

# MECCANO



AMERICAN TRADE MARK 83171  
CANADIAN TRADE MARK 55 Fol. 13476

## MANUAL OF INSTRUCTIONS

This manual is in reality a key by which the really wonderful treasures contained in the various parts of Meccano Outfits may be unlocked.

From Opinion U. S. District Court,  
Southern District of Ohio.

**BOOK No. 1 SPECIAL**

**PRICE 35 CENTS**

**MECCANO COMPANY, Inc., New York**

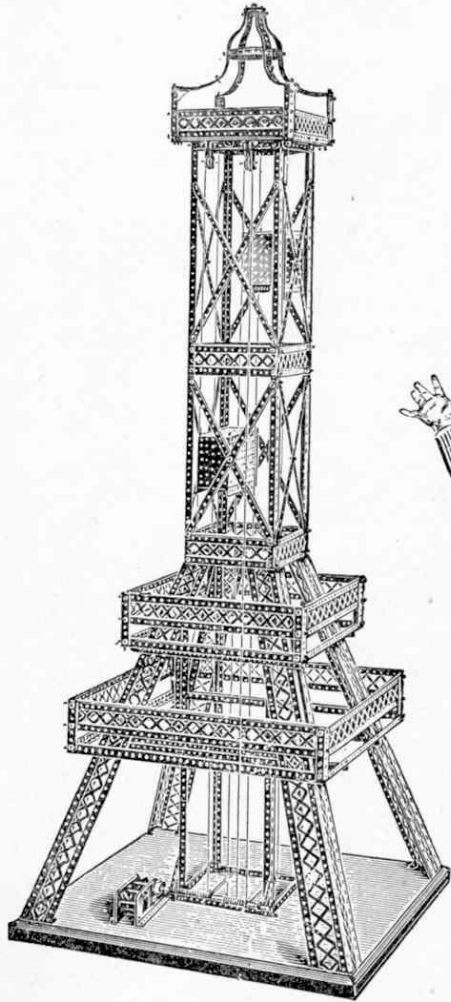
**No. 16A**

**AMERICAN EDITION**





# To Meccano Boys



**Y**OUR Meccano Outfit contains a number of accurately made and finished engineering parts, which enable you to duplicate any and every movement known to mechanism.

The value of a constructional system does not lie in the number of parts which it contains, but entirely in the uses to which the various parts can be put. It is a sweeping statement to make, but a perfectly true one, that Meccano will do all and more than all other constructional toys put together, and that no other system will do the same as Meccano. Every other metal constructional toy is an imitation of Meccano, which was the first toy of its kind. *The genius and knowledge and experience are in the Meccano parts.* Each part will fill a hundred different purposes in a perfect manner, and there is no limit to the uses to which they can be applied.

Meccano is sold as a children's toy, to give them fun, interest them, and instruct them in the fascinating wonders of engineering, but every day sees a fresh use for it. Engineers and architects use it for designing models and inventing movements. Professors and teachers in technical schools use it to demonstrate mechanical principles to their students. We have received enthusiastic letters from inventors who have designed practical commercial machines with Meccano parts for weaving and other purposes. It is largely used in institutions for the blind for teaching patients, and in very many children's hospitals it brings happiness and relief to thousands of afflicted ones.

## To Meccano Boys—(*continued*)

There is no hard work attached to building Meccano models. All the work and thought have been put into the parts when they were designed, and all you have to do is to follow the instructions, and screw the parts together.

Bright boys are inventing new Meccano models every day, and sending them in to win prizes in our big competitions. Already we have very many more than can be included in this book, and another edition is in preparation, which you should secure when it is ready. Further editions will follow, in order to keep pace with the new models, and you should ask your dealer, or ourselves, if you have any difficulty, to keep you up to date with these, so that you may miss none of the pleasures of Meccano.

## MECCANO PRIZE COMPETITION

**MONEY AND FAME FOR MECCANO BOYS.** Each year there is a big Meccano Prize Competition, in which we offer big prizes in money, and new Meccano Outfits to clever boys, who are able to design new models. Send your own ideas in, and get your share of the prize money. Be sure to ask your dealer for full particulars and entry forms. If you have any difficulty send us a postcard, and we will see that you get what you want. There are no entrance fees or restrictions of any kind.

**Important Notice.**—In some of the models throughout this manual we have made use of the Meccano Braced Girder, large wheels, sprocket wheels and chain, etc., which are only supplied in the Inventor's Accessory Outfit, or as separate parts. We have employed these parts, as they improve the appearance and working of the models, and they also form a suggestion for the use of the Inventor's Accessory Outfit; but in every case the same models may be effectively built with the parts contained in the regular Meccano outfits.

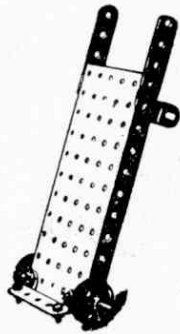
MECCANO COMPANY, INC.

Masonic Hall, New York



These Models Can be Made with MECCANO Outfit No. 1

# Types of Trucks and Luggage Carts

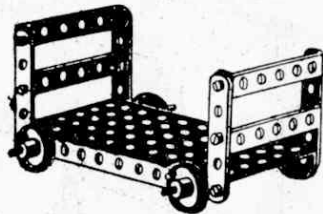


**Model  
No. 1**

Parts Required:

3 of No. 5	1 of No. 15A
2 " " 10	2 " " 22
2 " " 12	8 " " 37
1 of No. 52	

**Model No. 2**

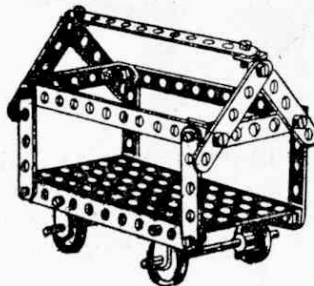


Parts

Required:

4 of No. 5
4 " " 60
2 " " 15A
4 " " 22
12 " " 37
1 " " 52

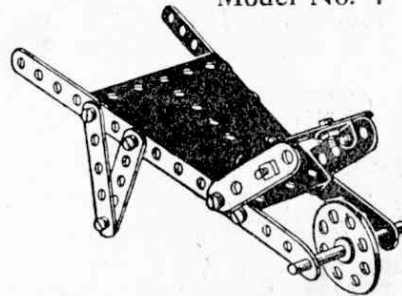
**Model No. 3**



Parts  
Required:

3 of No. 2
8 " " 5
2 " " 60
4 " " 10
2 " " 12
2 " " 15A
4 " " 22
20 " " 37
1 " " 52

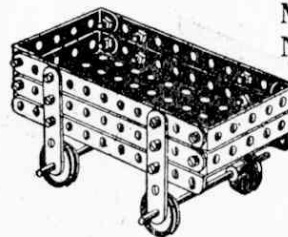
**Model No. 4**



Parts Required:

2 of No. 2	1 of No. 24
9 " " 5	2 " " 35
2 " " 12	14 " " 37
1 " " 17	1 " " 54

**Model  
No. 5**



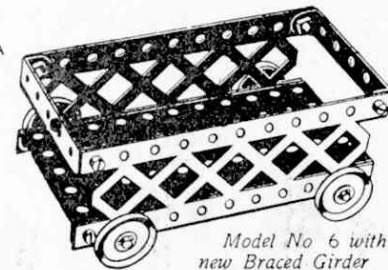
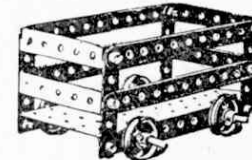
Parts Required:

4 of No. 2	4 of No. 22
4 " " 5	20 " " 37
4 " " 60	1 " " 52
2 " " 15A	

**Model  
No. 6**

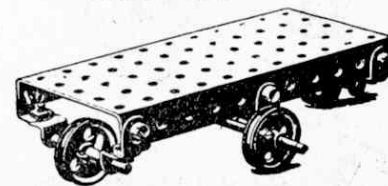
Parts  
Required:

4 of No. 2
4 " " 5
4 " " 60
2 " " 15A
4 " " 22
12 " " 37
1 " " 52



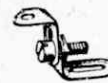
*Model No. 6 with  
new Braced Girder*

**Model No. 7**



Parts  
Required:

2 of No. 10	2 of No. 22A
8 " " 12	4 " " 35
1 " " 15A	10 " " 37
2 " " 17	1 " " 52
2 " " 22	



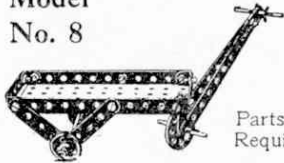
**Fig. 7A**



These Models Can be Made with MECCANO Outfit No. 1

## Types of Trucks and Luggage Carts (continued)

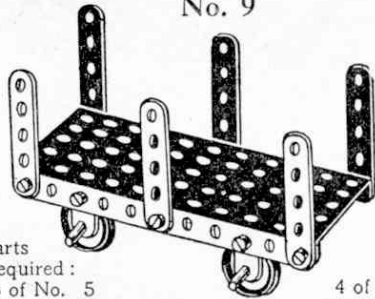
Model  
No. 8



Parts  
Required :

2 of No. 2	1 of No. 24
4 " " 5	9 " " 37
1 " " 15A	4 " " 35
2 " " 17	1 " " 44
2 " " 22	1 " " 52
2 of No. 60	

Model  
No. 9

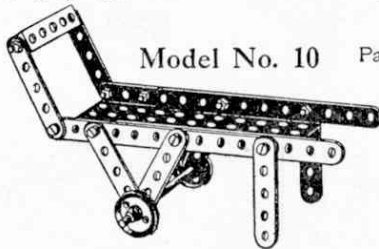


Parts  
Required :

6 of No. 5
4 " " 10
2 " " 15A

4 of No. 22
10 " " 37
1 " " 52

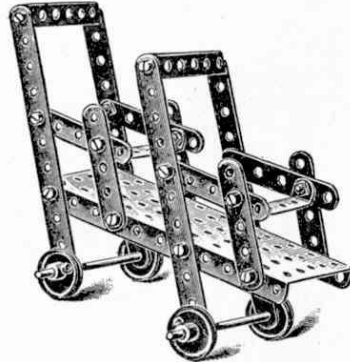
Model No. 10



Parts Required :

2 of No. 2
8 " " 5
1 " " 15A
2 " " 22
10 " " 37
1 " " 52
1 " " 60

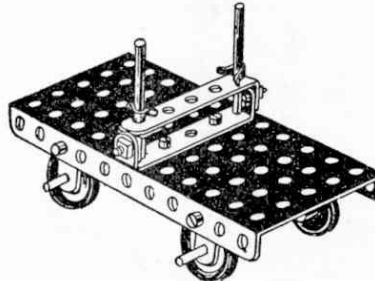
Model No. 11



Parts  
Required :

4 of No. 2
8 " " 5
2 " " 15A
4 " " 22
20 " " 37
1 " " 52
4 " " 60

Model No. 12



Parts  
Required :

4 of No. 10	4 of No. 22
2 " " 15A	2 " " 35
2 " " 17	8 " " 37
	1 " " 52
	2 " " 60

Model No. 13

Parts  
Required :

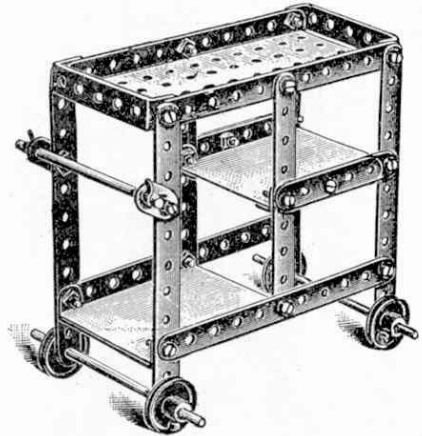
2 of No. 15A
4 " " 22
1 " " 52



Model No. 14

Parts  
Required :

6 of No. 2
8 " " 5
2 " " 10
4 " " 12
3 " " 15A
4 " " 22
2 " " 35
20 " " 37
1 " " 52
4 " " 60

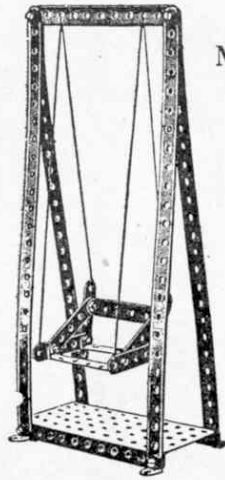


The two lower platforms are constructed out of pieces of ordinary cardboard, their outer edges resting on  $2\frac{1}{2}$ " bent strips and their inner edges on angle brackets.



These Models Can be Made with MECCANO Outfit No. 1

5

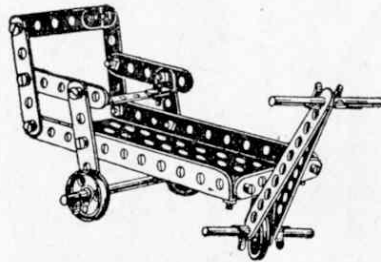


Model No. 15

## Swing

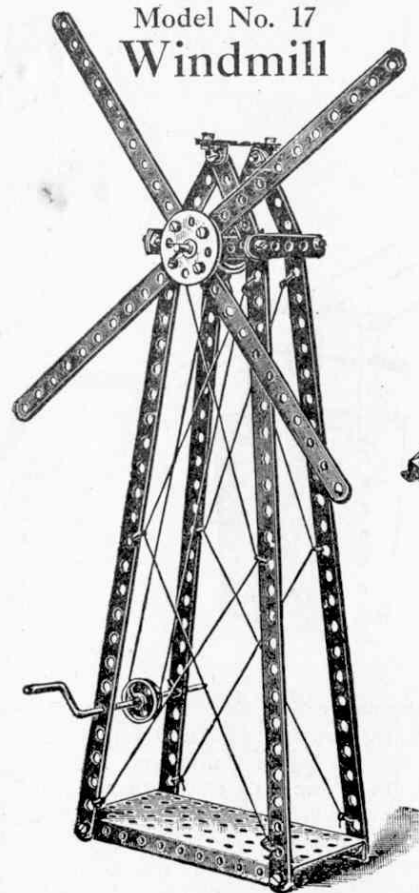
Parts  
Required:

4 of No.	1
1 " "	2
6 " "	5
4 " "	12
12 " "	37
1 " "	52
3 " "	60



Model No. 16 Bath Chair

2 of No.	2	4 of No.	35
6 " "	5	14 " "	37
1 " "	15A	1 " "	44
2 " "	17	1 " "	52
3 " "	22	3 " "	60

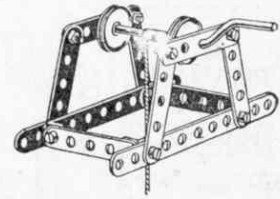
Model No. 17  
Windmill

Parts Required:

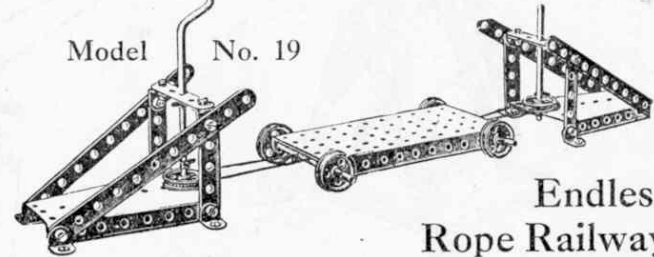
4 of No.	1	1 of No.	15A	4 of No.	35
4 " "	2	1 " "	19	20 " "	37
7 " "	5	2 " "	22	1 " "	52
2 " "	12	1 " "	24	2 " "	60

Model No. 18  
Well Windlass

2 of No.	2
8 " "	5
4 " "	12
1 " "	19
2 " "	22
12 " "	37



Model No. 19

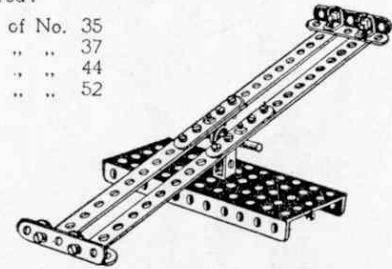
Endless  
Rope Railway

4 of No.	2	1 of No.	19	12 of No.	37
4 " "	5	4 " "	22	1 " "	52
8 " "	12	2 " "	22A	2 " "	54
3 " "	15A	4 " "	35	2 " "	60

Model No. 20 Seesaw

Parts Required:

4 of No.	2	2 of No.	35
6 " "	5	19 " "	37
6 " "	12	1 " "	44
1 " "	17	1 " "	52

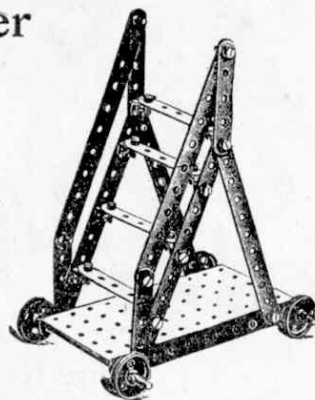




## Model No. 21

Travelling  
LadderParts  
Required:

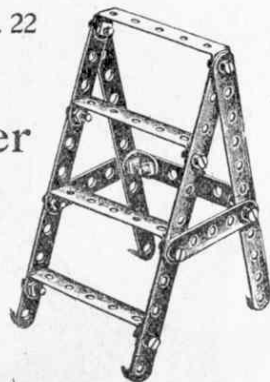
6 of No. 2
4 " " 5
2 " " 15A
4 " " 22
16 " " 37
1 " " 52
4 " " 60



## Model No. 22

Step  
LadderParts  
Required:

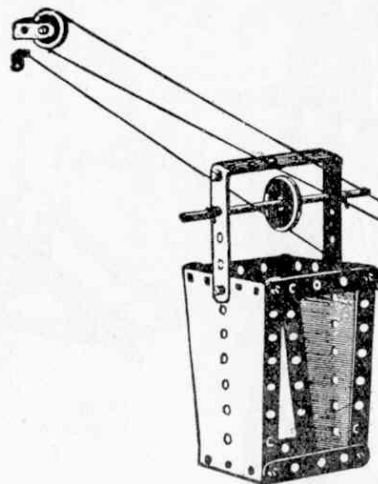
2 of No. 12
4 of No. 2
3 " " 5
12 " " 37
4 " " 60



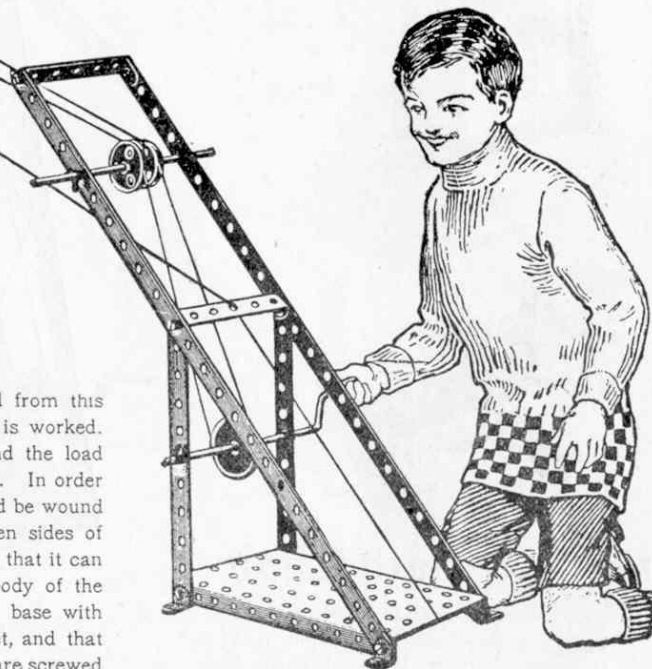
## Model No. 23 Telpher Span

Parts Required:

2 of No. 1	1 of No. 17	20 of No. 37
2 " " 2	1 " " 19	1 " " 44
6 " " 5	3 " " 22	1 " " 52
4 " " 12	2 " " 22A	2 " " 54
2 " " 15A	6 " " 35	3 " " 60



Many hours of enjoyment can be obtained from this model. The illustration shows just 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 open sides of the bucket may be filled in with cardboard, so that it can be loaded with marbles, or beads, etc. The body of the Telpher should be screwed down on to a solid base with ordinary wood screws, and the pulley bracket, and that to which the cord on which the bucket travels, are screwed in a suitable position on the opposite side of the room.



