

MECCANO

TRADE MARKS 206321, 501113, 76, 12633, 10274, 55/13476, 569/13, 884/25, 2913, 80, 124, 336, 4174, 91637, 83171, 157149, 32822, 200639, 209733, 214061, 214062, 12892, 29094, 33316, 1818, 16737, 383/13, 5848, 50204, 10/12258, 22826, 18982, 20063/925, 9048, 5549, 2189, 16900, 72286, 2389, 41812, 5403, 7315, 18066, 139420, 494933-4 5-6, 29041, 26877, 6595, 404718, 410379, 55096, 12240, 41234, 8223, 1855

HORNBY'S ORIGINAL SYSTEM—FIRST PATENTED 1901

INSTRUCTIONS

FOR OUTFITS

00 to 1

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No. 33.1

English Export

MECCANO

The Finest Hobby in the World for Boys

The Meccano system is composed of over two hundred and fifty different parts, mostly made of steel or brass, each one of which has a definite mechanical purpose. These parts combine to form a complete miniature engineering system with which practically any mechanical movement may be reproduced in model form. More can be accomplished with Meccano than with any other constructional toy, for no other system has such possibilities. The genius is in the parts and you can commence to build models as soon as you get your Outfit home. A screwdriver, provided in the Outfit, is the only tool necessary.

There is no limit to the number of models that can be built with Meccano—Cranes, Clocks, Motor Cars, Ship-Coalers, Machine Tools, Locomotives—in fact everything that interests boys. The most wonderful feature about the system is that it is *real engineering* in miniature; it is fascinating and delightful and it gives you a satisfaction beyond anything that you have ever previously experienced.

The "Meccano Magazine"

The *Meccano Magazine* is the Meccano boy's own newspaper. It tells him of the latest Meccano models; what Meccano Clubs are doing; how to correspond with other Meccano boys; the Competitions that are running, etc. It contains splendid articles on such subjects as Railways, Famous Engineers and Inventors, Electricity, Bridges, Cranes, Wonderful Machinery, Aeronautics, Latest Patents, Radio, Stamps, Photography, Books and other topics of interest to boys, including suggestions from Meccano boys for new Meccano parts and correspondence columns in which the Editor replies to his readers' enquiries. The publishing date is the first of each month. If you are not already a reader of the *Meccano Magazine* write to the Editor for full particulars, or order a copy from your Meccano dealer or from any newsagent.

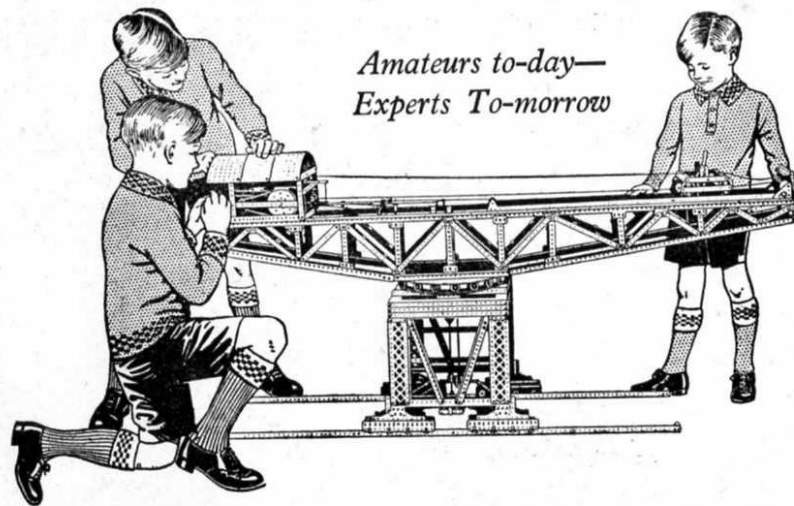
Model-Building with Meccano

Make the simple models first—they will provide hours of fun—and then try to improve them. Every model can be made in a dozen different ways. It is important to screw up all the nuts and bolts tightly to ensure that your models will be strong and firm when they are completed.

Every keen and inventive Meccano model-builder should obtain copies of the special Manuals "How to use Meccano Parts" and "Meccano Standard Mechanisms." In the former the principal uses of Meccano parts are outlined, while the latter shows a large number of real engineering mechanisms, built of Meccano parts, that can be incorporated in various models. You can obtain copies of these Manuals from your dealer, or direct from Meccano Ltd., Binns Road, Liverpool, 13, England.

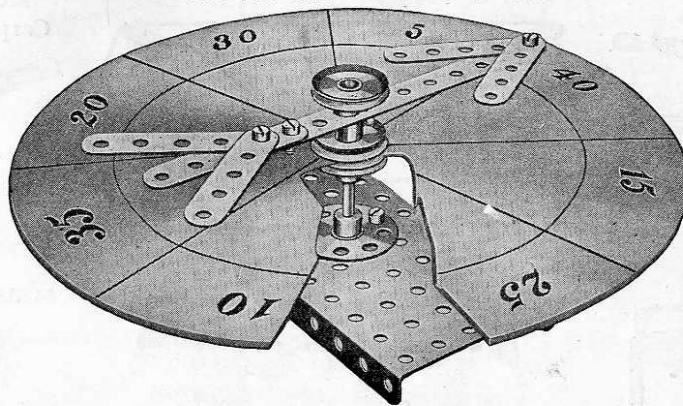
How to Build up Your Outfit

Meccano is sold in ten different Outfits, numbered 000 to 7. All Meccano parts are of the same high quality and finish, but the larger Outfits contain a greater quantity and variety of parts, making possible the construction of more elaborate models. Each Outfit from No. 00 upwards may be converted into the one next higher by the purchase of an Accessory Outfit. Thus, a No. 00 may be converted into a No. 0 by adding to it a No. 00A. A No. 0A would then convert it into a No. 1, and so on. In this way, no matter with which Outfit you commence, you may build it up by degrees until you possess a No. 7 Outfit. It is important to remember that Meccano Parts may be bought separately at any time in any quantity from your Meccano dealer.



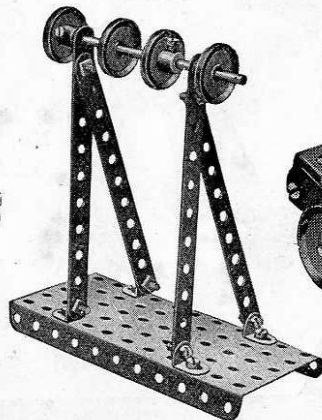
All these Models can be built with MECCANO Outfit No. 00

Model No. 00.6 Roulette Wheel

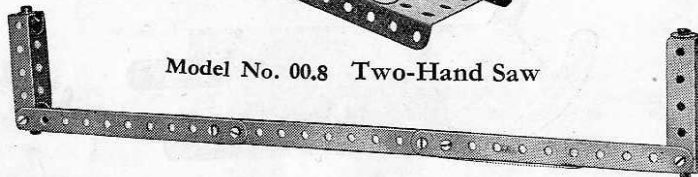


Cut out a circular piece of cardboard and mark as shown to form scoring board. This is clamped between two 1" Pulley Wheels. The pointer revolves freely on the upright spindle and is held in position by another 1" Pulley Wheel.

