

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 of 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,

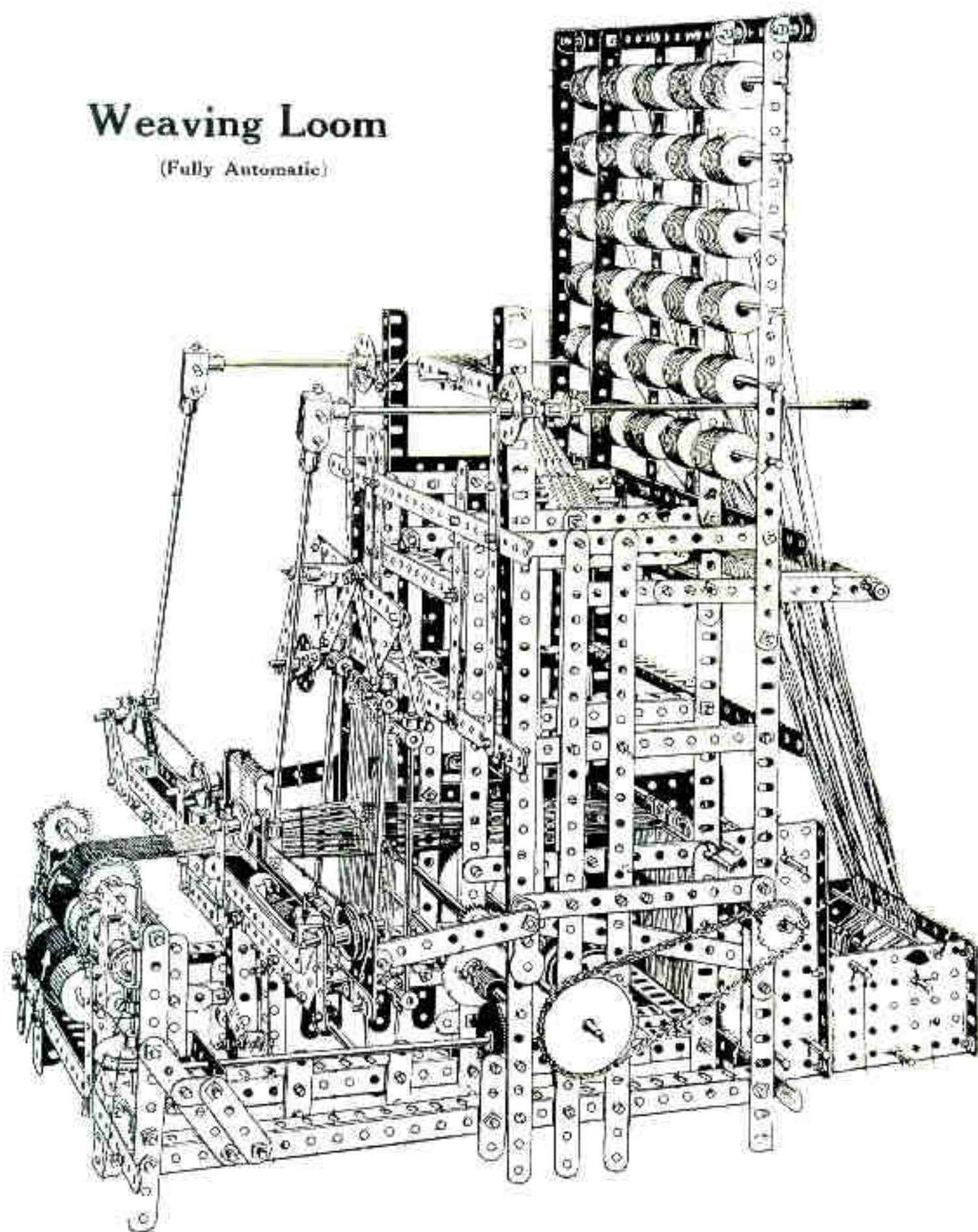
Southern District of Ohio

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.

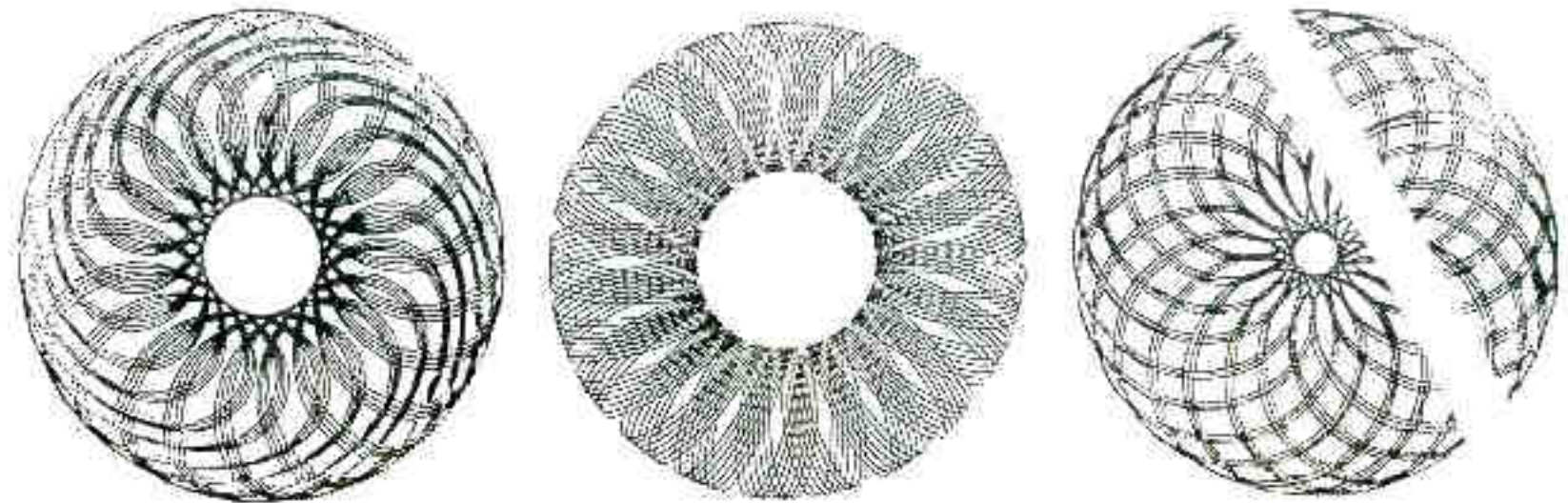
Weaving Loom

(Fully Automatic)

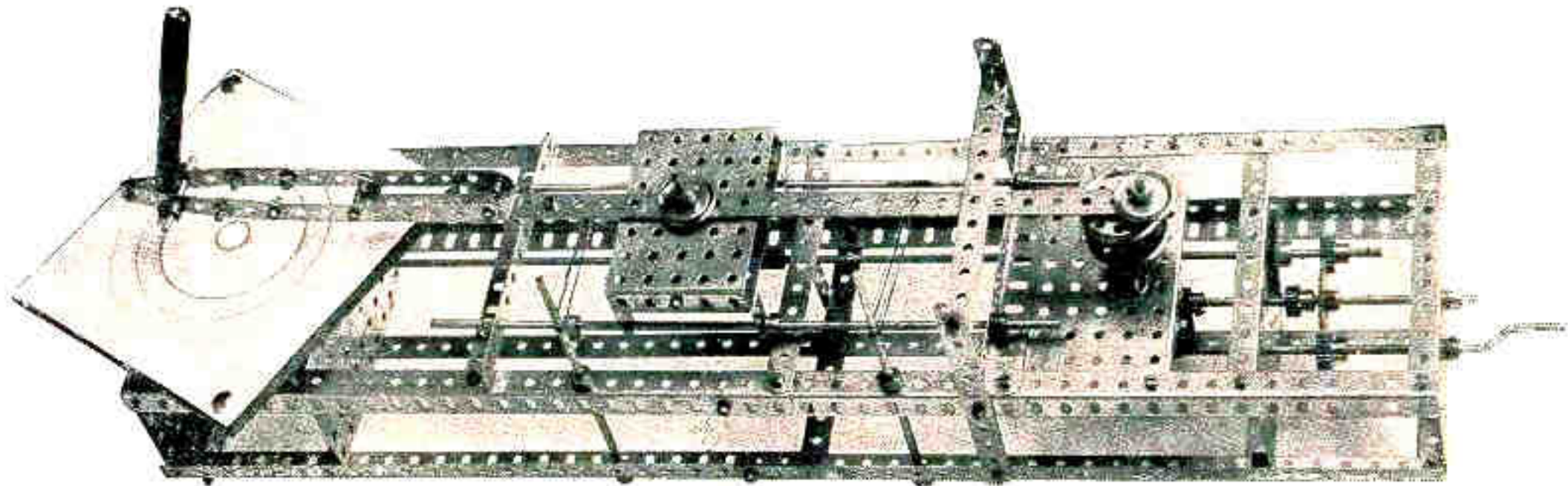


This wonderful loom took one of the first prizes in the Meccano Competition. It is perfect in every detail, and when the handle is turned it will automatically weave neckwear or belts, in all designs and colors, just as good as the best you can buy in the Stores. It looks a little complicated, perhaps, 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



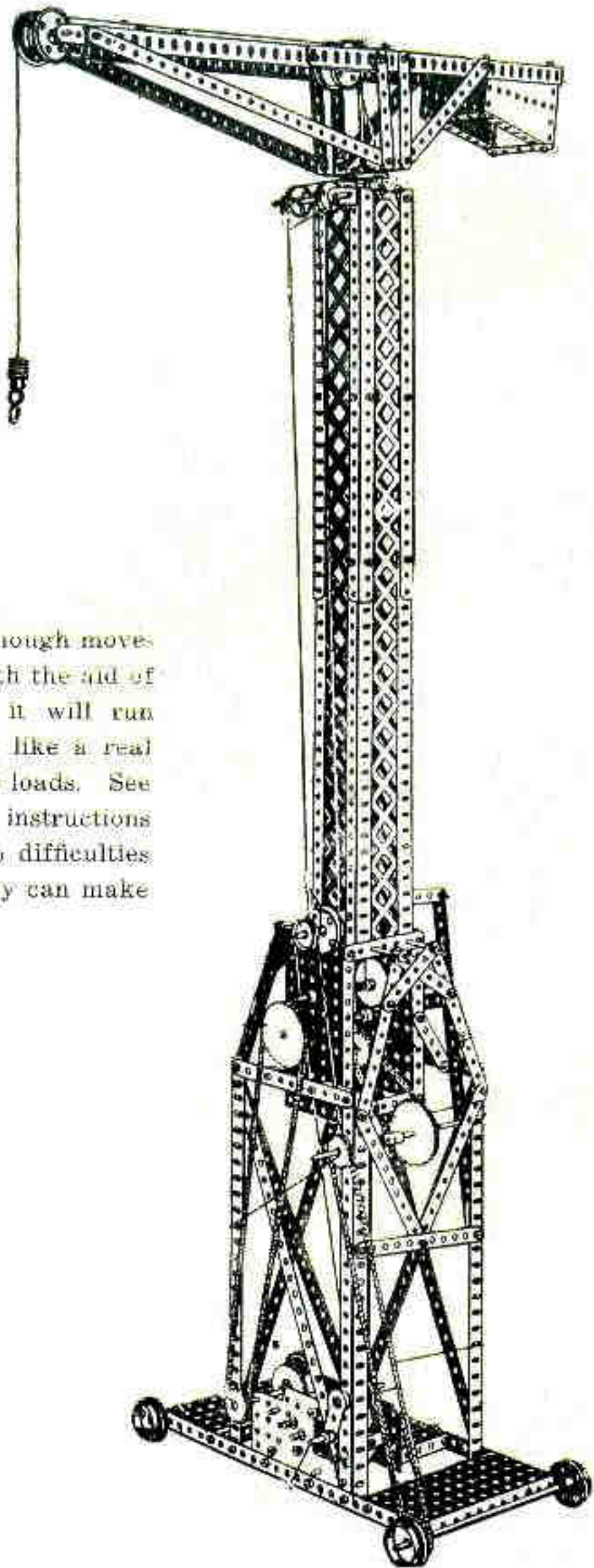
Specimen designs drawn on the Meccanograph



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.

