

Meccano Prize Models

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

THIS 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

EVERYTHING 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,

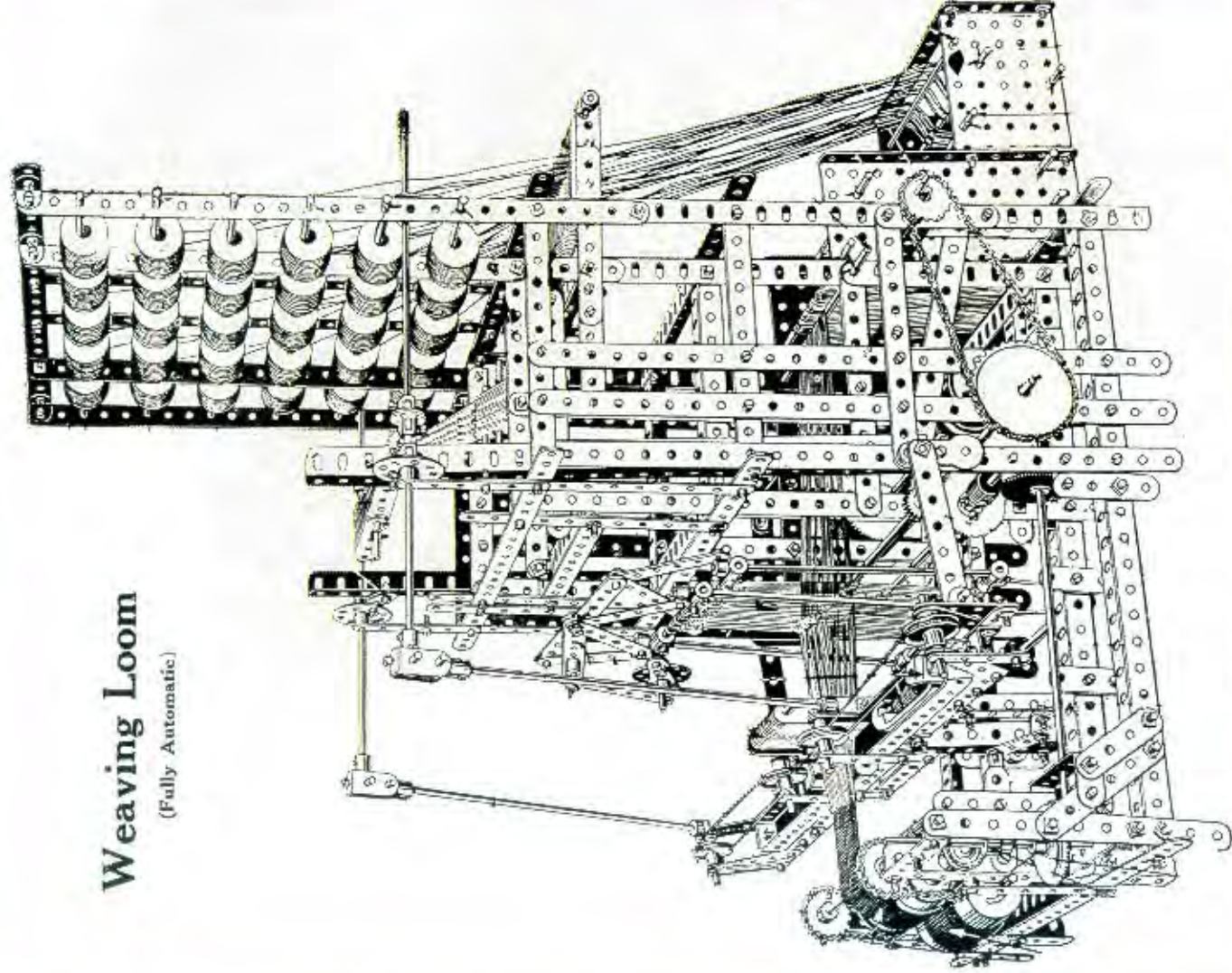
Southern District of Ohio

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.

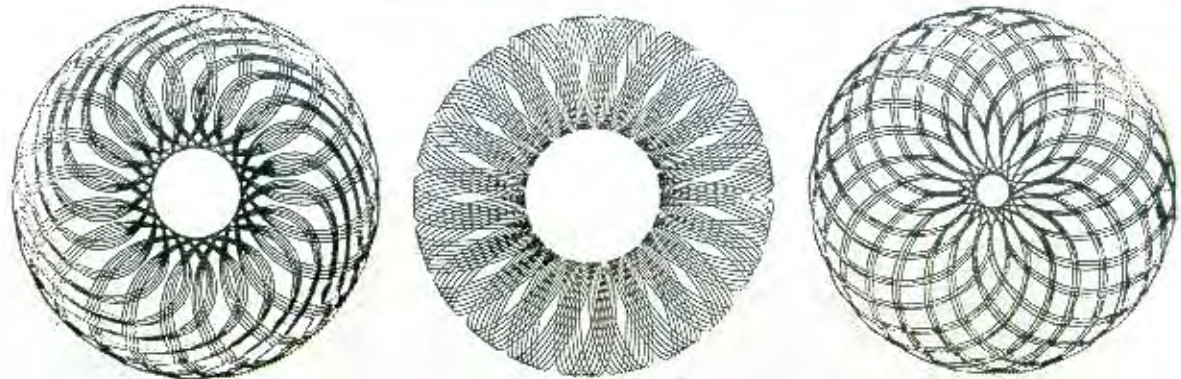
Weaving Loom

(Fully Automatic)

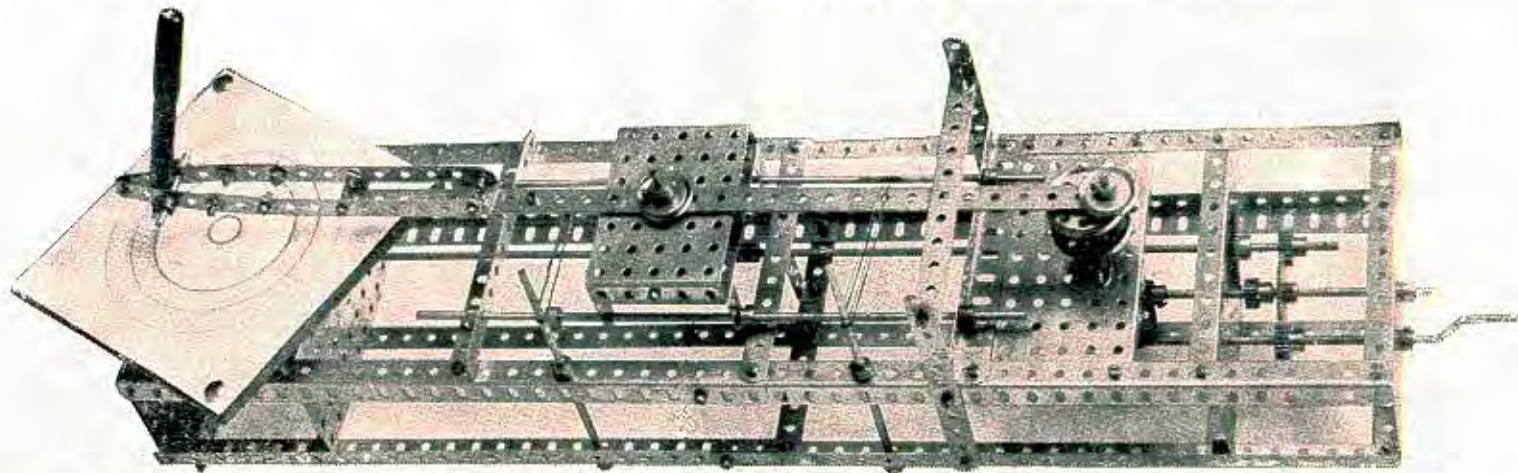


This wonderful loom took one of the first prizes in the Meccano Competition. It is perfect in every detail, and when the handle is turned it will automatically weave neckwear or belts, in all designs and colors, just as good as the best you can buy in the Stores. It looks a little complicated, perhaps, but with the aid of the fully illustrated instructions in the big Meccano Manual, any boy can put it together, and commence to work with it. Every Meccano boy should make this loom, and learn all there is to know about weaving.