These Models Can be Made with MECCANO Outfit No. 1

7

## Model No. 24 Travelling Jib Crane

Parts Required:

2 of No.	1
3 " "	2
2 " "	5
2 " "	15A
1 " "	17
1 " "	19
4 " "	22
2 " "	22A
1 " "	24
5 " "	35
15 " "	37
1 " "	52
1 " "	54
1 " "	57
1 " "	60

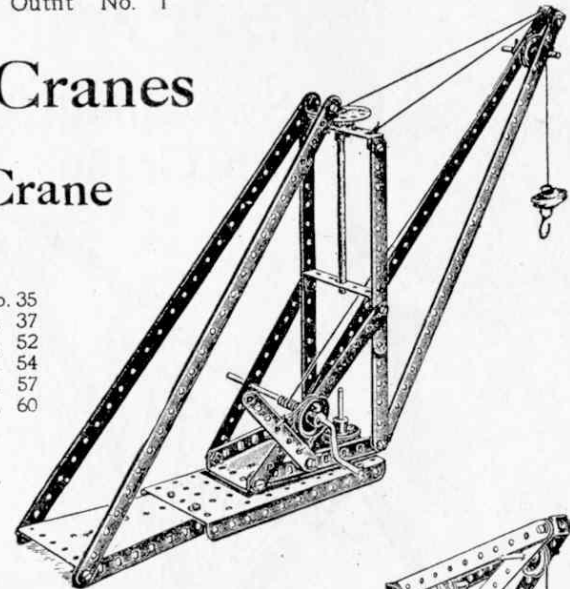


## Types of Cranes

### Model No. 25 Jib Crane

Parts Required:

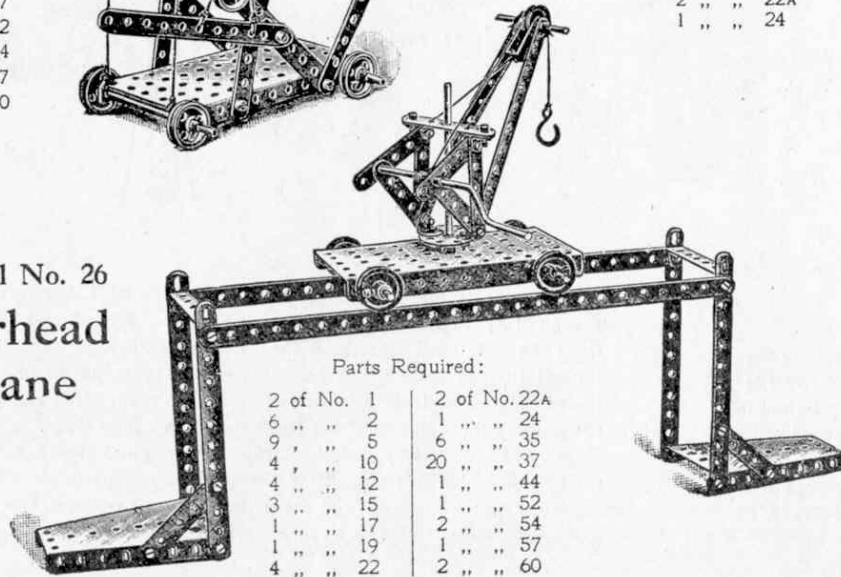
4 of No.	1	4 of No.	35
6 " "	2	20 " "	37
1 " "	3	1 " "	52
1 " "	11	2 " "	54
2 " "	12	1 " "	57
1 " "	15A	2 " "	60
2 " "	17		
1 " "	19		
4 " "	22		
2 " "	22A		
1 " "	24		



### Model No. 26 Overhead Crane

Parts Required:

2 of No.	1	2 of No.	22A
6 " "	2	1 " "	24
9 " "	5	6 " "	35
4 " "	10	20 " "	37
4 " "	12	1 " "	44
3 " "	15	1 " "	52
1 " "	17	2 " "	54
1 " "	19	1 " "	57
4 " "	22	2 " "	60

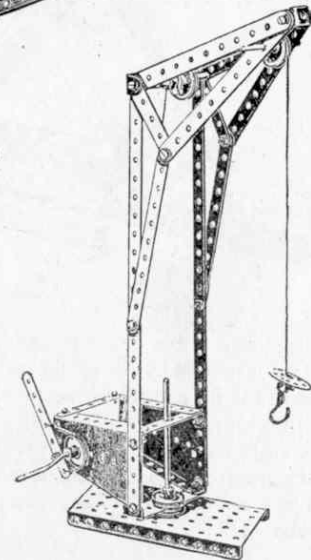


### Model No. 27 Swivelling Crane

Parts Required:

2 of No.	1	2 of No.	22A
6 " "	2	1 " "	24
1 " "	3	4 " "	35
4 " "	5	18 " "	37
1 " "	11	1 " "	44
1 " "	15A	1 " "	52
2 " "	17	2 " "	54
1 " "	19	1 " "	57
4 " "	22	3 " "	60

The hoisting cord after passing over the pulley at the end of the jib, passes over a pulley running in a cranked bent strip secured by a nut and bolt to the 2 1/2" bent strip at the back of the jib.





Model No. 28

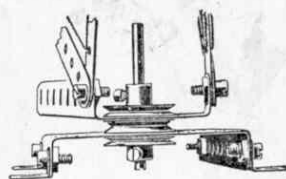
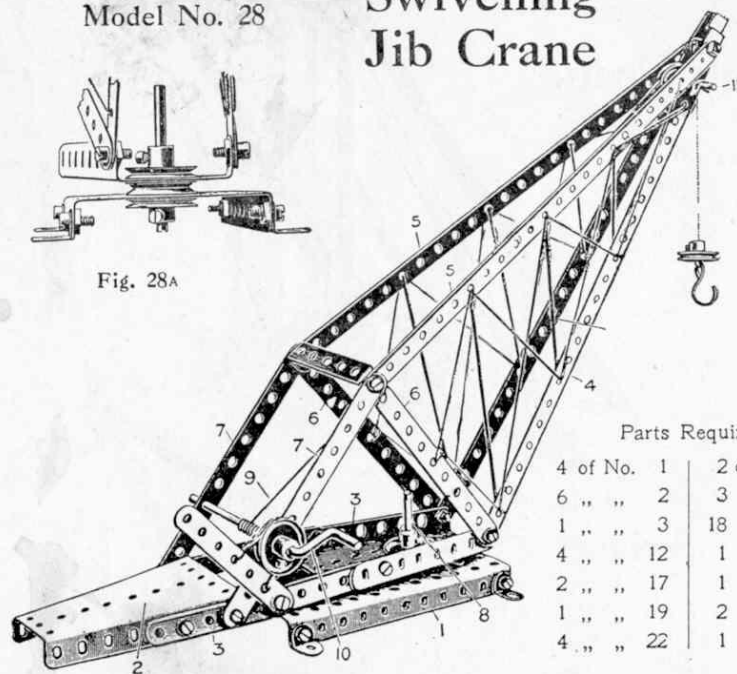
Swivelling  
Jib Crane

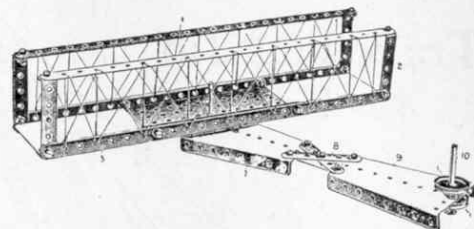
Fig. 28A



Parts Required:

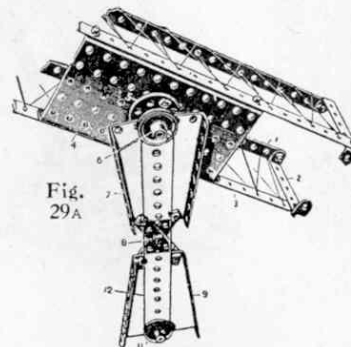
4 of No. 1	2 of No. 22A
6 " " 2	3 " " 35
1 " " 3	18 " " 37
4 " " 12	1 " " 44
2 " " 17	1 " " 52
1 " " 19	2 " " 54
4 " " 22	1 " " 60

The fixed base of this Crane is a perforated flanged plate 1, and the swivelling base of the Crane is formed by two sector plates 2 and 3. The jib is formed from two 12½" strips 4 bolted to the ends of the sector plate 3, two other 12½" strips 5 being bolted to the top of the strips 4 and to cross strips 6, the outer ends of these latter strips being stayed by strips 7 bolted to the other sector plate. The upper structure of the Crane swivels about a rod 8, and is secured as shown in Fig. 28A. The winding rope 9 is operated by a crank handle 10 and passes over a pulley in the head of the Crane on a short rod 11.

Model No. 29  
Turntable  
Gangway

Parts Required:

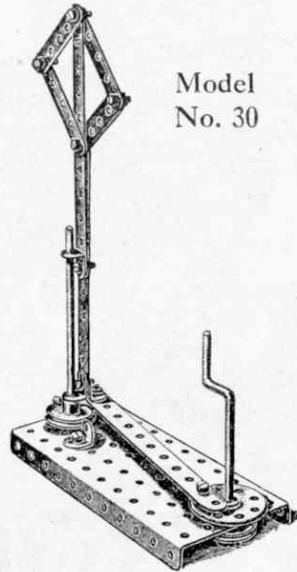
4 of No. 1	19 of No. 37
2 " " 5	1 " " 52
2 " " 17	2 " " 54
3 " " 22	4 " " 60
1 " " 24	

Fig.  
29A

The side frames of the gangway are made of 12½" strips 1 bolted by means of 2½" bent strips 2 to lower strips 3, the strips 3 and 1 being set at right angles to each other, and the side frames being connected by a perforated flanged plate 4. A bush wheel 5 is bolted to the underside of the flanged plate and fitted with a rod on which is mounted a 1" pulley 6, the rod passing through one of the end holes of a sector plate 7. This sector plate 7 is connected by diagonal strips 8 to another sector plate 9, through the end hole of which a rod 10 is threaded carrying two 1" pulleys 11. An operating cord 12 passes from the pulley 11 to the pulley 6. In this way the gangway may be rotated by operating the spindle 10.

These Models Can be Made with MECCANO Outfit No. 1

## Types of Railway Signals



Model  
No. 30

Parts Required:

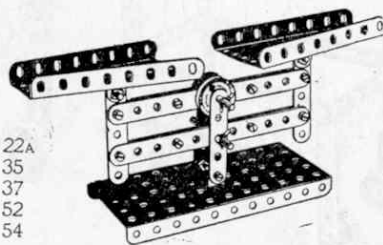
3 of No. 2	3 of No. 22
4 " " 5	1 " " 24
4 " " 12	14 " " 37
1 " " 15A	1 " " 52
1 " " 19	

Model No. 33

### Scales

Parts Required:

4 of No. 2	2 of No. 22A
8 " " 5	4 " " 35
1 " " 11	19 " " 37
2 " " 12	1 " " 52
2 " " 17	2 " " 54

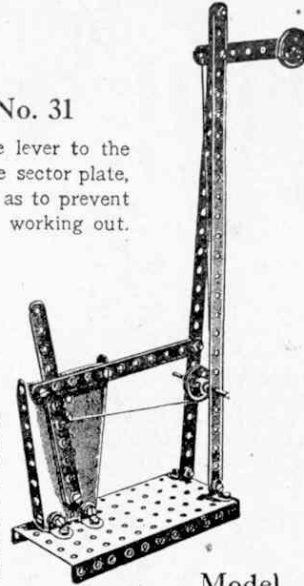


Model No. 31

In fixing the lever to the lower end of the sector plate, lock the nuts, so as to prevent the screw from working out.

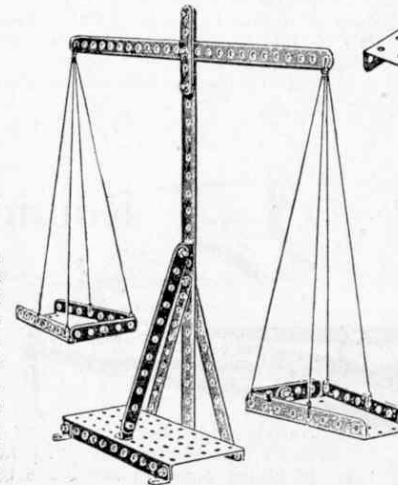
Parts  
Required:

2 of No. 1	
2 " " 2	
1 " " 3	
4 " " 12	
1 " " 17	
2 " " 22	
19 " " 37	
2 " " 35	
1 " " 52	
1 " " 54	



Model  
No. 34

The scale beam of this model is pivoted in a slot at the top of the upright standard. This slot is formed by bolting a 2 1/2 in. strip to the standard, nuts being placed between the strip and the standard before screwing up. These nuts hold the strip and the standard at the required distance apart to give the beam free play.

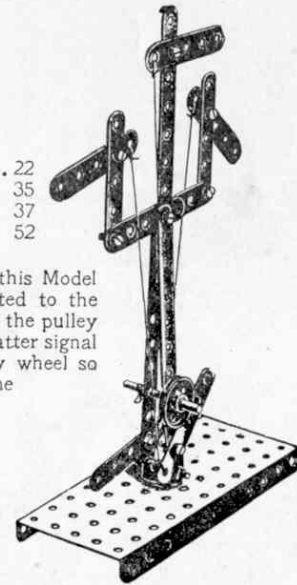


Model No. 32

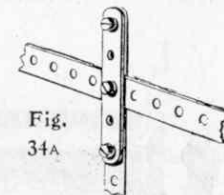
Parts Required:

3 of No. 2	1 of No. 22
9 " " 5	1 " " 35
1 " " 11	16 " " 37
1 " " 17	1 " " 52

The two outside signals of this Model are operated by the levers pivoted to the upright, and the centre signal by the pulley wheel. The cord operating this latter signal is securely tied round the pulley wheel so that when the wheel is turned the signal is raised or lowered.



### Scales



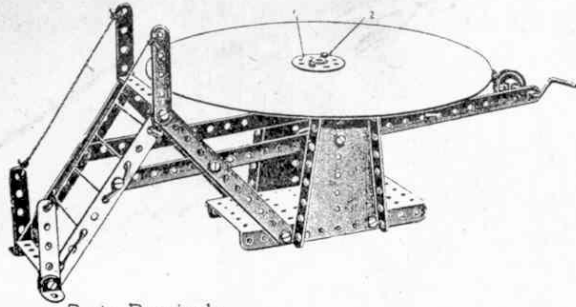
Parts Required.

2 of No. 1	19 of No. 37
3 " " 2	1 " " 52
1 " " 5	2 " " 54
4 " " 12	2 " " 60



These Models Can be Made with MECCANO Outfit No. 1

## Model No. 35 Joy Wheel



Parts Required:

2 of No. 1	3 of No. 22
4 " " 2	1 " " 24
4 " " 5	3 " " 35
2 " " 12	20 " " 37
1 " " 15A	1 " " 52
1 " " 19	2 " " 54
	3 " " 60

The driving mechanism and construction of the framework of this model are clearly brought out in Fig. 35A. Cut out a circular piece of cardboard, 8" in diameter, and in the centre of the disc fix a bush wheel 1 by nuts and bolts 2. The eye of the bush wheel is then threaded over the top of the vertical spindle 3, and secured by its set-screw. The rotating table is cut out of a piece of ordinary cardboard.

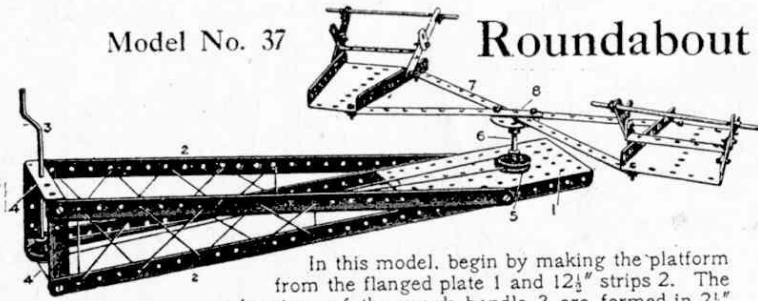
Fig. No. 35A

Parts Required:

4 of No. 1
4 " " 2
6 " " 5
4 " " 10
2 " " 15A
1 " " 17
1 " " 19
3 " " 22
1 " " 24
5 " " 35
20 " " 37
1 " " 52
2 " " 54
4 " " 60

## Model No. 37

## Roundabout

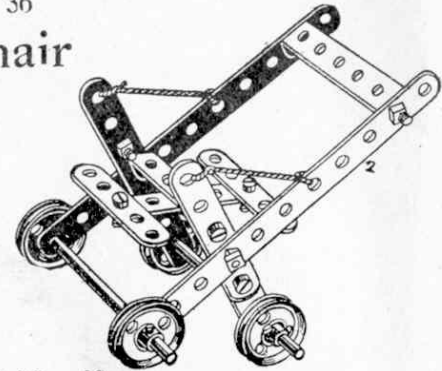


In this model, begin by making the platform from the flanged plate 1 and 12½" strips 2. The bearings of the crank handle 3 are formed in 2½" bent strips 4. The drive from the pulley on the crank is taken to a 1" pulley 5, fast on the spindle 6, another similar pulley being secured to the spindle beneath the flanged plate. The arms 7, formed of four 5½" strips, are bolted to a bush wheel 8 fast on the spindle 6.

## Model No. 36 Go Chair

Parts Required:

2 of No. 2
7 " " 5
2 " " 15A
4 " " 22
13 " " 37
2 " " 60



## Model No. 38

## Cot on Wheels

Parts Required:

4 of No. 2	4 of No. 22
6 " " 5	17 " " 37
2 " " 12	3 " " 60

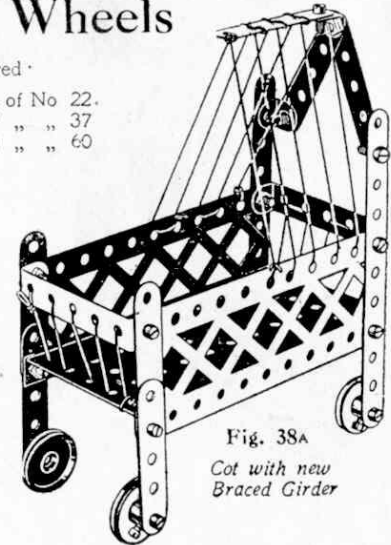
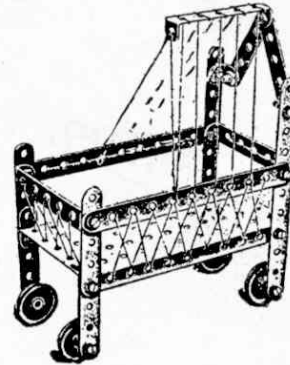


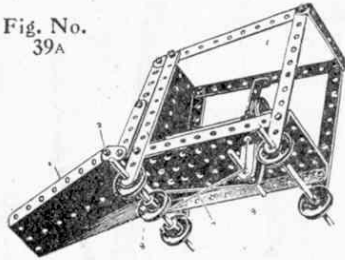
Fig. 38A

Cot with new Braced Girder

These Models Can be Made with MECCANO Outfit No. 1

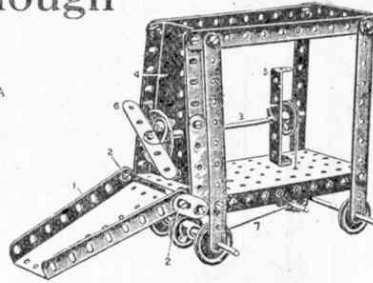
## Model No. 39 Snow Plough

Fig. No.  
39A



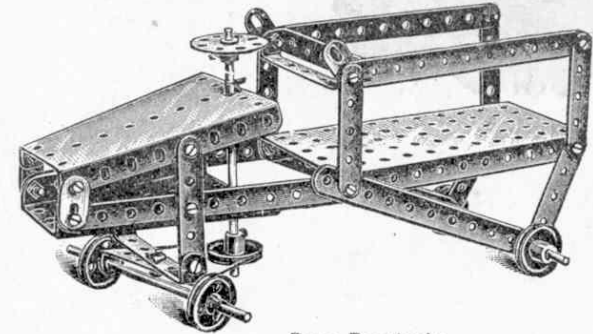
Parts Required :

6 of No.	2	2 of No.	22A
3 " "	5	1 " "	24
2 " "	60	4 " "	35
2 " "	10	19 " "	37
1 " "	12	1 " "	44
3 " "	15A	1 " "	52
1 " "	17	2 " "	54
4 " "	22		



The construction of the framework of this Model presents no difficulty. The sector plate 1 forming the plough is loosely pivoted on the bolts 2. The axle 3 is mounted in the front sector plate 4 and the 2½" bent strip 5. A 2½" strip 6 is bolted by angle brackets to a bush wheel on the front of the axle and forms a dispersing propeller for the snow after it rises up the inclined sector plate 1. A continuous cord 7 is passed round a 1" pulley wheel 8 and round a short axle 9 and a 1" pulley wheel on the propeller axle. In this way, as the plough is moved along the track, the propeller is revolved.