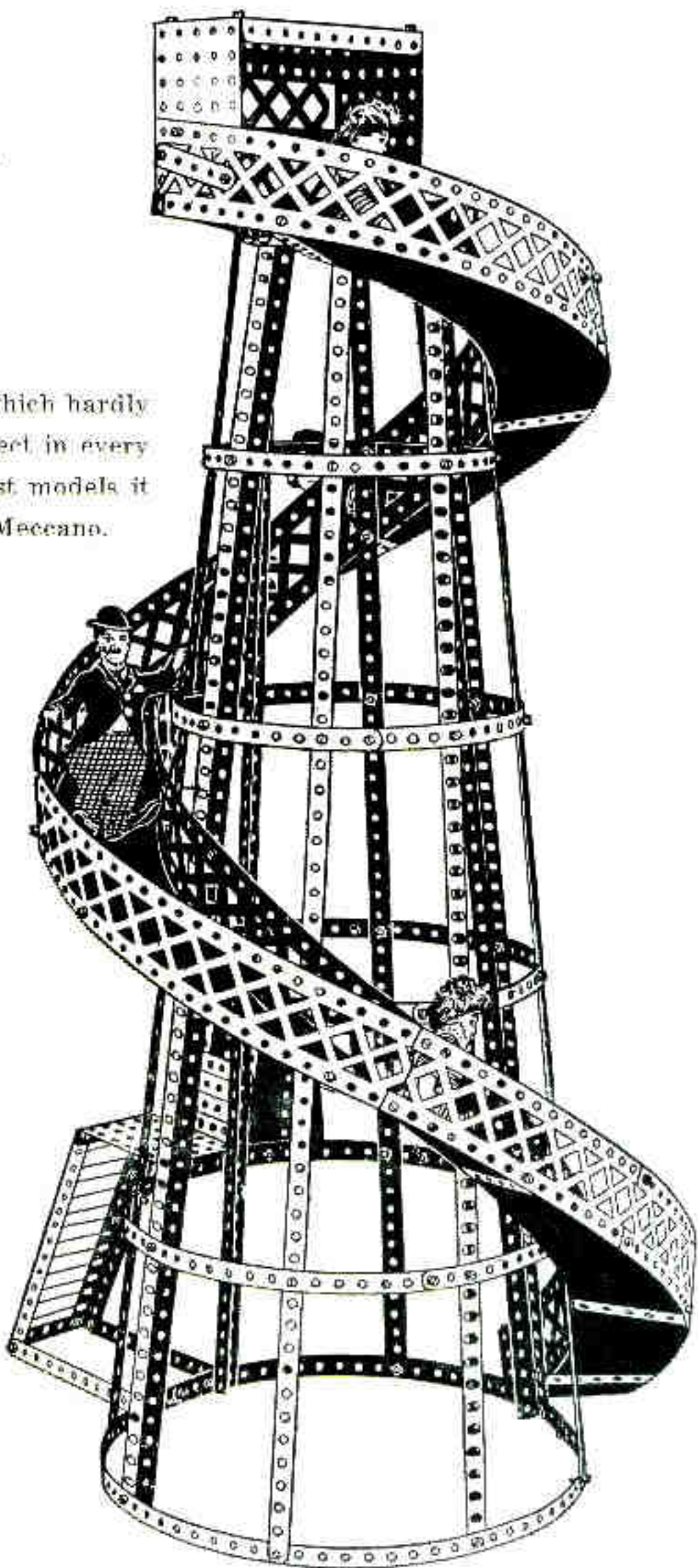
Girder Crane

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.

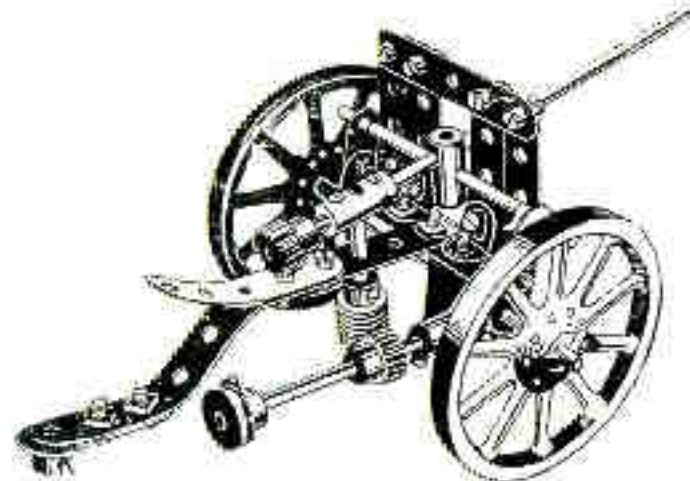


Helter Skelter

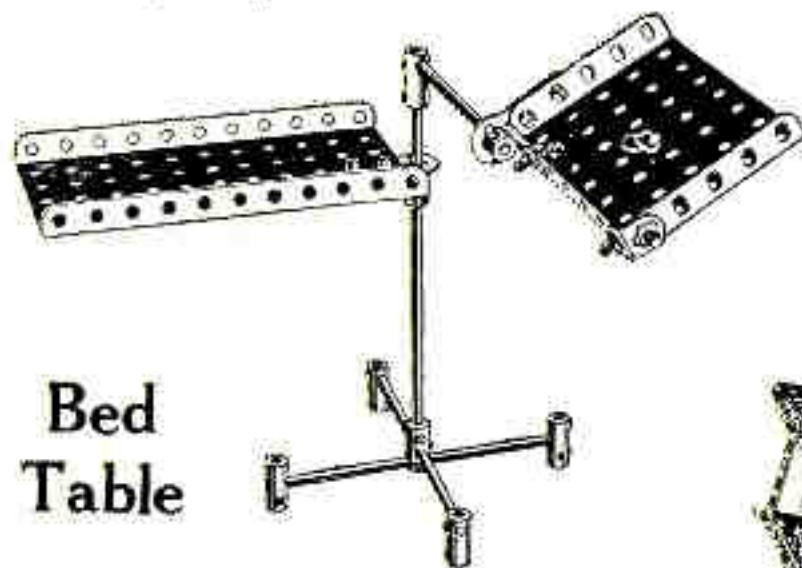
This is a fine model which hardly needs describing. Correct in every detail. Like all the best models it can only be made with Meccano.



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

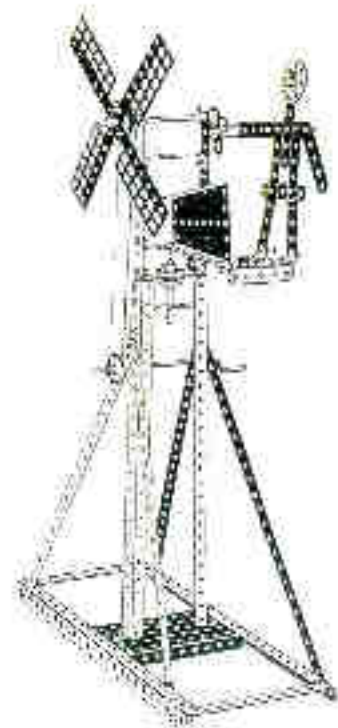
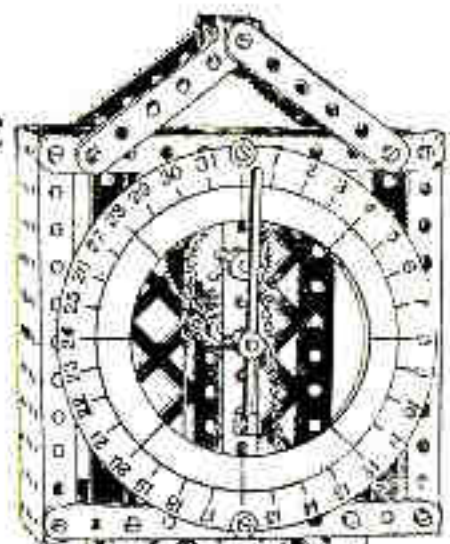