The Meccanograph

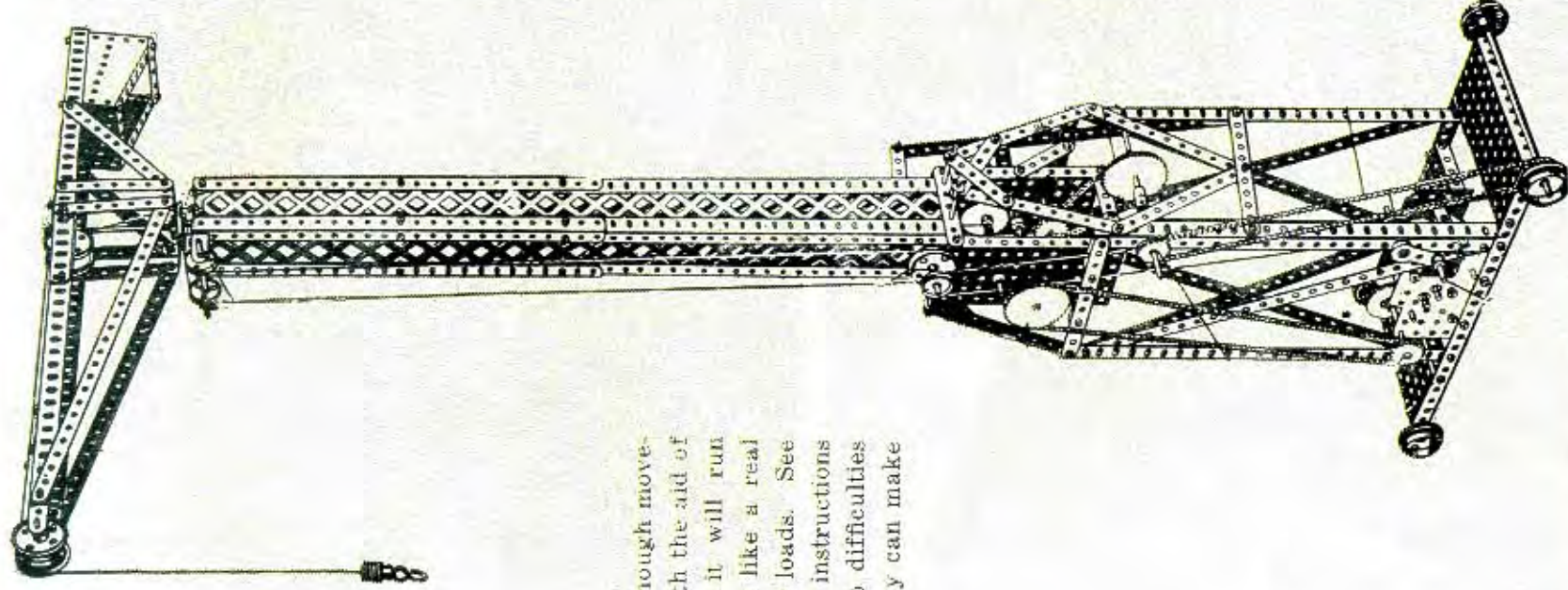


Specimen designs drawn on the Meccanograph.



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.

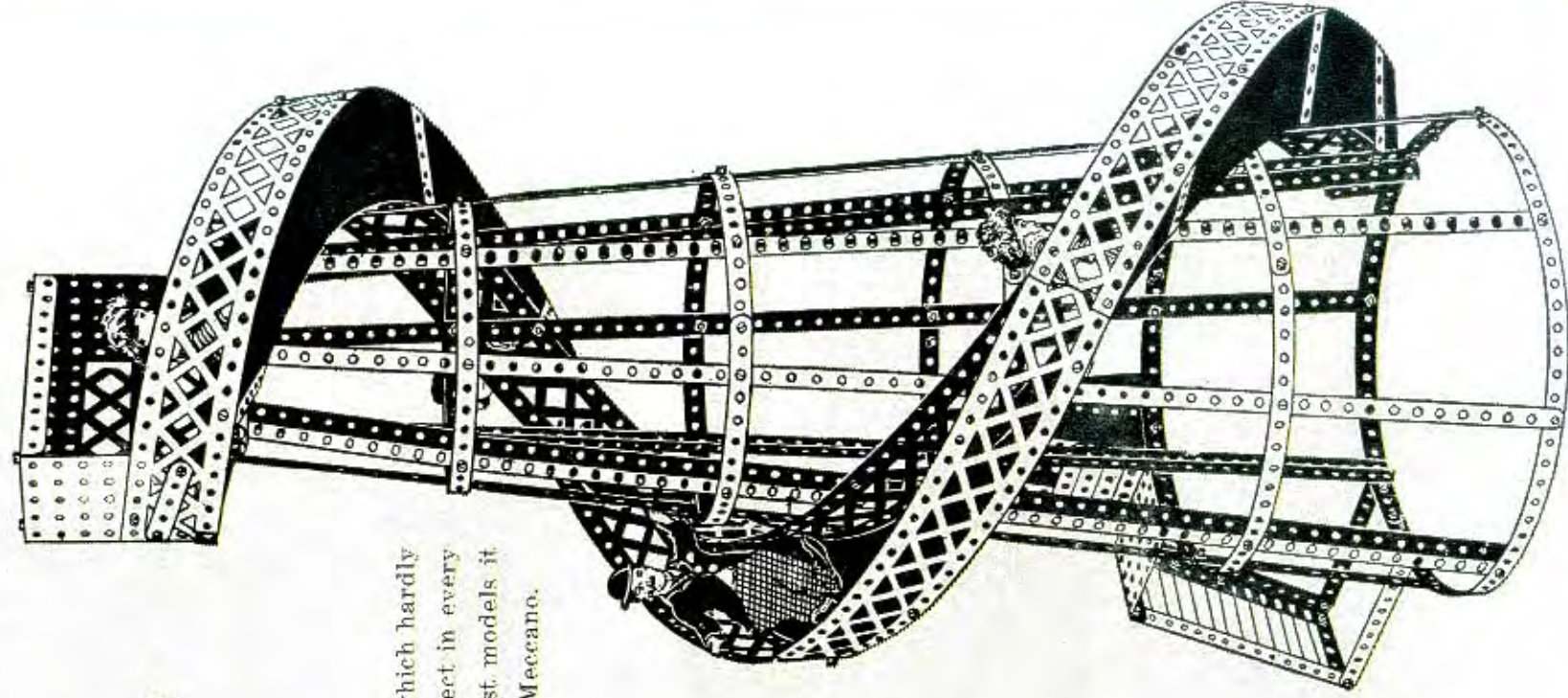
Girder Crane



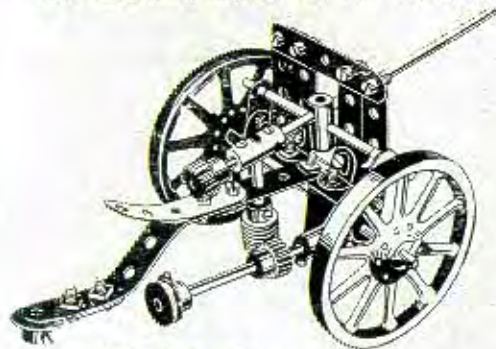
Here is a crane which has enough movements to delight any boy. With the aid of the Meccano Electric Motor it will run along the ground, swivel just like a real crane, and raise and lower big loads. See the Meccano Manual for full instructions how to build it. There are no difficulties whatever, and the youngest boy can make it.

Helter Skelter

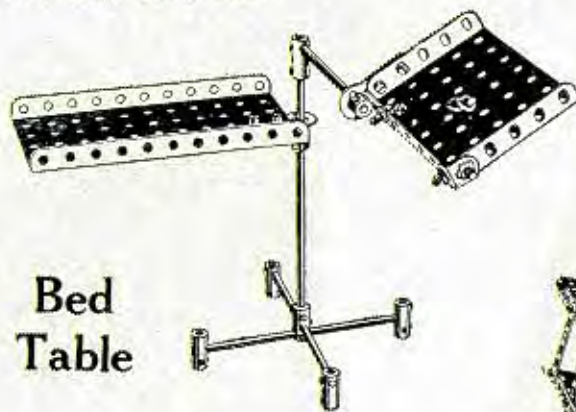
This is a fine model which hardly needs describing. Correct in every detail. Like all the best models it can only be made with Meccano.



To be on the right lines you must start right. Get a Meccano outfit.
You cannot make these models with anything else.