Model No. 00.7 Pulley Shafting



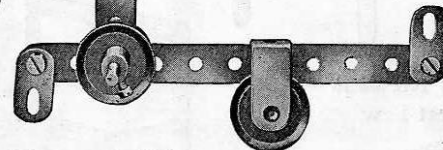
Model No. 00.8 Two-Hand Saw



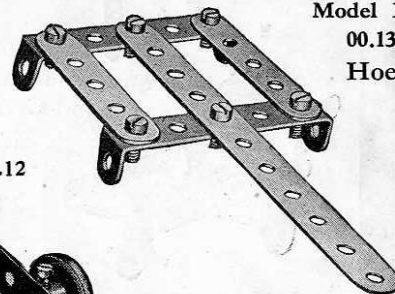
Model No. 00.9 Coat Hanger



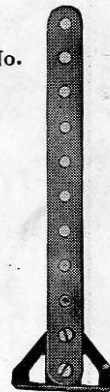
Model No. 00.10 Roman Balance



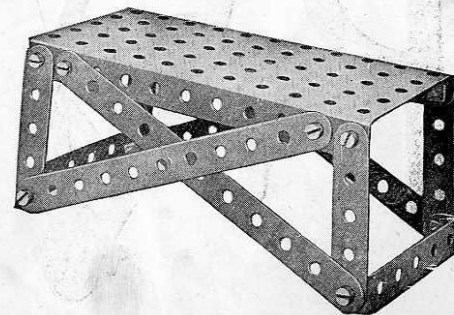
Model No. 00.11 Grill



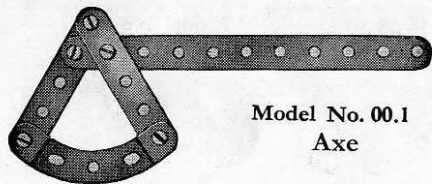
Model No. 00.13 Hoe



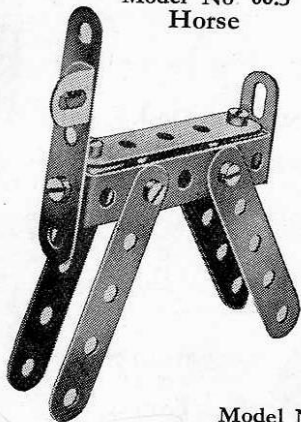
Model No. 00.14 Planing Bench



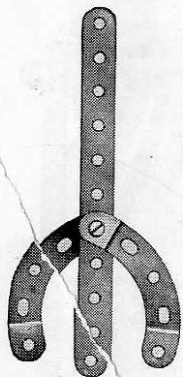
Model No. 00.1 Axe



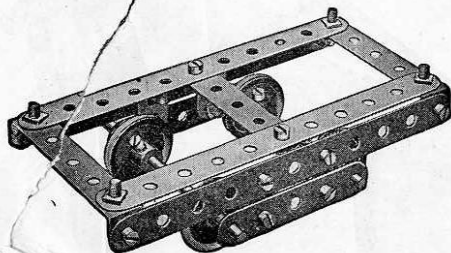
Model No. 00.3 Horse



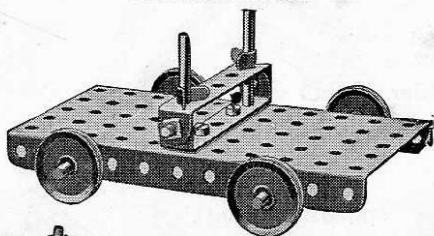
Model No. 00.2 Fork



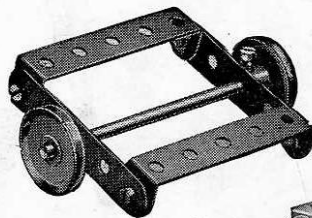
Model No. 00.4 Bogie Truck



Model No. 00.5 Lumber Truck



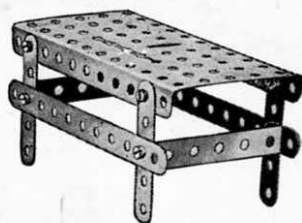
Model No. 00.12 Trolley



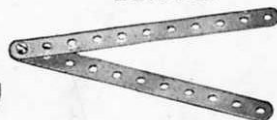
2

All these Models can be built with MECCANO Outfit No. 00
Model No. 00.22 Clothes Hanger

Model No. 00.15
Table



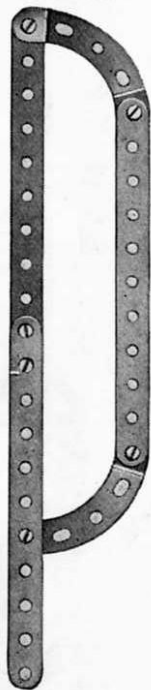
Model No. 00.17
Dividers



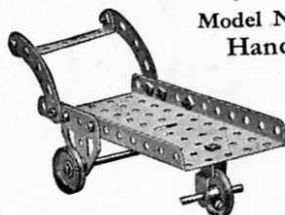
Model No. 00.18
Bench



Model No. 00.16
Meat Saw



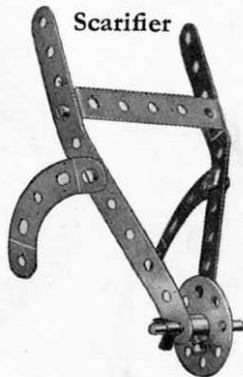
Model No. 00.19
Hand Cart



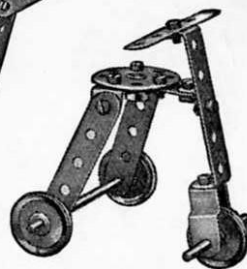
Model
No. 00 21
Fire-Axe



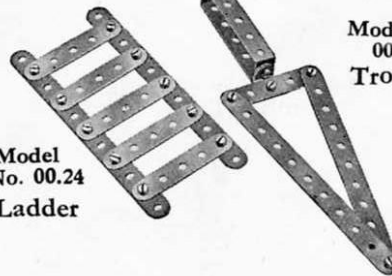
Model No. 00.20
Scarifier



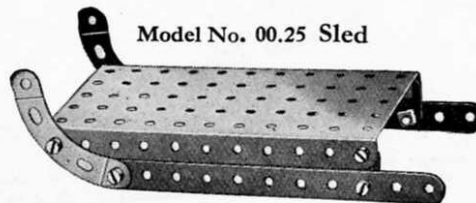
Model No. 00.23
Velocipede



Model
No. 00.24
Ladder



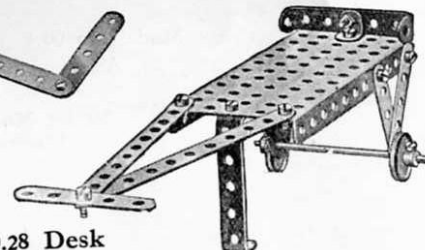
Model No. 00.25 Sled



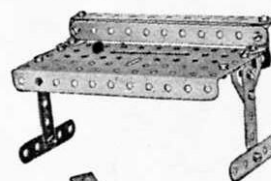
Model No. 00.26
Carpenter's Square



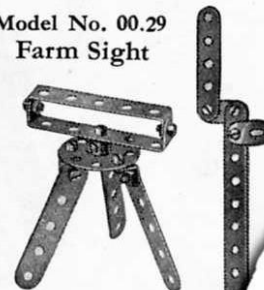
Model No. 00.27
Shipyard Bogie



Model No. 00.28 Desk



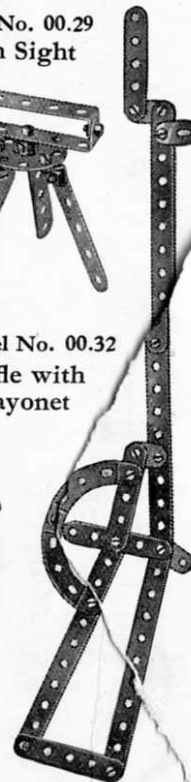
Model No. 00.29
Farm Sight



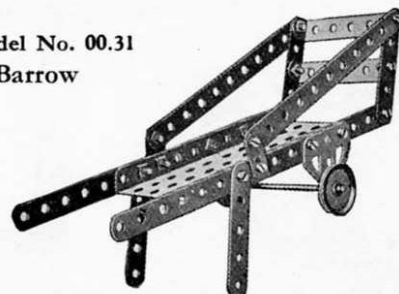
Model No.
00.30
Trowel



Model No. 00.32
Rifle with
Bayonet

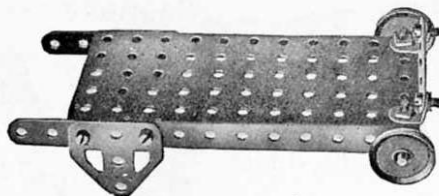


Model No. 00.31
Barrow



All these Models can be built with MECCANO Outfit No. 00

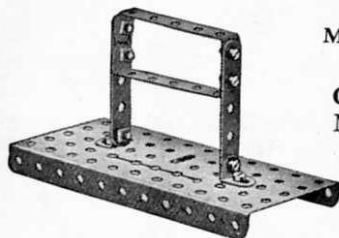
Model No. 00.33 Flat Truck



Model No.
00.34
Spade



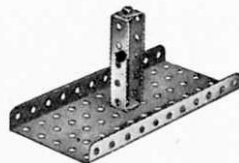
Model No.
00.35
Cement
Marker



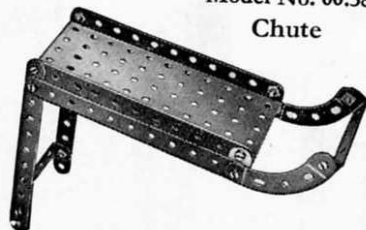
Model No. 00.36 Motor Boat



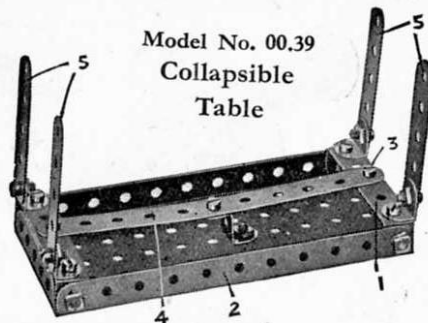
Model No.
00.37
Plasterer's
Hawk



Model No. 00.38
Chute



Model No. 00.39
Collapsible
Table



The $2\frac{1}{2}'' \times \frac{1}{2}''$ Double Angle Strips 1 are attached to the $5\frac{1}{2}'' \times 2\frac{1}{2}''$ Flanged Plate 2 by lock-nutted Bolts as in Standard Mechanism No. 263. The Bolts 3 are secured to the $5\frac{1}{2}''$ Strip 4 and their shanks engage with the centre holes in the $2\frac{1}{2}'' \times \frac{1}{2}''$ Double Angle Strips 1, thus maintaining the legs 5 in an upright position. When it is desired to fold up the legs 5, it is only necessary to raise the ends of the Strip 4, thus reeling the Double Angle Strips 1. The table is shown in the folded position in Fig. 00.39A.