Field Gun

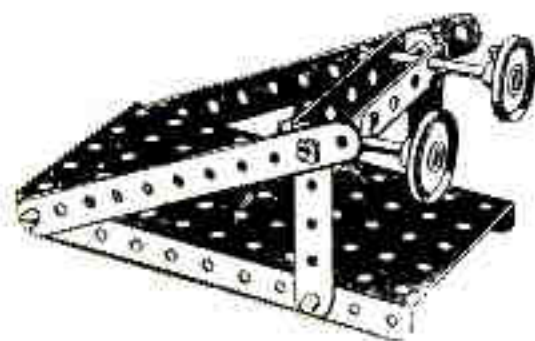


Bed Table

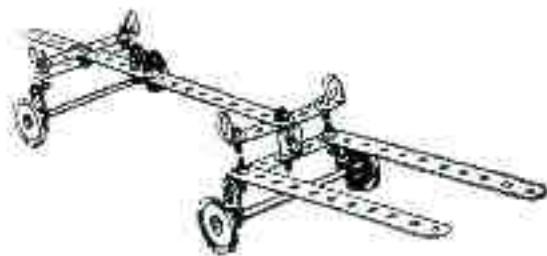
Automatic Weighing Machine



Windmill Scare



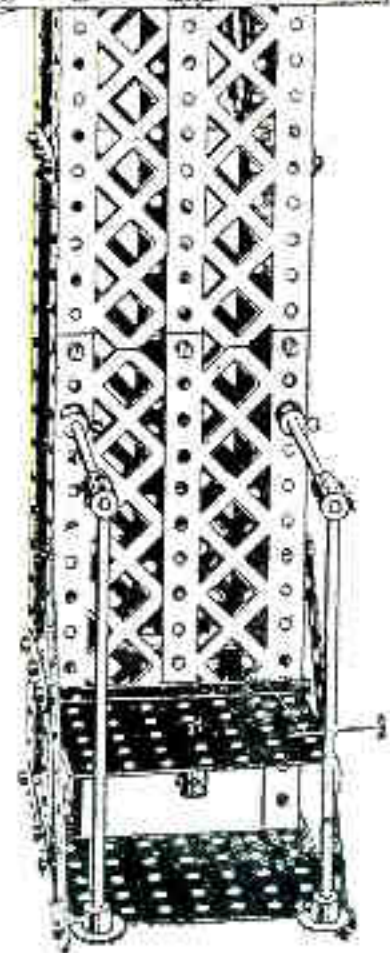
Buffers



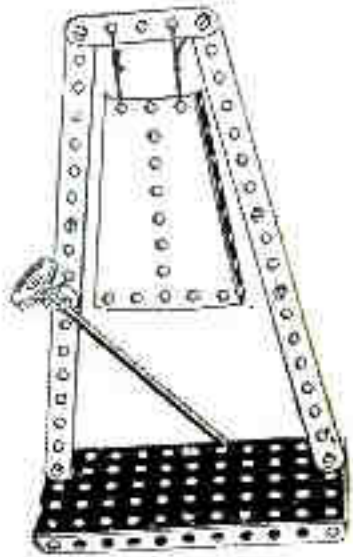
Timber Drag



Trench Periscope

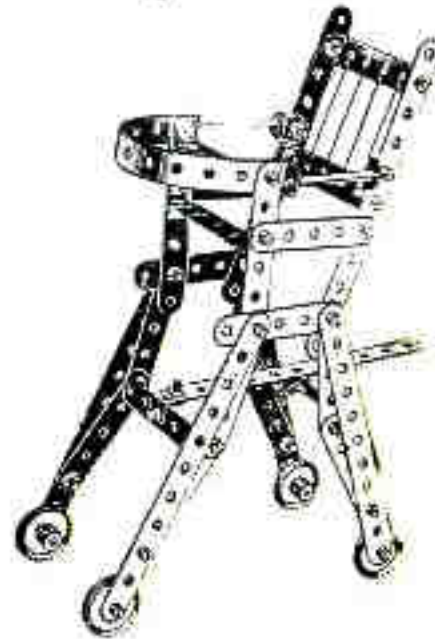


Gong



Get your entry form for the New Meccano Prize Contest

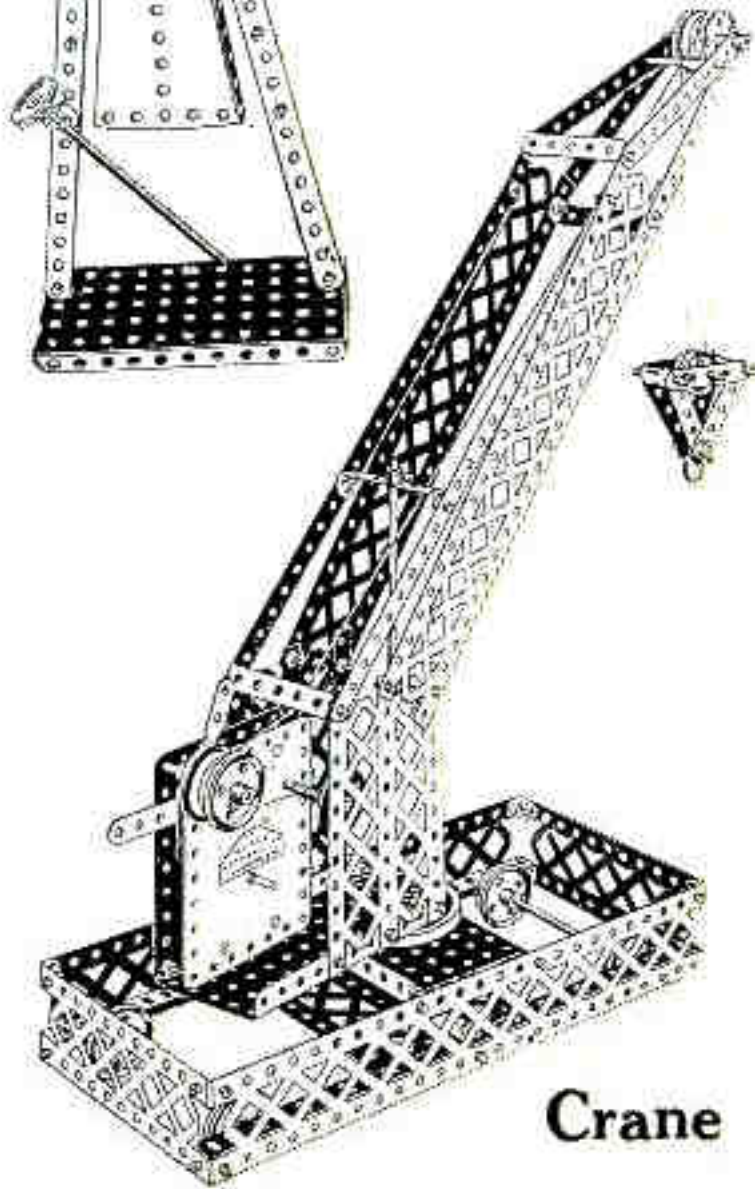
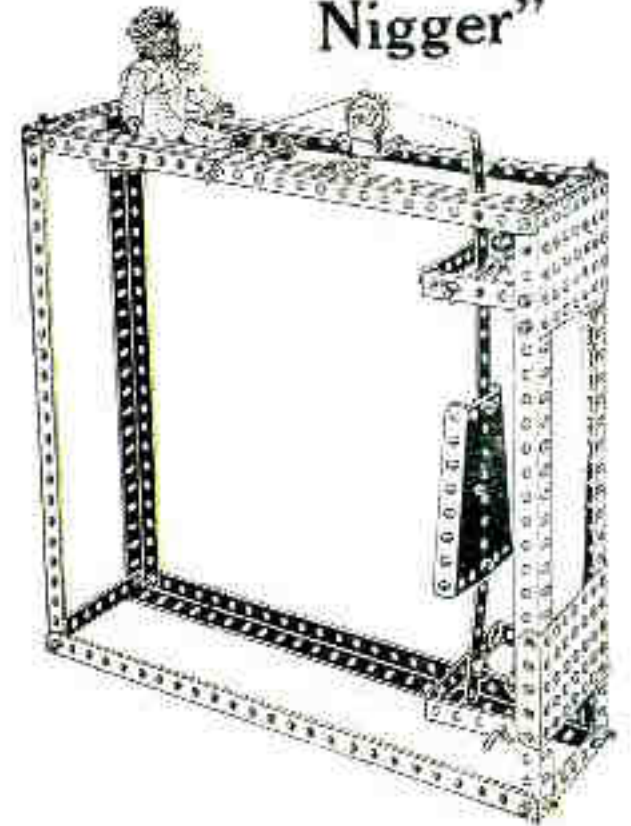
Baby Chair



**Bed
Table**



**"Drop the
Nigger"**



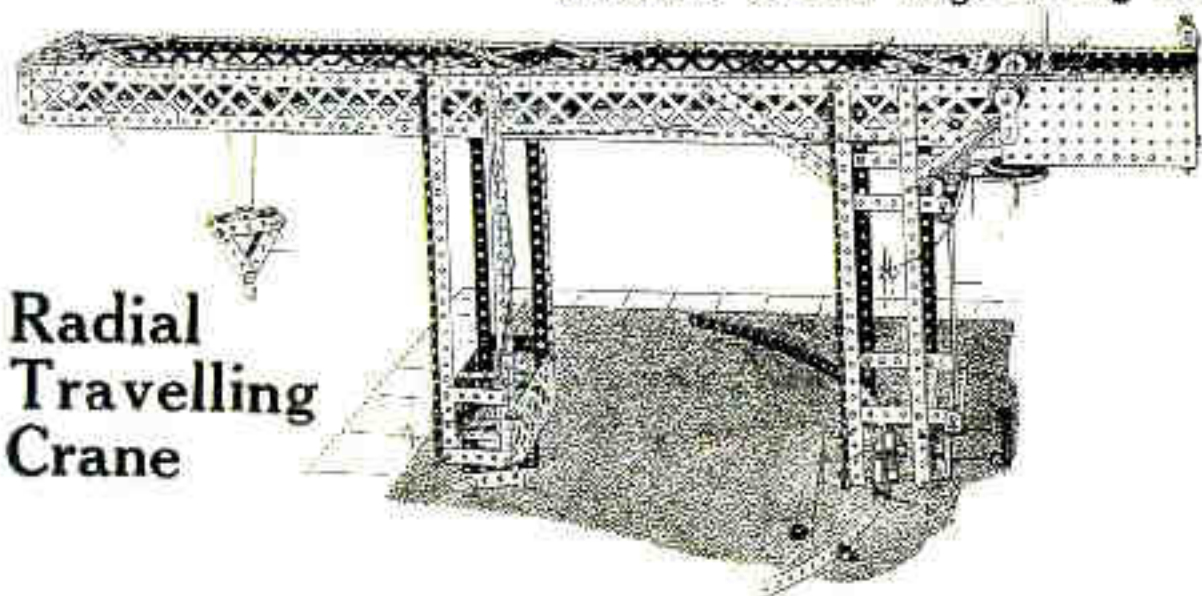
Crane



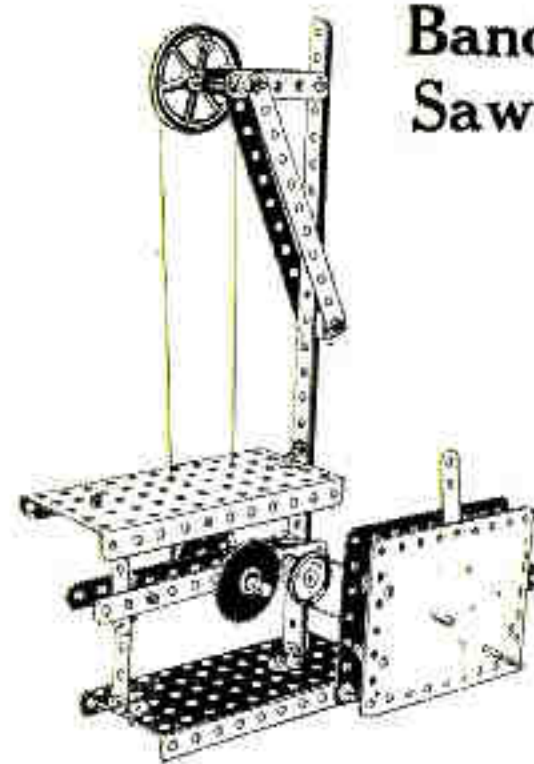
Baby Carriage

Meccano is real engineering for boys.

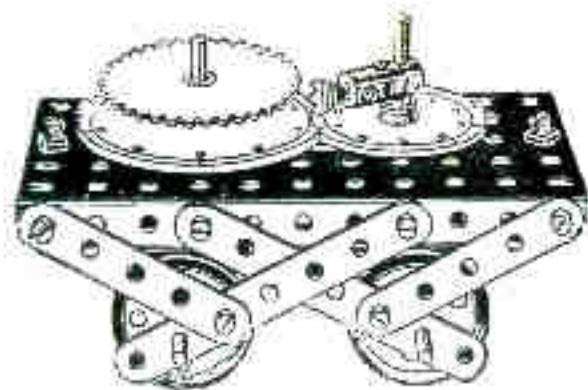
Radial Travelling Crane



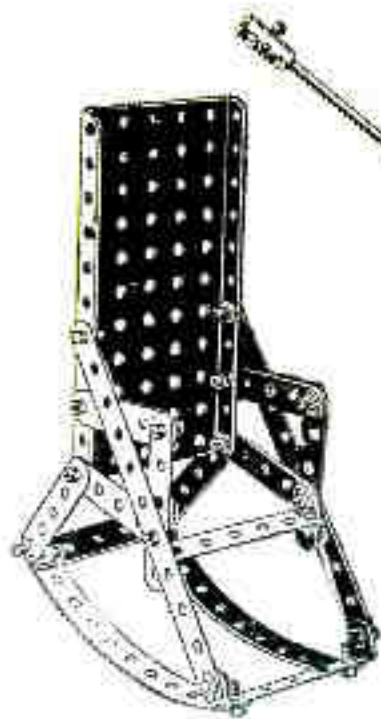
Band Saw



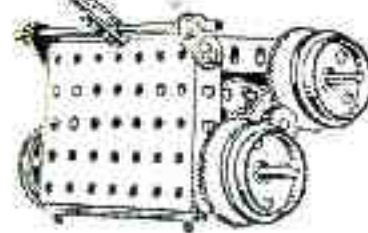
Distance Indicator



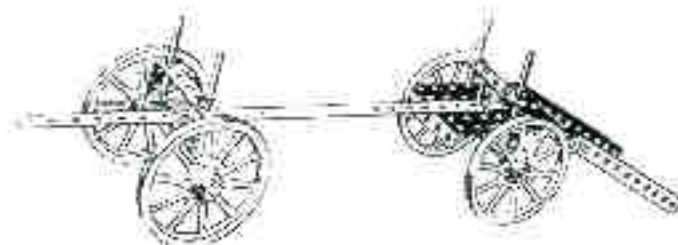
Rocking Chair



Carpet Sweeper

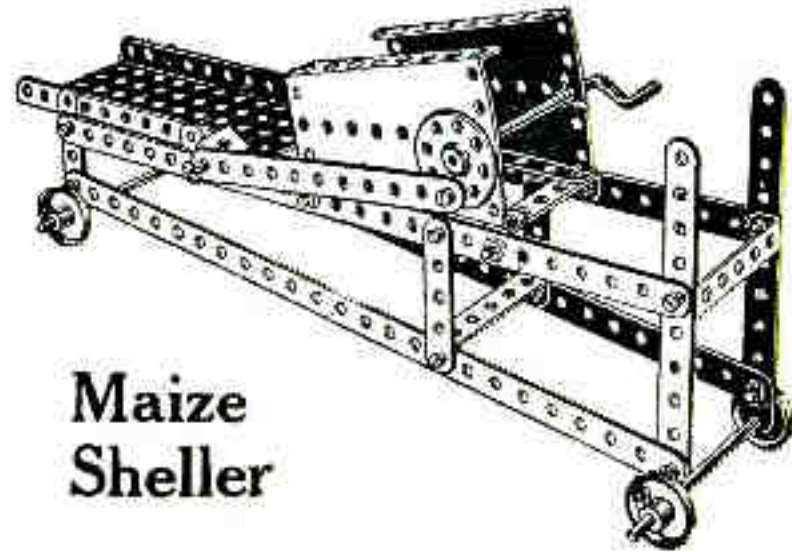
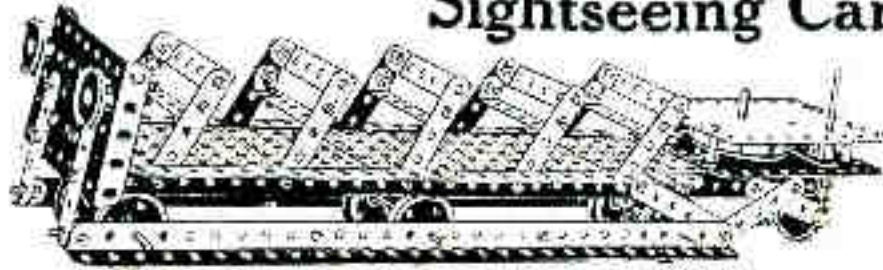


Timber Carriage



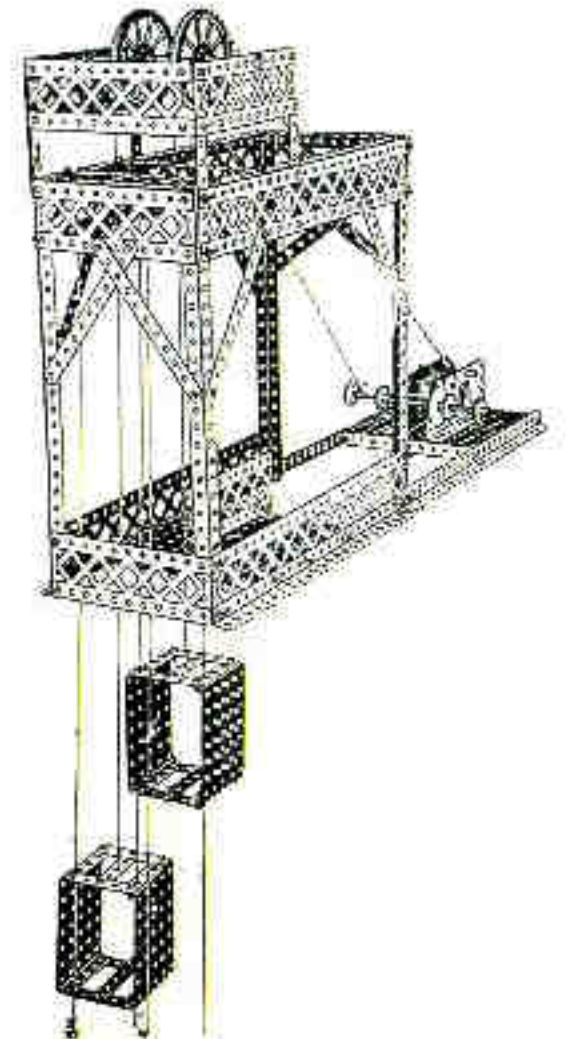
Each regular outfit is complete with all necessary parts and tools. There is nothing further to buy.

