccano	Accessory	Outfit	(containing s No. 0 into a (containing su a No. 2 Outfi (containing su	Ditto ufficient parts No. 1 Outfit) ufficient parts t) ufficient parts	to convert a Note to convert a	Meccano No. 1 into	••	\$1.00
No. 0a. No. 1a. No. 2a.	Meccano	Accessory	Outfit	(containing s No. 0 into a (containing st a No. 2 Outfi (containing st a No. 3 Outfi (containing st	Ditto ufficient parts No. 1 Outfit) ufficient parts t) ufficient parts t) ufficient parts	to convert a N	Meccano No. 1 into No. 2 into	••	\$1.00 2.00
No. 0a. No. 1a.	Meccano	Accessory	Outfit	(containing s No. 0 into a (containing st a No. 2 Outfi (containing st a No. 3 Outfi (containing st a No. 4 Outfi (containing st a No. 5 Outfi	Ditto ufficient parts No. 1 Outfit) ufficient parts t) ufficient parts t) ufficient parts t) ufficient parts t)	to convert a N	Meccano Jo. 1 into Jo. 2 into Jo. 3 into Jo. 4 into	••	\$1.00 2.00 2.00
No. 0a. No. 1a. No. 2a. No. 3a. No. 4a.	Meccano	Accessory	Outfit ,,	(containing s No. 0 into a (containing st a No. 2 Outfi (containing st a No. 3 Outfi (containing st a No. 4 Outfi (containing st a No. 5 Outfi Packed in (containing st a No. 5 Outfi	Ditto  ufficient parts No. 1 Outfit)  ufficient parts t)	to convert a N	Meccano  Jo. 1 into  No. 2 into  No. 3 into  No. 4 into  rd box  No. 5 into		\$1.00 2.00 2.00 4.00
No. 0a. No. 1a. No. 2a. No. 3a.	Meccano	Accessory	Outfit ,, ,, ,,	(containing s No. 0 into a (containing standard a No. 2 Outfit (containing standard a No. 3 Outfit (containing standard a No. 4 Outfit (containing standard a No. 5 Outfit Packed in (containing standard a No. 6 Outfit Packed in	Ditto ufficient parts No. 1 Outfit) ufficient parts t) ufficient parts t) ufficient parts t) ufficient parts t) neat and well- ufficient parts t) neat and well-	to convert a N	Meccano  No. 1 into  No. 2 into  No. 3 into  No. 4 into  rd box  No. 5 into  rd box	::	\$1.00 2.00 2.00 4.00 4.00

# Prices of Meccano Accessory Parts

No.	Cents	No. Cents   No. Ce	nto
1. Perforated Strips, 121/2" long	½ doz. 30	22. 1// 1:- ::1	1115
2. " " 5½" "	" 18	23. 1/4" " " " " " " " " " " " " " " " " " "	20
3. " " 3½" "	" 15	23A.½" " with " " 10 53. Perforated Flanged Plate, 3½"x	20
4. " " " "	" 15	24 P. 1 Wil 1	15
5. " " 2½" "	" 10		15
6. " " 2" "	" 10		35
9 Apple Circle - 121/// 1	" 45	27. Gear Wheels, 50 teeth to gear with 56A.Meccanograph Manual of In-	
9. " " 5½" "		34" pinion " 25 structions "	25
10 F1 D	- 30	27A Great Wheels 56 teeth to great with 57. Hooks "	01
11. Double Brackets	05	1/2" pinion " 30   38. Spring Cords, per length "	20
Company of the Compan	each 03	28 Contrate Wheels 114" diam " 59. Collars and Set Screws "	05
12. Angle Brackets	doz. 10	20 " " 3/" " 00. Fent Strips, 2½" long per ½ doz.	15
13. Silver Steel Axle Rod, 11½" long	The second second	61. Windmill Sail each	05
13A.Axle Rods, 8" long	" 05	33. Pawls " of c2. C "	10
14. 0	" 03	34 Spanners " 50 Coupling	10
15. " " 5" "	" 03	0.00	05
15A. " " 4½""	" 03	05 C1 , WI 1 00 11	15 20
16. " " 3½""	" 03	06 " " 1" "	20 15
17. " " 2" "	" 02	99. Braced Girders 1246" long per 14 dog 1	50
18a. " " 1" "	" 02	29 W-1	35
19. Crank Handles	" 05	to II i co i for Looms, doz. 3	30
19A.Wheels, 3" diam	" 25	40. Hanks of Cord each 03   102. Single Bent Strip " each (	
20. Flanged and Grooved Wheels	" 20	41. Propeller Blades per pair 15 103. Perforated Flat Girder Strip,	
			05
Pulley Wheels.		05 10T D 1 TT	50
20A.2" diam., with set screw	" 20	10. Bouble Belt Strip 05   106 D-11-	05
21. 1½" " " "	20	46. Large Bent Strip " 05 S1 Spring Motor	10
22. 1" " " "	15	47 A.Dynometers (lension) " 1.50   El. Electric Motor " 1.50	
22. 1	" 10	50. Eye Piece	
		5.0	A.



# Meccano Prize Models