## Model No. 40 Motor Cart



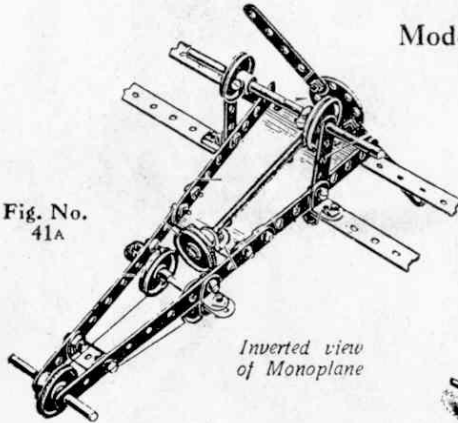
Parts Required :

6 of No.	2	1 of No.	24
8 " "	5	3 " "	35
4 " "	10	20 " "	37
3 " "	15A	1 " "	52
3 " "	22	2 " "	54
2 " "	22A	4 " "	60

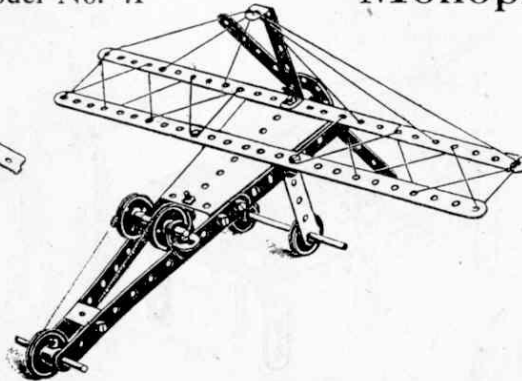
## Model No. 41

## Monoplane

Fig. No.  
41A



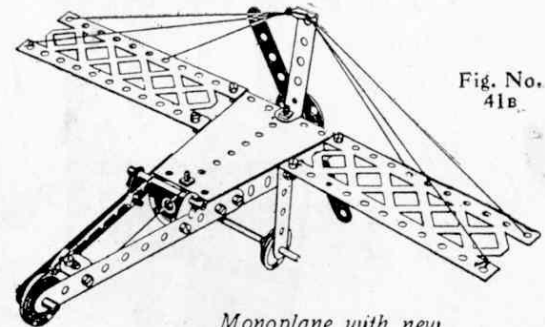
*Inverted view  
of Monoplane*



Parts  
Required :

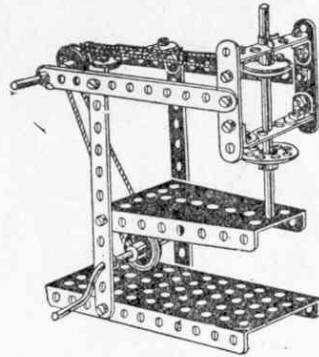
2 of No.	1
2 " "	2
4 " "	5
1 " "	11
8 " "	12
2 " "	15A
1 " "	17
4 " "	22
2 " "	22A
1 " "	24
2 " "	35
18 " "	37
1 " "	54
1 " "	60

Fig. No.  
41B



*Monoplane with new  
Meccano Braced Girder*

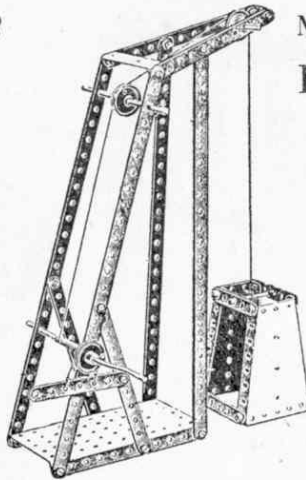




Model No. 42  
**Drilling Machine**

Parts Required

4 of No. 2
5 " " 5
6 " " 12
2 " " 15A
1 " " 19
4 " " 22
1 " " 24
4 " " 35
18 " " 37
1 " " 52
1 " " 54



Model No. 43  
**Pit Headgear**

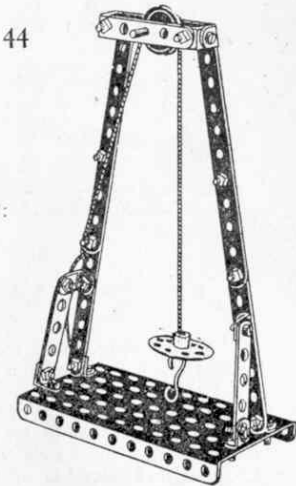
Parts Required:

4 of No. 1
4 " " 2
1 " " 3
4 " " 5
1 " " 11
1 " " 15A
1 " " 17
1 " " 19
3 " " 22
2 " " 35
24 " " 37
1 " " 52
2 " " 54

Model No. 44  
**Hoisting Block**

Parts Required:

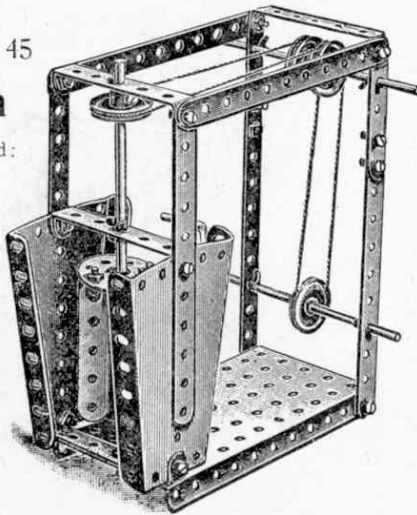
4 of No. 2
3 " " 5
8 " " 12
1 " " 17
1 " " 22
1 " " 24
22 " " 37
1 " " 52
1 " " 57
1 " " 60



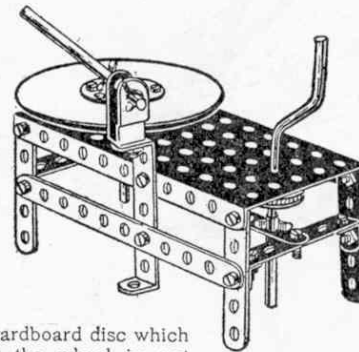
Model No. 45  
**Churn**

Parts Required:

6 of No. 2
4 " " 5
2 " " 12
2 " " 15
1 " " 19
2 " " 22
2 " " 22A
1 " " 24
5 " " 35
19 " " 37
1 " " 52
2 " " 54
3 " " 60



Model No. 46 **Potter's Wheel**



The cardboard disc which forms the wheel is not provided in the outfit.

Parts Required:

2 of No. 2
4 " " 5
1 " " 15A
1 " " 17
1 " " 19
2 " " 22
1 " " 24
3 " " 35
16 " " 37
1 " " 44
1 " " 52
3 " " 60

*Under View of Potter's Wheel*

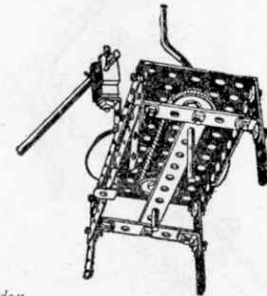


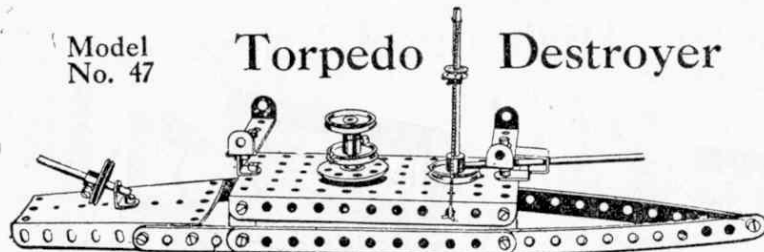
Fig. 46A

These Models Can be Made with MECCANO Outfit No. 1

13

Model  
No. 47

## Torpedo Destroyer



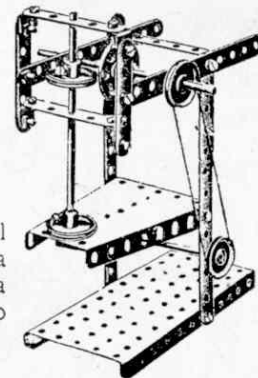
Parts Required:	4 of No. 2	1 of No. 17	19 of No. 37
	2 " " 5	4 " " 22	1 " " 44
	4 " " 10	1 " " 23	1 " " 52
	1 " " 11	1 " " 24	1 " " 54
	1 " " 12	3 " " 35	2 " " 60
	2 " " 15A		

Model  
No. 48

## Drop Stamp

Parts Required:

4 of No. 2	4 of No. 22
7 " " 5	1 " " 24
4 " " 12	2 " " 35
2 " " 15A	20 " " 37
1 " " 19	1 " " 52
	1 " " 60



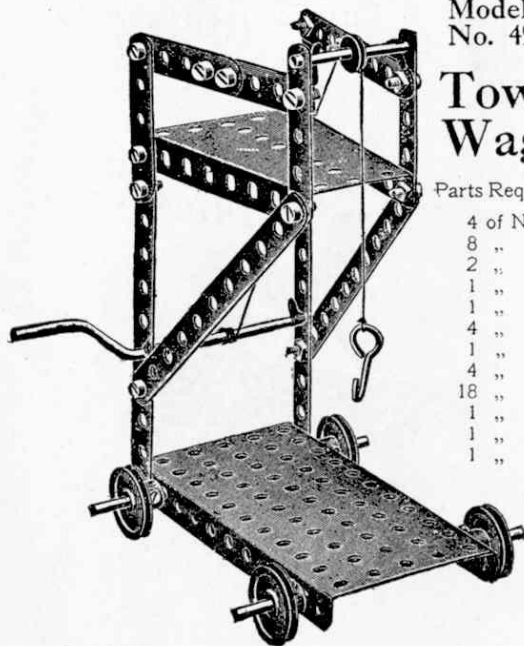
The stamp of this model is raised and dropped by a  $2\frac{1}{2}$ " strip attached to a bush wheel similar to Model No. 55.

Model  
No. 49

## Tower Wagon

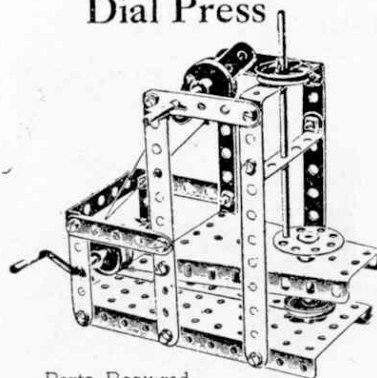
Parts Required:

4 of No. 2
8 " " 5
2 " " 15A
1 " " 17
1 " " 19
4 " " 22
1 " " 23
4 " " 35
18 " " 37
1 " " 52
1 " " 54
1 " " 57



Model No. 50

## Automatic Dial Press



Parts Required:

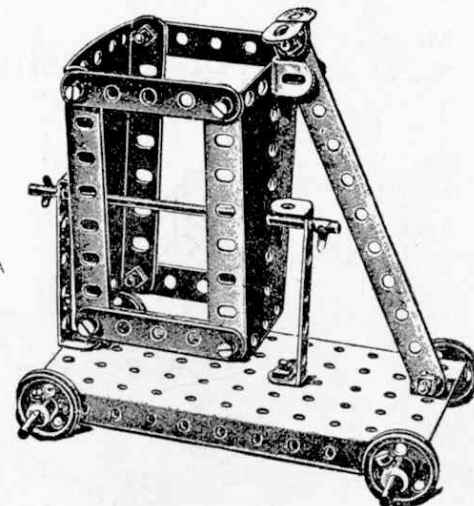
4 of No. 2	2 of No. 22A
7 " " 5	1 " " 24
2 " " 15A	6 " " 35
1 " " 17	18 " " 37
1 " " 19	1 " " 52
4 " " 22	1 " " 54
	3 " " 60

Model  
No. 51

## Tip Wagon

Parts  
Required:

1 of No. 2
4 " " 5
5 " " 12
3 " " 15A
4 " " 22
15 " " 37
2 " " 35
1 " " 52
2 " " 60



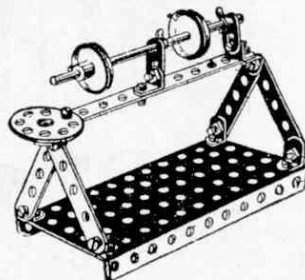


These Models Can be Made with MECCANO Outfit No.

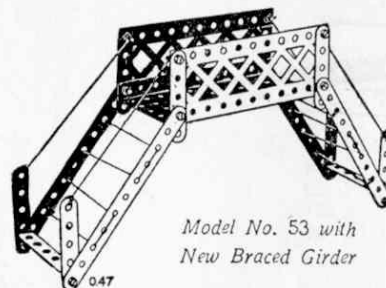
## Model No. 52 Polishing Spindle

Parts  
Required :

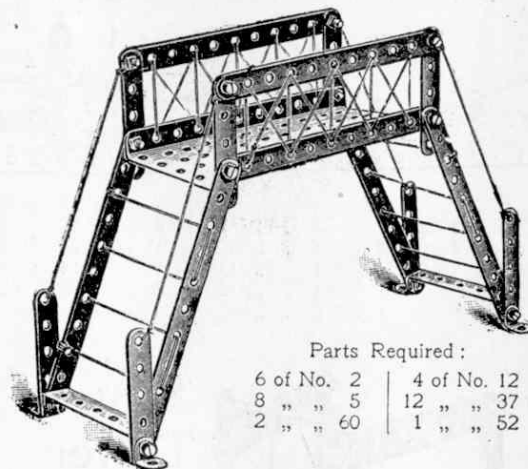
1 of No. 2
4 " " 5
2 " " 10
8 " " 12
1 " " 15A
2 " " 22
1 " " 24
2 " " 35
15 " " 37
1 " " 52



## Model No. 53 High Level Bridge



Model No. 53 with  
New Braced Girder



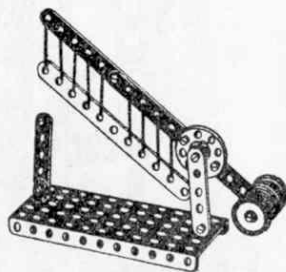
Parts Required :

6 of No. 2	4 of No. 12
8 " " 5	12 " " 37
2 " " 60	1 " " 52

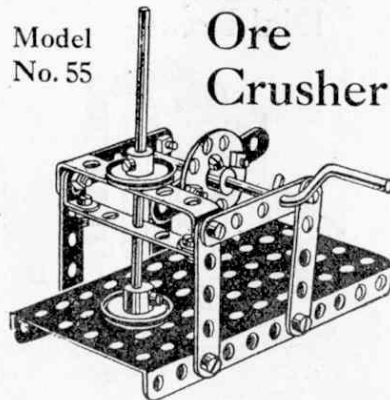
## Model No. 54 Level Crossing

Parts  
Required :

3 of No. 2
2 " " 5
2 " " 12
1 " " 17
4 " " 22
1 " " 24
9 " " 37
1 " " 52



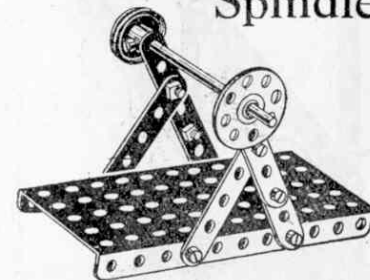
## Model No. 55 Ore Crusher



Parts Required :

8 of No. 5	1 of No. 19	2 of No. 35
2 " " 12	2 " " 22	12 " " 37
1 " " 15A	1 " " 24	1 " " 52
		1 " " 60

## Model No. 56 Buffing Spindle



Parts Required :

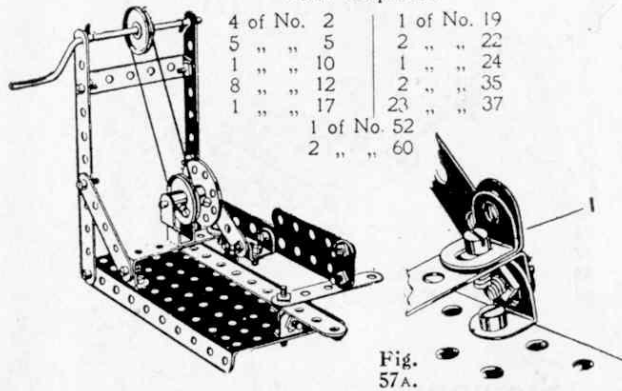
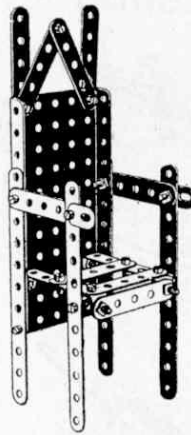
6 of No. 5	1 of No. 24
1 " " 15A	8 " " 37
1 " " 22	1 " " 52

Model No. 57

## Metal Saw

Parts Required:

4 of No. 2	1 of No. 19
5 " " 5	2 " " 22
1 " " 10	1 " " 24
8 " " 12	2 " " 35
1 " " 17	23 " " 37
	1 of No. 52
	2 " " 60

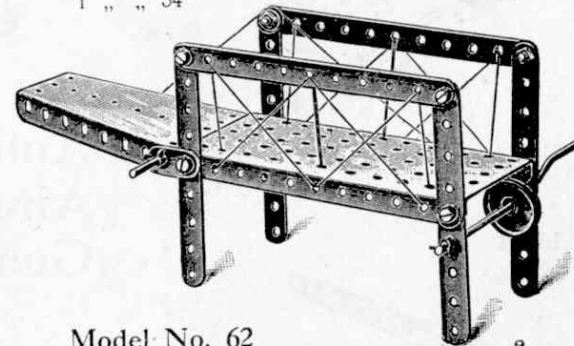
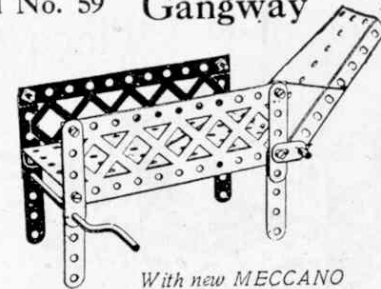
Model  
No. 58Coronation  
ChairParts  
Required.