Sightseeing Car

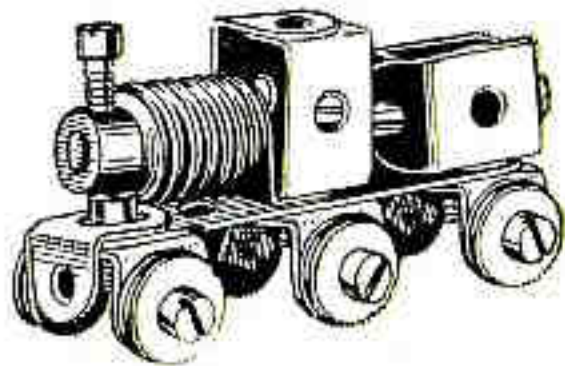


Maize
Sheller

Skein Winder



Pit Head Gear



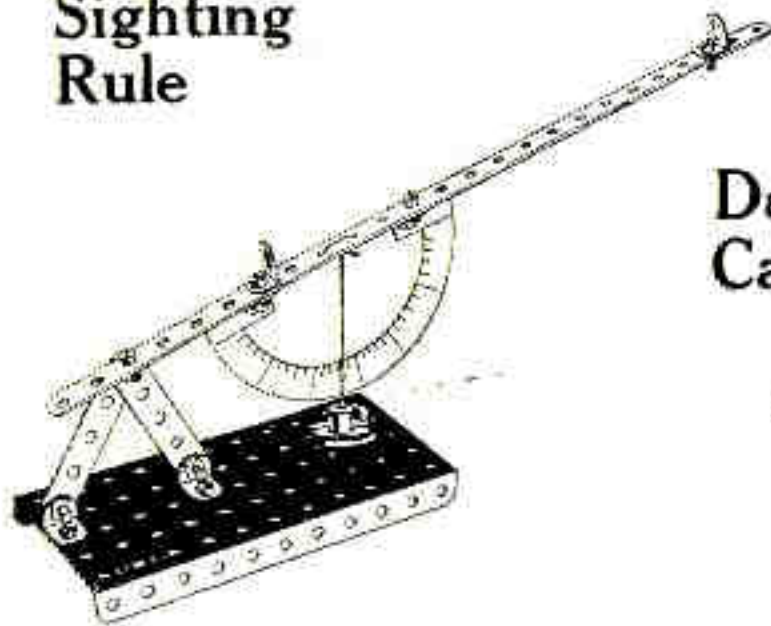
The Meccano Express

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

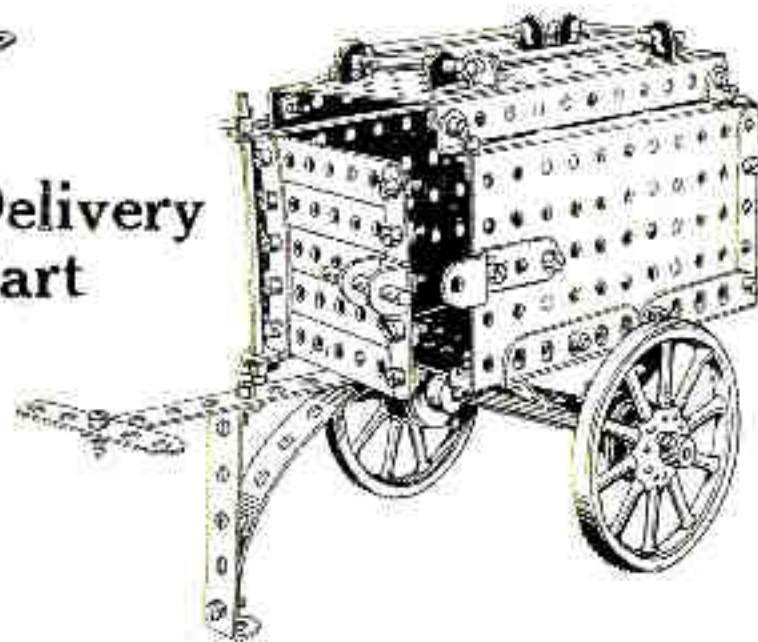


Needlework Basket

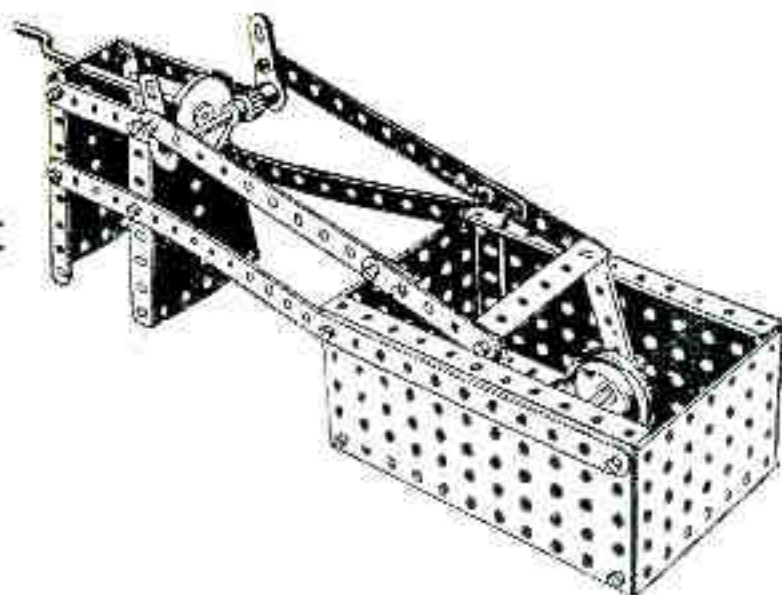
Sighting Rule



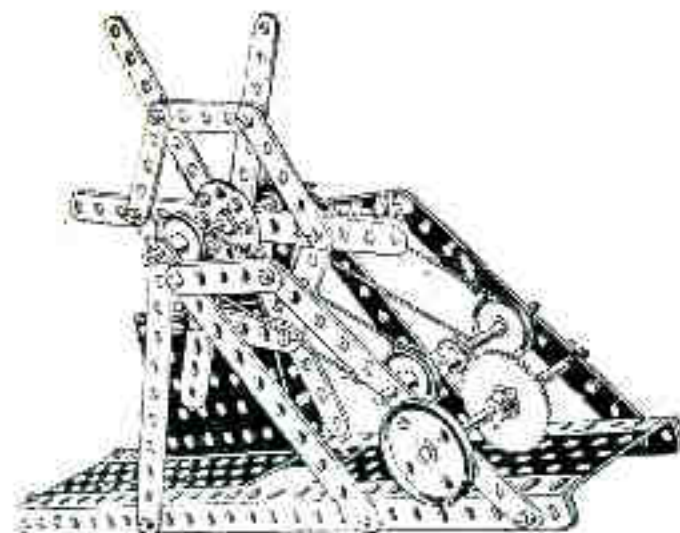
Delivery Cart



Chocolate Mixer



Flax Cleaner

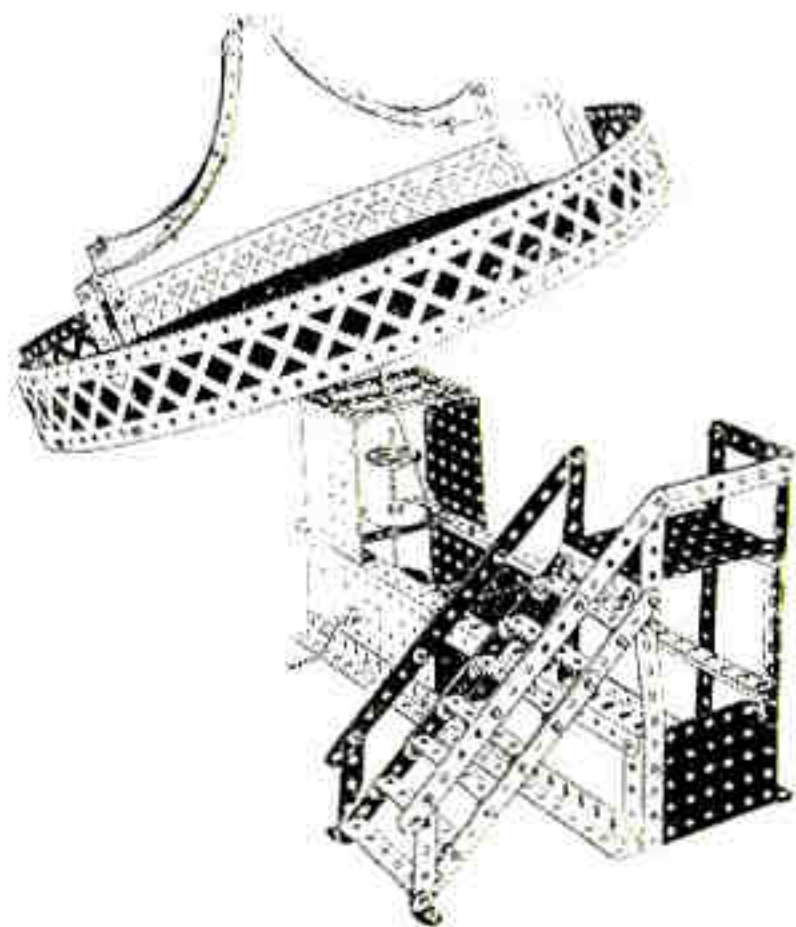


Anti-Aircraft Gun



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

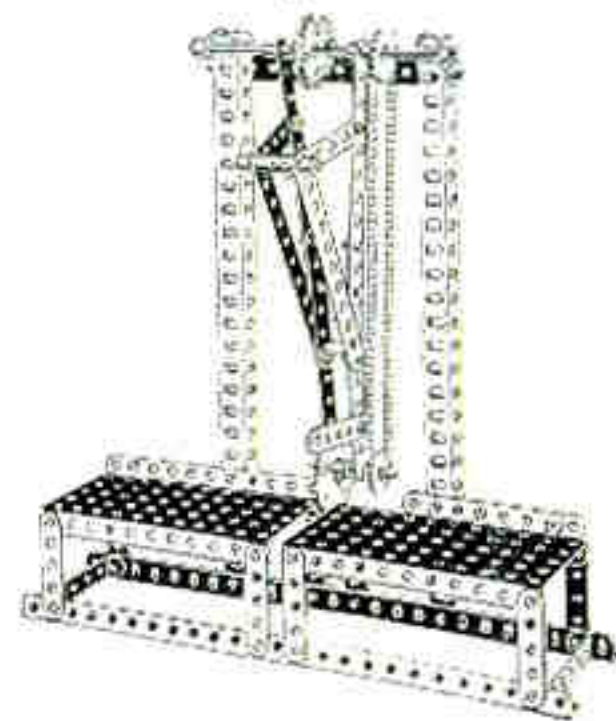
Joy Wheel



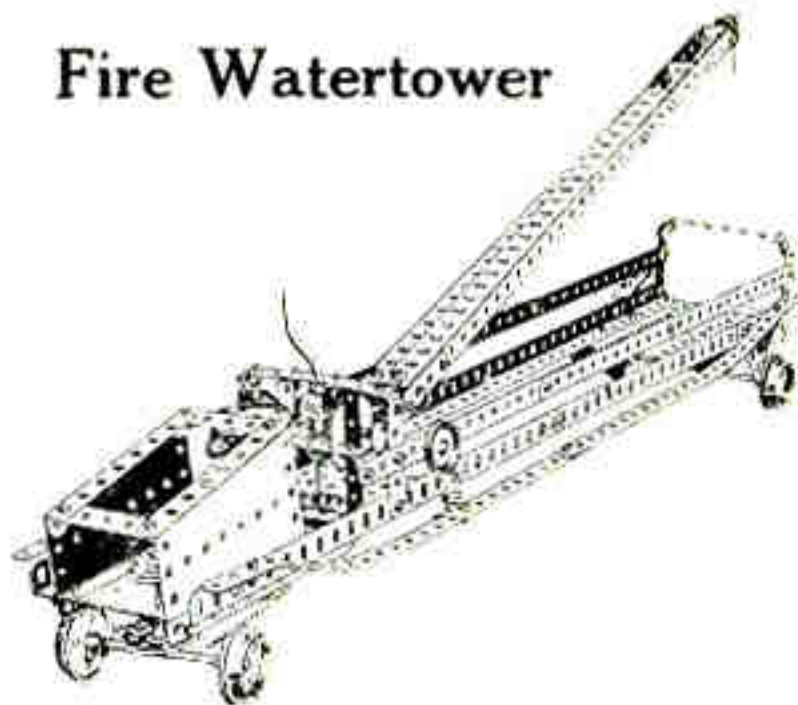