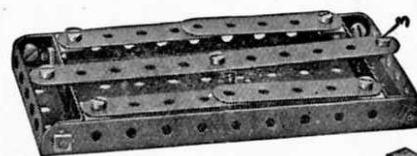
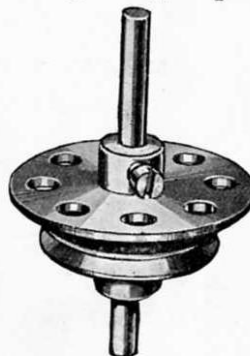
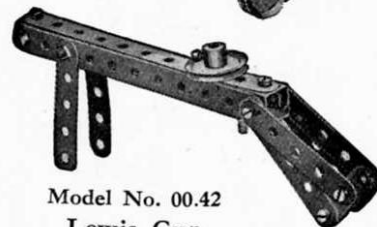


FIG. 00.39A

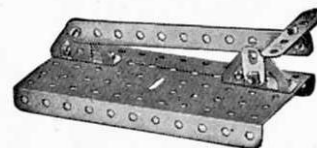
Model No. 00.40
Spinning Top



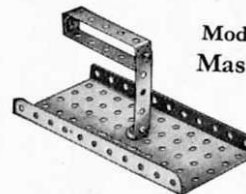
Model No. 00.42
Lewis Gun



Model No. 00.43 Switch



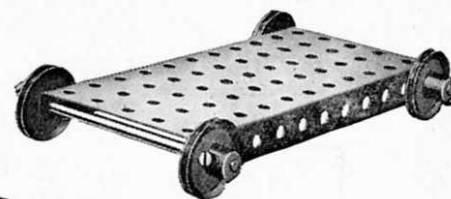
Model No. 00.44
Mason's Trowel



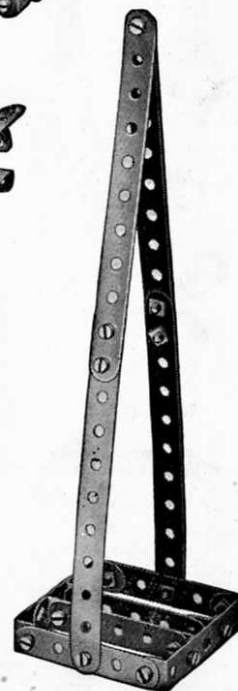
Model No. 00.45
Baggage Cart



Model No. 00.41 Trolley



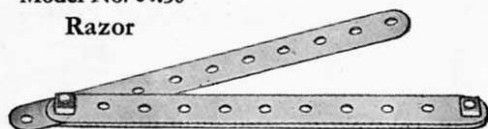
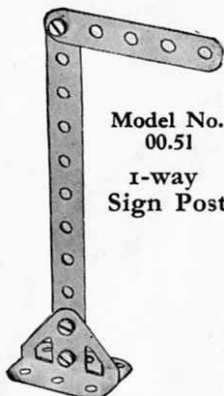
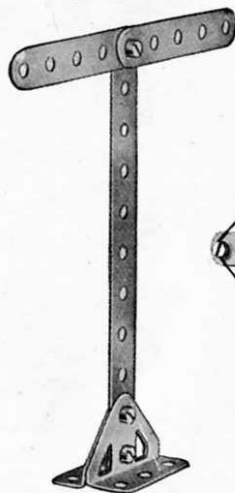
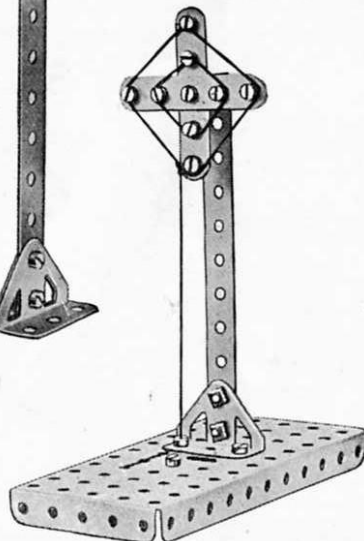
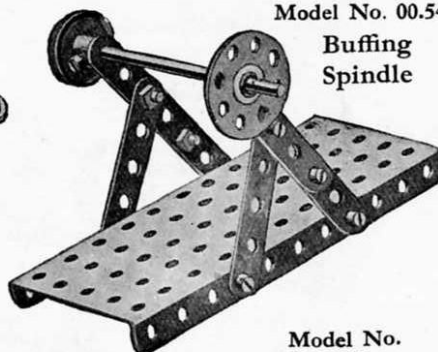
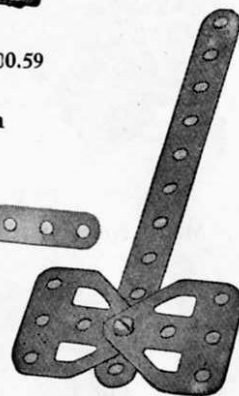
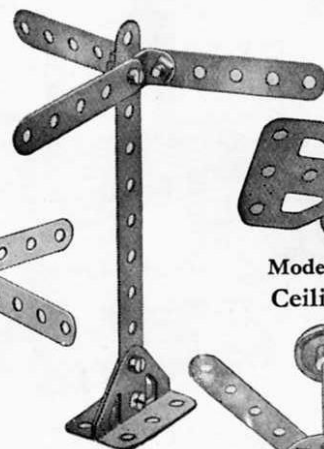
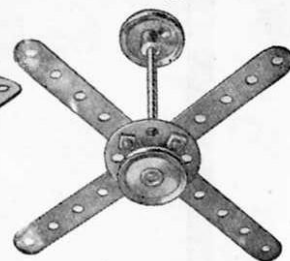
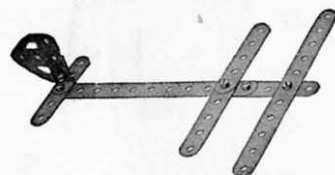
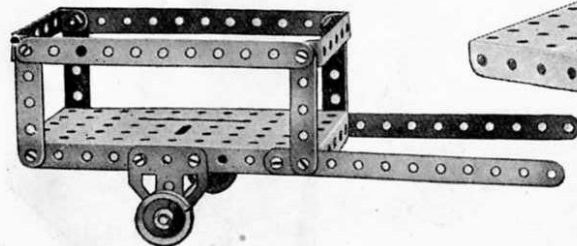
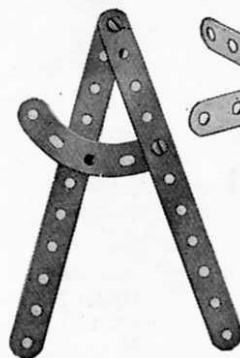
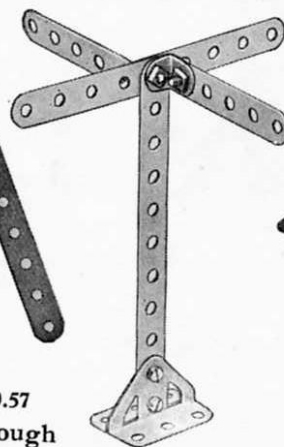
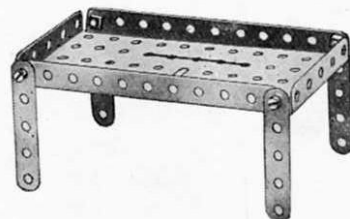
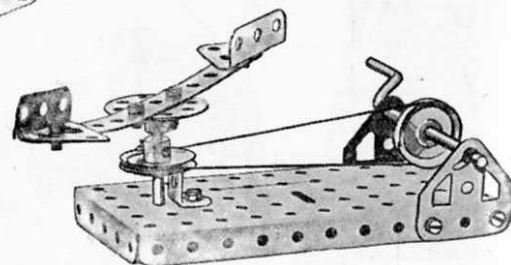
Model No.
00.46
Potato
Chopper