4 of No. 2	
9 " " 5	
2 " " 10	
2 " " 12	
19 " " 37	
1 " " 52	

Model No. 59 Gangway

Parts Required:

2 of No. 2	
8 " " 5	
2 " " 10	
1 " " 15A	
1 " " 19	
1 " " 22	
1 " " 22A	
3 " " 35	
8 " " 37	
1 " " 52	
1 " " 54	

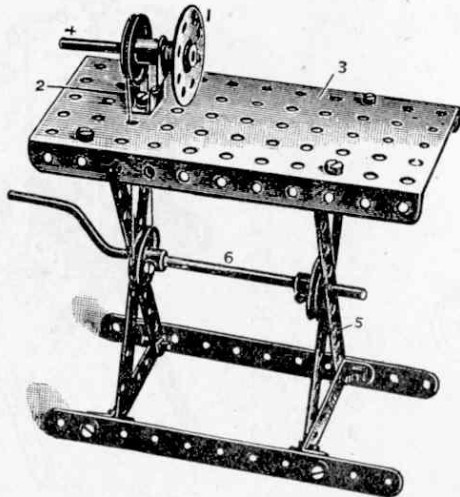


Model No. 60

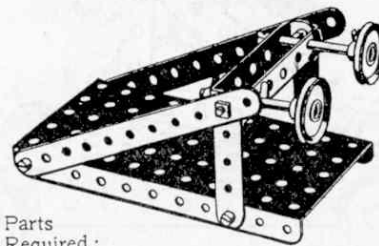
## Lathe

Parts  
Required:

6 of No. 2	
2 " " 60	
4 " " 12	
1 " " 17	
1 " " 19	
3 " " 22	
1 " " 24	
17 " " 37	
1 " " 44	
1 " " 52	

Model  
No. 61

## Buffers

Parts  
Required:

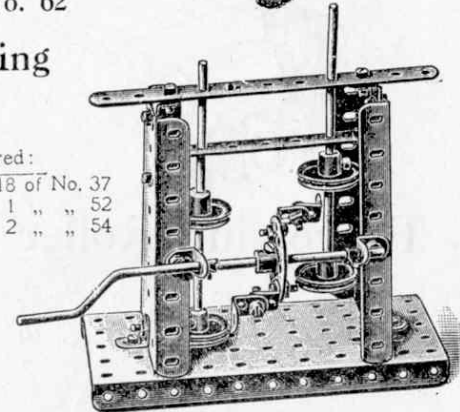
2 of No. 2	4 of No. 35
2 " " 5	6 " " 37
2 " " 17	1 " " 52
2 " " 22	2 " " 60

Model No. 62

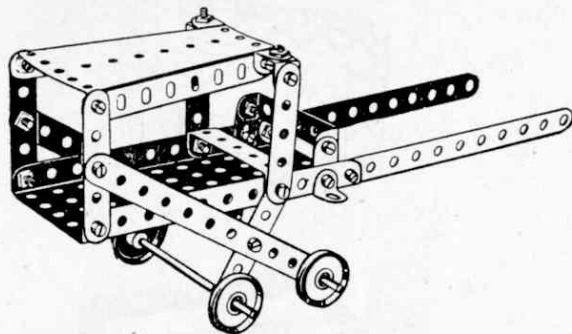
Stamping  
Mill

Parts Required:

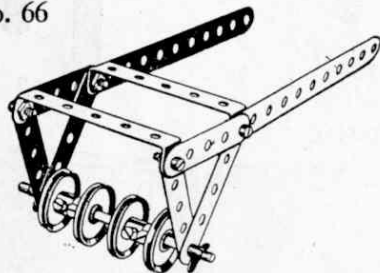
1 of No. 2	18 of No. 37
1 " " 3	1 " " 52
12 " " 12	2 " " 54
2 " " 15A	
1 " " 19	
4 " " 22	
1 " " 24	
2 " " 35	



Model No. 63

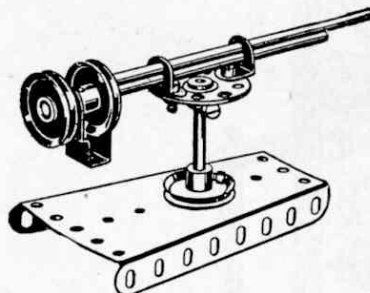
**Ticca Gharry**

Parts Required :	4 of No. 2	4 of No. 22
	6 " " 5	20 " " 37
	2 " " 10	1 " " 52
	6 " " 12	1 " " 54
	2 " " 15A	2 " " 60

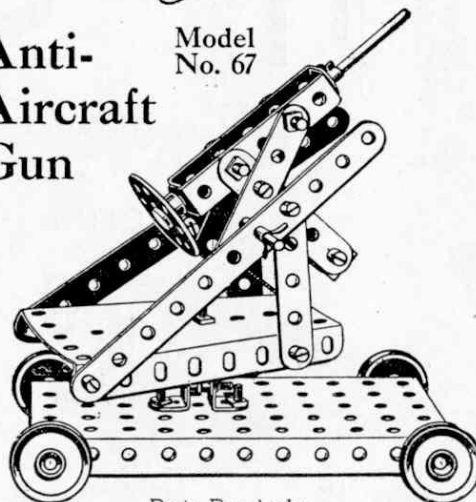
Model  
No. 66**Furrowing Roller**

Parts Required	2 of No. 2	2 of No. 35
	6 " " 5	4 " " 37
	1 " " 15A	2 " " 60
	4 " " 22	

Model No. 64

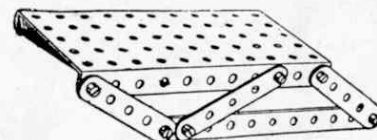
**Sharpshooter Gun**

Parts Required :	2 of No. 12
	2 " " 15A
	1 " " 17
	4 " " 22
	1 " " 24
	2 " " 37
	1 " " 44
	1 " " 54

Model  
No. 67**Anti-Aircraft Gun**

Parts Required :	2 of No. 2	4 of No. 22	1 of No. 44
	6 " " 5	1 " " 24	1 " " 52
	4 " " 12	5 " " 35	1 " " 54
	2 " " 15A	23 " " 37	2 " " 60

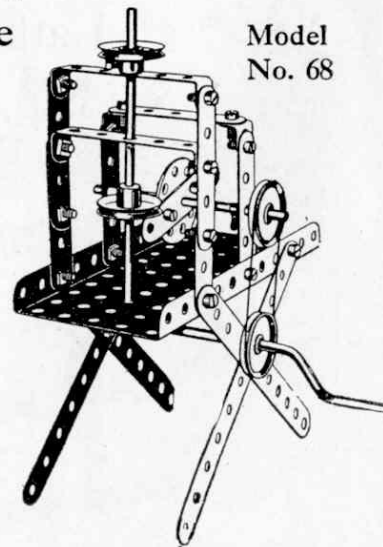
Model No. 65

**Sleigh**

Parts Required :	2 of No. 2
	6 " " 5
	12 " " 37

**Stamping Machine**Model  
No. 68

Parts Required :	4 of No. 2
	8 " " 5
	2 " " 12
	2 " " 15A
	1 " " 19
	4 " " 22
	1 " " 24
	3 " " 35
	20 " " 37
	1 " " 52
	2 " " 60

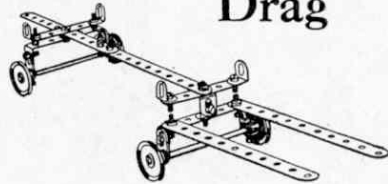




These Models Can be Made with MECCANO Outfit No. 1

17

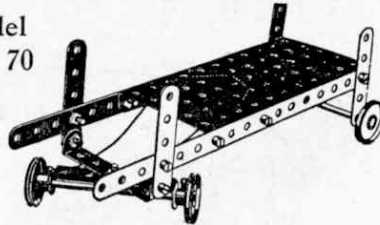
## Model No. 69 Timber Drag



Parts Required:	4 of No. 2	4 of No. 22
	4 " " 10	18 " " 37
	6 " " 12	3 " " 60
	2 " " 15A	

## Steering Truck

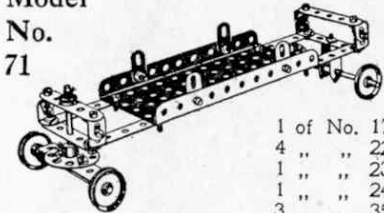
Model  
No. 70



Parts Required:	2 of No. 2	11 of No. 37
	4 " " 5	1 " " 52
	2 " " 15A	2 " " 60
	4 of No. 22	

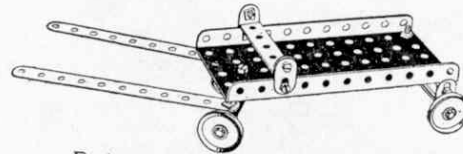
## Boiler Truck

Model  
No.  
71



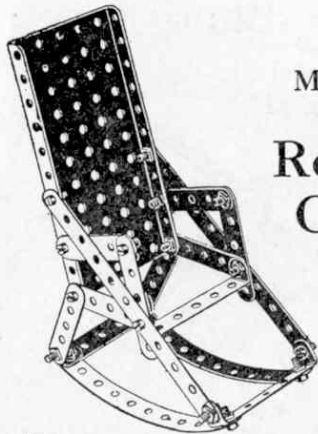
Parts Required:	8 of No. 5	1 of No. 17
	4 " " 10	4 " " 22
	8 " " 12	1 " " 23
	2 " " 15A	1 " " 24
		3 " " 35
		23 " " 37
		1 " " 44
		1 " " 52
		1 " " 60

## Model No. 73 Lorry



Parts Required:	2 of No. 2	13 of No. 37
	4 " " 10	1 " " 24
	2 " " 12	1 " " 52
	2 " " 15A	2 " " 60
	4 of No. 22	

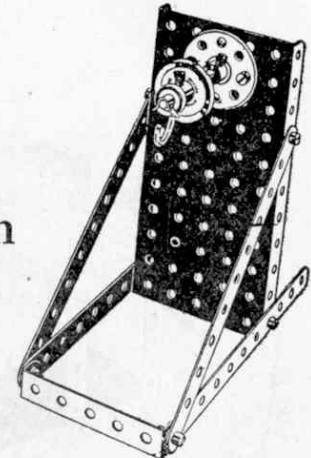
## Model No. 72 Rocking Chair



Parts Required:	4 of No. 2	18 of No. 37
	9 " " 5	1 " " 52
	2 " " 12	1 " " 60

Model  
No. 74

## Watch Stand



Parts Required:	4 of No. 2	1 of No. 35
	1 " " 17	8 " " 37
	1 " " 22	1 " " 52
	1 " " 23	1 " " 57
	1 " " 24	1 " " 60

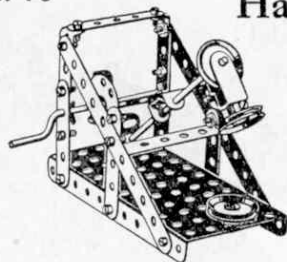
## Model No. 75 Telegraph Code Key

Parts  
Required:

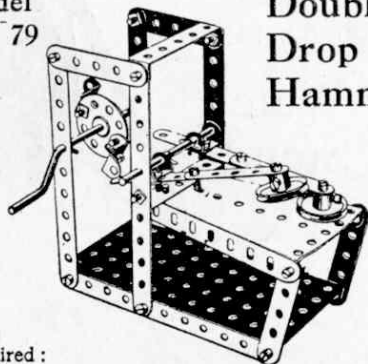
3 of No. 2	1 of No. 22
1 " " 10	12 " " 37
5 " " 12	1 " " 52



These Models Can be Made with MECCANO Outfit No. 1

Model  
No. 76Drop  
Hammer

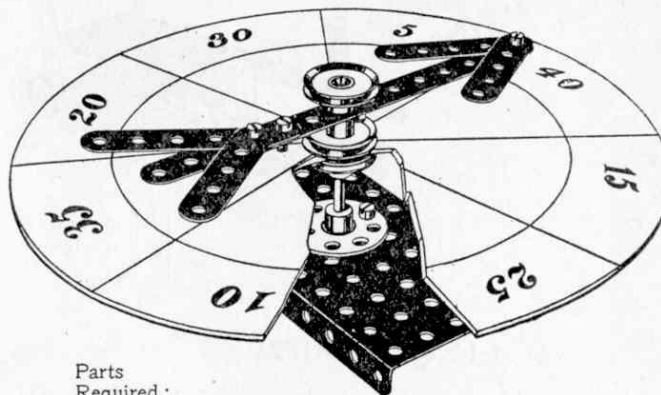
Parts Required:	2 of No. 2	3 of No. 22
	7 " " 5	1 " " 24
	6 " " 12	23 " " 37
	1 " " 15A	1 " " 44
	1 " " 19	1 " " 52
	2 of No. 60	

Model  
No. 79Double-  
Drop  
Hammer

Parts Required:	4 of No. 2	1 of No. 19	22 of No. 37
	8 " " 5	2 " " 22	1 " " 52
	8 " " 12	1 " " 24	1 " " 54
	1 " " 15A	4 " " 35	2 " " 60

Model  
No. 77

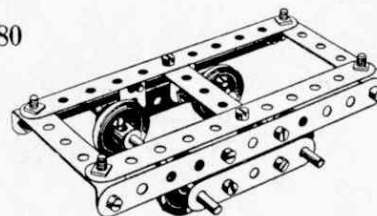
## Roulette Wheel

Parts  
Required:

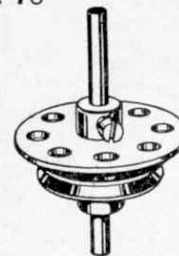
1 of No. 2
5 " " 5
1 " " 15A
3 " " 22
1 " " 24
5 " " 37
1 " " 52

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. 80

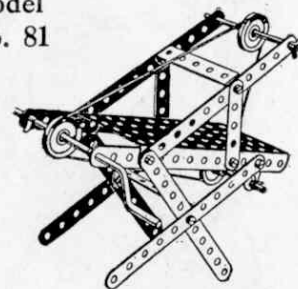
Bogey  
TruckParts  
Required:

4 of No. 2	4 of No. 22
3 " " 5	18 " " 37
4 " " 10	2 " " 60
2 " " 15A	

Model  
No. 78Spinning  
Top

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

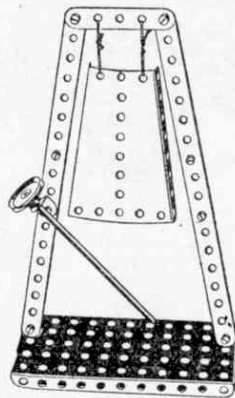
## Band Saw

Model  
No. 81Parts  
Required:

6 of No. 2	3 of No. 22
4 " " 5	6 " " 35
2 " " 10	10 " " 37
2 " " 15A	1 " " 52
1 " " 19	2 " " 60

## Gong

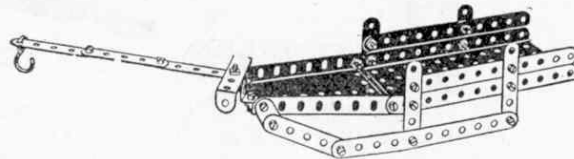
Model No. 82

Parts  
Required:

2 of No. 2
1 " " 5
3 " " 12
1 " " 15A
1 " " 22
10 " " 37
1 " " 52
1 " " 54

Model  
No. 83

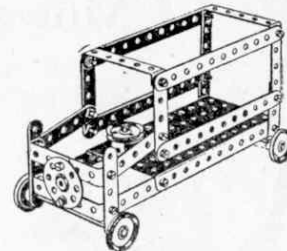
## Horse Sleigh

Parts  
Required:

4 of No. 2	25 of No. 37
9 " " 5	1 " " 52
4 " " 10	1 " " 54
2 " " 12	1 " " 57

Model  
No. 84

## Motor Van

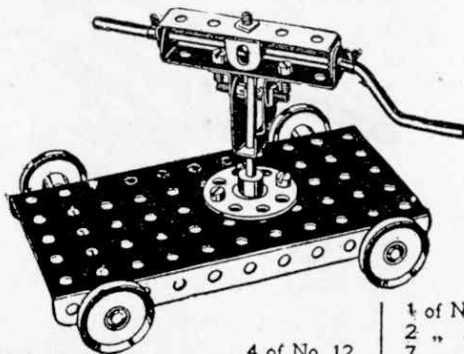


Parts Required:

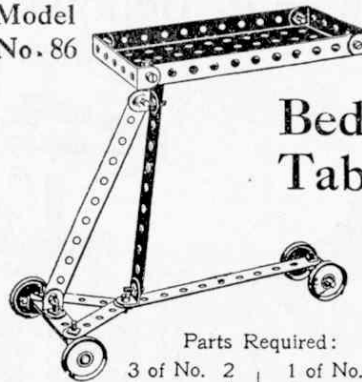
6 of No. 2	2 of No. 15A	22 of No. 37
1 " " 3	4 " " 22	1 " " 52
9 " " 5	1 " " 22A	4 " " 60
1 " " 11	1 " " 24	

Model  
No. 85

## Rock Drill

Parts  
Required:

4 of No. 12	1 of No. 24
1 " " 15A	2 " " 35
1 " " 19	7 " " 37
1 " " 22	1 " " 44
	1 " " 52
	2 " " 60

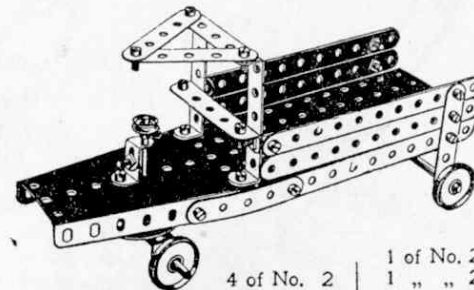
Model  
No. 86Bed  
Table

Parts Required:

3 of No. 2	1 of No. 17
2 " " 5	4 " " 22
1 " " 11	15 " " 37
4 " " 12	1 " " 52
1 " " 15A	3 " " 60

Model  
No. 87

## Motor Lorry

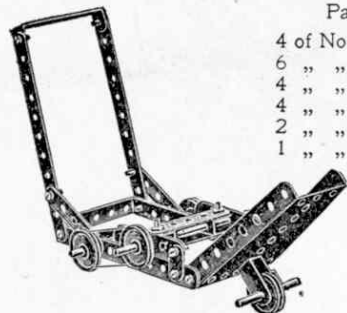
Parts  
Required:

4 of No. 2	1 of No. 23
8 " " 5	1 " " 24
8 " " 12	2 " " 35
2 " " 15A	25 " " 37
1 " " 17	1 " " 52
4 " " 22	1 " " 54
	2 " " 60



These Models Can be Made with MECCANO Outfit No. 1

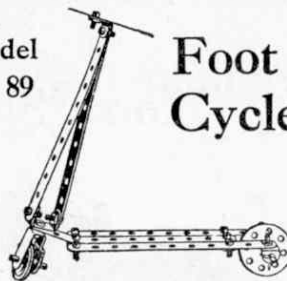
Model No. 88

**Lawn Mower**

Parts Required :

4 of No. 2	4 of No. 22
6 " " 5	21 " " 37
4 " " 10	1 " " 44
4 " " 12	1 " " 54
2 " " 15A	2 " " 60
1 " " 17	

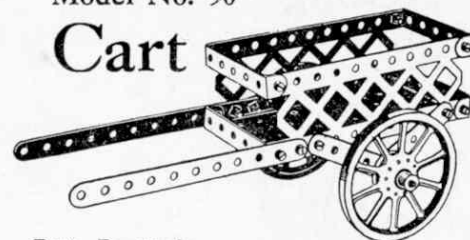
Model No. 89

**Foot Cycle**

Parts Required :

5 of No. 2	1 of No. 22
1 " " 5	1 " " 24
4 " " 10	4 " " 35
1 " " 11	15 " " 37
3 " " 12	1 " " 44
2 " " 17	

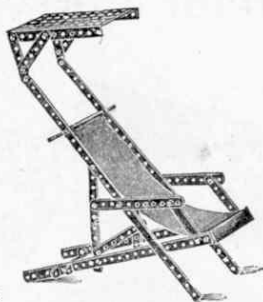
Model No. 90

**Cart**

Parts Required :