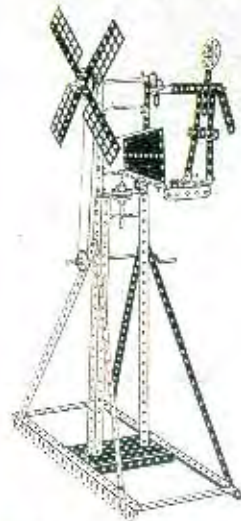
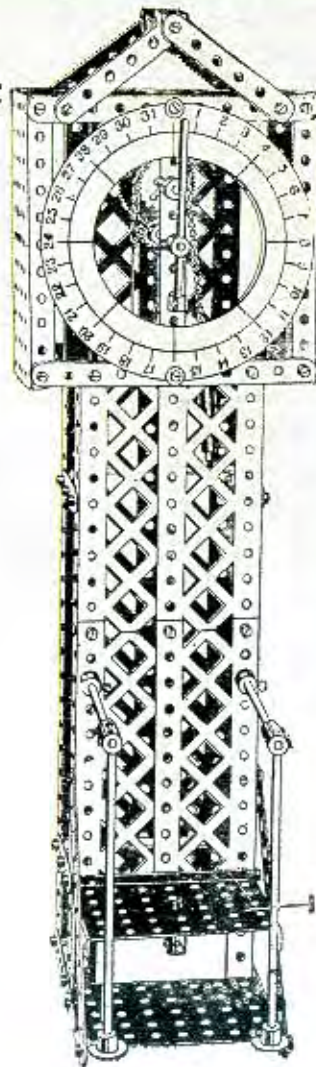


Field Gun

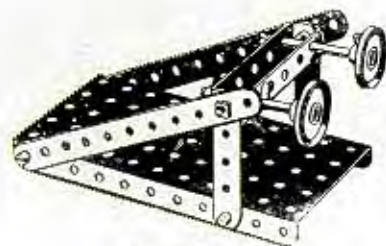


Bed
Table

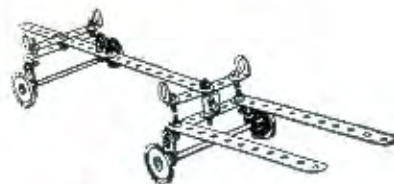
Automatic
Weighing
Machine



Windmill Scare



Buffers

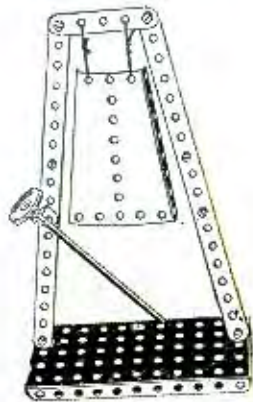


Timber Drag



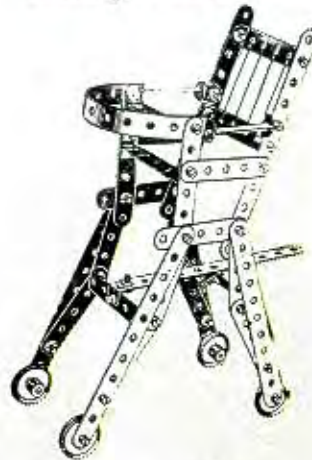
Trench
Periscope

Gong



Get your entry form for the New Meccano Prize Contest

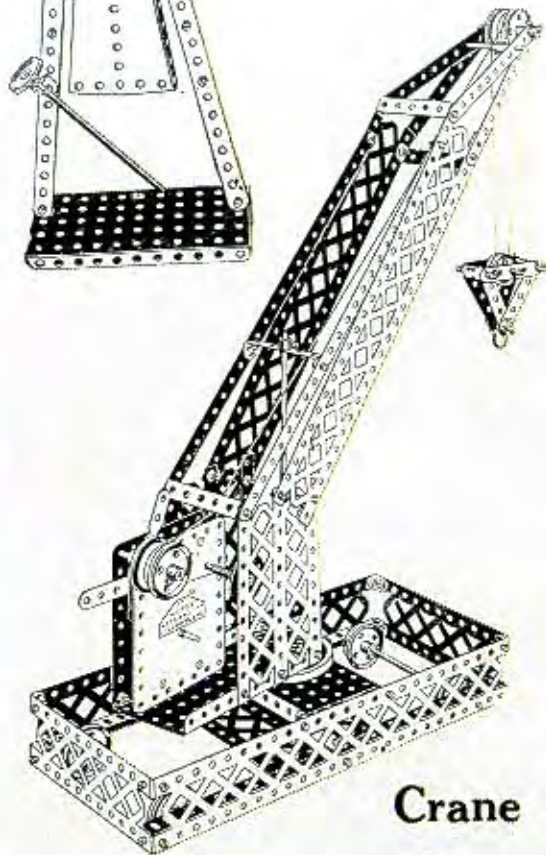
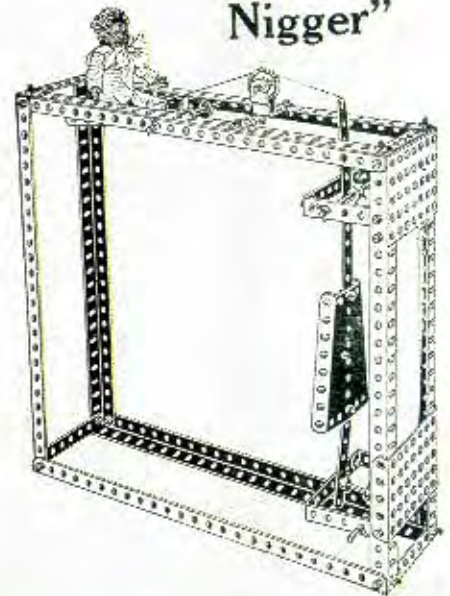
Baby Chair



Bed Table



"Drop the Nigger"

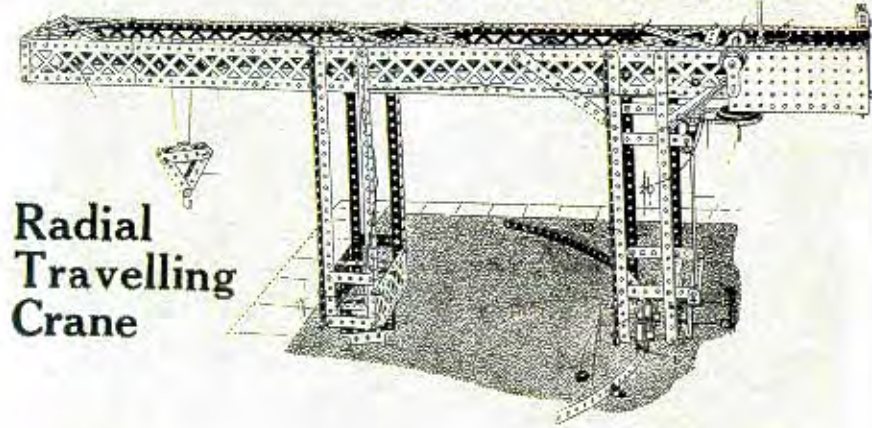


Crane

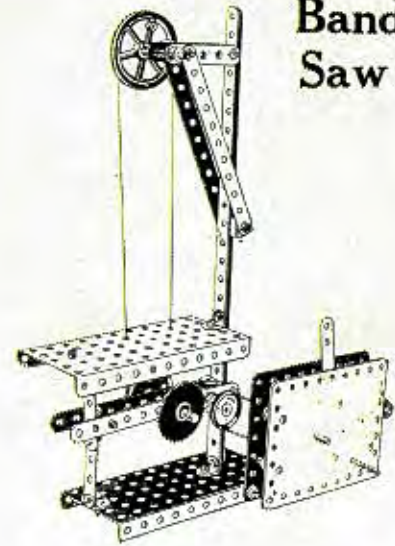


Baby Carriage

Meccano is real engineering for boys.

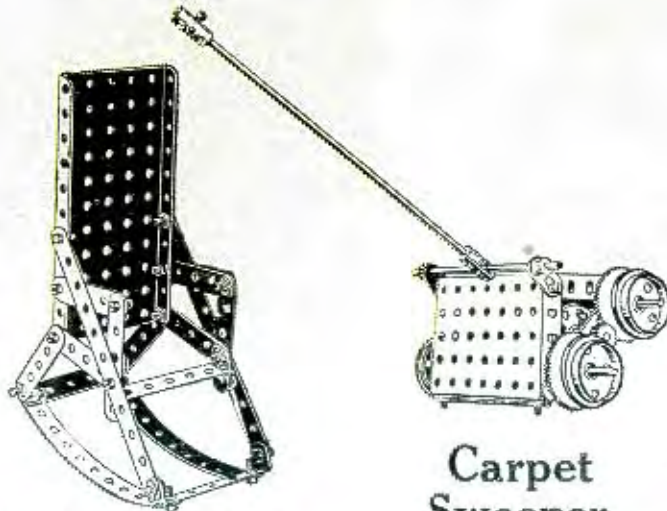
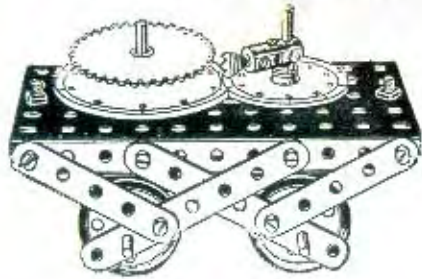