All these Models can be built with MECCANO Outfit No. 00

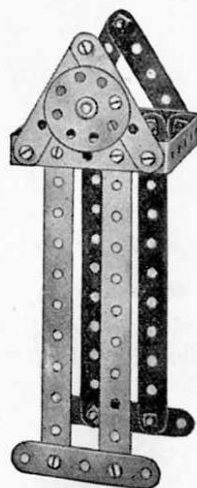
Model No.
00.47

Road Sign

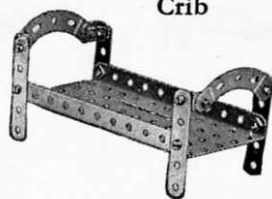
Model No. 00.50
RazorModel No.
00.51
1-way
Sign PostModel No. 00.52
2-way Sign PostModel No. 00.53
Frame AerialModel No. 00.54
Buffing
SpindleModel No. 00.58
TweezersModel No. 00.60
Battle AxeModel No. 00.59
3-way
Road SignModel No. 00.61
Ceiling FanModel No. 00.48
GliderModel No. 00.49
CartModel No.
00.55
DividersModel No. 00.56
4-way
Road SignModel No. 00.57
Drinking TroughModel No. 00.62
Roundabout

All these Models can be built with MECCANO Outfit No. 00

Model No. 00.63
Grandfather's Clock



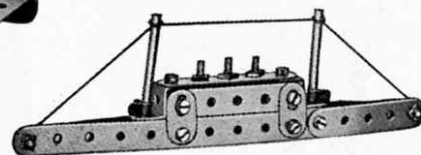
Model No. 00.66
Crib



Model No. 00.70 Table



Model No. 00.72
Liner



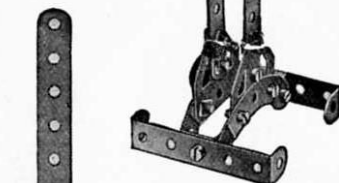
Model No.
00.75
Mail Bag
Hanger



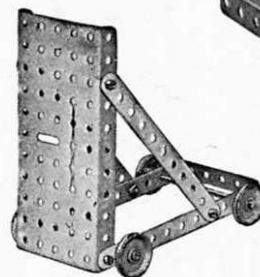
Model No. 00.67
Refreshment Wagon



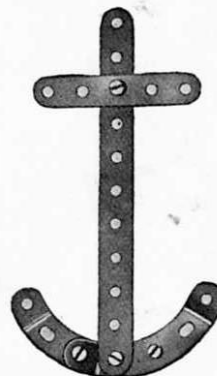
Model
No. 00.68
Rake



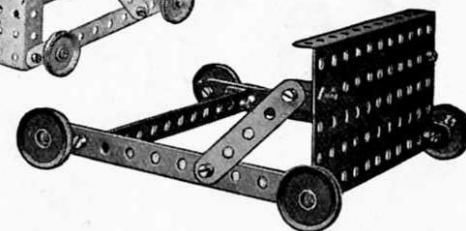
Model No. 00.74
Gravel Sifter



Model No. 00.73
Anchor



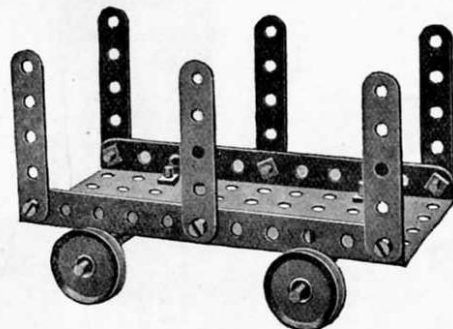
Model No. 00.76
Devil Wall



Model No. 00.64
Tin Opener



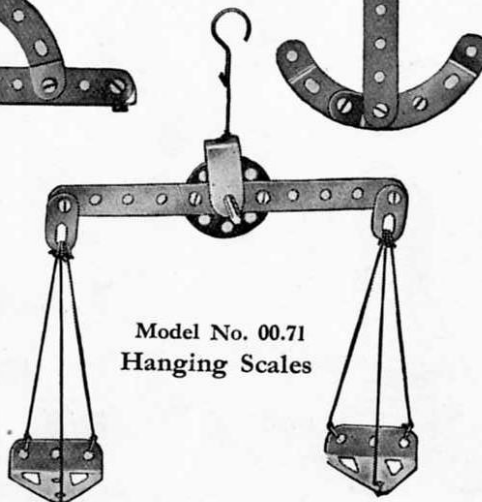
Model No. 00.65 Timber Truck



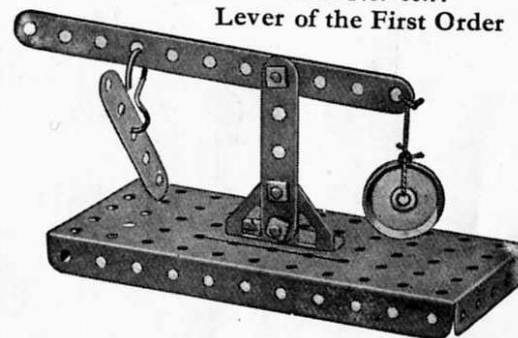
Model
No. 00.69
Stool



Model No. 00.71
Hanging Scales



Model No. 00.77
Lever of the First Order

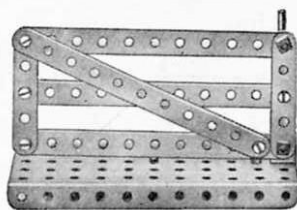


All these Models can be built with MECCANO Outfit No. 00

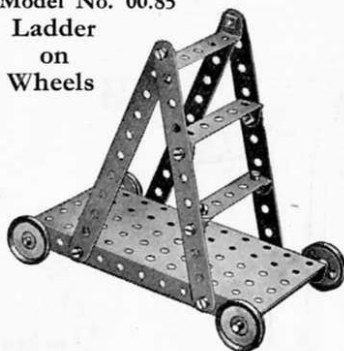
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Friction Grip
Tongs