Distance Indicator



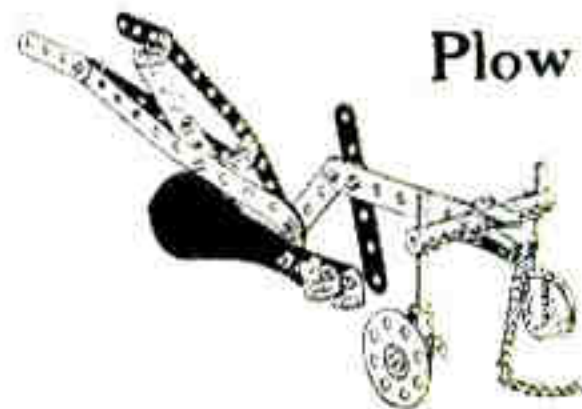
Swing Saw



Fire Watertower



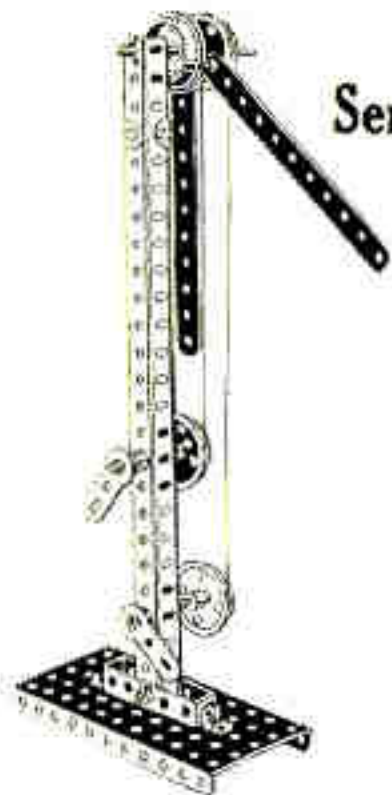
Plow



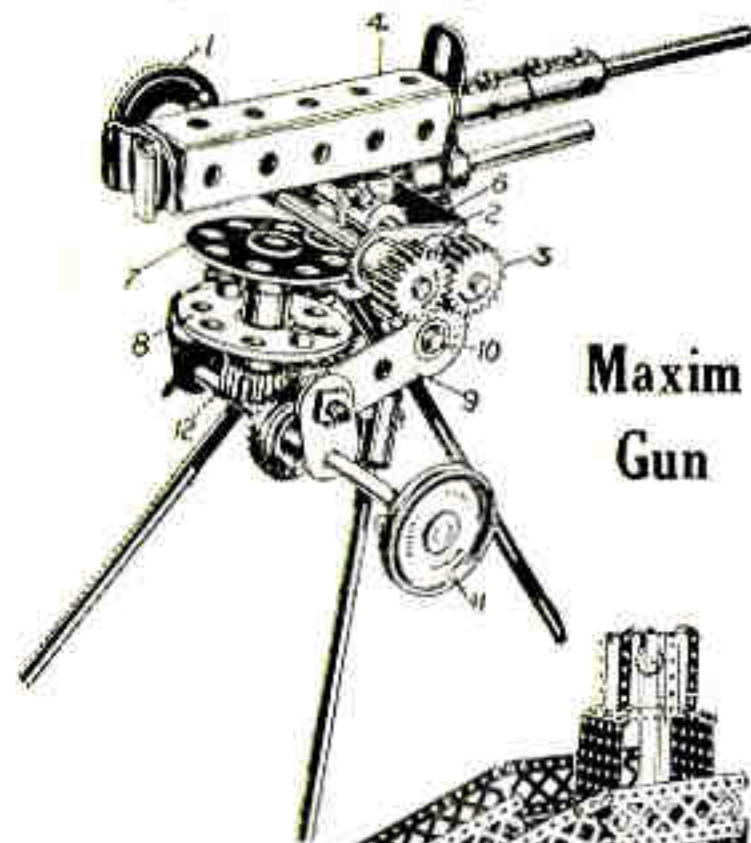
We strongly warn customers against systems which infringe our patents and copyrights. We have established our rights in the U. S. Courts, and shall vigorously proceed against any infringer.



**Purchase
Block**



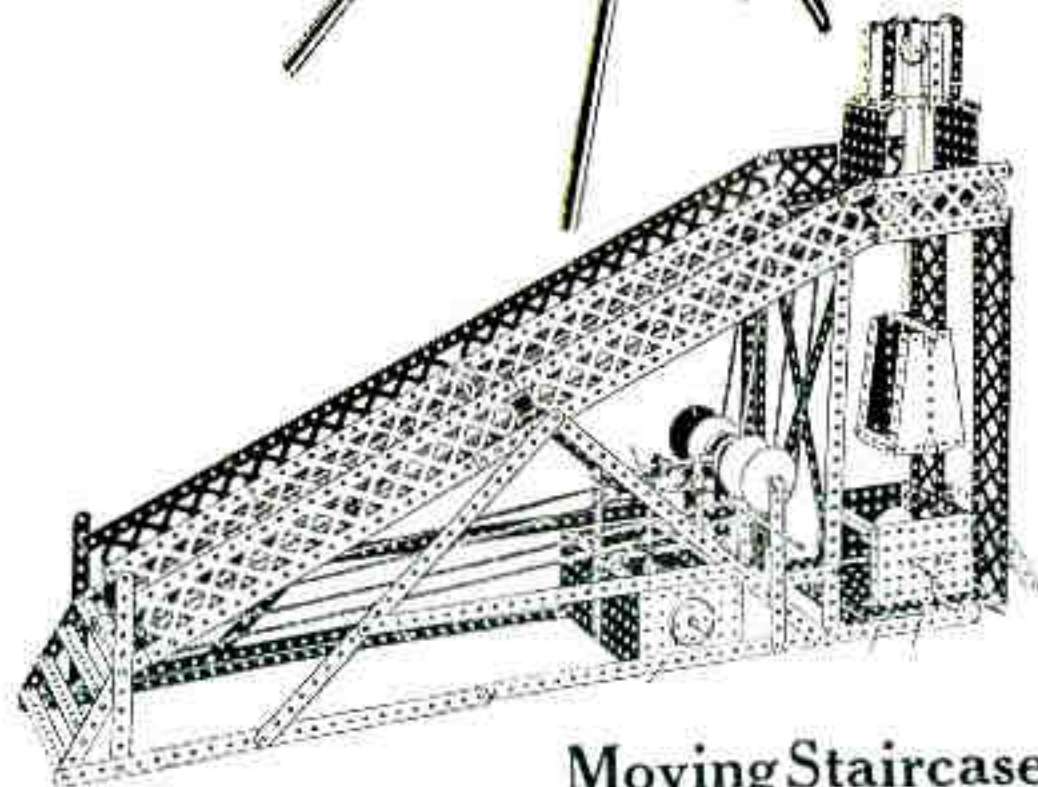
Semaphore



**Maxim
Gun**



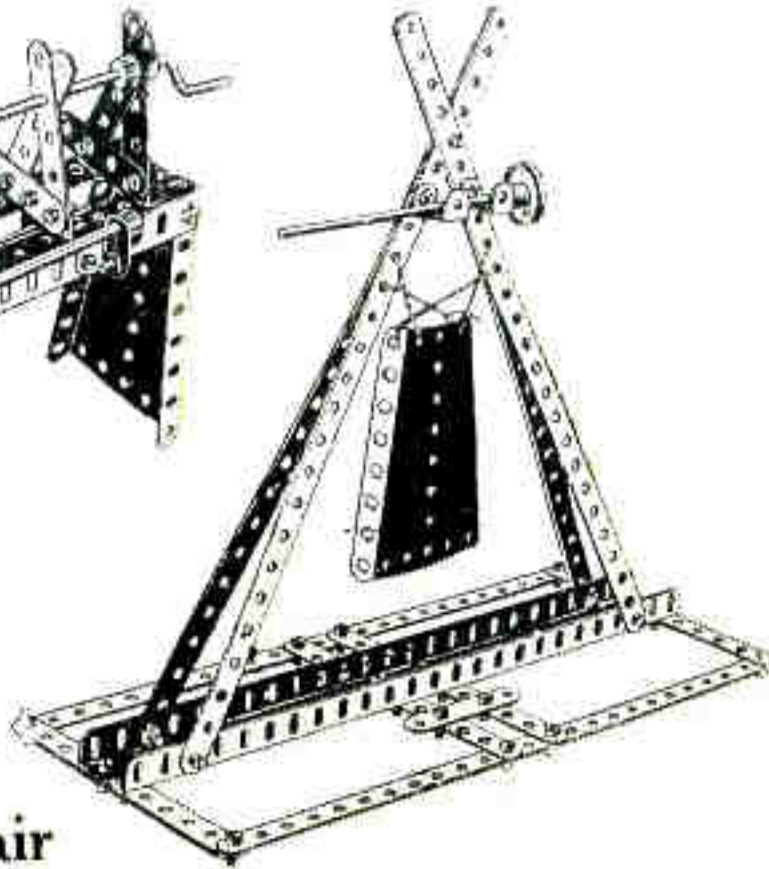
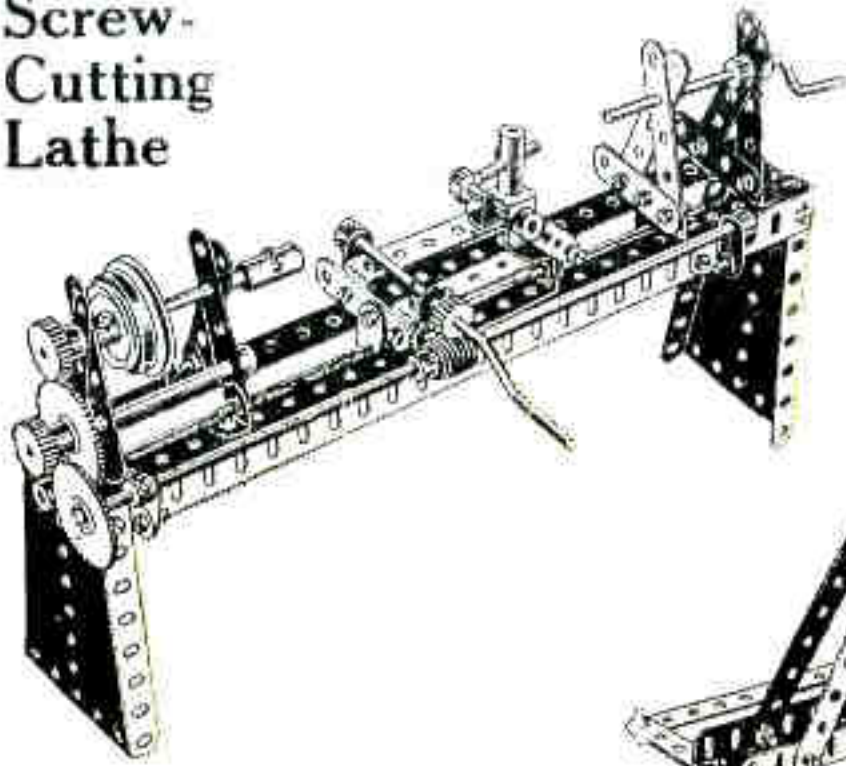
Roller Skate



Moving Staircase

Be an Inventor—Meccano shows you how.