4 of No. 2	2 of No. 22	2 of No. 59
4 " " 5	15 " " 37	4 " " 60
1 " " 15	1 " " 44	2 " " 100
2 " " 19A	1 " " 52	

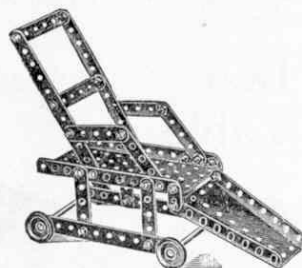
Model No. 91

**Deck Chair**

Parts Required :

4 of No. 1	1 of No. 15A
4 " " 2	30 " " 37
1 " " 3	1 " " 52
6 " " 5	2 " " 60
6 " " 12	

Model No. 92

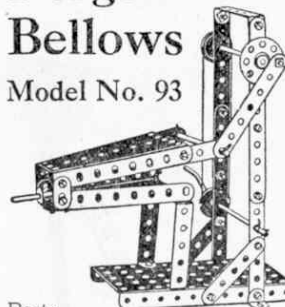
**Invalid Chair**

Parts Required :

4 of No. 2	22 of No. 37
8 " " 5	1 " " 52
2 " " 10	1 " " 54
2 " " 15A	2 " " 60
4 " " 22	

**Forge Bellows**

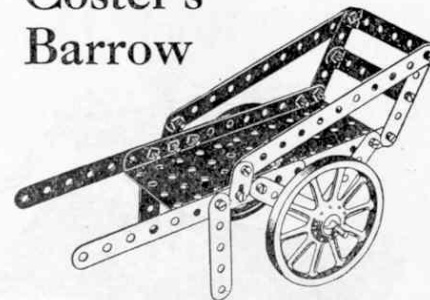
Model No. 93



Parts Required :

4 of No. 2	1 of No. 19
1 " " 3	2 " " 22
2 " " 5	1 " " 24
2 " " 10	5 " " 35
1 " " 11	25 " " 37
2 " " 12	1 " " 52
2 " " 15A	2 " " 54
1 " " 17	3 " " 60

Model No. 94

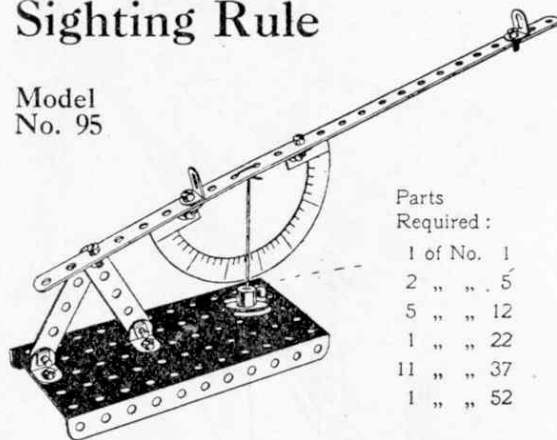
**Coster's Barrow**

Parts Required :

4 of No. 2	4 of No. 35
8 " " 5	16 " " 37
2 " " 10	1 " " 52
1 " " 15A	2 " " 60
2 " " 19A	

## Sighting Rule

Model  
No. 95

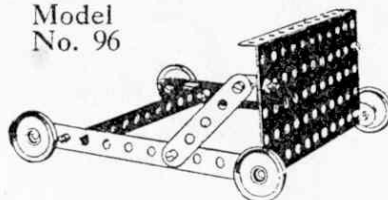


Parts  
Required:

1 of No. 1
2 " " 5
5 " " 12
1 " " 22
11 " " 37
1 " " 52

## Devil Wall

Model  
No. 96

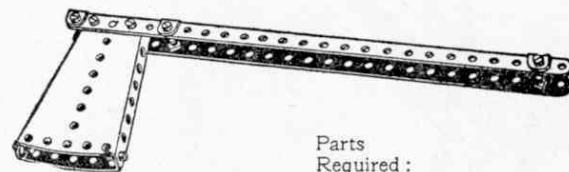


Parts Required:

3 of No. 2	4 of No. 22
2 " " 5	18 " " 37
6 " " 12	1 " " 52

Model  
No. 97

## Hatchet

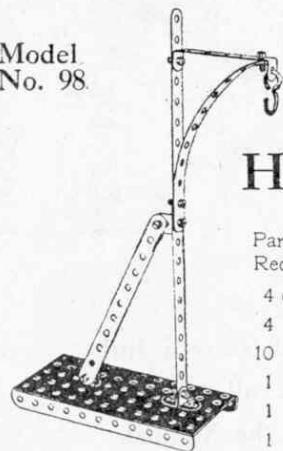


Parts  
Required:

3 of No. 1
6 " " 12
15 " " 37
2 " " 54

Model  
No. 98

## Mail Bag Hanger

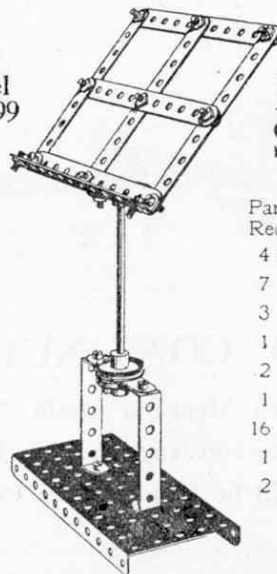


Parts  
Required:

4 of No. 2
4 " " 12
10 " " 37
1 " " 52
1 " " 57
1 " " 60

Model  
No. 99

## Music Stand

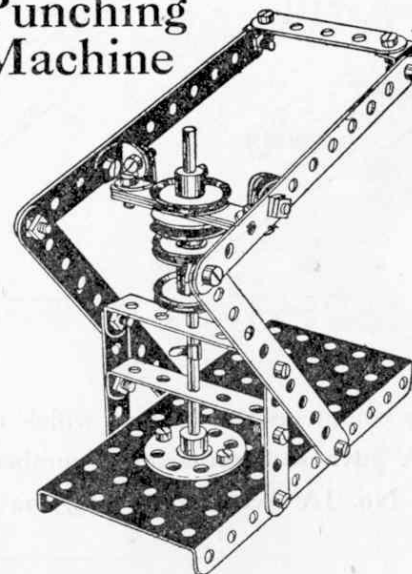


Parts  
Required:

4 of No. 2
7 " " 5
3 " " 12
1 " " 15A
2 " " 22
1 " " 24
16 " " 37
1 " " 52
2 " " 60

## Punching Machine

Model  
No. 100



Parts  
Required:

4 of No. 2
7 " " 5
6 " " 12
1 " " 15A
4 " " 22
1 " " 24
1 " " 35
22 " " 37
1 " " 52
2 " " 60

These Models Can be Made with MECCANO Outfit No. 1

## Anchor

Model No. 101

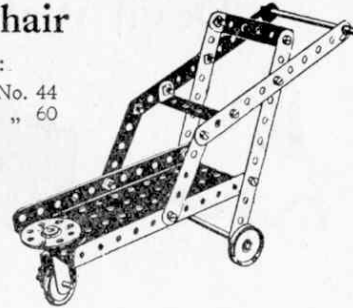


Parts  
Required:  
2 of No. 2  
3 " " 5  
4 " " 10  
4 " " 12  
11 " " 37  
1 " " 57

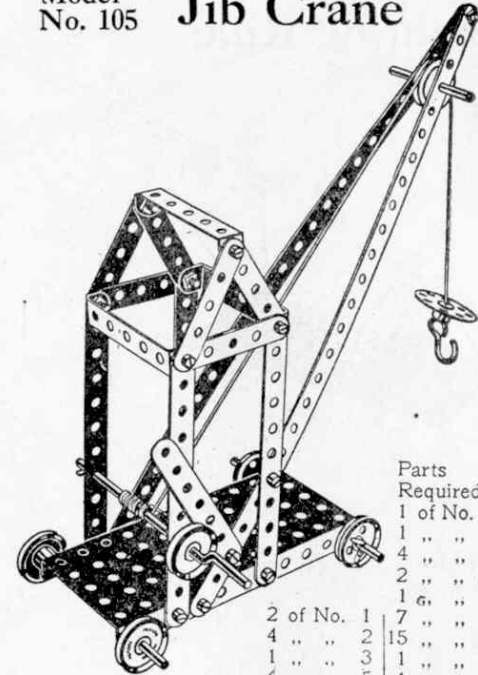
## Model No. 102 Invalid Chair

Parts Required:

4 of No. 2	1 of No. 44
2 " " 5	2 " " 60
2 " " 15A	
1 " " 18	
3 " " 22	
1 " " 24	
2 " " 35	
13 " " 37	

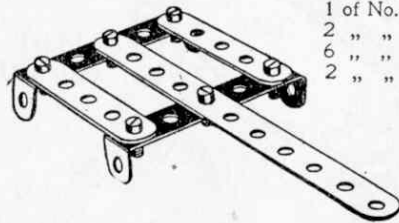


## Model No. 105 Jib Crane



Parts  
Required:  
1 of No. 17  
1 " " 19  
4 " " 22  
2 " " 22A  
1 " " 24  
1 " " 35  
7 " " 37  
1 " " 52  
1 " " 57  
3 " " 60

## Model No. 103 Grill

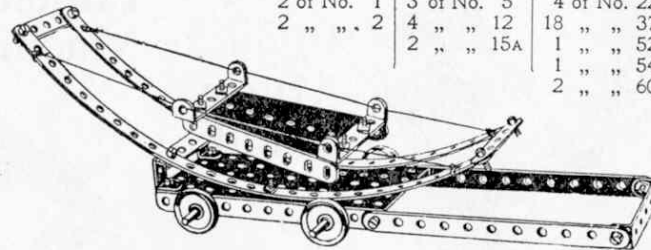


Parts  
Required:  
1 of No. 2  
2 " " 5  
6 " " 37  
2 " " 60

## Model No. 104 Mountain Transport

Parts Required:

2 of No. 1	3 of No. 5	4 of No. 22
2 " " 2	4 " " 12	18 " " 37
	2 " " 15A	1 " " 52
		1 " " 54
		2 " " 60



## HOW TO CONTINUE

This completes the Models which may be made with Meccano Outfit No. 1. The next Models are a little more advanced, requiring a number of extra parts to construct them. The necessary parts are all contained in a No. 1A Accessory Outfit, the cost of which will be found in the Price List at the end of the Manual.



Model No. 106

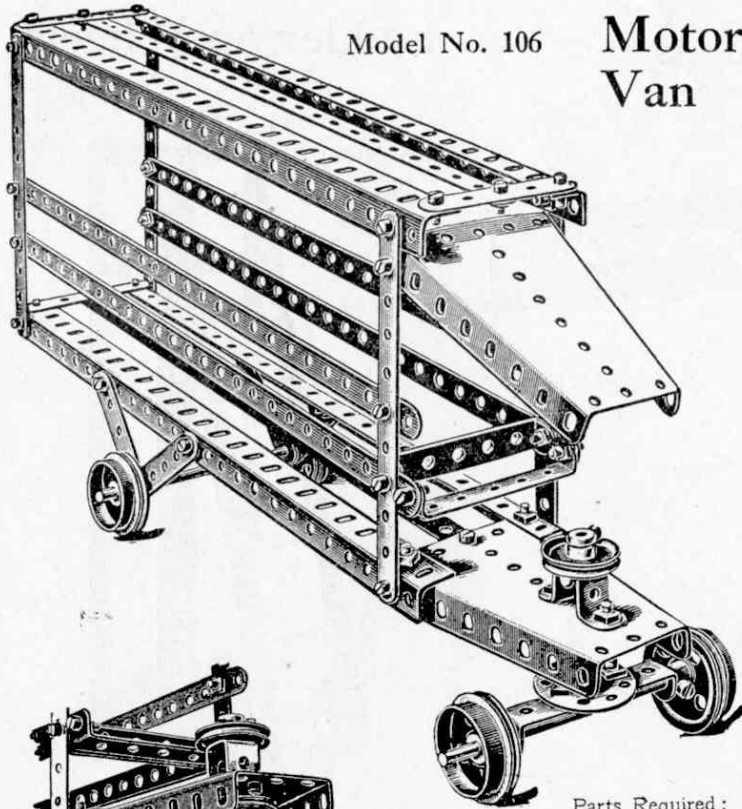
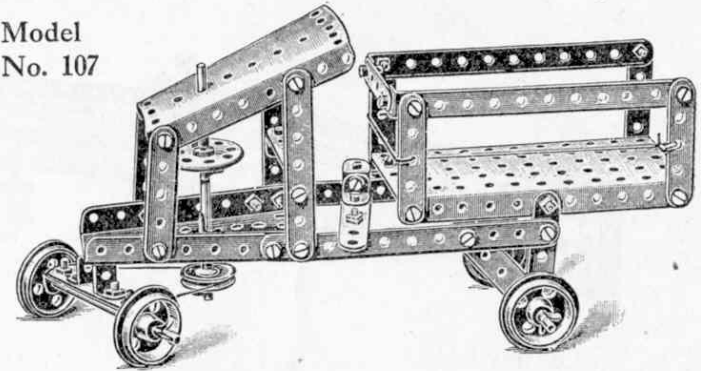
Motor  
Van

Fig. 106A

## Parts Required :

6 of No. 1	2 of No. 22
4 " " 2	1 " " 24
7 " " 5	40 " " 37
4 " " 8	1 " " 45
1 " " 17	2 " " 54
4 " " 20	3 " " 60
2 " " 15	

## Tipping Motor Wagon

Model  
No. 107Parts  
Required :

4 of No. 2	
2 " " 3	
12 " " 5	
5 " " 12	
3 " " 15	
4 " " 20	
1 " " 22	
1 " " 24	
38 " " 37	
1 " " 45	
1 " " 52	
2 " " 54	
3 " " 60	

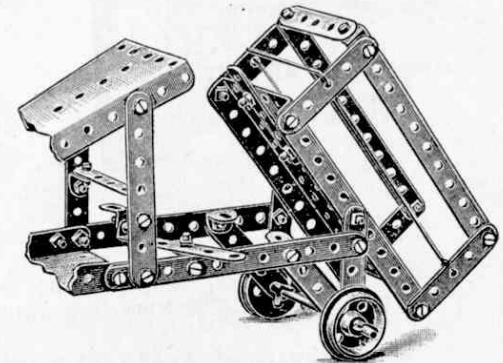


Fig. 107A

These Models Can be Made with MECCANO Outfit No. 2, or No. 1 and No. 1A

Model No. 108

## Swing Bridge

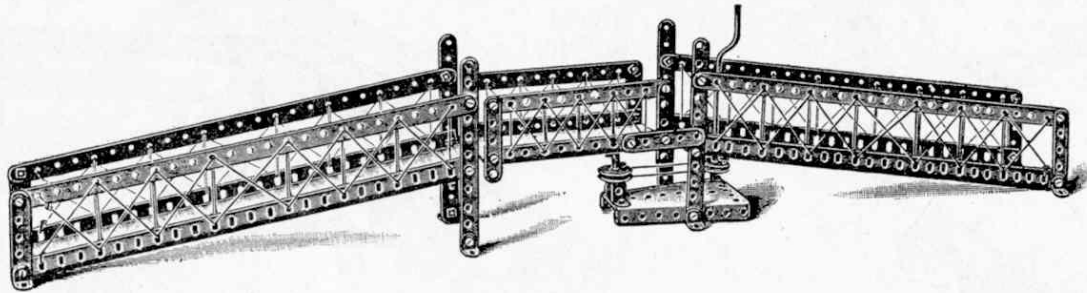
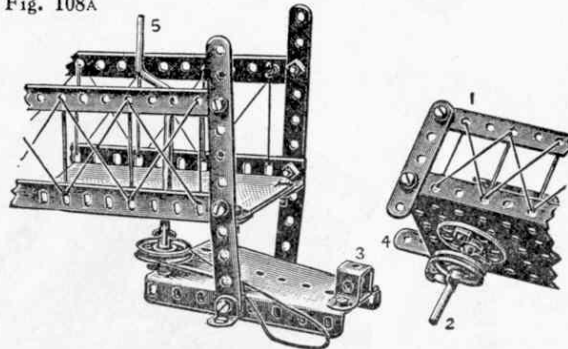


Fig. 108A



Parts Required :

4 of No. 1	1 of No. 24
6 " " 2	1 " " 35
9 " " 5	31 " " 37
4 " " 8	1 " " 45
8 " " 12	1 " " 52
1 " " 17	1 " " 54
1 " " 19	4 " " 60
2 " " 22	

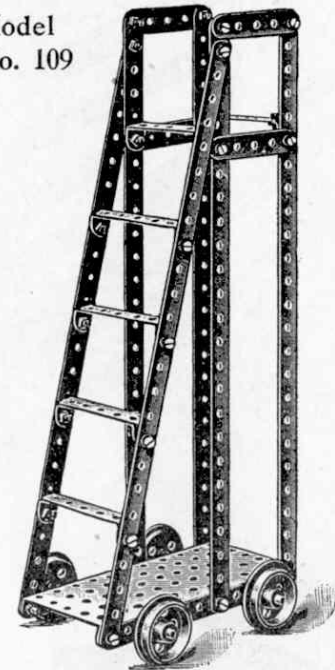
The action for swinging the middle section of the Bridge will be made clearer by the detail Fig. 108A, the middle section 1 being fitted with a spindle 2 journalled in the double bent strip 3; the upper end of the spindle being secured to a bush wheel.

A short strip 4 acts as a stop against the middle section of the Bridge swinging past the central position.

The operating cord passes round pulleys on the spindles 2 and crank handle 5.