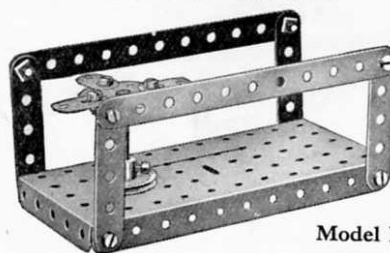
Model No. 00.80 Gate



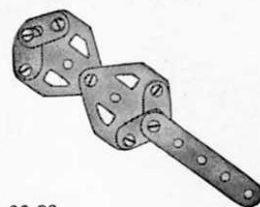
Model No. 00.85
Ladder
on
Wheels



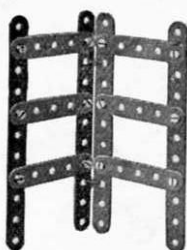
Model No. 00.87 Turnstile



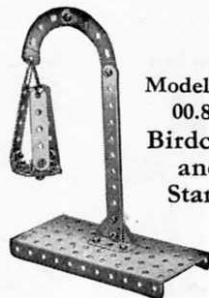
Model No. 00.92 Violin



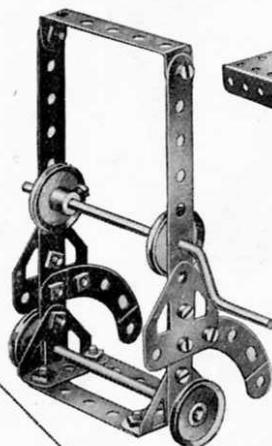
Model No. 00.81
Clothes Horse



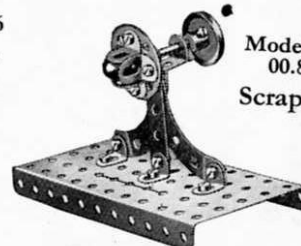
Model No.
00.83
Birdcage
and
Stand



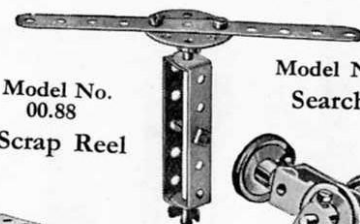
Model No. 00.86
Garden Hose
Reel



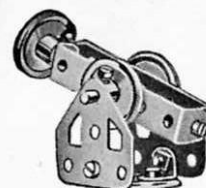
Model No.
00.88
Scrap Reel



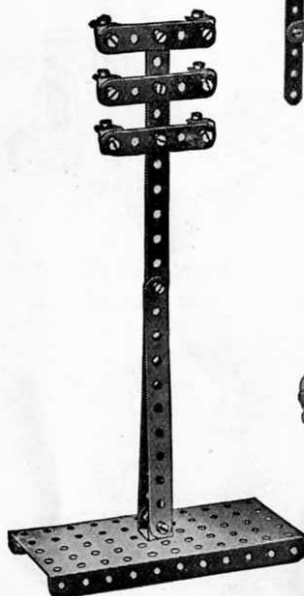
Model No. 00.89
Propeller



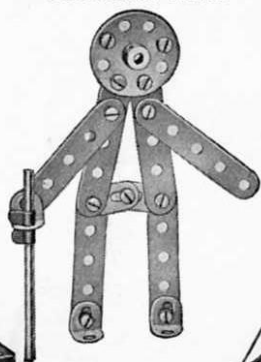
Model No. 00.93
Searchlight



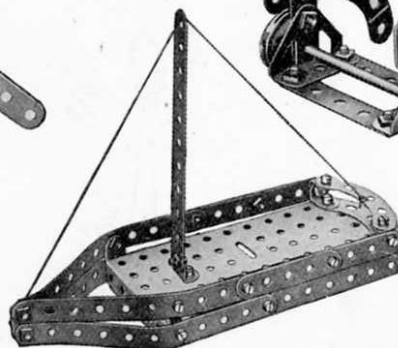
Model No. 00.79
Telegraph pole



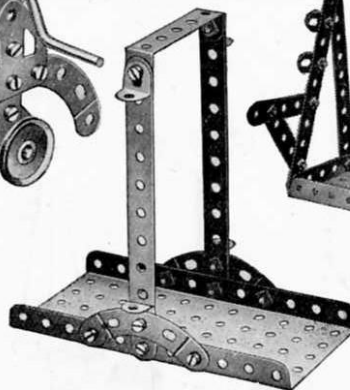
Model No. 00.82
Meccano Man



Model No.
00.84
Barge

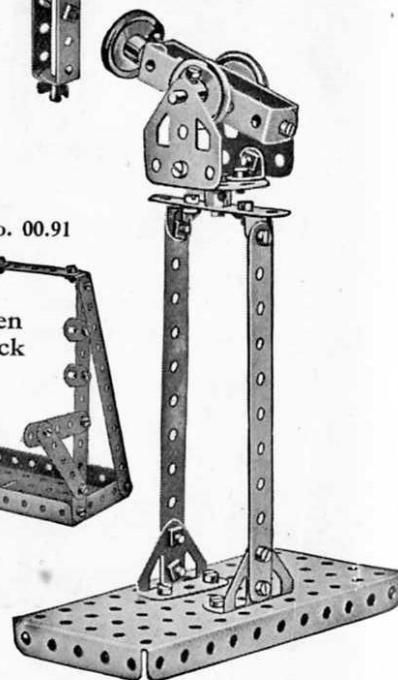
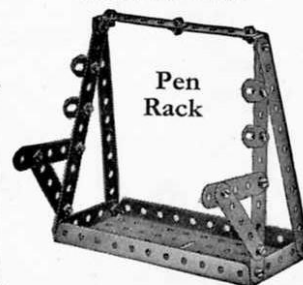


Model No.
00.90
Elevator
Car



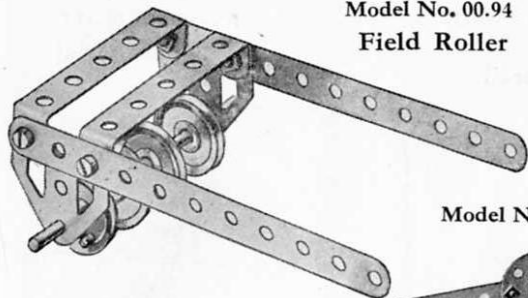
Model No. 00.91

Pen
Rack



All these Models can be built with MECCANO Outfit No. 00

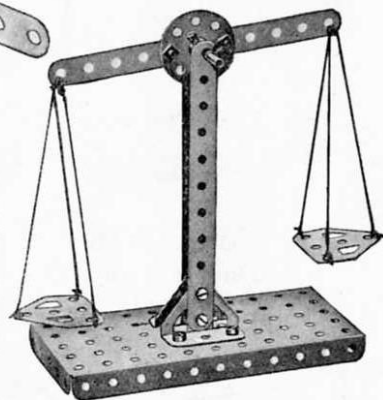
Model No. 00.94
Field Roller



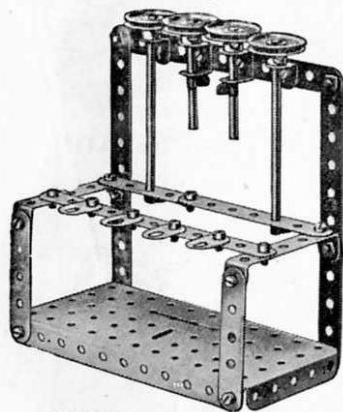
Model No. 00.100 Magic Plate

The cord is wound once round a 2" Axle Rod that is journalled in a Flat Bracket and a $\frac{1}{2}$ " Reversed Angle Bracket, which are bolted to the Plate. If the cord is held loosely the plate will drop, but as soon as the cord is tightened the plate becomes immovable.