Screw-Cutting Lathe



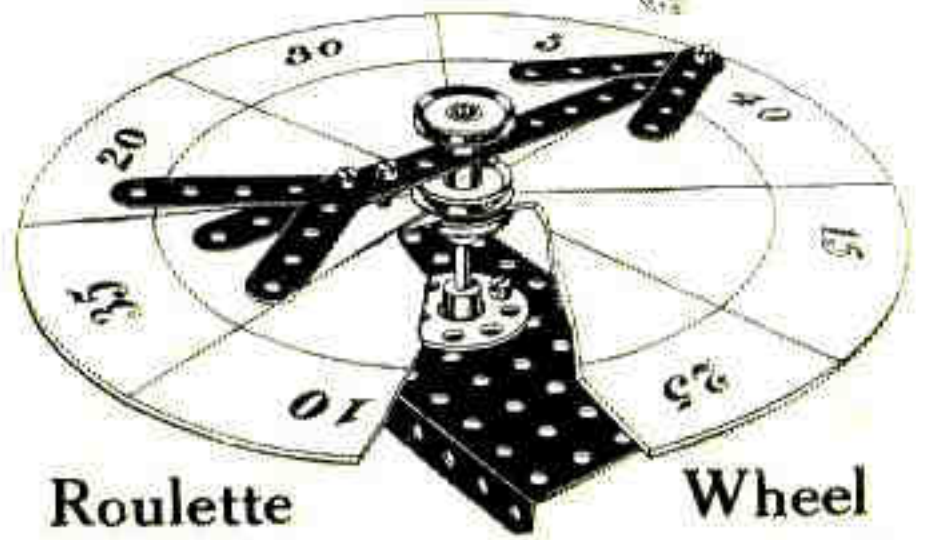
Theatre



Dental Chair



Dinner Gong

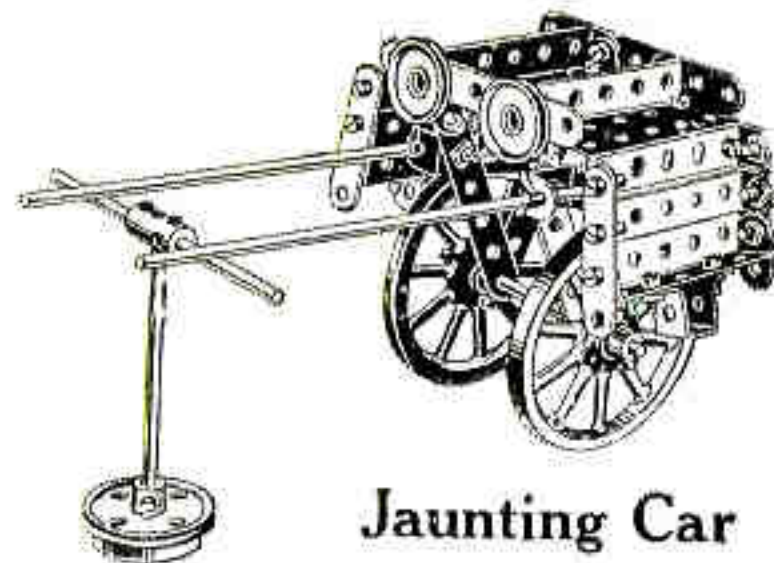
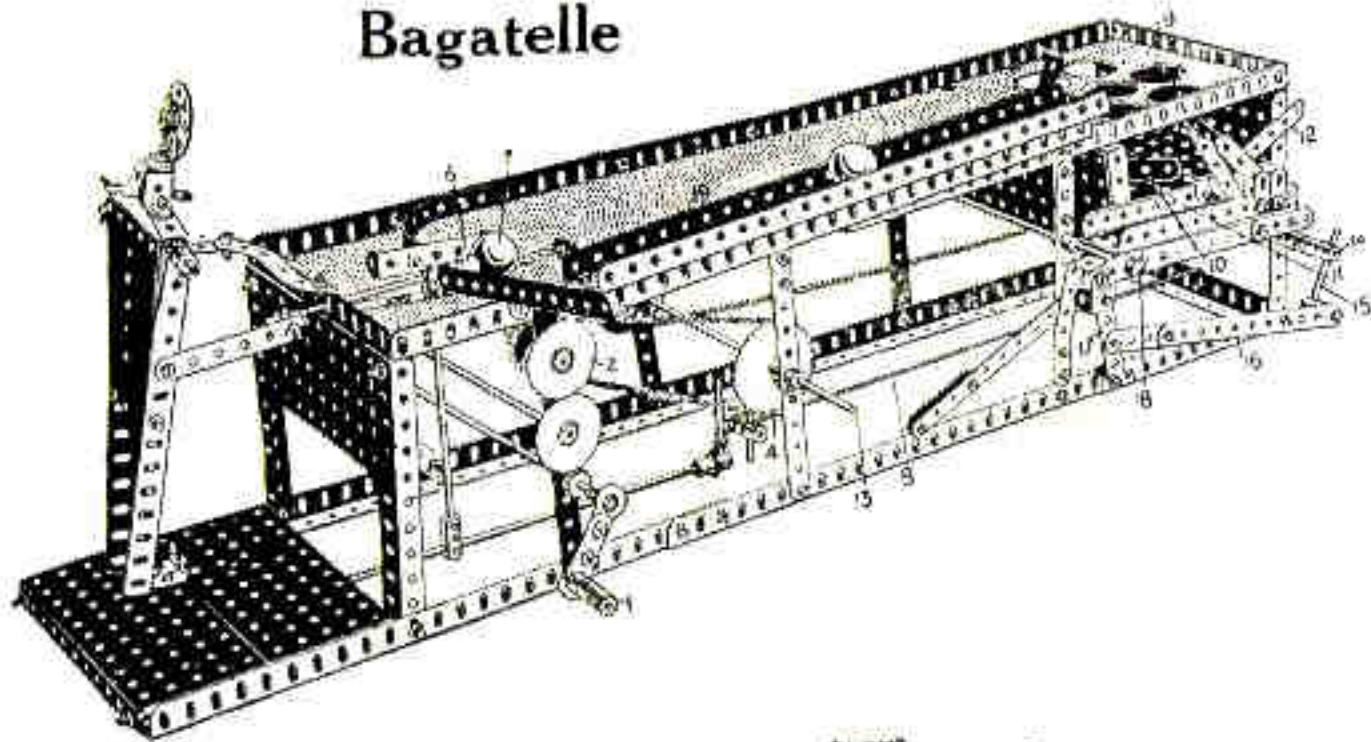


Roulette

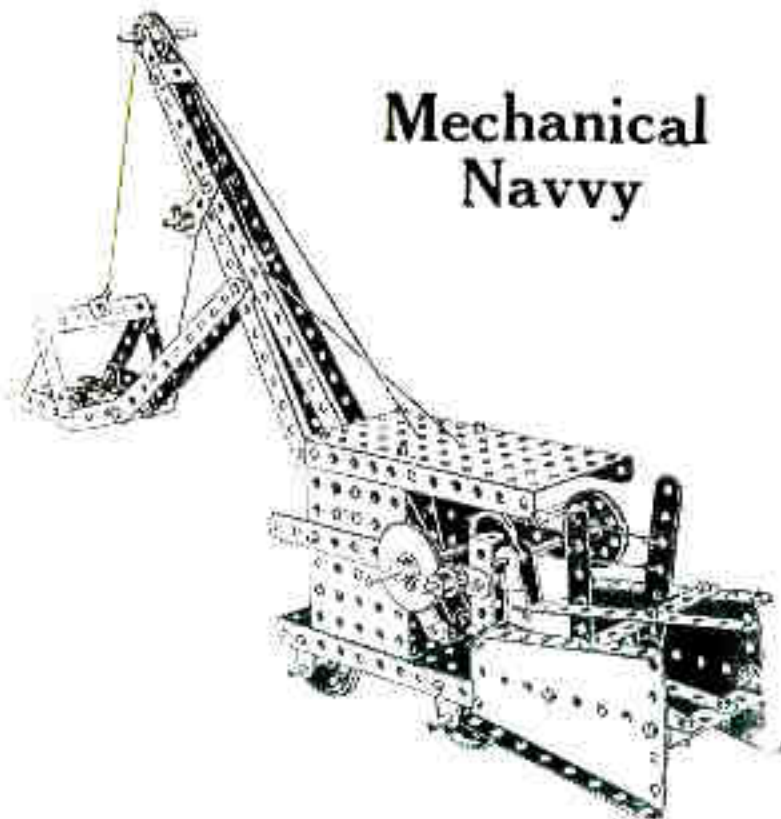
Wheel

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

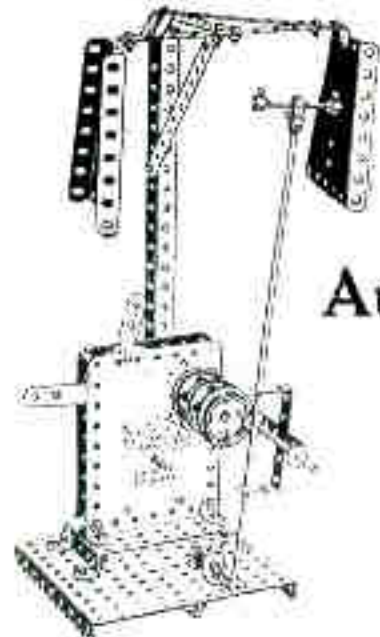
Bagatelle



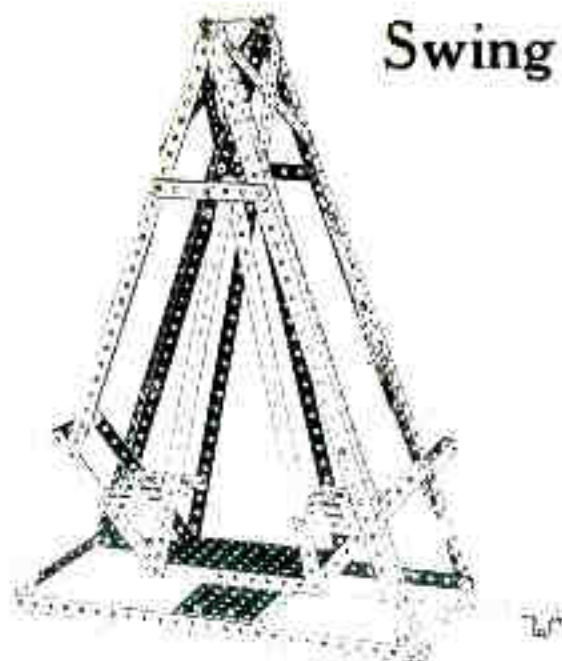
Jaunting Car



Mechanical Navy



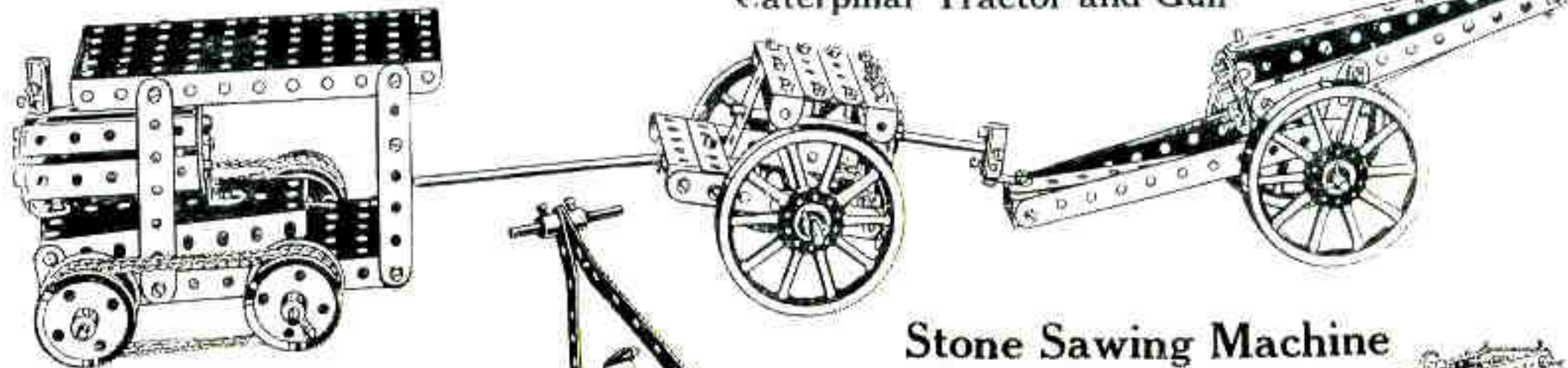
Automatic Gong



Swing

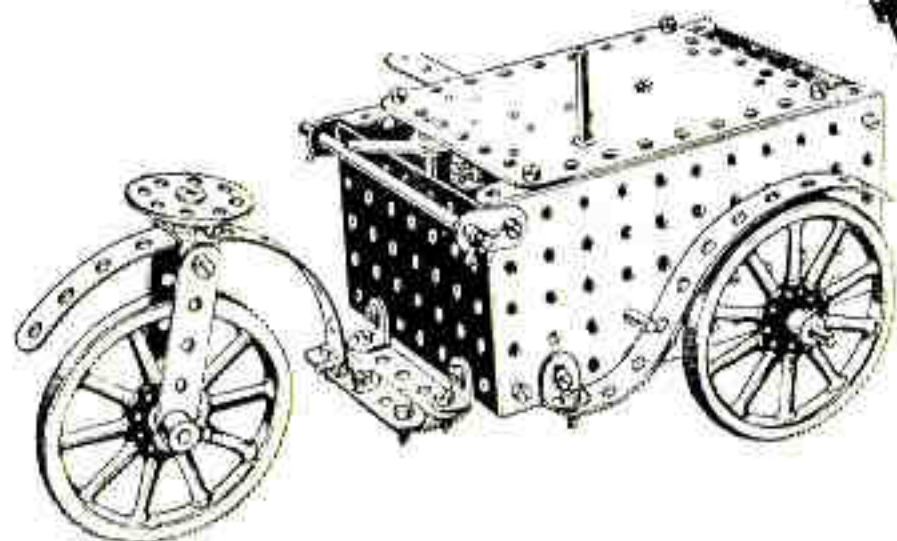
The next step after reading this book is to get your Meccano Outfit. The prices are from \$1 to \$36. See price list on last page.