## Ladder on Wheels

Model No. 109



Parts Required :

6 of No. 1	24 of No. 37
4 " " 5	1 " " 52
2 " " 15	6 " " 60
4 " " 20	

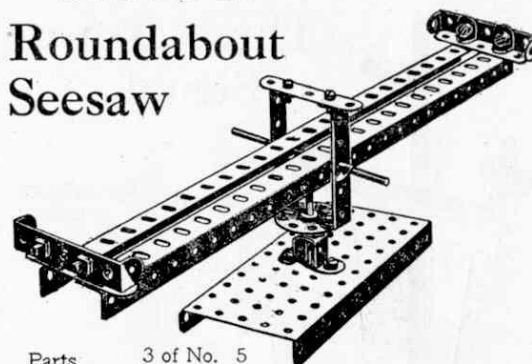
Model No. 110  
**Travelling  
Jib Crane**



Parts Required:

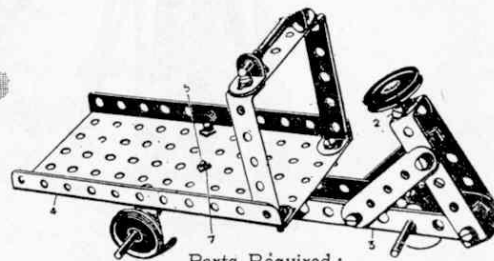
10 of No. 1	2 of No. 15A	1 of No. 24
3 " " 2	2 " " 17	35 " " 37
3 " " 5	1 " " 19	1 " " 57
1 " " 60	4 " " 20	5 " " 35
2 " " 8	2 " " 22	1 " " 44
4 " " 12	1 " " 22A	1 " " 52
		2 " " 54

Model No. 111  
**Roundabout  
Seesaw**



Parts Required:	3 of No. 5	
	2 " " 8	
	4 " " 12	14 of No. 37
	1 " " 15	1 " " 45
	1 " " 24	1 " " 52
	2 " " 35	4 " " 60

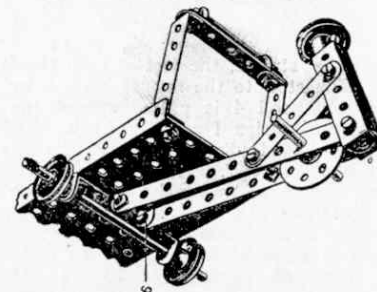
Model No. 112 **Carrier Tricycle**



Parts Required:

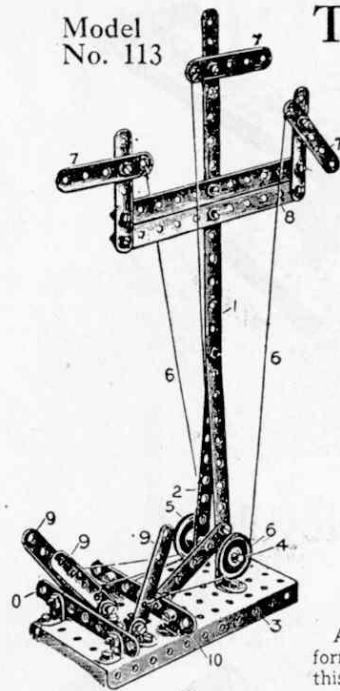
2 of No. 2	3 of No. 22
3 " " 5	1 " " 24
1 " " 11	2 " " 35
2 " " 12	16 " " 37
1 " " 15	1 " " 52
2 " " 17	5 " " 60

Fig. 112A





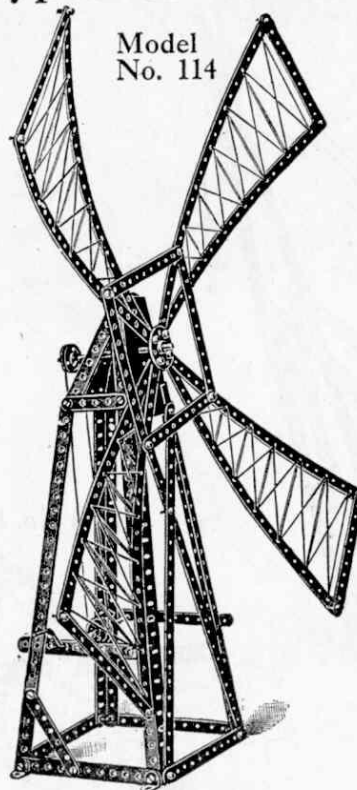
## Types of Windmills

Model  
No. 113Three-arm  
SignalParts  
Required:

1	of No. 1
3	" " 2
2	" " 3
9	" " 5
10	" " 12
1	" " 17
2	" " 22
37	" " 37
1	" " 52

A flanged plate forms the base of this model, a  $12\frac{1}{2}$ " strip 1 being bolt-

ed to a  $5\frac{1}{2}$ " strip 2, the feet of both these strips being connected to the flanged plate 3 by angle brackets. A rod 4 is passed through the lower holes of the strips 1 and 2 and is fitted with guide pulleys 5 leading the actuating cords 6 to the signal arms 7. The cord operating the central arm is run under the rod 4. The signal arms 7 are carried from transverse strips 8. The operating cords 6 are led to three strips 9, pivoted to angle brackets bolted to the flanged plate, and transverse strips 10 are bolted to the perforated plate in the front and rear of the pivoted strips 9 to limit their movement.

Model  
No. 114

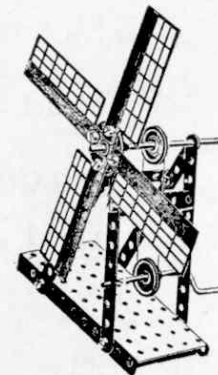
## Parts Required:

10	of No. 1	1	of No. 19
13	" " 2	2	" " 22
2	" " 3	1	" " 24
2	" " 5	4	" " 35
4	" " 8	45	" " 37
4	" " 12	2	" " 54
1	" " 15		

Model No. 115

Parts  
Required:

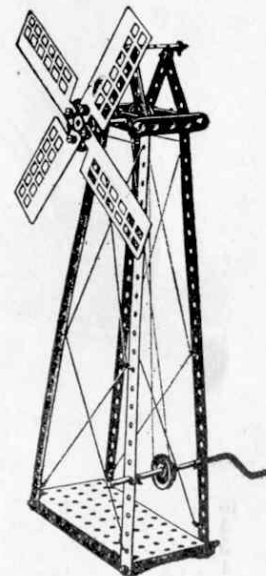
4	of No. 2
2	" " 60
1	" " 15
1	" " 19
2	" " 22
1	" " 24
12	" " 37
3	" " 35
1	" " 52
4	" " 61



Model No. 116

Parts  
Required:

4	of No. 1
7	" " 5
2	" " 60
2	" " 12
1	" " 15
1	" " 19
2	" " 22
1	" " 24
20	" " 37
4	" " 35
1	" " 52
4	" " 61



These Models Can be Made with MECCANO Outfit No. 2, or No. 1 and No. 1A

27

## Model No. 117 Monoplane

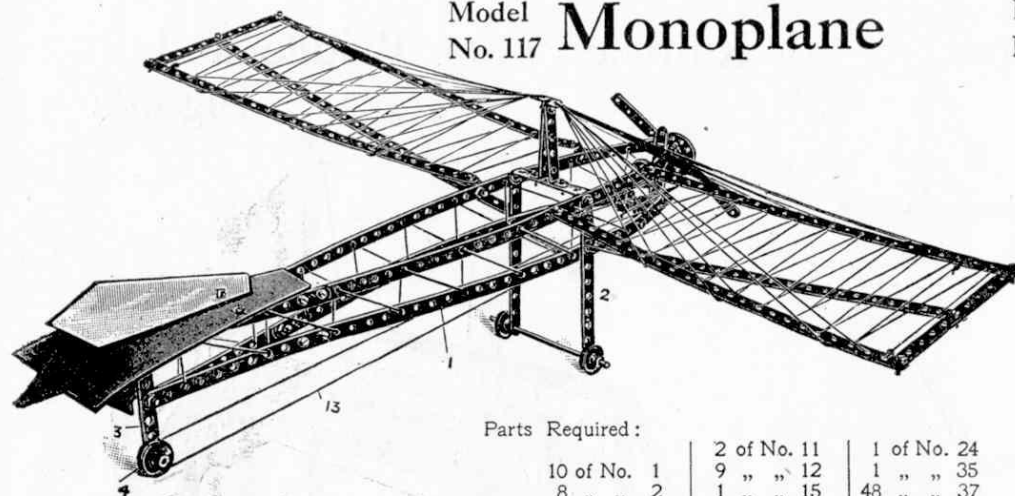


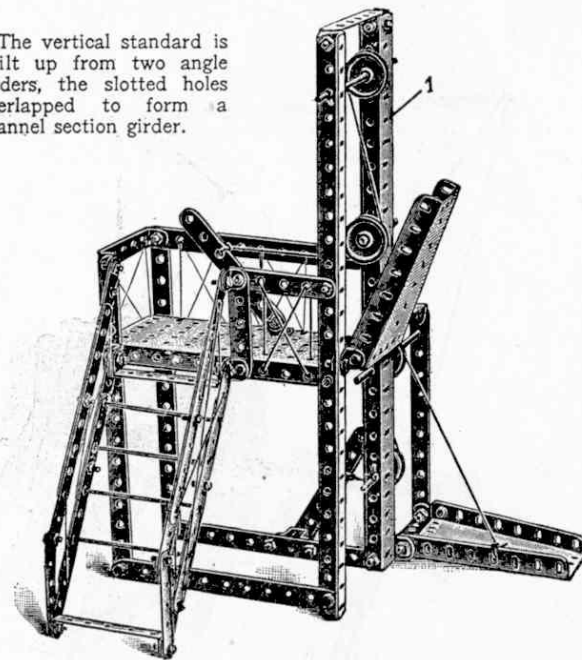
Fig. 117A

Parts Required:

10 of No. 1	2 of No. 11	1 of No. 24
8 " " 2	9 " " 12	1 " " 35
1 " " 3	1 " " 15	48 " " 37
7 " " 5	1 " " 17	1 " " 45
	3 " " 22	4 " " 60

## Model No. 118 Ferry Gangway

The vertical standard is built up from two angle girders, the slotted holes overlapped to form a channel section girder.



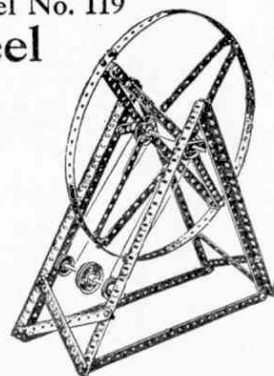
Parts Required:

14 of No. 2	2 of No. 15	50 of No. 37
2 " " 3	2 " " 17	1 " " 45
6 " " 5	2 " " 22	1 " " 52
3 " " 8	2 " " 22A	2 " " 54
2 " " 10	6 " " 35	6 " " 60
7 " " 12		

## Model No. 119 Wheel

Parts Required:

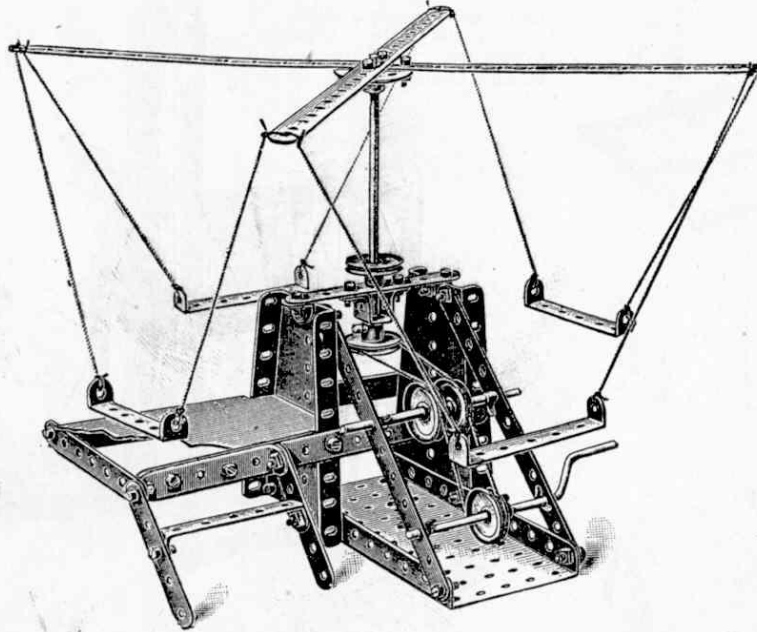
5 of No. 1	
12 " " 2	
2 " " 5	
4 " " 8	
4 " " 11	
2 " " 15	
3 " " 20	
2 " " 22	
44 " " 37	



These Models Can be Made with MECCANO Outfit No. 2, or No. 1 and No. 1A

Model No. 120

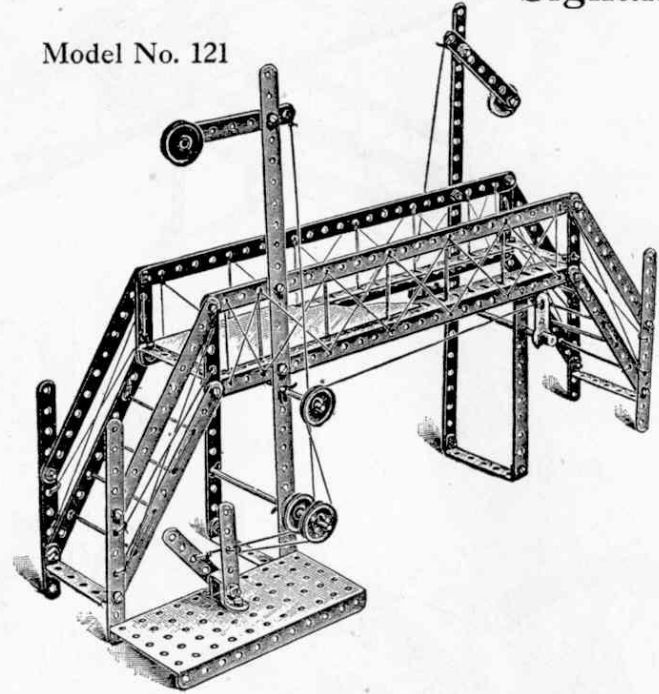
## Roundabout



Parts Required :		2 of No. 1	2 of No. 22A
4	" "	2	1 " " 24
2	" "	3	4 " " 35
4	" "	5	33 " " 37
3	" "	12	1 " " 45
1	" "	15	1 " " 52
1	" "	16	2 " " 54
1	" "	19	6 " " 60
3	" "	22	

## Railway Foot Bridge and Signals

Model No. 121



Parts Required .		
4 of No. 1	2 of No. 8	6 of No. 35
14 " " 2	2 " " 22A	1 " " 45
2 " " 3	3 " " 22	4 " " 60
8 " " 5	43 " " 37	2 " " 62
3 " " 15	1 " " 52	

Made with MECCANO Outfit No. 2, or No. 1 and No. 1A

29

## Model No. 122 Extending Ladder on Running Carriage

The bed of the lower carriage framework 1 is formed by bolting two 12½" strips to the sides of a large flanged plate 2, and two sector plates 3 bolted to the flanged plate by their flanges to form the sides, and a bearing for the spindle 4 carrying the operating cord 5 to raise the ladder from a horizontal position. The strips 6 form a support for the ladder when in this horizontal position. Angle brackets 7, Fig. 122A, form pivots for the lower part 8 of the ladder, and are carried from the supports 9. The upper part of the ladder 10, Fig. 122B, is slidably guided and retained on the lower ladder 8 by double brackets 11. The extension of the ladder is effected by the cranked spindle 12, round a pulley 13, on which and another 14, carried as shown in Fig. 122A, the cord 15 is passed, the ends of which are secured to the lower part of the movable ladder 10.

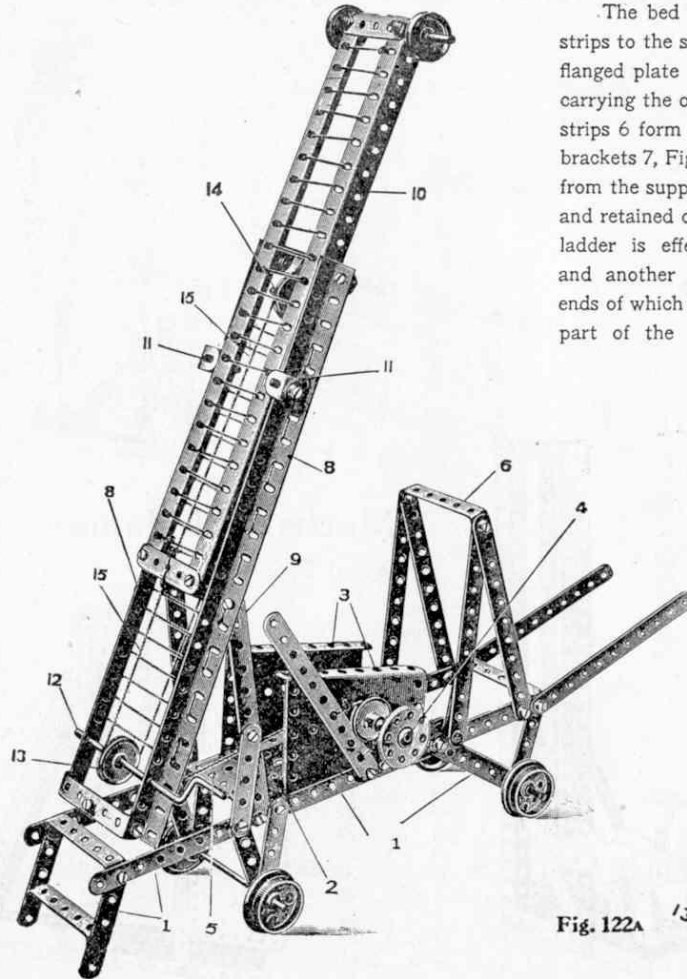


Fig. 122A

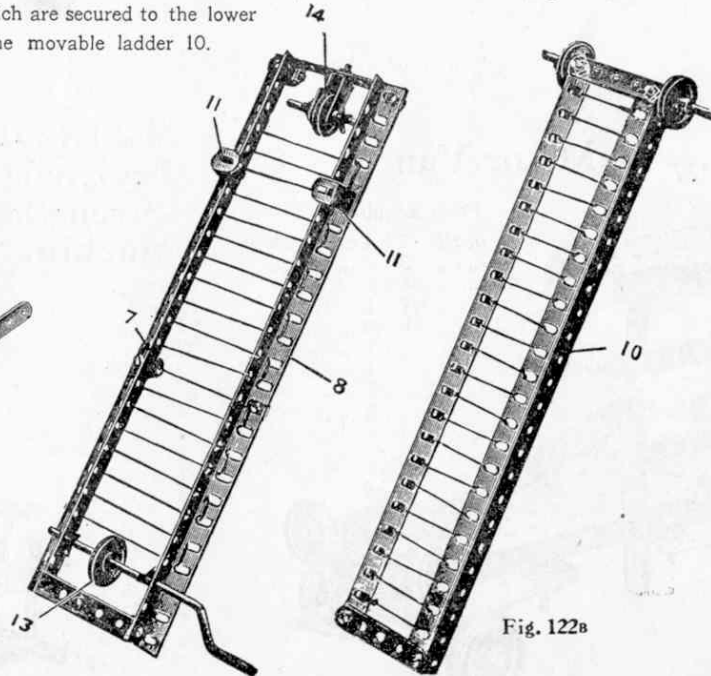


Fig. 122B

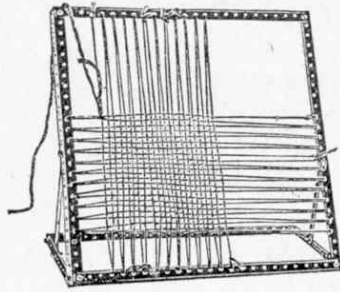
### Parts Required:

2	of	No.	1
9	"	"	2
2	"	"	3
12	"	"	5
4	"	"	8
2	"	"	11
4	"	"	12
3	"	"	15
1	"	"	15A
1	"	"	19
4	"	"	20
4	"	"	22
1	"	"	22A
1	"	"	24
6	"	"	35
47	"	"	37
1	"	"	44
1	"	"	52
2	"	"	54
5	"	"	60



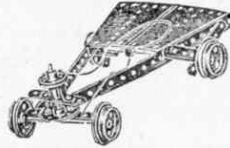
These Models Can be Made with MECCANO Outfit No. 2, or No. 1 and No. 1A

### Model No. 123 Mat Frame



1 of No. 1
4 " " 2
4 " " 8
2 " " 12
14 " " 37

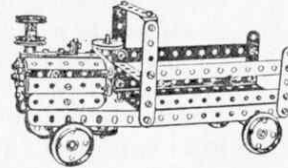
### Model No. 124 Coaster



Parts Required:

2 of No. 2	1 of No. 22
5 " " 5	1 " " 24
1 " " 15	12 " " 37
1 " " 16	1 " " 45
1 " " 17	2 " " 54
4 " " 20	1 " " 60

### Model No. 125 Locomotive

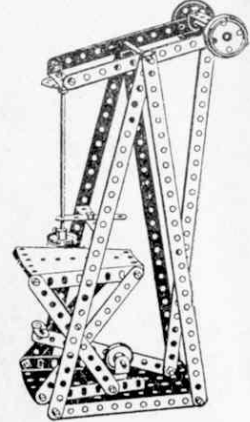


Parts Required:

4 of No. 2	1 of No. 16	46 of No. 37
2 " " 3	1 " " 17	1 " " 45
2 " " 5	4 " " 20	1 " " 52
7 " " 10	4 " " 22	1 " " 54
1 " " 11	1 " " 23	6 " " 60
8 " " 12	1 " " 24	2 " " 62
2 " " 15A	3 " " 35	