Model No. 00.97 Scales



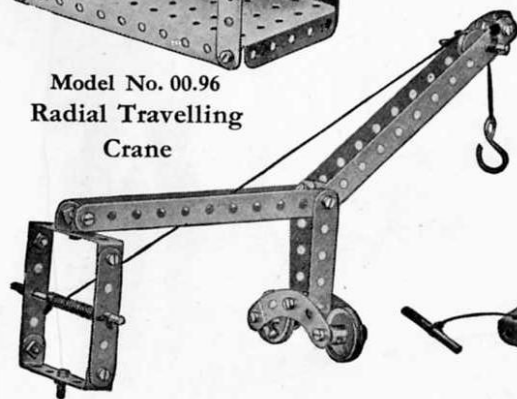
Model No. 00.95
Organ



Model No. 00.98
Book End



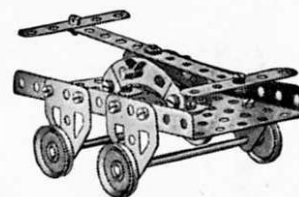
Model No. 00.96
Radial Travelling
Crane



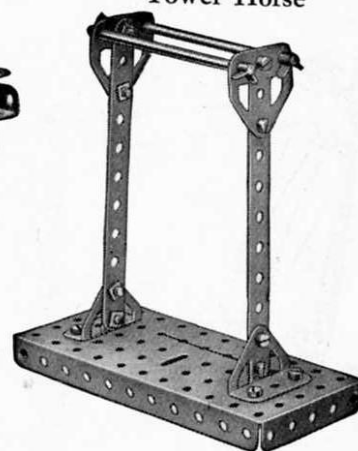
Model No. 00.99
Cheese Cutter



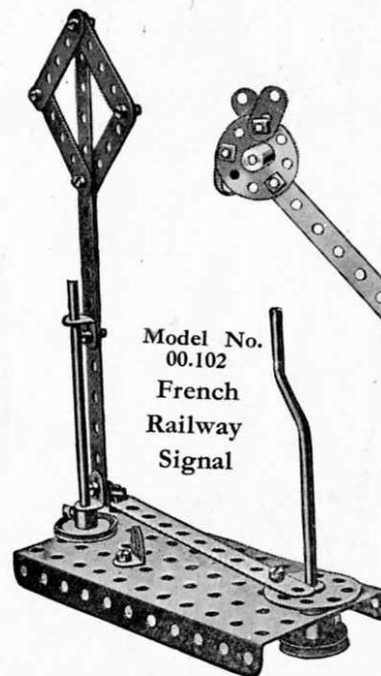
Model No. 00.101
Hand Car



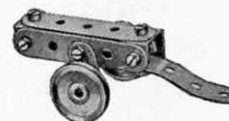
Model No. 00.104
Towel Horse



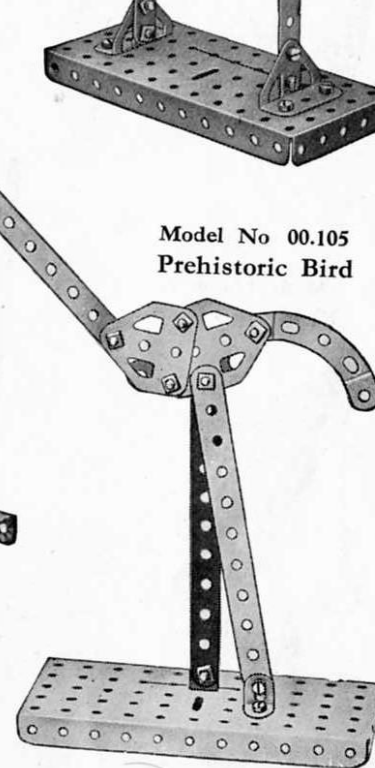
Model No.
00.102
French
Railway
Signal



Model No. 00.103 Cannon

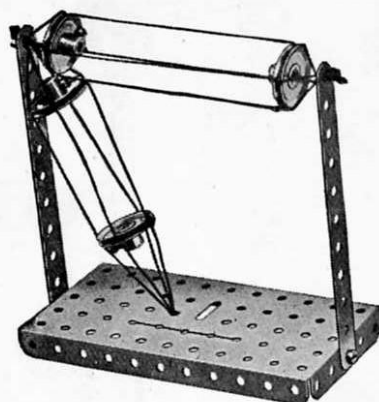


Model No 00.105
Prehistoric Bird



All these Models can be built with MECCANO Outfit No. 00

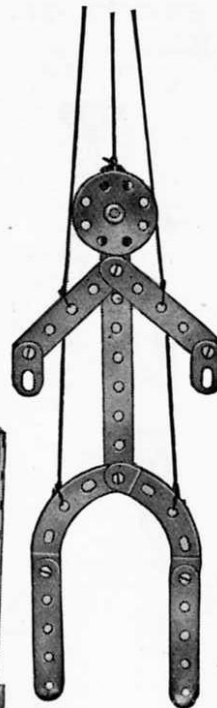
Model No. 00.106
Cage Aerial



Model No. 00.108
Double Wire L Aerial



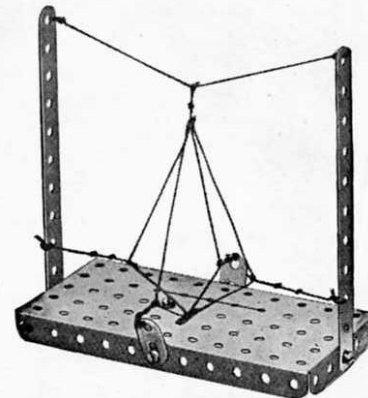
Model No. 00.110
Jumping Jack



Model No. 00.112
Single Wire
T Aerial



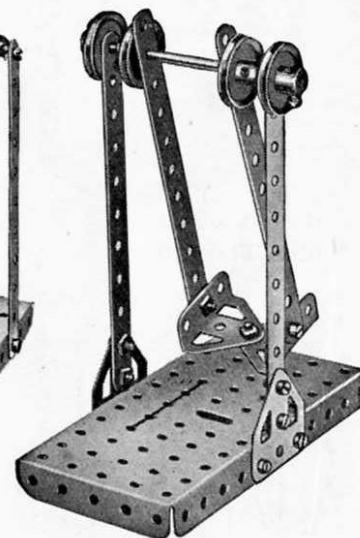
Model No. 00.114
Direction Aerial



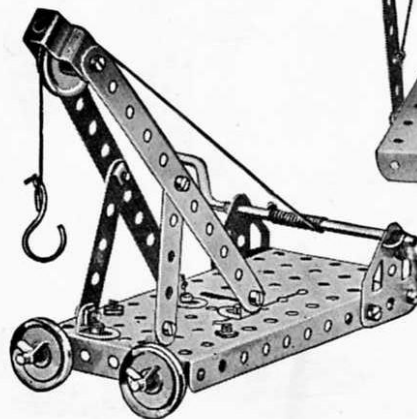
Model No. 00.113
Double Wire
T Aerial



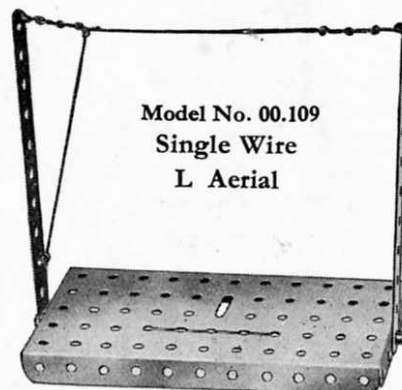
Model No. 00.115
Swing



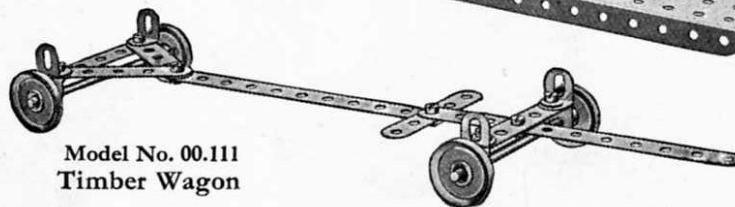
Model No. 00.107
Revolving Crane



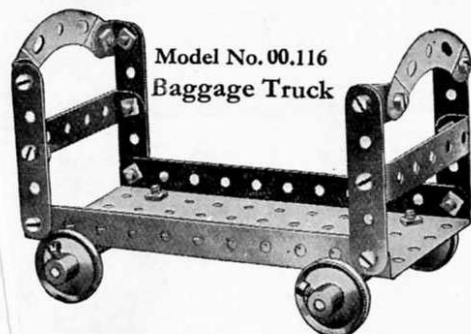
Model No. 00.109
Single Wire
L Aerial



Model No. 00.111
Timber Wagon

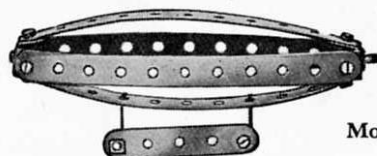
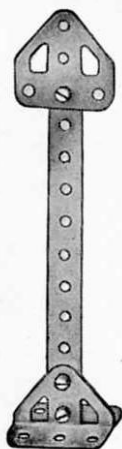


All these Models can be built with MECCANO Outfit No. 00



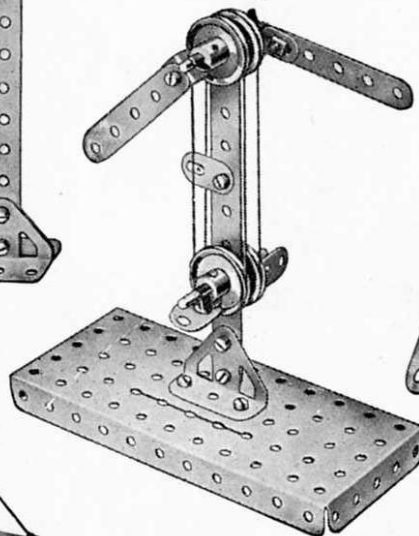
Model No. 00.116
Baggage Truck

Model No. 00.119
Road Sign

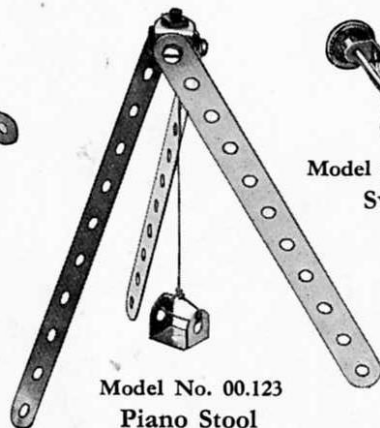


Model No. 00.120 Airship

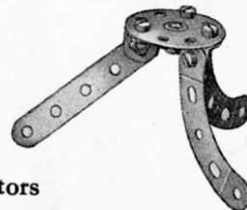
Model No. 00.121
Semaphore



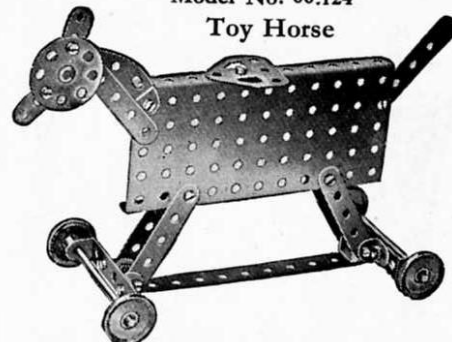
Model No. 00.122
Tripod



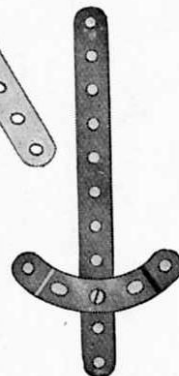
Model No. 00.123
Piano Stool



Model No. 00.124
Toy Horse



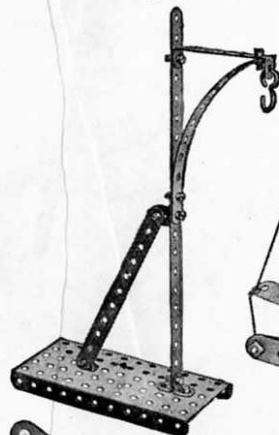
Model No. 00.125
Sword



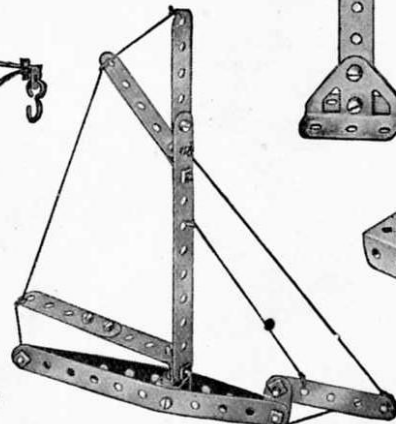
Model No. 00.126
Umbrella Stand



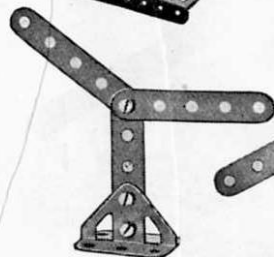
Model No. 00.117
Mail Bag
Hanger



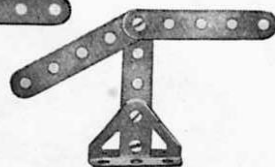
Model No. 00.118
Yacht



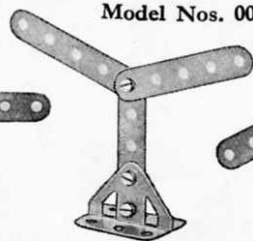
Model Nos. 00.127—00.134 Gradient Indicators