Radial Travelling Crane

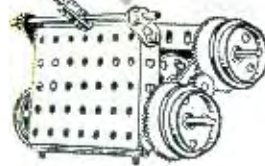


Band Saw

Distance Indicator

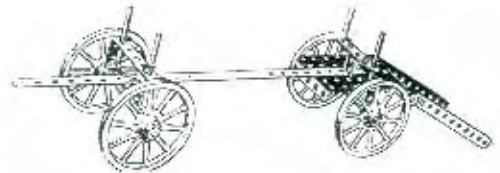


Rocking Chair



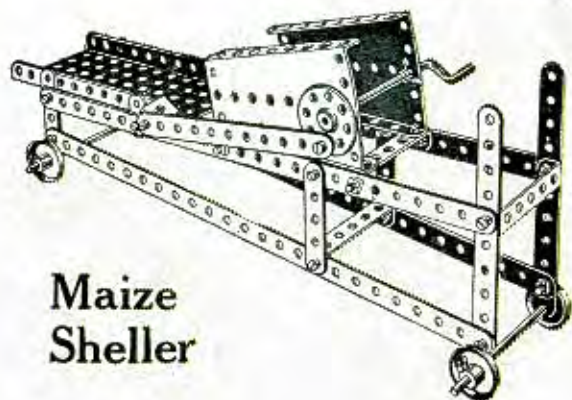
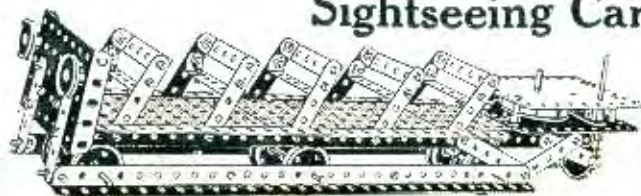
Carpet Sweeper

Timber Carriage



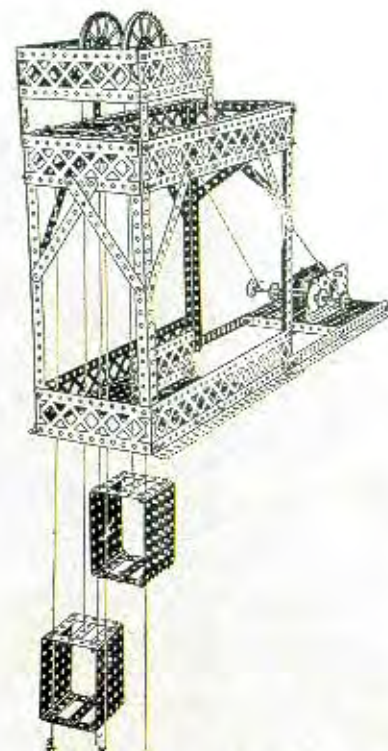
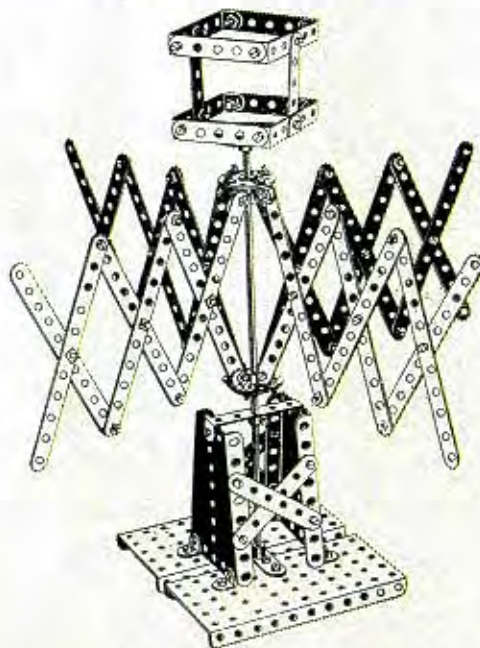
Each regular outfit is complete with all necessary parts and tools. There is nothing further to buy.

Sightseeing Car

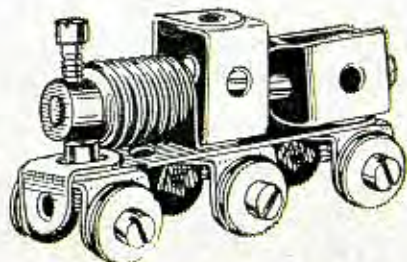


Maize
Sheller

Skein Winder



Pit Head Gear



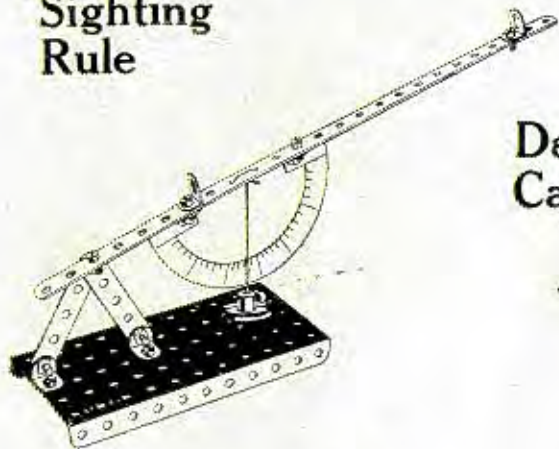
The Meccano Express

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

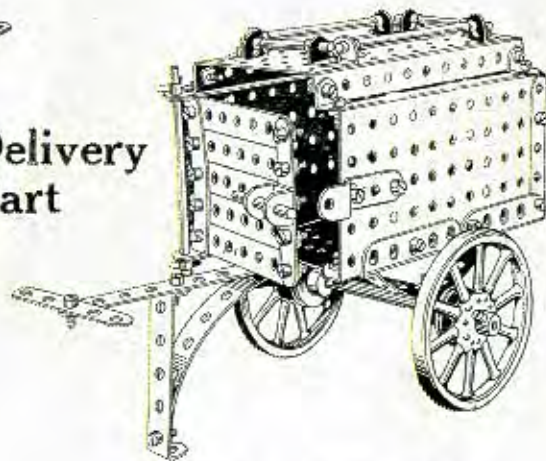


Needlework Basket

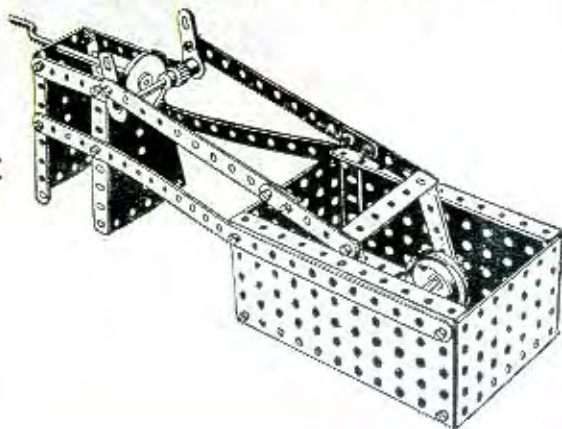
Sighting Rule



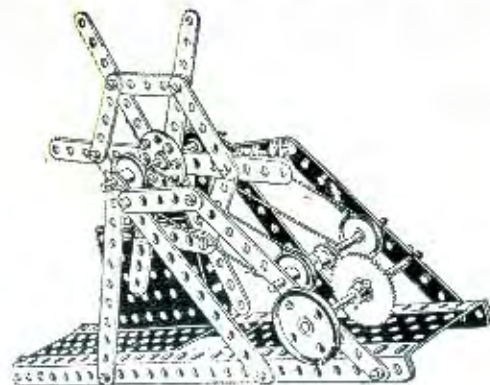
Delivery Cart



Chocolate Mixer



Flax Cleaner

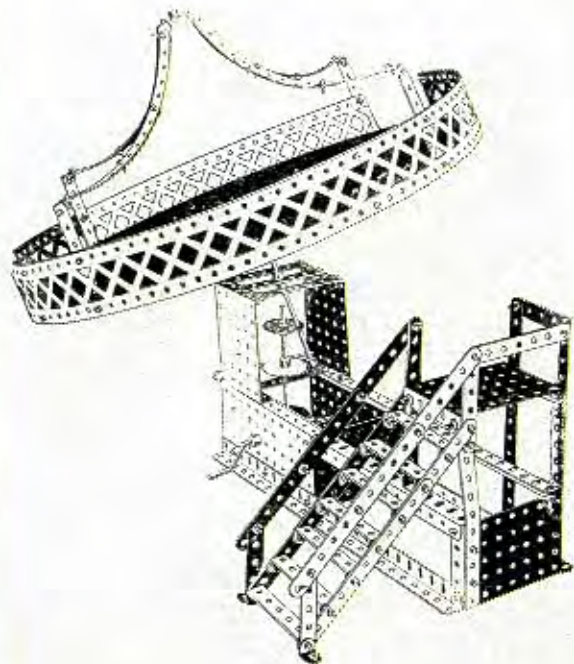


Anti-Aircraft Gun

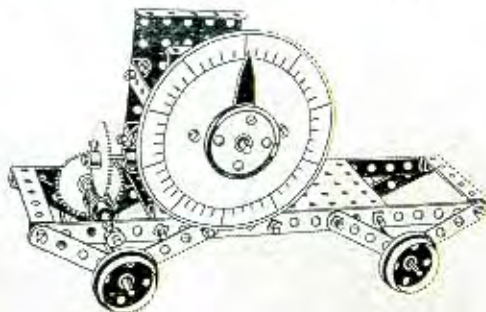


All Meccano models are built on correct engineering principles. Of no other system can this be said.