### Model No. 126

### Embossing Machine

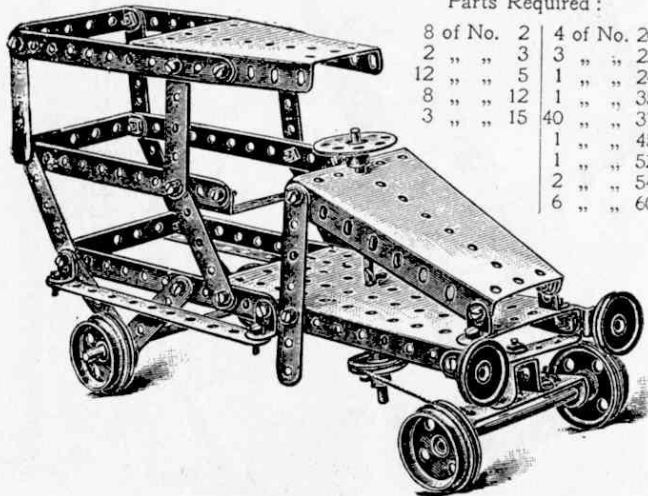


Parts Required:

5 of No. 1
7 " " 2
1 " " 5
1 " " 15
2 " " 15A
1 " " 18
2 " " 20
2 " " 22
1 " " 24
4 " " 35
23 " " 37
1 " " 44
1 " " 52
2 " " 54
3 " " 60

### Model No. 127

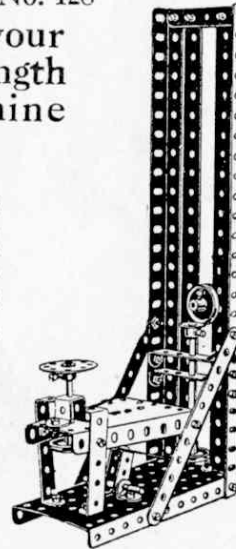
### Motor Van



Parts Required:

8 of No. 2	4 of No. 20
2 " " 3	3 " " 22
12 " " 5	1 " " 24
8 " " 12	1 " " 35
3 " " 15	40 " " 37
	1 " " 45
	1 " " 52
	2 " " 54
	6 " " 60

### Model No. 128 Try-your-Strength Machine

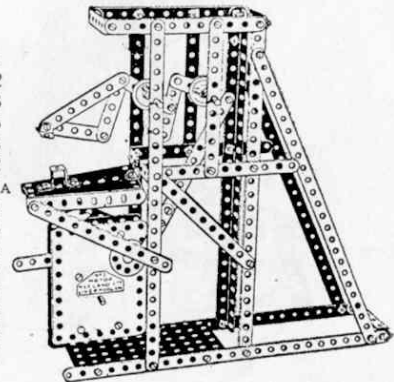


Parts Required:

2 of No. 1
3 " " 2
2 " " 5
2 " " 8
4 " " 12
1 " " 16
2 " " 17
1 " " 18
4 " " 22
1 " " 24
29 " " 37
1 " " 44
1 " " 45
1 " " 52
1 " " 54
4 " " 60
1 " " 62

### Mechanical Hammer

### Model No. 129

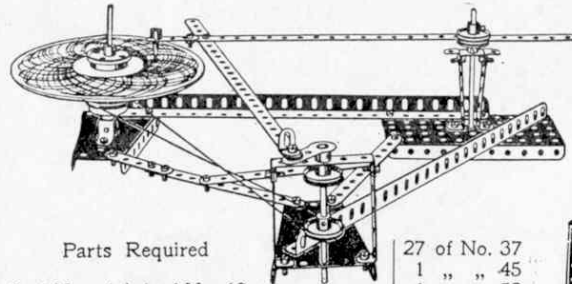


Parts Required:

6 of No. 1
11 " " 2
1 " " 3
7 " " 5
2 " " 8
3 " " 12
2 " " 15A
4 " " 22
1 " " 24
4 " " 35
48 " " 37
1 " " 45
1 " " 52
1 " " 54
2 " " 60

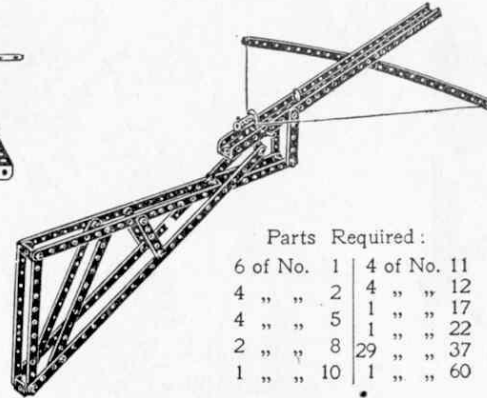
These Models Can be Made with MECCANO Outfit No. 2, or No. 1 and No. 1A

## Model No. 130 Designing Machine



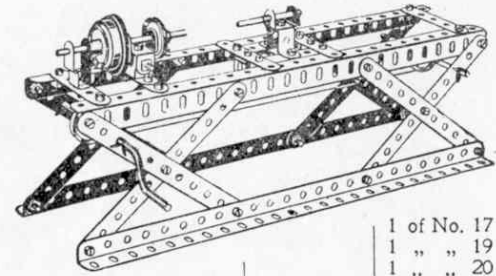
Parts Required			
2 of No. 1	1 of No. 12		27 of No. 37
3 " " 2	2 " " 15A	4 of No. 22	1 " " 45
2 " " 8	1 " " 16	1 " " 24	1 " " 52
1 " " 11	1 " " 20	1 " " 35	2 " " 54
			5 " " 60
			2 " " 62

## Model No. 131 Crossbow



Parts Required:		
6 of No. 1	4 of No. 11	
4 " " 2	4 " " 12	
4 " " 5	1 " " 17	
2 " " 8	29 " " 22	
1 " " 10	1 " " 37	
	1 " " 60	

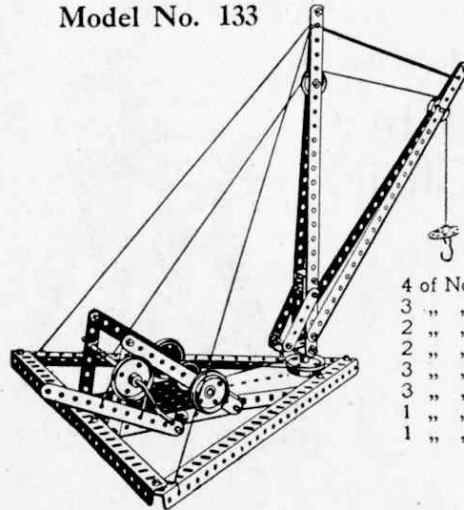
## Model No. 132 Lathe



Parts Required:			
4 of No. 8	1 of No. 17		
3 " " 11	1 " " 19		
4 " " 12	1 " " 20		
8 of No. 2	6 " " 22		
7 " " 5	41 " " 35		
	1 " " 37		
	1 " " 44		
	1 " " 45		

## Model No. 133

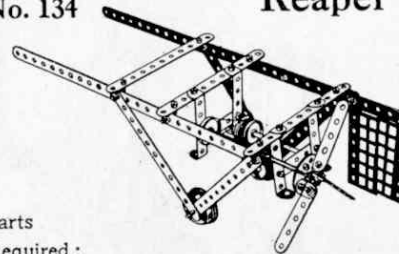
## Dwarf Derrick



Parts Required:		
1 of No. 19		
4 " " 20		
2 " " 22		
2 " " 22A		
1 " " 23		
4 of No. 1	1 of No. 24	
3 " " 2	1 " " 35	
2 " " 3	39 " " 37	
2 " " 5	1 " " 45	
3 " " 8	1 " " 52	
3 " " 11	1 " " 54	
1 " " 15A	1 " " 57	
1 " " 17	1 " " 62	

## Model No. 134

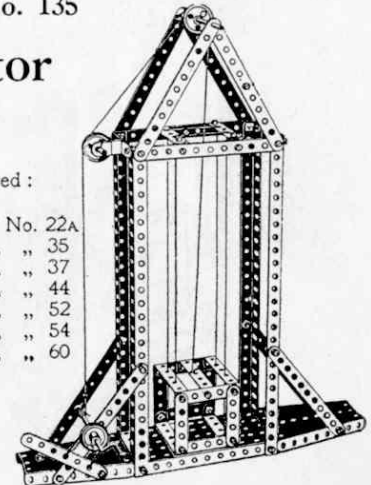
## Potato Reaper



Parts Required:		
2 of No. 1	1 of No. 15A	5 of No. 35
8 " " 2	2 " " 20	31 " " 37
4 " " 5	2 " " 22	4 " " 60
10 " " 12	2 " " 22A	2 " " 61
2 " " 15	1 " " 24	

## Model No. 135

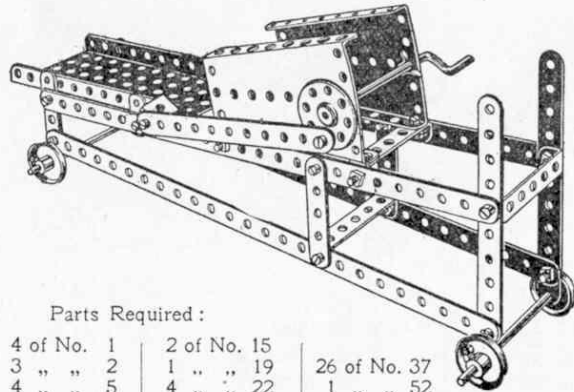
## Elevator



Parts Required:		
1 of No. 1	2 of No. 22A	
10 " " 2	5 " " 35	
1 " " 3	44 " " 37	
10 " " 5	1 " " 44	
4 " " 8	1 " " 52	
4 " " 12	2 " " 54	
1 " " 15A	5 " " 60	
1 " " 17		
1 " " 19		
1 " " 22		

These Models Can be Made with MECCANO Outfit No. 2, or No. 1 and No. 1A

## Model No. 136 Maize Sheller



Parts Required :

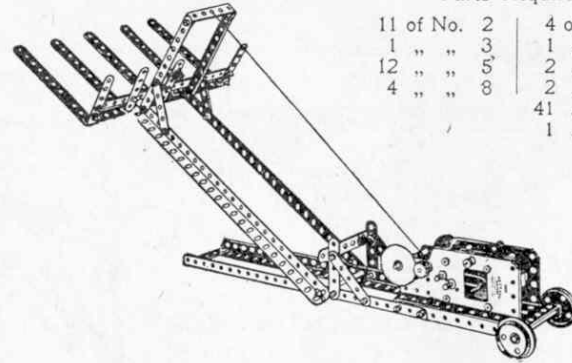
4 of No. 1	2 of No. 15	
3 " " 2	1 " " 19	26 of No. 37
4 " " 5	4 " " 22	1 " " 52
2 " " 10	1 " " 24	2 " " 54
1 " " 11	2 " " 35	4 " " 60

## Model No. 137

## Hay Stacker

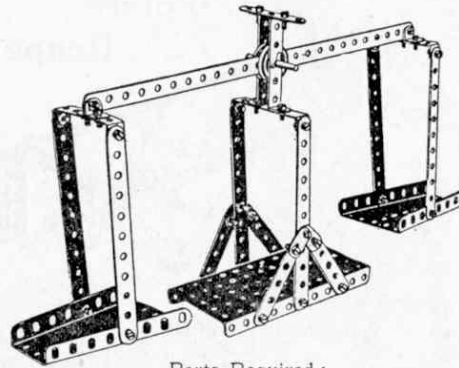
Parts Required :

11 of No. 2	4 of No. 12
1 " " 3	1 " " 16
12 " " 5	2 " " 20
4 " " 8	2 " " 35
	41 " " 37
	1 " " 52



## Model No. 139

## Beam Scales



Parts Required :

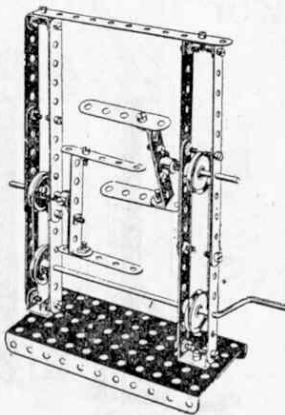
1 of No. 1	4 of No. 12	32 of No. 37
6 " " 2	1 " " 17	1 " " 52
5 " " 5	2 " " 22A	2 " " 54
4 " " 10	2 " " 35	5 " " 60

## Model No. 138

## Candy Puller

Parts  
Required :

9 of No. 2
4 " " 5
4 " " 11
2 " " 17
1 " " 19
4 " " 22
2 " " 35
26 " " 37
1 " " 52
2 " " 60
2 " " 62

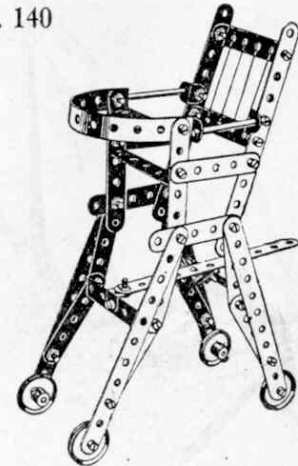


## Model No. 140

## Baby Chair

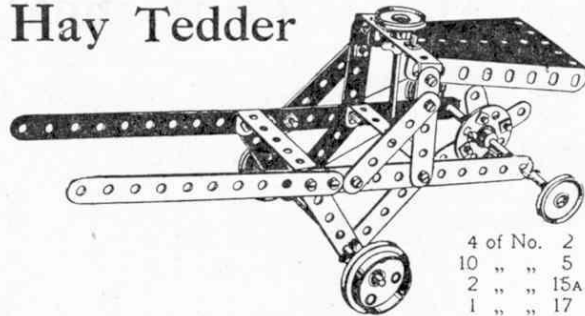
Parts  
Required :

8 of No. 2
2 " " 3
10 " " 5
6 " " 12
2 " " 17
4 " " 22
32 " " 37
6 " " 60



These Models Can be Made with MECCANO Outfit No. 2, or No. 1 and No. 1A

## Hay Tedder



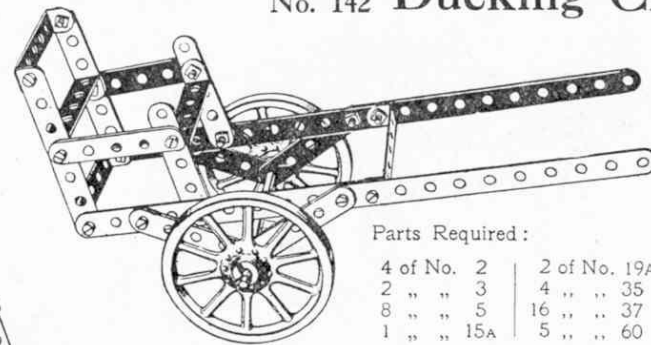
4 of No. 2  
10 " " 5  
2 " " 15A  
1 " " 17

### Model No. 141

Parts  
Required :

2 of No. 20  
3 " " 22  
1 " " 24  
5 " " 35  
18 " " 37  
1 " " 54  
3 " " 60

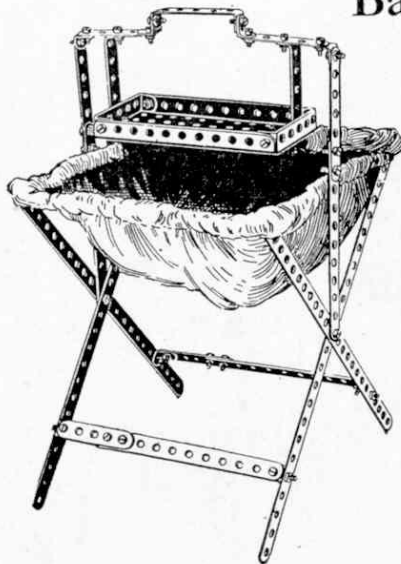
## Model No. 142 Ducking Chair



Parts Required :

4 of No. 2	2 of No. 19A
2 " " 3	4 " " 35
8 " " 5	16 " " 37
1 " " 15A	5 " " 60

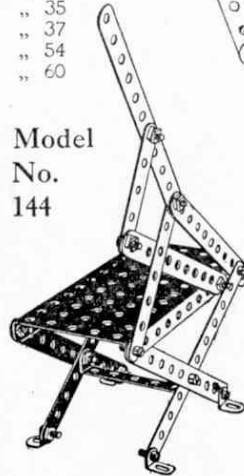
## Model No. 143 Needlework Basket



Parts  
Required :

4 of No. 1  
6 " " 2  
2 " " 3  
6 " " 5  
12 " " 12  
46 " " 37  
1 " " 52  
3 " " 60

### Model No. 144



## Cutting Machine

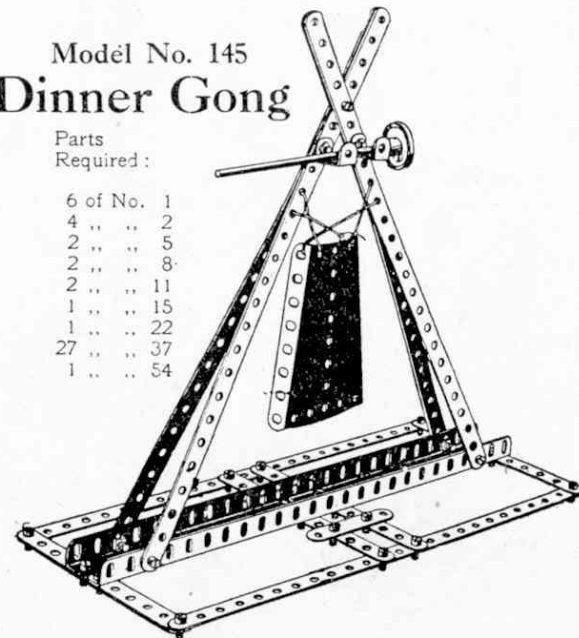
Parts  
Required :

8 of No. 2  
1 " " 3  
1 " " 5  
4 " " 12  
20 " " 37  
1 " " 52

## Model No. 145 Dinner Gong

Parts  
Required :

6 of No. 1  
4 " " 2  
2 " " 5  
2 " " 8  
2 " " 11  
1 " " 15  
1 " " 22  
27 " " 37  
1 " " 54



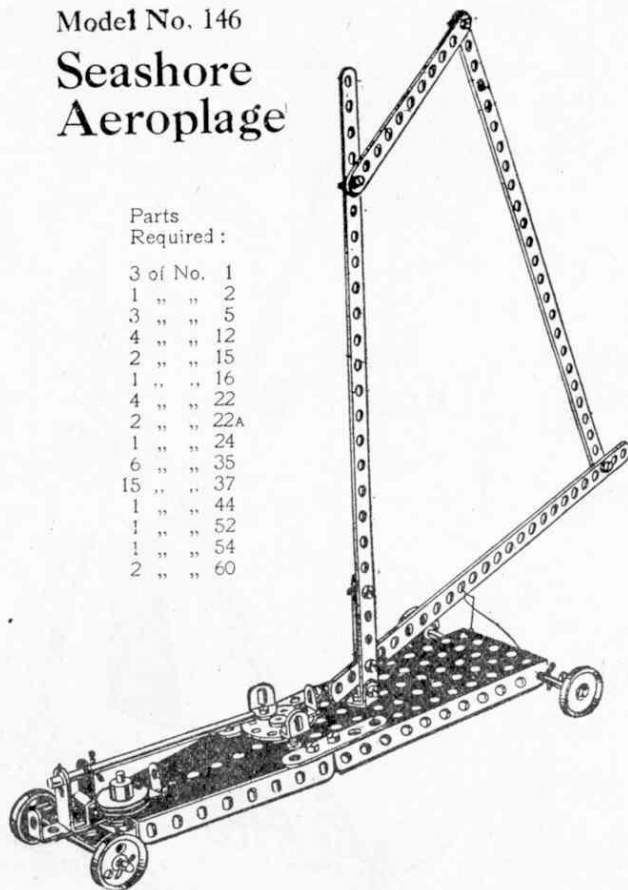


These Models Can be Made with MECCANO Outfit No. 2, or No. 1 and No. 1A

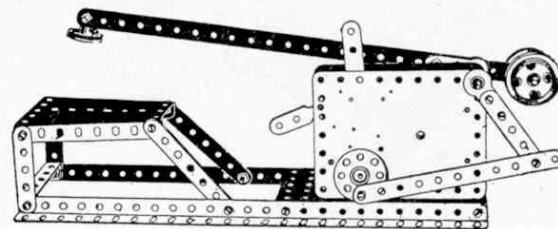
## Model No. 146 Seashore Aeroplane

Parts  
Required :