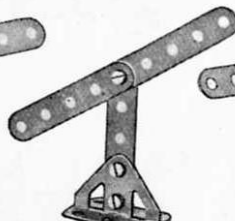
00.127



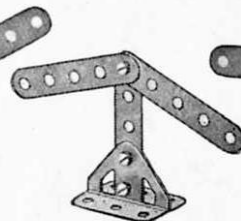
00.128



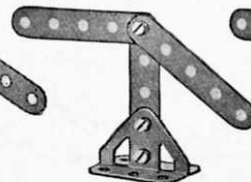
00.129



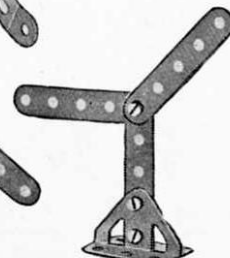
00.130



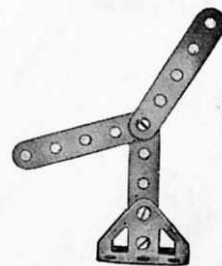
00.131



00.132



00.133



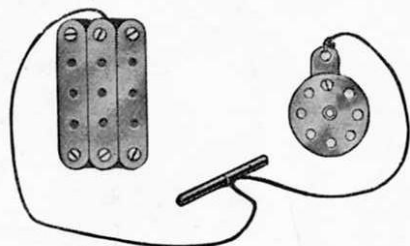
00.134

10

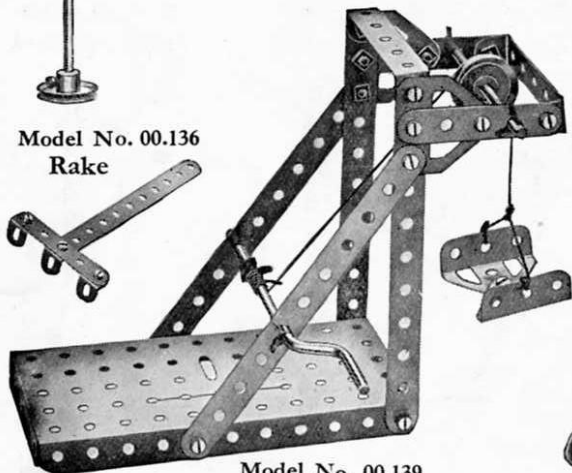
Model No.
00.135
Street
Lamp



Model No. 00.137
Watch and Chain



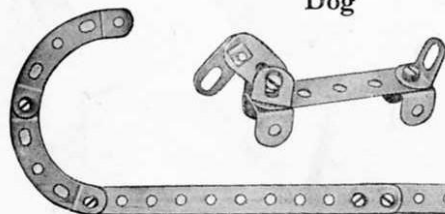
Model No. 00.138
Pit-Head Gear



Model No. 00.136
Rake



Model No. 00.139
Dog

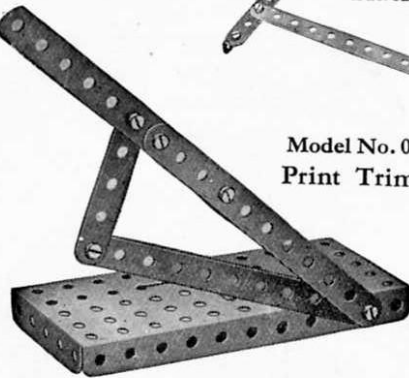


All these Models can be built with MECCANO Outfit No. 00

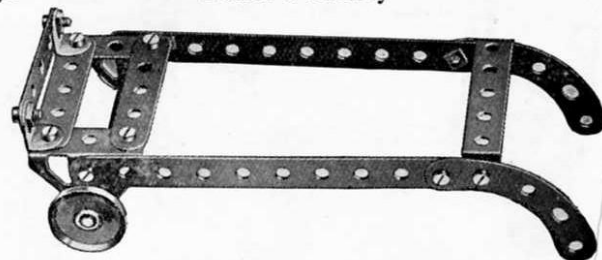
Model No. 00.142
Track Gauge



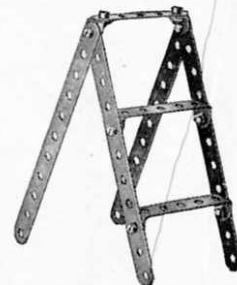
Model No. 00.143
Print Trimmer



Model No. 00.146
Porter's Trolley



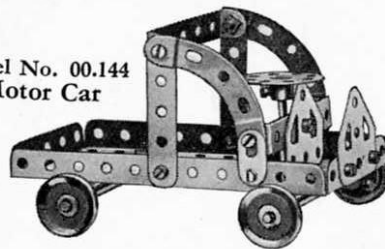
Model No. 00.148
Step Ladder



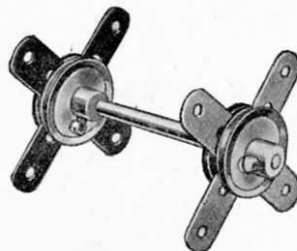
Model No. 00.147
Ostrich



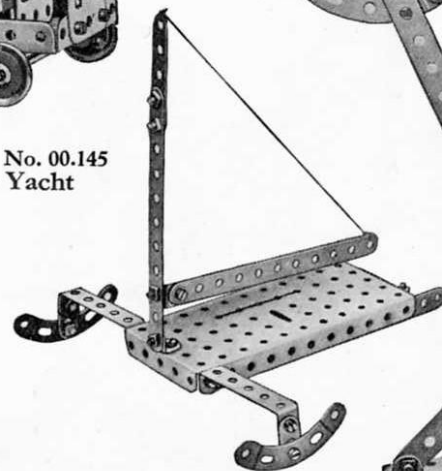
Model No. 00.144
Motor Car



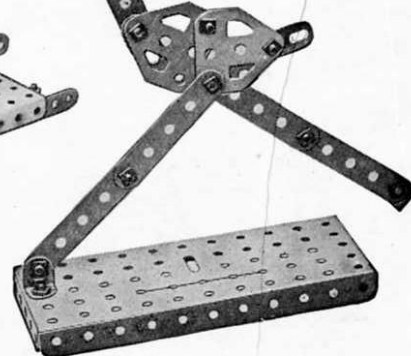
Model No. 00.140
Cutlery Rest



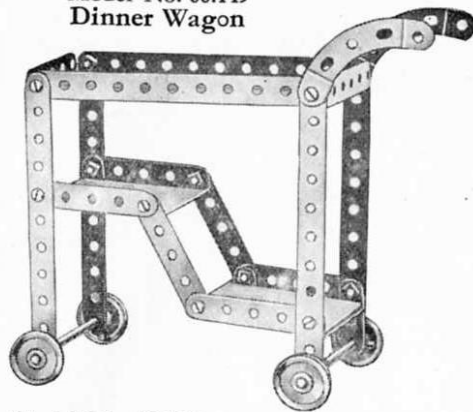
Model No. 00.145
Ice Yacht



Model No. 00.141 Walking Stick



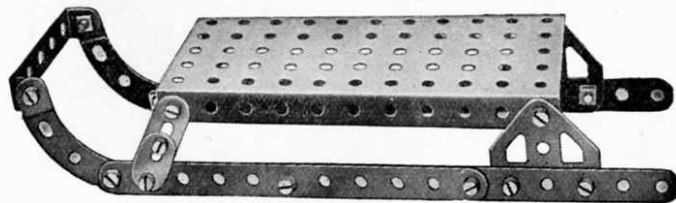
Model No. 00.149
Dinner Wagon



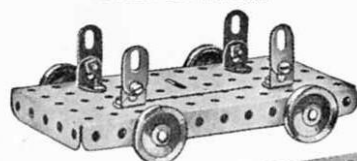
Model No. 00.150
Sawing Horse



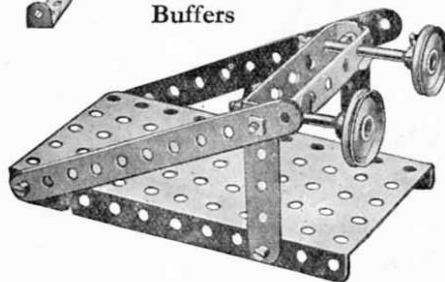
Model No. 00.151 Sledge



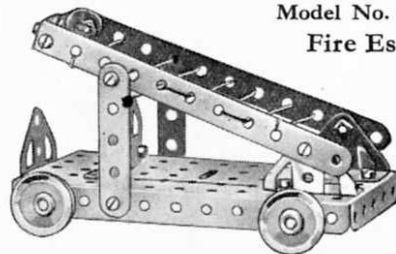
All these Models can be built with MECCANO Outfit No. 00
Model No. 00.152
Lumber Truck