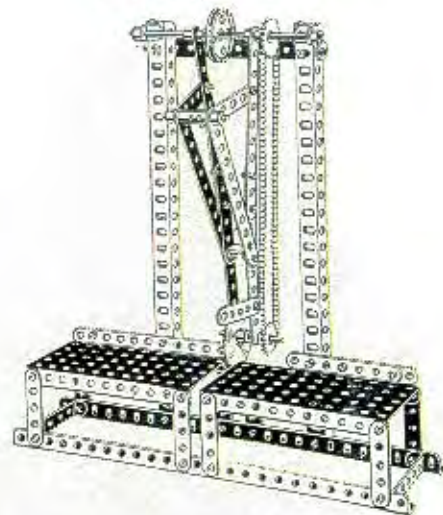
Joy Wheel



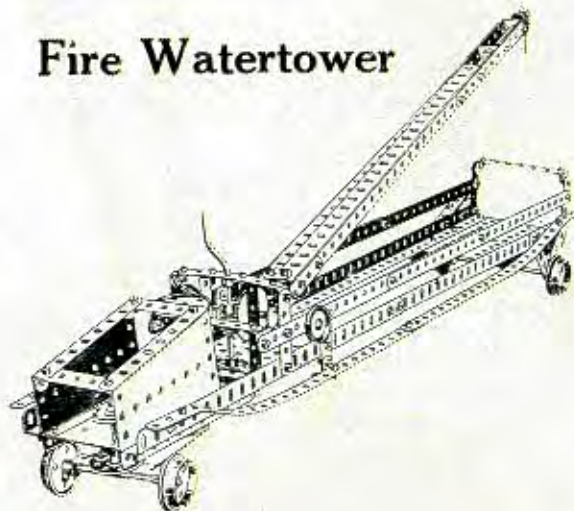
Distance Indicator



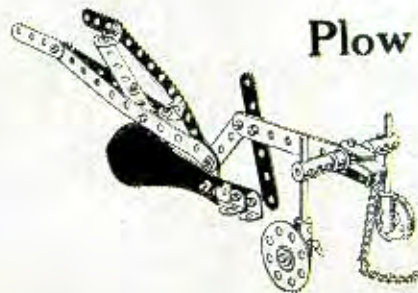
Swing Saw



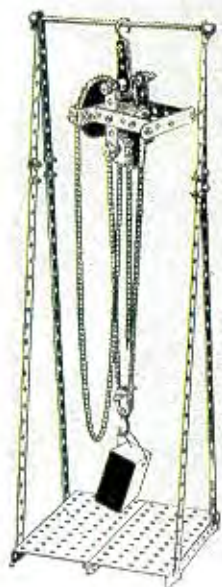
Fire Watertower



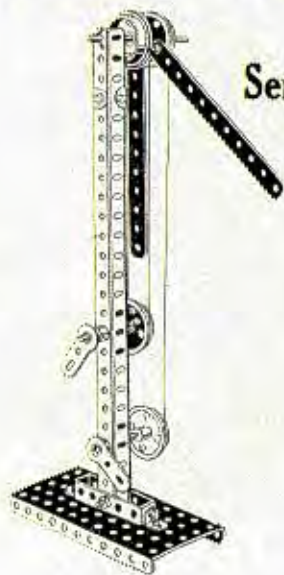
Plow



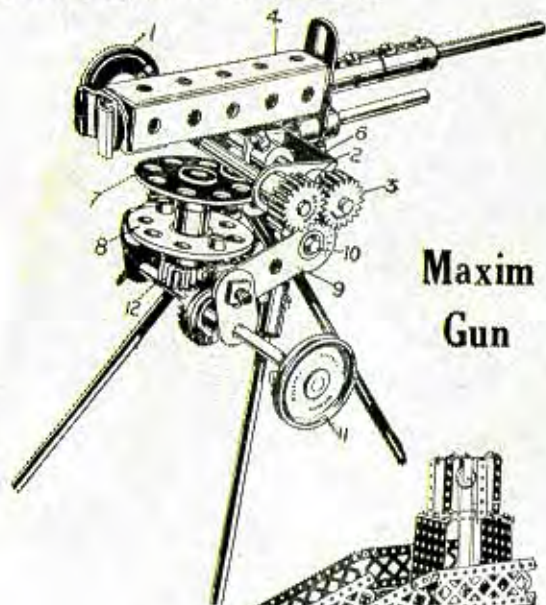
We strongly warn customers against systems which infringe our patents and copyrights. We have established our rights in the U. S. Courts, and shall vigorously proceed against any infringer.



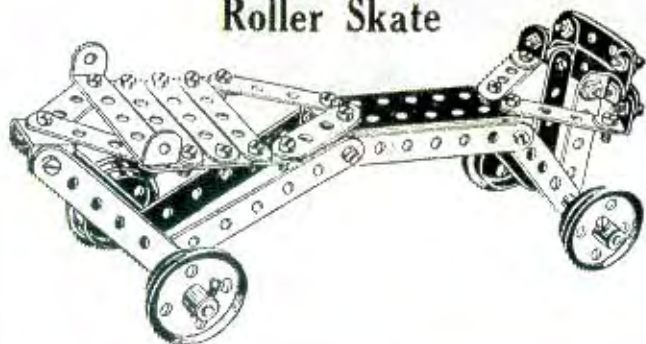
Purchase
Block



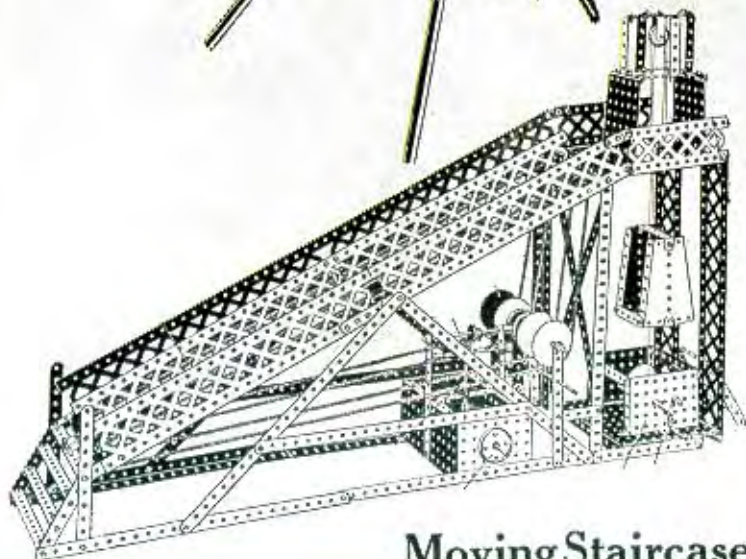
Semaphore



Maxim
Gun



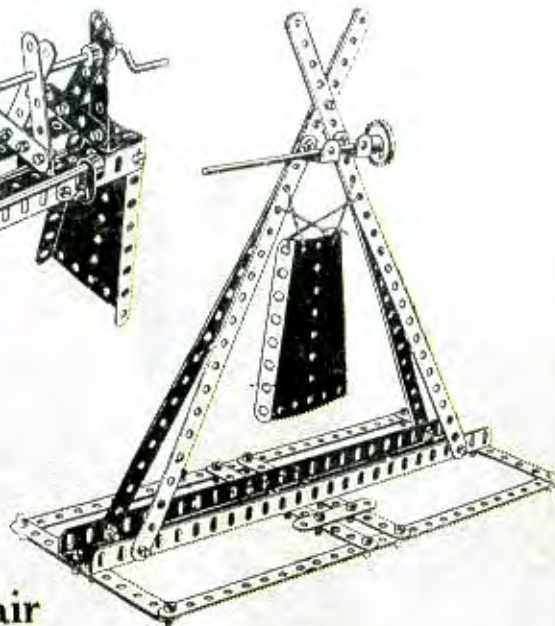
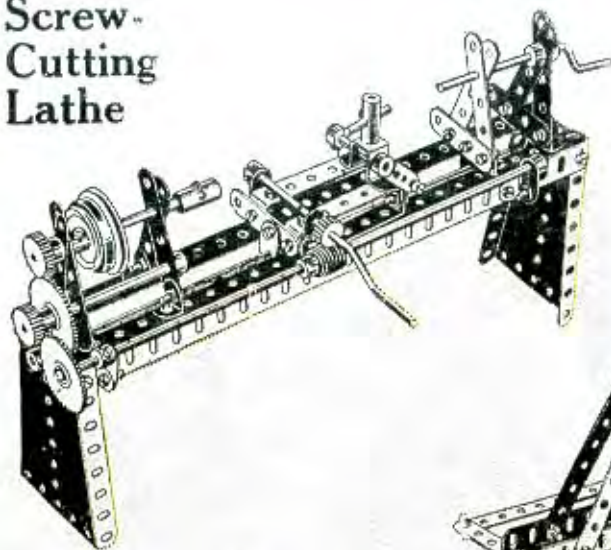
Roller Skate



Moving Staircase

Be an Inventor—Meccano shows you how.