Caterpillar Tractor and Gun

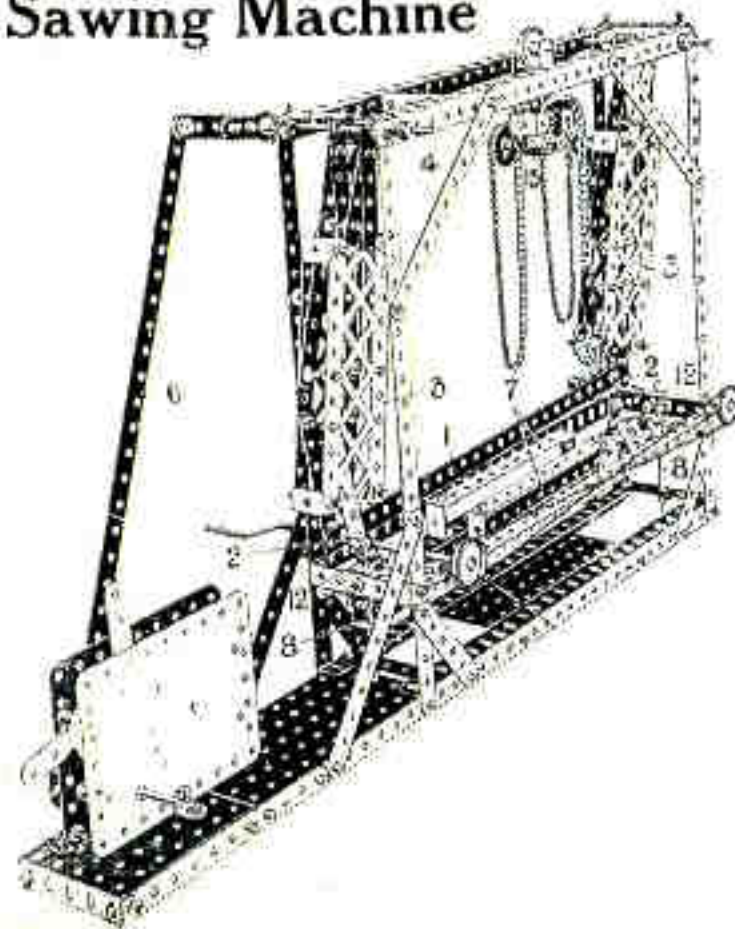
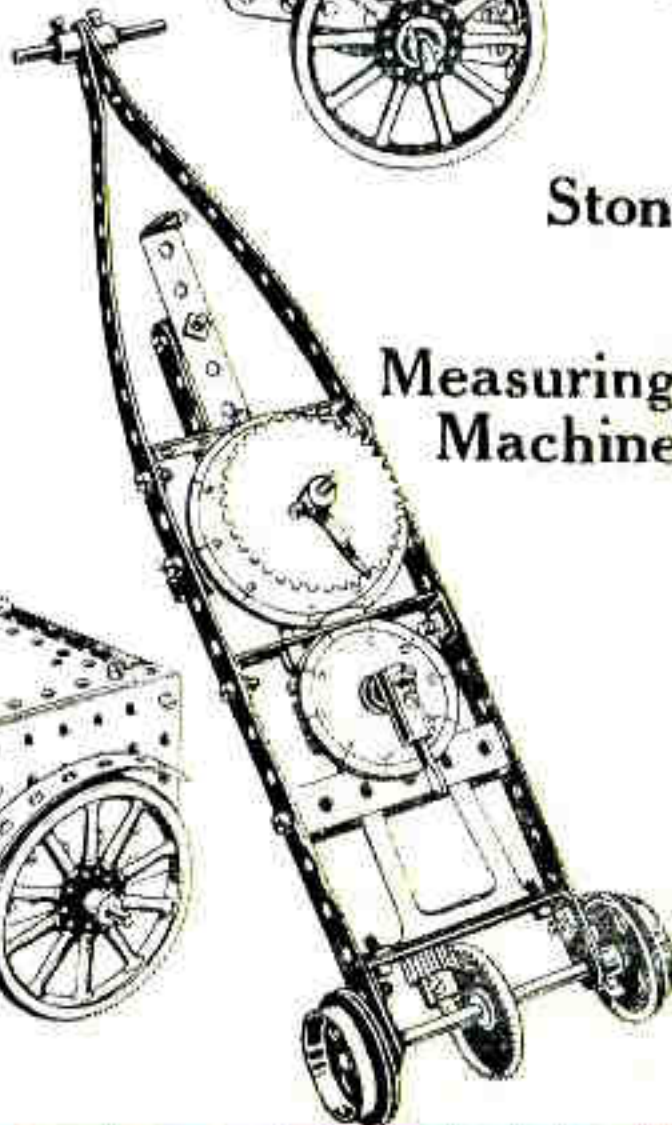


Stone Sawing Machine

Delivery Van

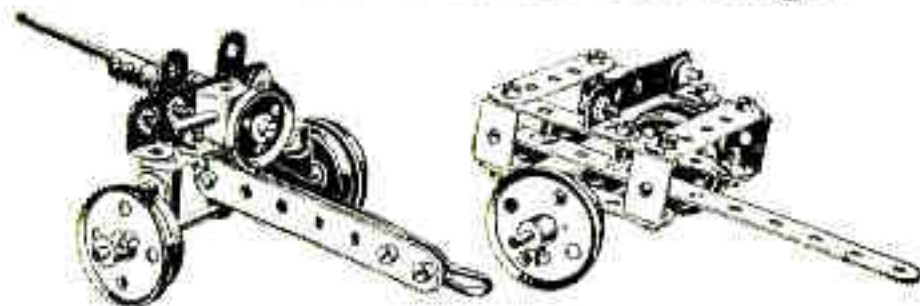


Measuring Machine

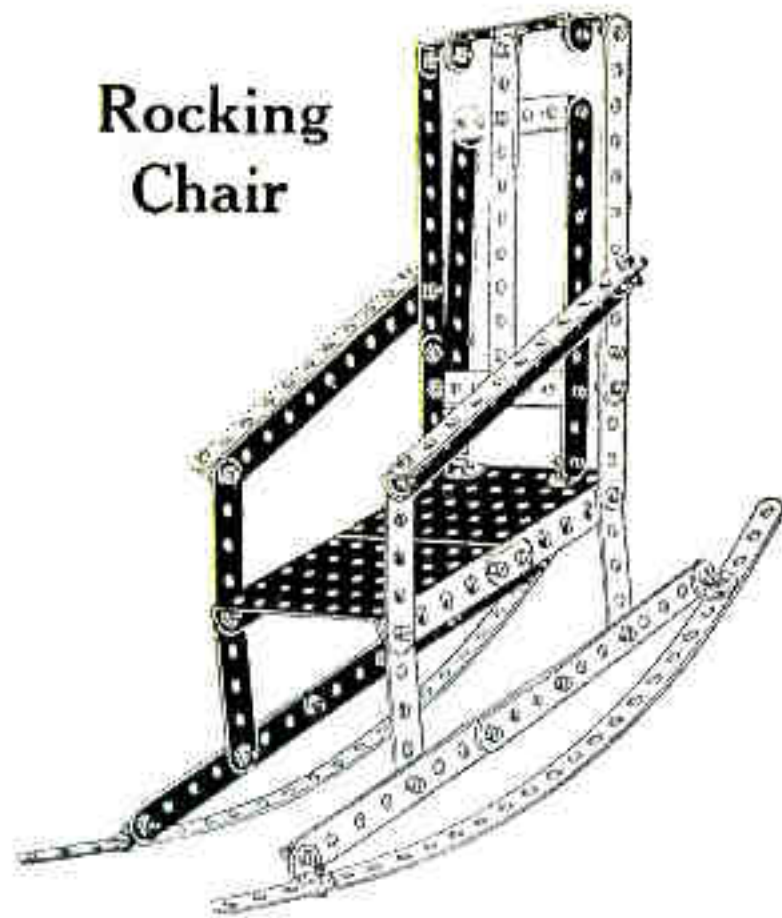


With a Meccano Electric Motor you can put life into your models. This motor is a beauty, designed specially for Meccano.

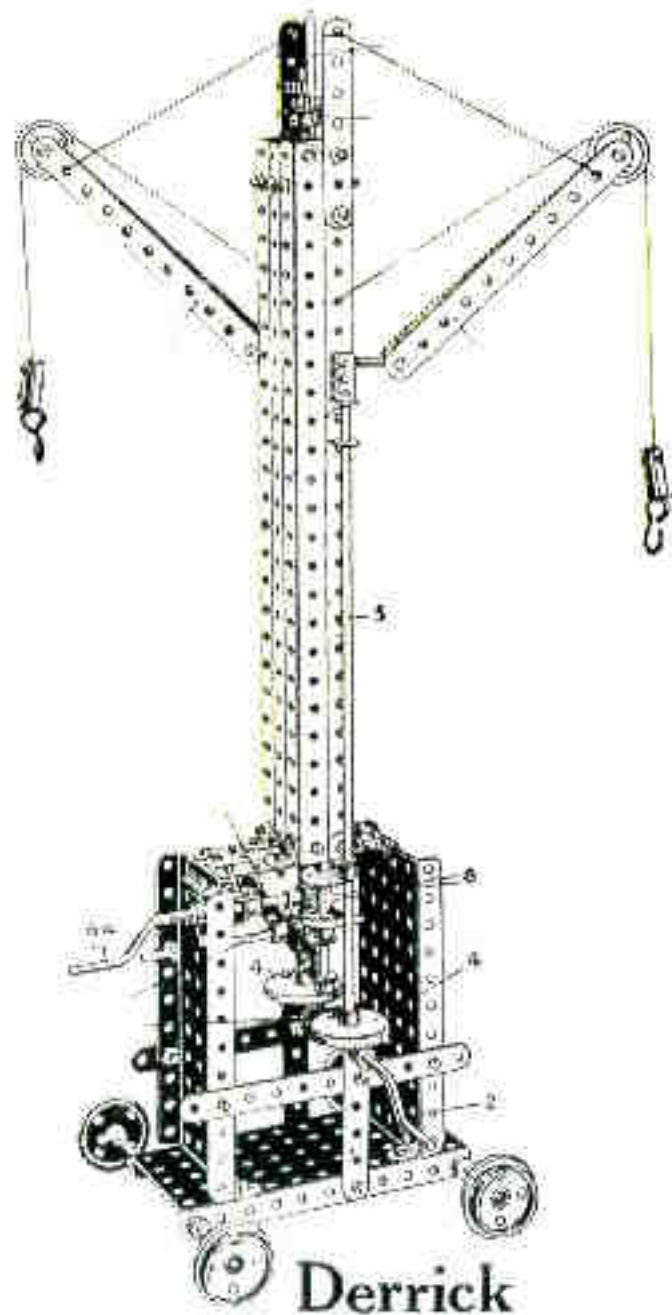
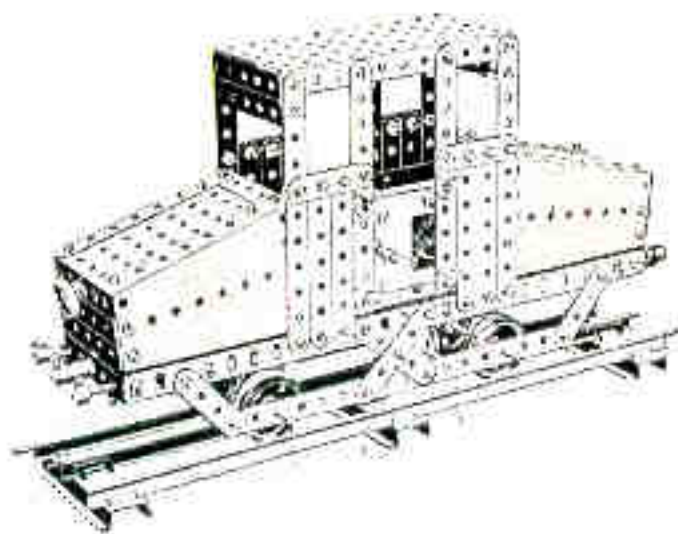
Field Gun and Carriage