3 of No.	1
1 " "	2
3 " "	5
4 " "	12
2 " "	15
1 " "	16
4 " "	22
2 " "	22A
1 " "	24
6 " "	35
15 " "	37
1 " "	44
1 " "	52
1 " "	54
2 " "	60



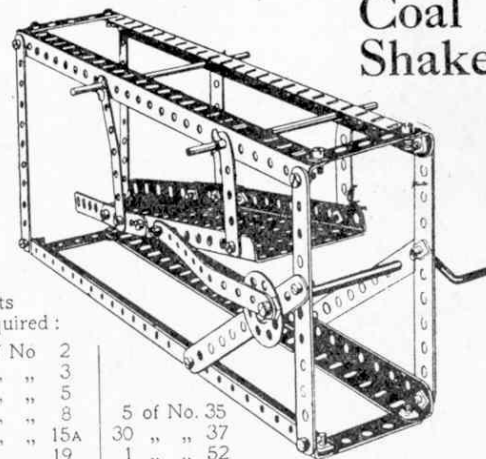
## Model No. 147 Mechanical Hammer



1 of No.	1	4 of No.	12	26 of No.	37
1 " "	2	1 " "	17	1 " "	52
2 " "	3	2 " "	20	1 " "	54
2 " "	5	1 " "	22	1 " "	60
2 " "	8	1 " "	24	2 " "	62

Model No. 148

## Coal Shaker



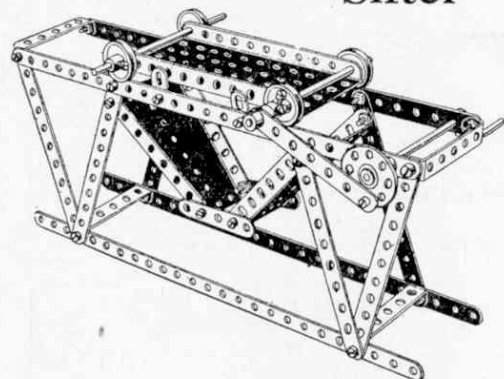
Parts  
Required :

7 of No.	2	5 of No.	35
2 " "	3	30 " "	37
8 " "	5	1 " "	52
4 " "	8	1 " "	54
2 " "	15A		
1 " "	19		
1 " "	24		

These Models Can be Made with MECCANO Outfit No. 2, or No. 1 and No. 1A

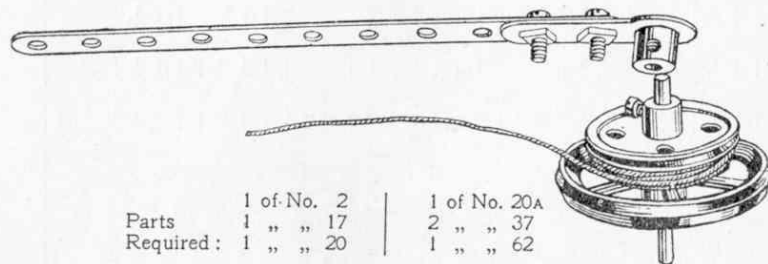
35

Model No. 149 Sifter



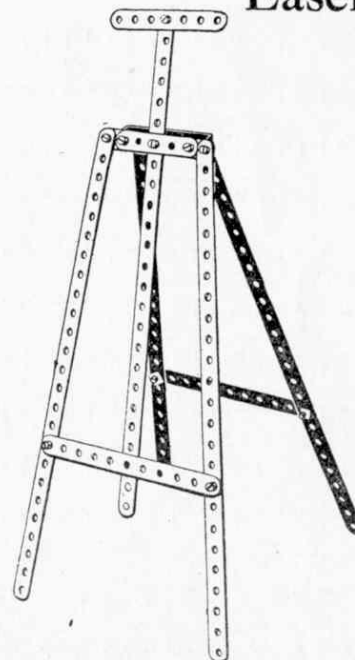
Parts Required :	
4 of No.	1
6 " "	2
1 " "	3
2 " "	5
4 " "	10
2 " "	15A
1 " "	19
4 " "	22
1 " "	24
4 " "	35
26 " "	37
1 " "	52
2 " "	54
4 " "	60

Model No. 150 Spinning Top



Parts	1 of No. 2	1 of No. 20A
Required :	1 " " 17	2 " " 37
	1 " " 20	1 " " 62

Model No. 151 Easel



Parts Required :

5 of No.	1
2 " "	2
2 " "	3
1 " "	5
2 " "	12
14 " "	37
1 " "	60

## HOW TO CONTINUE

This completes the Models which may be made with MECCANO Outfit No. 2. The next Models are a little more advanced, requiring a number of extra parts to construct them. The necessary parts are all contained in a No. 2A Accessory Outfit, the cost of which will be found in the Price List at the end of the Manual.

## Contents of Outfits

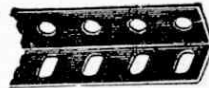
No.	Description of Parts	0	0A	1	1A	2	2A	3	3A	4	4A	5	5A	6
1	Perforated Strips, 12½"	2	2	4	6	10	—	10	4	14	—	14	34	48
2	" " 5½"	4	2	6	10	16	2	18	4	22	4	26	34	60
3	" " 3½"	—	1	1	1	2	4	6	—	6	11	17	19	36
4	" " 3"	—	—	—	—	—	2	2	2	4	4	8	16	24
5	" " 2½"	9	—	9	3	12	—	12	8	20	24	44	48	48
6	" " 2"	—	—	—	—	—	4	8	—	—	6	6	18	24
8	Perforated Angle Girders, 12½"	—	—	—	4	4	—	—	—	8	4	12	12	24
9	" " 5½"	—	—	—	—	—	—	—	—	—	—	12	12	24
10	" " "	4	—	4	—	4	—	—	4	8	—	8	8	16
11	Flat Brackets	—	1	1	3	4	—	4	4	4	—	4	12	16
12	Double Brackets	8	4	12	—	12	12	24	12	36	17	53	67	120
13	Angle Brackets	—	—	—	—	—	—	—	2	2	—	2	2	4
13A	Rods, 11½"	—	—	—	—	—	—	—	—	—	—	—	—	—
14	" 8"	—	—	—	—	—	—	—	—	—	—	—	—	—
15	" 6"	—	—	—	—	—	—	—	—	—	—	—	—	—
15A	" 5"	—	—	—	3	3	1	4	—	4	—	4	—	4
16	" 4½"	2	1	3	—	3	1	3	—	4	—	4	1	4
17	" 3½"	—	—	—	1	2	1	2	2	4	—	4	3	4
18	" 2"	2	—	2	—	2	1	2	2	4	—	4	3	7
19	" 1"	1	1	1	—	1	1	2	1	3	—	3	1	4
20	Crank Handles	—	—	—	4	4	—	4	4	8	—	8	—	8
21	Flanged and Grooved Wheels	—	—	—	—	—	—	—	—	—	—	—	—	—
22	Pulley Wheels, 1½"	—	—	—	—	—	1	1	—	1	1	2	—	2
22A	" " 1" (fast)	4	—	4	—	4	—	4	—	4	—	4	1	5
23	" " 1" (loose)	—	2	2	—	2	—	2	—	2	—	2	1	3
24	Bush Wheels	1	1	1	—	1	—	1	—	1	5	6	—	6
25	Pinion Wheels, ½"	1	—	1	—	1	—	1	1	2	—	2	3	5
26	" " ½"	—	—	—	—	—	—	—	—	—	—	—	2	2
27	" " "	—	—	—	—	—	2	2	—	2	1	3	2	5
27A	Gear Wheels	—	—	—	—	—	1	1	—	1	1	2	—	2
28	Contrate Wheels, 1½"	—	—	—	—	—	—	—	1	1	—	1	1	2
29	" " 1"	—	—	—	—	—	—	—	2	2	—	2	1	2
32	" " "	—	—	—	—	—	1	1	—	1	—	1	1	2
33	Worm Wheels	—	—	—	—	—	2	2	—	2	—	2	—	2
34	Pawl	—	1	1	—	1	—	1	1	2	—	2	—	2
35	Spanner	—	1	1	—	1	—	1	1	2	—	2	—	2
36	Spring Clips	4	2	6	—	6	6	12	6	18	—	18	6	24
37	Screwdriver	1	—	1	—	1	—	1	—	1	—	1	—	1
38	Nuts and Bolts	25	5	30	25	55	25	80	50	130	45	175	290	465
40	Hanks Cord	1	—	1	1	2	1	3	1	4	2	6	—	6
41	Propeller Blades	—	—	—	—	—	—	—	—	—	—	—	—	—
43	Springs	—	—	—	—	—	—	—	—	—	—	—	—	—
44	Cranked Bent Strip	1	—	1	—	1	—	1	—	1	1	1	1	2
45	Double Bent Strip	—	—	—	1	1	—	1	1	2	—	2	2	4
46	Large Bent Strip	—	—	—	—	—	—	—	—	—	—	—	—	—
50	Eye Pieces	—	—	—	—	—	—	—	—	—	—	—	—	—
52	Perforated Flanged Plates, 5½"x2½"	1	—	1	—	1	1	2	—	2	2	2	4	8
53	" " 3½"x2½"	—	—	—	—	—	—	—	—	—	—	—	—	—
54	" " Sector Plates	1	1	2	—	2	3	3	1	4	1	5	3	8
56	Manual of Instructions	1	1	1	—	1	—	1	1	1	—	1	1	2
57	Hook	1	—	1	—	1	—	1	—	1	—	1	1	2
58	Spring Cord	—	—	—	—	—	—	—	—	—	—	—	—	—
59	Collars and Set Screws	—	—	—	—	—	—	—	—	—	—	—	—	—
60	Bent Strips, 2½"	2	2	4	2	6	—	4	4	8	—	8	10	18
61	Windmill Sails	—	—	—	4	4	—	6	2	8	1	9	7	16
62	Crank	—	—	—	2	2	—	4	—	—	—	4	4	4
63	Couplings	—	—	—	—	—	—	—	—	—	—	—	—	—
65	Centre Fork	—	—	—	—	—	1	1	5	6	—	2	1	3
94	Sprocket Chain (length)	—	—	—	—	—	—	—	—	—	1	1	1	1

# MECCANO PRICE LIST

No. 0 Meccano Outfit .... \$1.50	No. 3X Meccano Outfit ... \$11.50	0A Accessory ..... \$1.50	Inventor's A ..... \$3.00
1 " " .... 3.00	4 " " ... 15.00	1A " ..... 3.00	" B ..... 7.00
1X " " .... 5.50	5 " " ... 20.00	2A " ..... 3.00	Meccano Motors, E1 ... 3.00
2 " " .... 6.00	5X " " ... 26.00	3A " ..... 6.00	" " E2 .... 4.50
2X " " .... 8.50	6 " " ... 40.00	4A " ..... 5.00	Spring Motors, S1 ..... 3.00
3 " " .... 9.00		5A " ..... 20.00	Transformer ..... 3.25
			(110 a. c. 60 cycles)



Part No.		Cents
1.	Perf. Strip, 12½" long (½ doz.)	45
2.	" " 5½" "	25
3.	" " 3½" "	20
4.	" " 3 " "	20
5.	" " 2½" "	15
6.	" " 2 " "	15
6A.	" " 1½" "	15



7.	Angle Girders, 24½" long, each	25
7A.	" " 18½" " "	20
8.	" " 12½" " ½ doz.	60
9.	" " 5½" " "	45



10.	Flat Brackets ..... ½ doz.	05
-----	----------------------------	----



11.	Double Brackets ..... each	03
-----	----------------------------	----



12.	Angle Brackets ..... doz.	12
-----	---------------------------	----



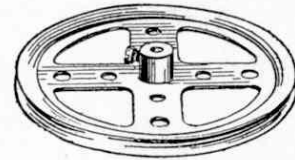
12A.	Angle Brackets, 1" ..... each	05
------	-------------------------------	----



13.	Axle Rod, 11½" long ..... each	10
13A.	" " 8" " ..... "	10
14.	" " 6" " ..... "	5
15.	" " 5" " ..... "	5
15A.	" " 4½" " ..... "	5
16.	" " 3½" " ..... "	5
17.	" " 2" " ..... "	2
18A.	" " 1" " ..... "	2



19.	Crank Handles ..... each	10
-----	--------------------------	----



19A.	Pulley Wheel, 3" diam. with centre boss and set screw, each	25
------	--	----

19B.	Wagon Wheels, 3" diam. .... "	20
------	-------------------------------	----



20.	Flanged Wheel ..... each	25
-----	--------------------------	----





- 20A. Pulley Wheel, 2" diam. with set screw ..... each 20  
 21. Pulley Wheel, 1 1/2" diam. with set screw ..... " 20  
 22. Pulley Wheel, 1" diam. with set screw ..... " 10  
 22A. Pulley Wheel, 1" diam. without set screw ..... " 05  
 23. Pulley Wheel, 1/2" diam. without set screw ..... " 05  
 23A. Pulley Wheel, 1/2" diam. with set screw ..... " 10



24. Bush Wheel ..... each 15



25. Pinion Wheel, 3/4" diam. .. each 25  
 26. " " 1/2" " " 15



27. Gear Wheel, 50 teeth (to gear with 3/4" pinion) ..... each 30  
 27A. Gear Wheel, 56 teeth (to gear with 1/2" pinion) ..... " 35



28. Contrate Wheel, 1 1/2" diam., each 50  
 29. " " 3/4" " " 30



32. Worm Wheel ..... " 25



33. Pawl ..... " 05



34. Spanner ..... " 10



35. Spring Clip, per box ..... doz. 15



36. Screw Driver ..... each 10



37. Nuts and Bolts, per box .... doz. 15  
 37A. Nuts, per box ..... " 05  
 38. Washers ..... " 05  
 40. Hank of Cord ..... each 05



41. Propeller Blades ..... per pair 15



43. Spring ..... each 05




44. Cranked Bent Strip ..... " 05



45. Double Bent Strip ..... " 05



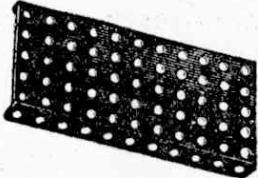
46. Large Bent Strip ..... " 05



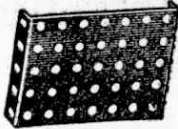
47A. Dynamometer (tension) .... each 1.50



50. Eye Piece ..... " 05




52. Perf. Flanged Plate,  $5\frac{1}{2}" \times 2\frac{1}{2}"$  " 25




53. Perf. Flanged Plate,  $3\frac{1}{2}" \times 2\frac{1}{2}"$  " 20



54. Perforated Sector Plate ..... " 20  
56. Manual of Instructions ..... " 35  
56A. Instruction Manual, No. 2 ... " 35



57. Hook ..... " 02  
57A. Hook (Scientific) ..... " 02



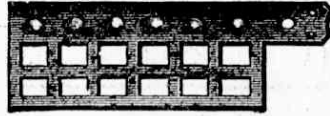
58. Spring Cord, per length .. each 30



59. Collar and Set Screw ..... " 05



60. Bent Strip,  $2\frac{1}{2}"$  long ....  $\frac{1}{2}$  doz. 20  
60A. Double Angle Strip,  $1\frac{1}{2}"$  long " 18  
60B. Bent Strip,  $3\frac{1}{2}"$  long .... " 25  
60C. " "  $5\frac{1}{2}"$  " .... " 36



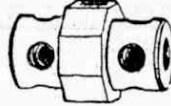
61. Windmill Sail ..... each 10



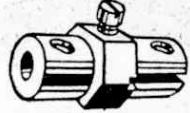
62. Crank ..... " 15  
62A. Threaded Crank ..... " 15




63. Coupling ..... " 15



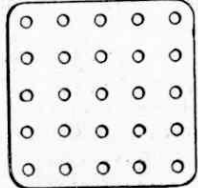
63A. Octagonal Coupling ..... each 20



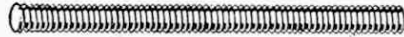
63B. Strip Coupling ..... " 20



64. Threaded Boss ..... " 06  
65. Centre Fork ..... " 10  
66. Weight, 50 grms. .... " 20  
67. " 25 " ..... " 15  
68. Wood Screws,  $\frac{1}{2}"$  ..... doz. 10  
69. Set Screws ..... " 10  
69A. Grub Screws ..... " 10



70. Flat Plates,  $5\frac{1}{2}" \times 2\frac{1}{2}"$  ..... each 15  
72. " "  $2\frac{1}{2}" \times 2\frac{1}{2}"$  ..... " 10



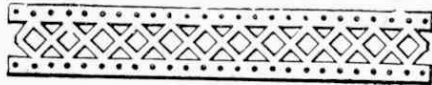
80. Screwed Rods, 5" ..... each 15  
 81. " " 2" ..... " 10  
 82. " " 1" ..... " 05



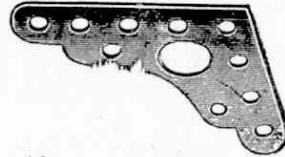
90. Curved Strip, 2½" ..... ½ doz. 25  
 94. Sprocket Chain ..... per yard 25



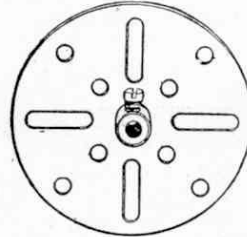
95. " Wheel, 2" ..... each 25  
 96. " " 1" ..... " 20



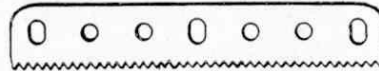
97. Braced Girder, 3½" long .. ½ doz. 20  
 98. " " 2½" " .. " 15  
 99. " " 12½" " .. " 75  
 100. " " 5½" " .. " 50  
 101. Healds for Looms ..... doz. 45  
 102. Single Bent Strip for Looms, each 05  
 103. Perforated Flat Girder Strip,  
     5½" long ..... " 10  
 104. Shuttle ..... each 50  
 105. Reed Hook ..... " 05  
 106. Roller ..... " 15  
 107. Tables for Designing Machines " 25



108. Architraves ..... each 09



109. Face Plate ..... " 20



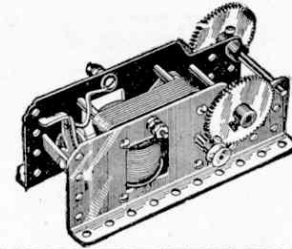
110. Rack Strip, 3½" ..... " 10



111. Bolt, ¾" ..... " 02



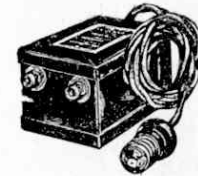
112. Double Angle Strip, 2½"x1½" " 06  
 Brushes and Springs for Electric  
 Motor ..... per pair 40



### MECCANO ELECTRIC MOTORS

The best way to operate Meccano models. Side plates are perforated with equidistant holes so that motor can be built into model.

- E1 Non-reversing ..... \$3.00  
 E2 With reverse lever and extra gears 4.50



### TRANSFORMER

For alternating current only. Specially designed for Meccano motor.

Transformer for 110 a. c. 60 cycles ... \$3.25

### SPRING MOTOR

No. 1 ..... \$3.00

Ask your dealer for outfits and parts. If he cannot supply you, send money order or stamps direct to Meccano Company, Inc., 46 West 24th St., New York City, and we will ship postage prepaid, providing order is not less than \$1.00.





# MECCANO IS MORE THAN A TOY

---

**I**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 the corresponding engineering elements would do in actual practice. No other system of model construction could, therefore, be correct. Other toys which attempt the same object by other methods must avail themselves of other 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, and his mind as regards proper mechanical construction and methods, is distorted instead of instructed. He thus learns wrong principles, and when his ambition tempts him to invent or construct more elaborate models he will be stopped by the deficiencies of his non-mechanical system.

**No Outfit is genuine unless it bears the  
trade mark MECCANO**