Screw-Cutting Lathe



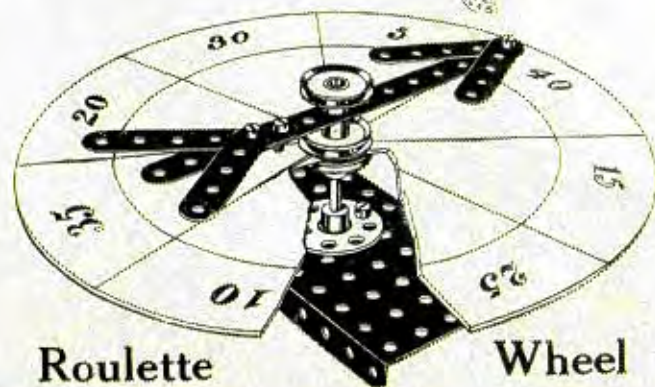
Theatre



Dental Chair



Dinner Gong

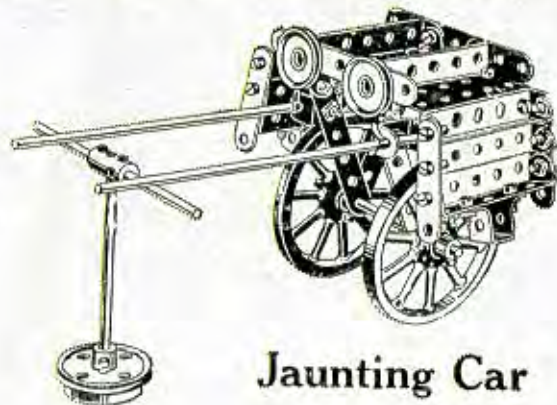
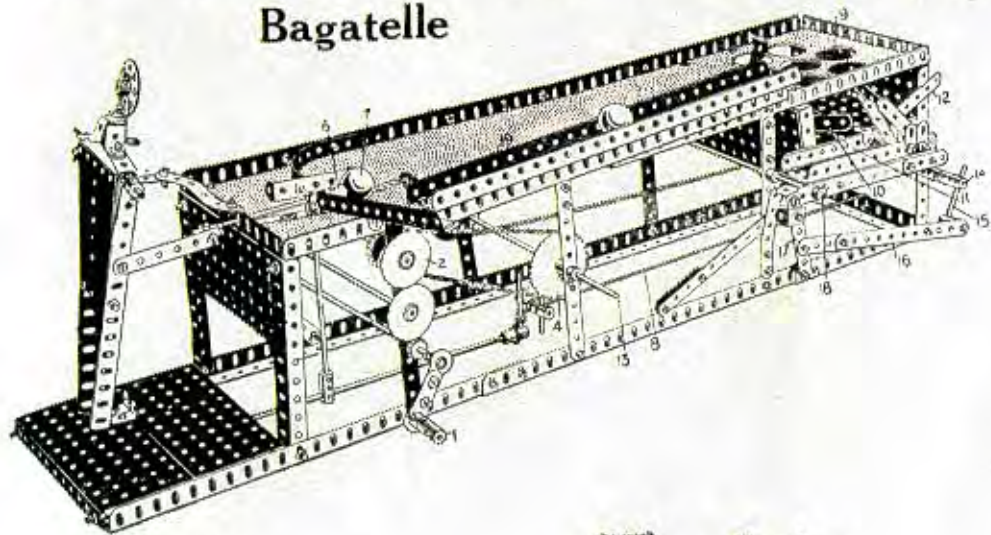


Roulette

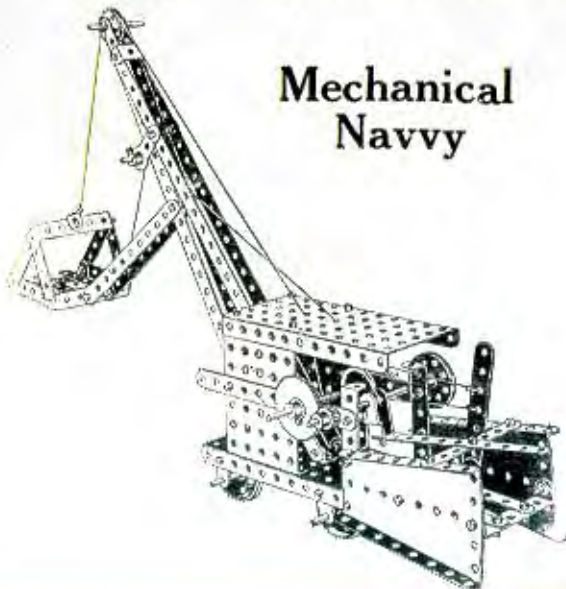
Wheel

Big cash prizes are given to boys who design new models. A new Big Competition has started. Get your entry form.