Rocking Chair



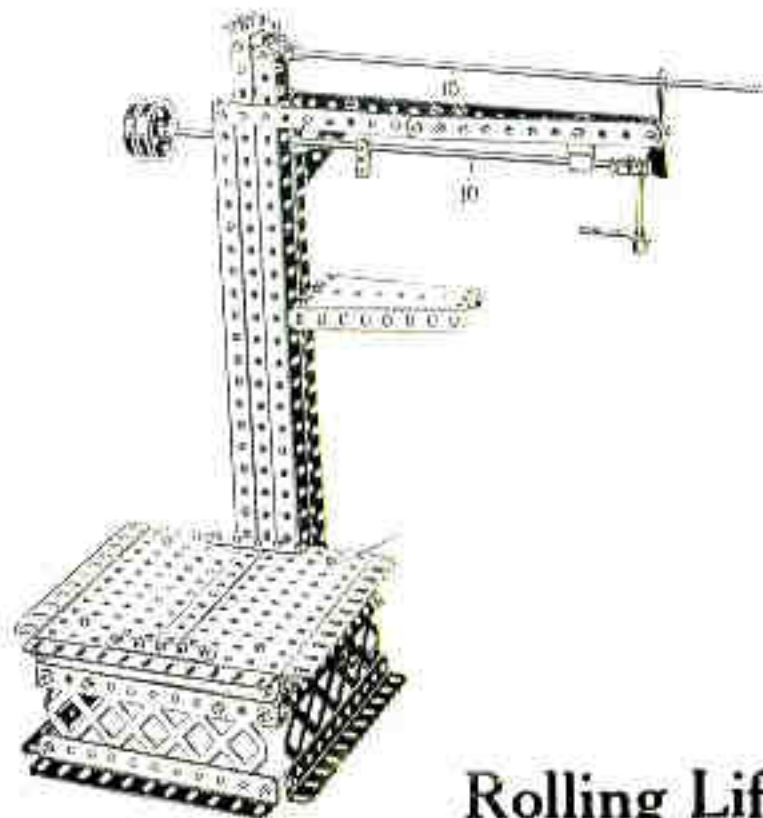
Electric Loco



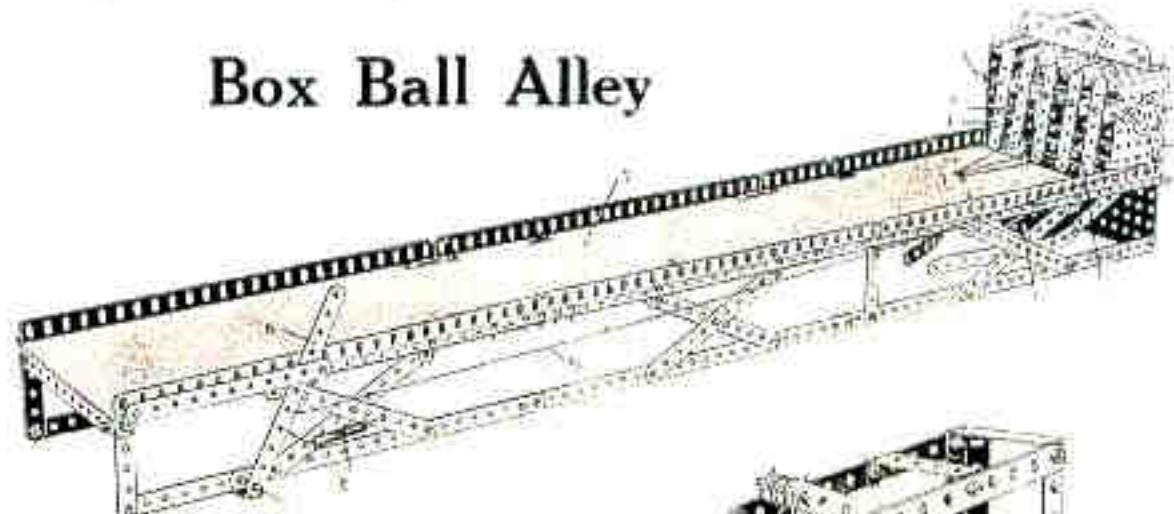
Derrick

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.

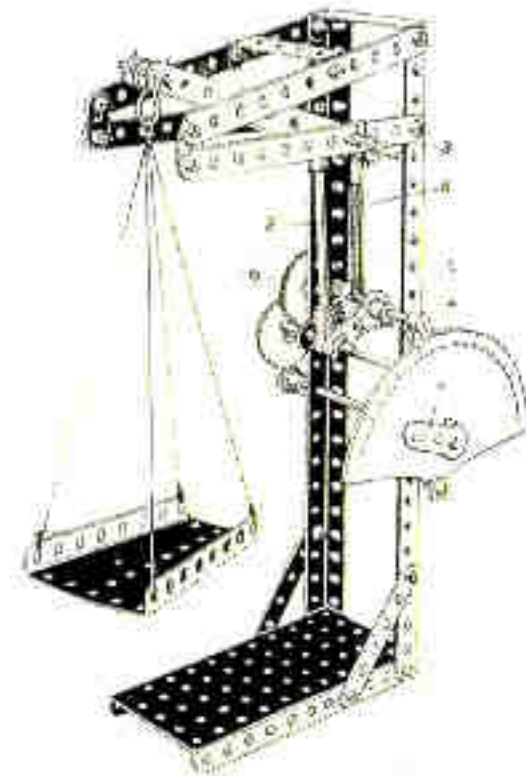
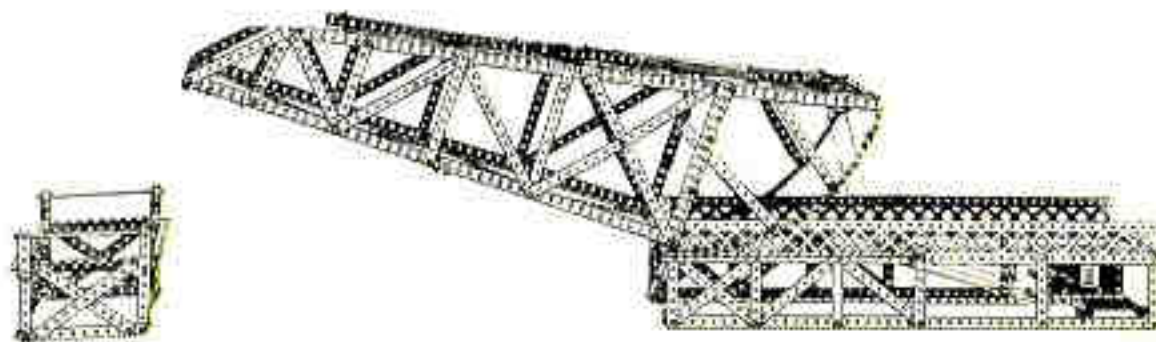
Platform Scales



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.

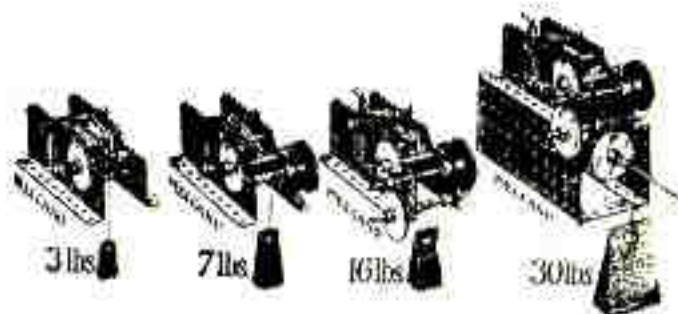
Meccano Electrified

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.

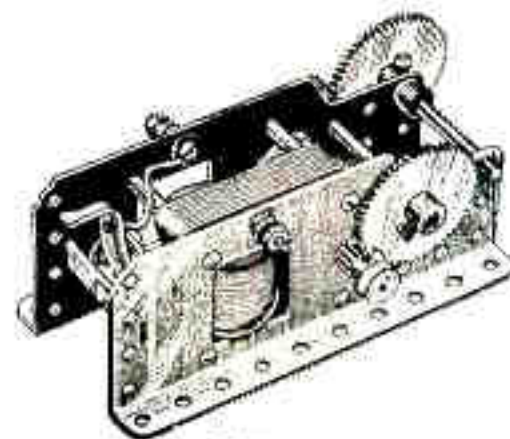


THE MECCANO TRANSFORMER PRICE \$2.00

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 converts 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.

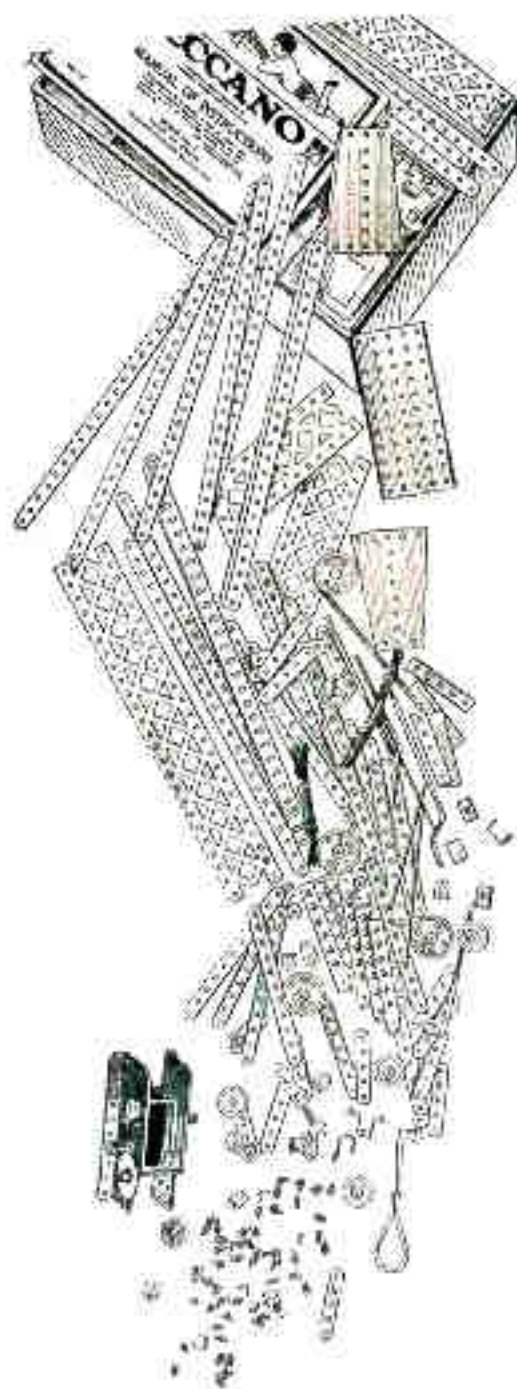


PRICES

- | | | |
|-----|---|--------|
| 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 $\frac{1}{4}$ 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.



BUILDS

Trucks	Ore Crusher
Baggage Carts	Metal Saw
Railroad Cars	Lathe
Cleighs	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
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 Strip, 12½" long	½ doz. 30	22A. 1" diam., without set screw	each 05	52. Perforated Flanged Plate, 3¼"x	
2. " " 1½" "	" 18	23. ½" " " "	" 05	2½"	each 20
3. " " 1¾" "	" 15	23A. ¾" " " "	" 10	53. Perforated Flanged Plate, 3¼"x	
4. " " 1" "	" 15	24. Bush Wheels	" 15	2½"	" 15
5. " " 1½" "	" 10	25. Pinion Wheels, ¾" diam., 24 teeth	" 15	54. Perforated Sector Plate	" 15
6. " " 2" "	" 10	26. " " ½" " 20 teeth	" 10	56. Manual of Instructions	" 35
8. Angle Girders, 12½" long	" 45	27. Gear Wheels, 50 teeth to gear with		56A. Meccanograph Manual of In-	
9. " " 1½" "	" 30	¾" pinion	" 25	structions	" 25
10. Flat Brackets	" 05	27A. Gear Wheels, 56 teeth to gear with		57. Hooks	" 01
11. Double Brackets	each 03	½" pinion	" 10	58. Spring Cords, per length	" 20
12. Angle Brackets	doz. 10	28. Contrate Wheels, 1½" diam.	" 40	59. Collars and Set Screws	" 05
13. Silver Steel Axle Rod, (1½" long)	each 05	29. " " ¾"	" 25	60. Bent Strips, 2½" long	per ½ doz. 15
13A. Axle Rods, 8" long	" 05	32. Worm Wheels	" 30	61. Windmill Sail	each 05
14. " " 6" "	" 03	33. Pawls	" 05	62. Crank	" 10
15. " " 4" "	" 05	34. Spanners	" 10	63. Coupling	" 10
15A. " " 4½" "	" 03	35. Spring Clips	per box (doz.) 10	65. Centre Fork	" 05
16. " " 3½" "	" 03	36. Screw Drivers	each 10	94. Sprocket Chain, per yard	" 15
17. " " 2" "	" 02	37. Nuts and Bolts	per box (doz.) 10	95. Sprocket Wheel, 2" diam.	each 20
18A. " " 1" "	" 02	37A. Nuts	" " 05	96. " " 1" "	" 15
19. Crank Handles	" 05	38. Washers	doz. 05	99. Braced Girders, 12½" long	per ½ doz. 50
19A. Wheels, 3" diam.	" 25	40. Hanks of Cord	each 03	100. " " 3½" "	" " 35
20. Flanged and Grooved Wheels	" 30	41. Propeller Blades	per pair 15	101. Healds	for Looms, doz. 30
		43. Spring	each 05	102. Single Bent Strip	" " each 05
		44. Cranked Bent Strip	" 05	103. Perforated Flat Girder Strip,	
		45. Double Bent Strip	" 05	5½" long	" 05
		46. Large Bent Strip	" 05	104. Shuttle	" 50
		47A. Dynamometers (tension)	" 50	105. Reed Hook	" 05
		50. Eye Piece	" 05	106. Roller	" 10
				51. Spring Motor	" 2.50
				E1. Electric Motor	" 1.50
				E2. " "	" 3.00

Pulley Wheels.

20A. 2" diam., with set screw	" 20
21. 1½" " " "	" 15
22. 1" " " "	" 10



Meccano
Prize Models