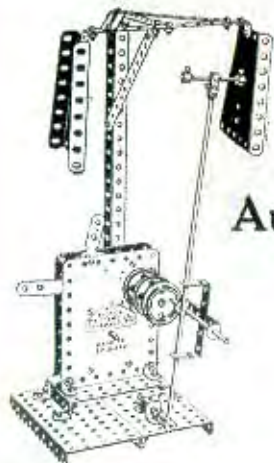
Bagatelle



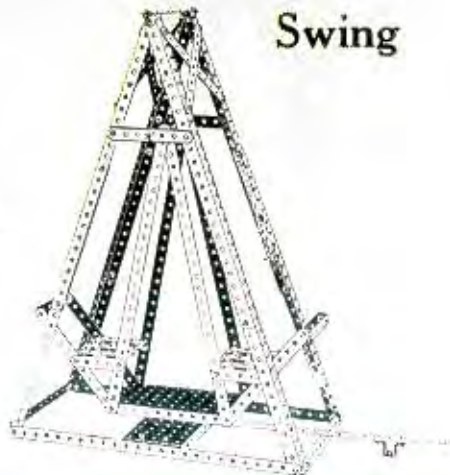
Jaunting Car



Mechanical Navy



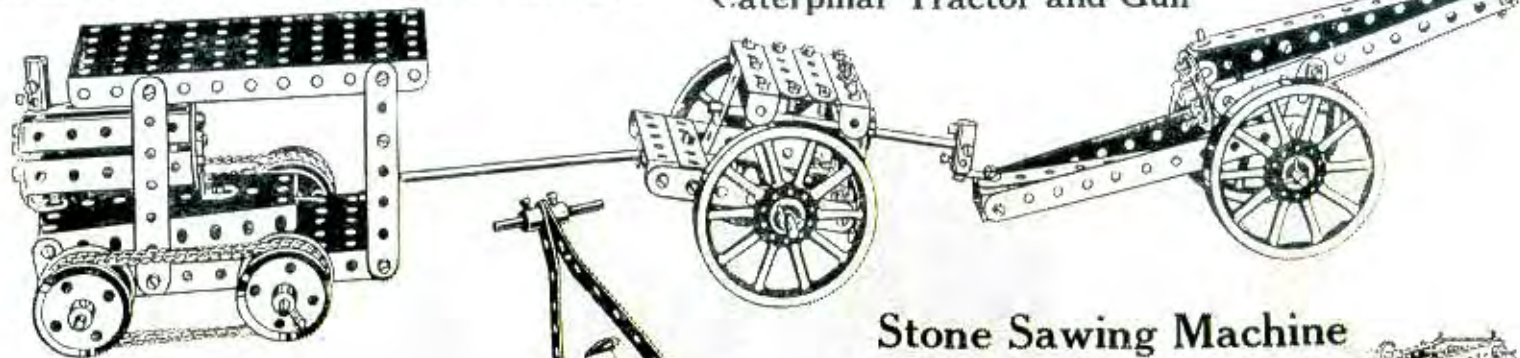
Automatic Gong



Swing

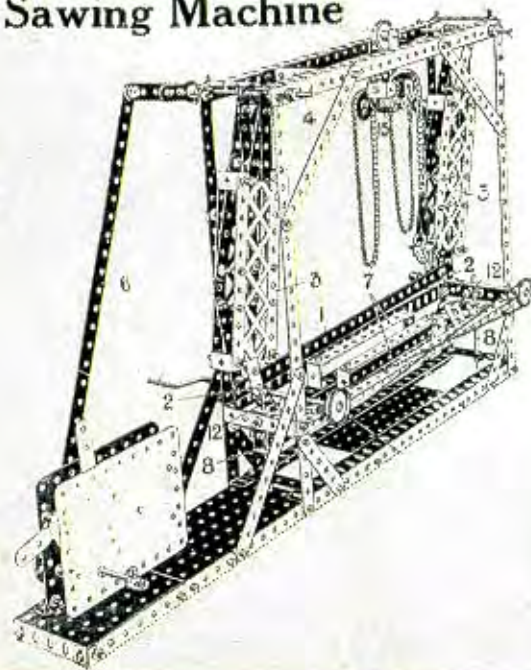
The next step after reading this book is to get your Meccano Outfit. The prices are from \$1 to \$36. See price list on last page.

Caterpillar Tractor and Gun

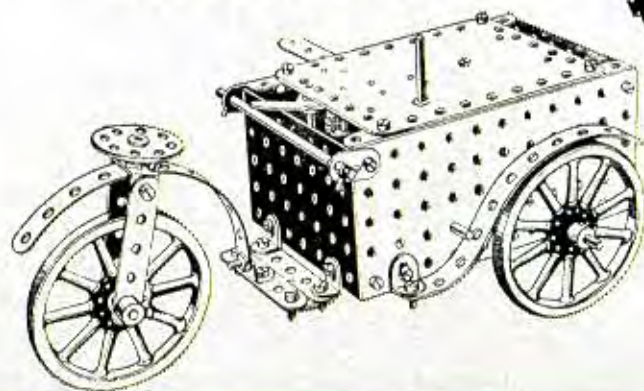


Stone Sawing Machine

Measuring Machine

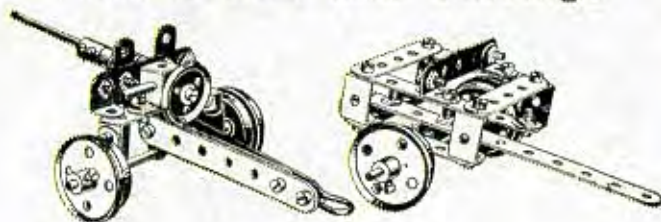


Delivery Van

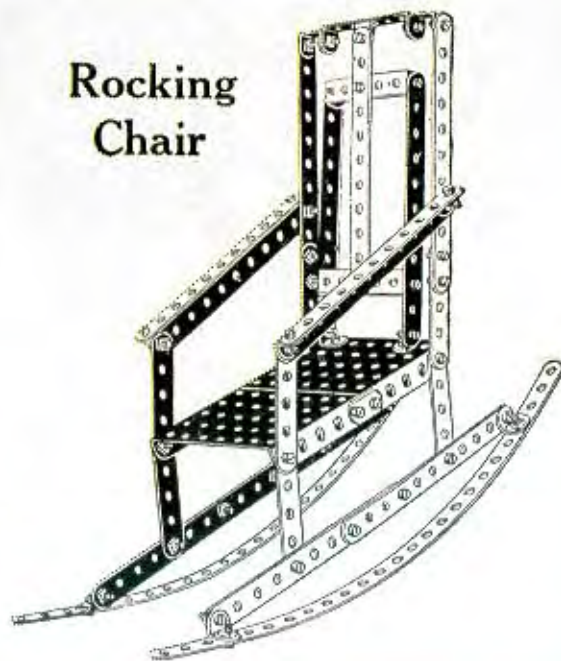


With a Meccano Electric Motor you can put life into your models. This motor is a beauty, designed specially for Meccano.

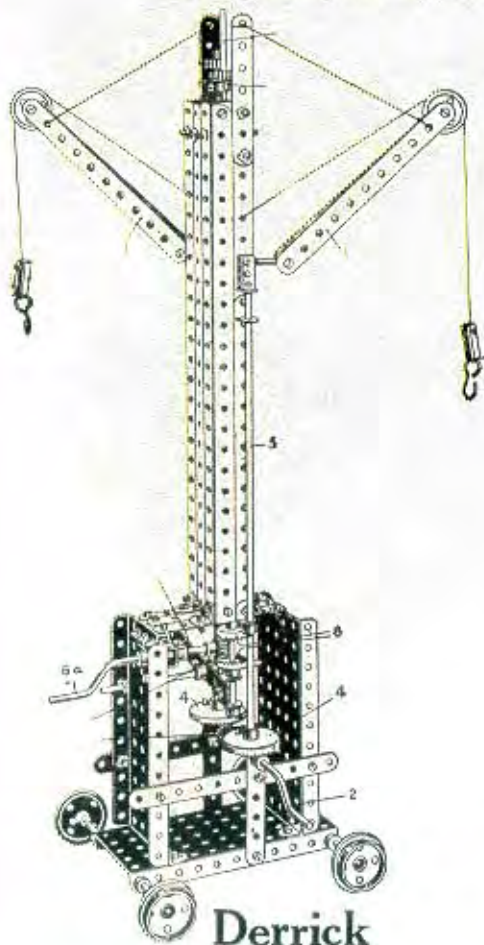
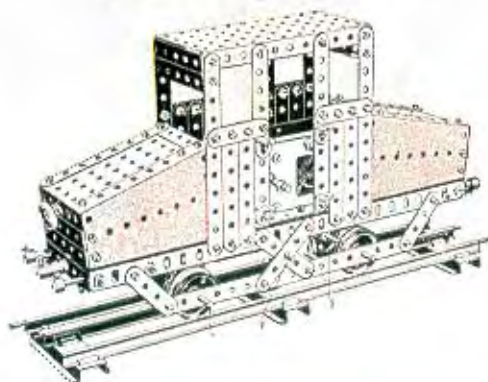
Field Gun and Carriage



Rocking Chair



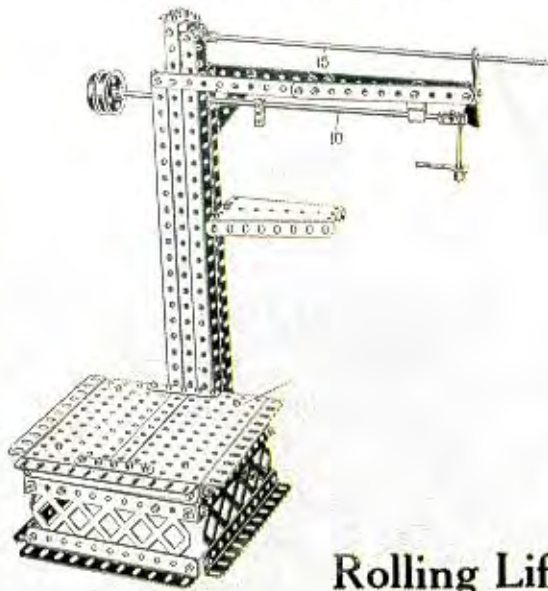
Electric Loco



Derrick

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.

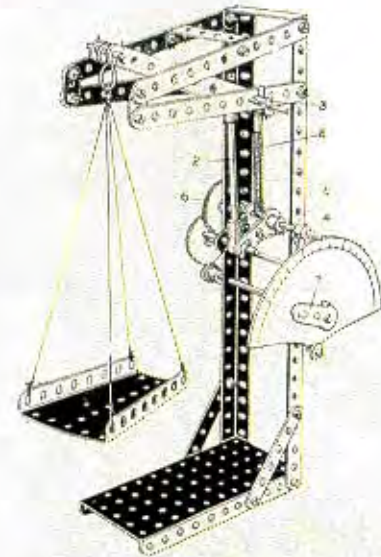
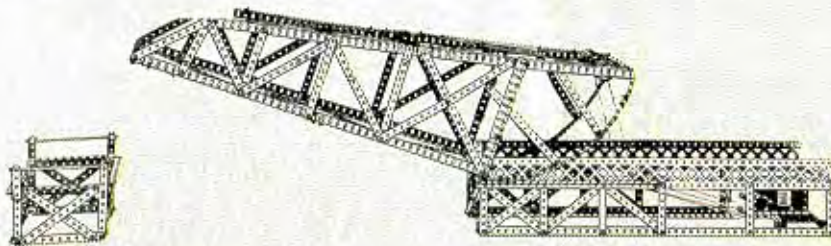
Platform Scales



Box Ball Alley



Rolling Lift Bridge



Spring Scales

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.

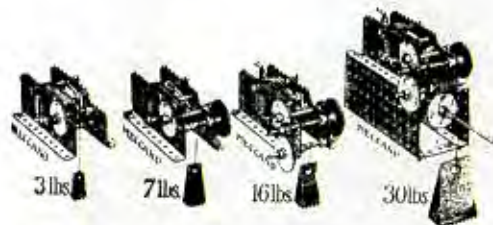
Meccano Electrified

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 machine-shop, 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.

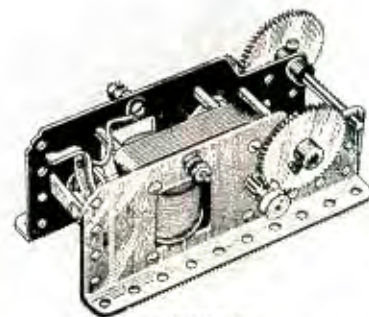


THE MECCANO TRANSFORMER PRICE \$2.00

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 110 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 gears 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.

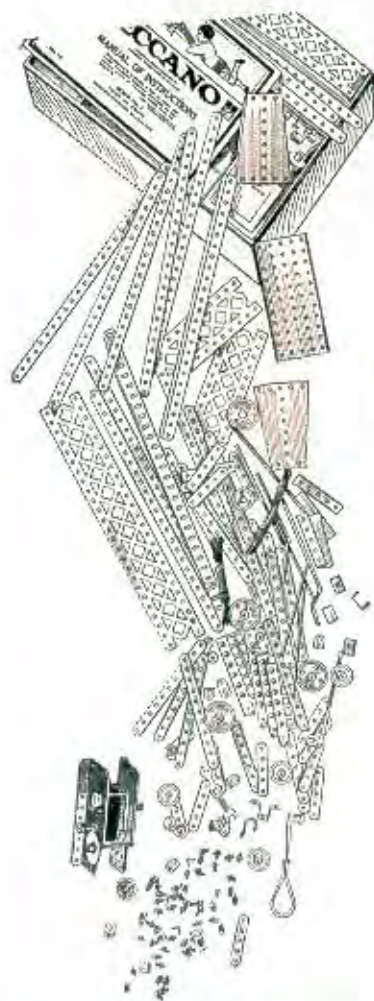


PRICES

- | | | |
|-----|--|--------|
| E1. | .. | \$1.50 |
| E2. | With reversing mechanism
and extra gears .. | \$3.00 |

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 1/2 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.



BUILDS

- | | |
|--|-------------------|
| Trucks | Ore Crusher |
| Baggage Carts | Metal Saw |
| Railroad Cars | Lathe |
| Gleighs | Merry-go-round |
| Swings | Fire Escape |
| Windmills | Candy Puller |
| Cable Railways | Beam Scales |
| Telpher Span | Stamping Mill |
| Jib Crane | Machine Gun |
| Joy Wheel | Anti-aircraft Gun |
| Monoplane | Power Hammer |
| Railroad Bridge | Roulette Wheel |
| Potato Reaper | Spinning Top |
| Derrick | Gong |
| Morse Key | Rock Drill |
| Round-about | Motor Truck |
| Drilling Machine | Railroad Signal |
| Churn | Elevator |
| Potter's Wheel | Designing Machine |
| Torpedo Boat | Hay Stacker |
| See-saw | Dial Press |
| Drop Stamp and hundreds of other interesting models. | |

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.

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.	.. ..	..	..	..	..	..	..	..	3.00
No. 2.	.. ..	..	..	..	..	..	..	..	4.00
No. 2X.	.. ..	..	..	..	..	..	..	..	5.00
No. 3.	.. ..	..	..	..	..	..	..	..	6.00
No. 3X.	.. ..	..	..	..	..	..	..	..	7.50
No. 4.	.. ..	..	..	..	..	..	..	..	10.00
No. 5.	Packed in neat and well-made cardboard box						14.00
Do.	..	Presentation Outfit		..	..	..	..	..	18.00
		Packed in well-made wood box with lock and key								
No. 6.	.. ..	..	..	..	Ditto	Ditto	..	..	36.00
<hr/>										
No. 0A.	Meccano Accessory Outfit	(containing sufficient parts to convert a Meccano No. 0 into a No. 1 Outfit)						\$1.00
No. 1A.	(containing sufficient parts to convert a No. 1 into a No. 2 Outfit)						2.00
No. 2A.	(containing sufficient parts to convert a No. 2 into a No. 3 Outfit)						2.00
No. 3A.	(containing sufficient parts to convert a No. 3 into a No. 4 Outfit)						4.00
No. 4A.	(containing sufficient parts to convert a No. 4 into a No. 5 Outfit)						4.00
		Packed in neat and well-made cardboard box								
No. 5A.	(containing sufficient parts to convert a No. 5 into a No. 6 Outfit)						13.00
		Packed in neat and well-made cardboard box								
Do.	Packed in well-made wood box with lock and key						18.00
Meccano Inventors' Accessory Outfit	.. ..	..	..	..	..	..	..	..	2.00

Prices of Meccano Accessory Parts

No.	Cents	No.	Cents	No.	Cents
1. Perforated Strips, 12½" long	½ doz. 30	22A. 1" diam., without set screw	each 05	52. Perforated Flanged Plate, 5½"x 2½"	each 20
2. " " 5½" "	" 18	23. ¼" " " "	" 05	53. Perforated Flanged Plate, 3½"x 2½"	" 15
3. " " 1½" "	" 15	23A. ¼" " with " "	" 10	54. Perforated Sector Plate	" 15
4. " " 1" "	" 15	24. Bush Wheels	" 15	56. Manual of Instructions	" 35
5. " " 2½" "	" 10	25. Pinion Wheels, ¼" diam., 24 teeth	" 15	56A. Meccanograph Manual of In- structions	" 25
6. " " 2" "	" 10	26. " " ¼" " 20 teeth	" 40	57. Hooks	" 01
8. Angle Girders, 12½" long	" 45	27. Gear Wheels, 30 teeth to gear with ¼" pinion	" 25	58. Spring Cords, per length	" 20
9. " " 5½" "	" 30	27A. Gear Wheels, 36 teeth to gear with ½" pinion	" 40	59. Collars and Set Screws	" 05
10. Flat Brackets	" 05	28. Contrate Wheels, 1½" diam.	" 40	60. Bent Strips, 2½" long	per ½ doz. 15
11. Double Brackets	each 03	29. " " ¾" "	" 25	61. Windmill Sail	each 05
12. Angle Brackets	doz. 10	32. Worm Wheels	" 20	62. Crank	" 10
13. Silver Steel Axle Rod, 11½" long	each 05	33. Pawls	" 05	63. Coupling	" 10
13A. Axle Rods, 8" long	" 05	34. Spanners	" 10	64. Centre Fork	" 05
14. " " 6" "	" 03	35. Spring Clips	per box (doz.) 10	94. Sprocket Chain, per yard	" 15
15. " " 4" "	" 03	36. Screw Drivers	each 10	95. Sprocket Wheel, 2" diam.	each 20
15A. " " 4½" "	" 03	37. Nuts and Bolts	per box (doz.) 10	96. " " 1" "	" 15
16. " " 3½" "	" 03	37A. Nuts	" 05	99. Braced Girders, 12½" long	per ½ doz. 50
17. " " 2" "	" 02	38. Washers	doz. 05	100. " " 5½" "	" 35
18A. " " 1" "	" 02	40. Hanks of Cord	each 03	101. Healds	for Looms, doz. 30
19. Crank Handles	" 05	41. Propeller Blades	per pair 15	102. Single Bent Strip	each 05
19A. Wheels, 3" diam.	" 25	43. Spring	each 05	103. Perforated Flat Girder Strip, 5½" long	" 05
20. Flanged and Grooved Wheels	" 20	44. Cranked Bent Strip	" 05	104. Shuttle	" 50
Pulley Wheels.		45. Double Bent Strip	" 05	105. Reed Hook	" 05
20A. 2" diam., with set screw	" 20	46. Large Bent Strip	" 05	106. Roller	" 10
21. 1½" " " "	" 15	47A. Dynamometers (tension)	" 50	S1. Spring Motor	" 2.50
22. 1" " " "	" 10	50. Eye Piece	" 05	E1. Electric Motor	" 1.50
				E2. " " "	" 3.00



Meccano
Prize Models