Model No. 00.153
Buffers



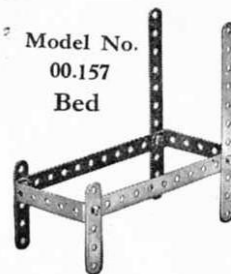
Model No. 00.154
Fire Escape



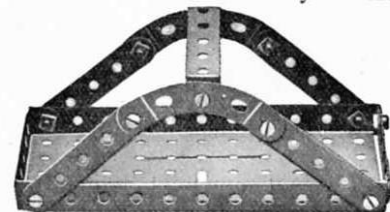
Model No. 00.156
Mono Rail



Model No.
00.157
Bed



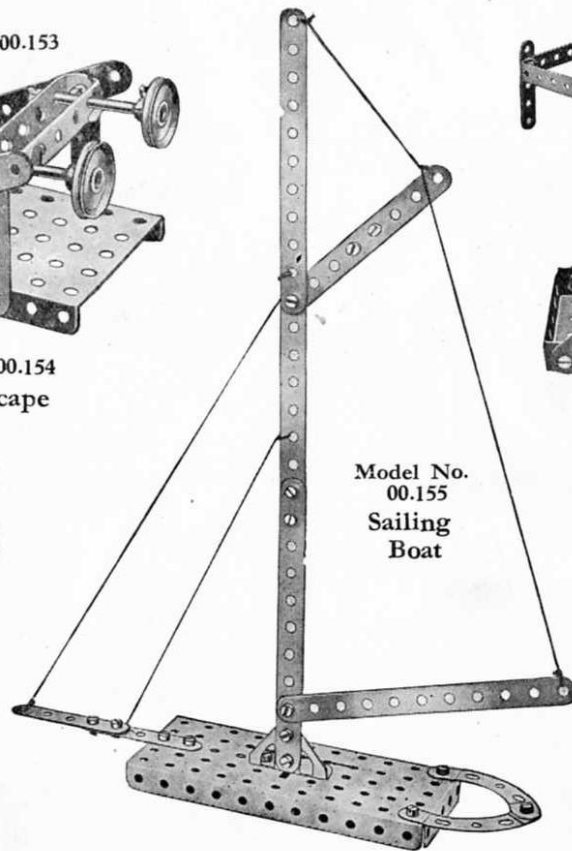
Model No. 00.158
Cutlery Basket



Model No. 00.159
Clothes Drying Frame

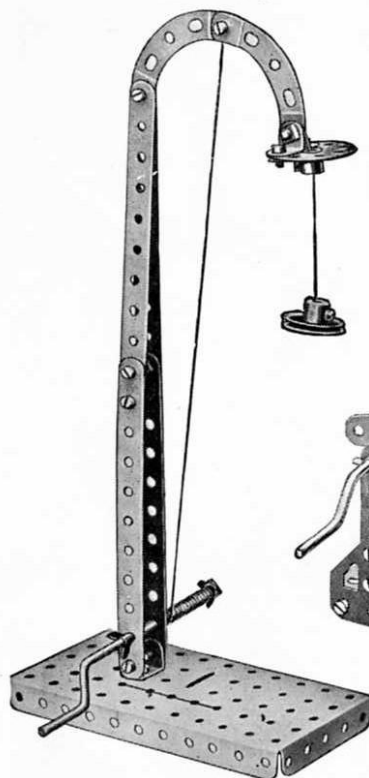


Model No.
00.155
Sailing
Boat

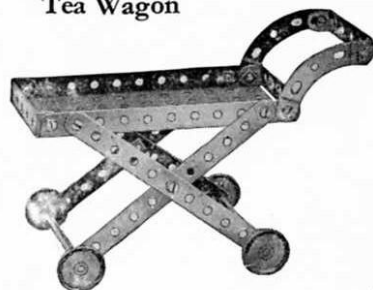


All these Models can be built with MECCANO Outfit No. 00

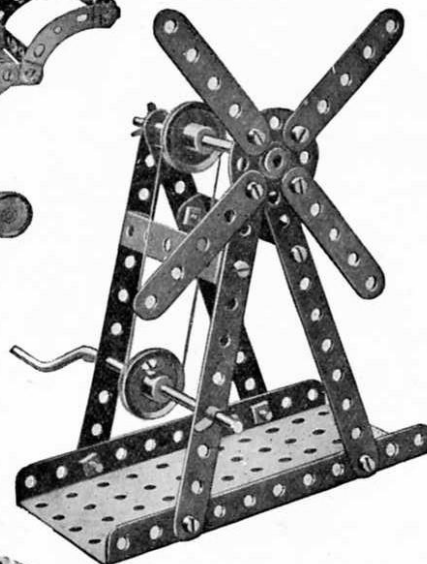
Model No. 00.160
Arc Lamp



Model No. 00.162
Tea Wagon



Model No. 00.164
Windmill

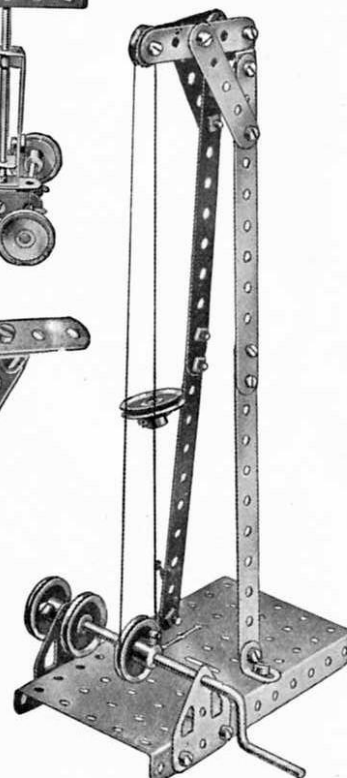


Model No. 00.166
Bed Table

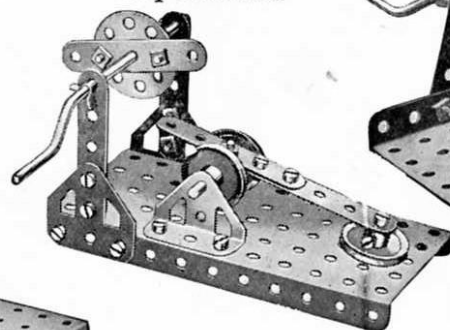


Model
No. 00.167
Garden
Roller

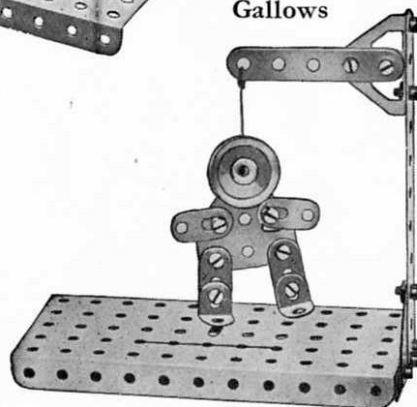
Model No. 00.168
Airship Mooring
Mast



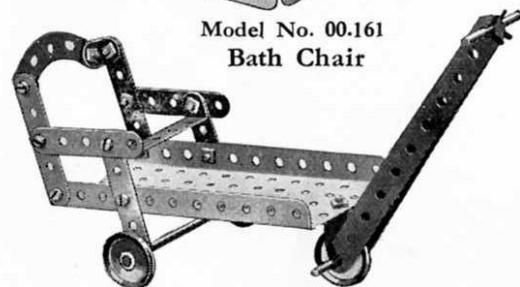
Model No. 00.163
Trip Hammer



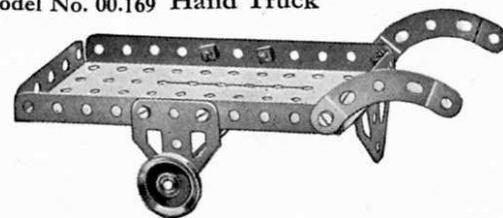
Model No. 00.165
Gallows



Model No. 00.161
Bath Chair



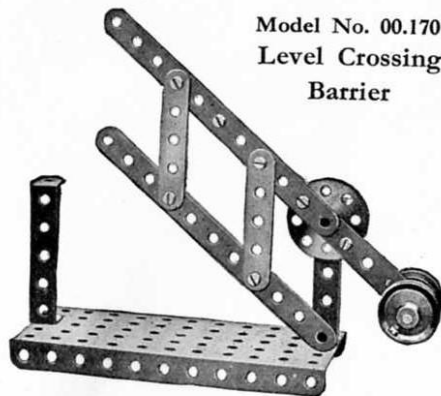
Model No. 00.169 Hand Truck



All these Models can be built with MECCANO Outfit No. 00

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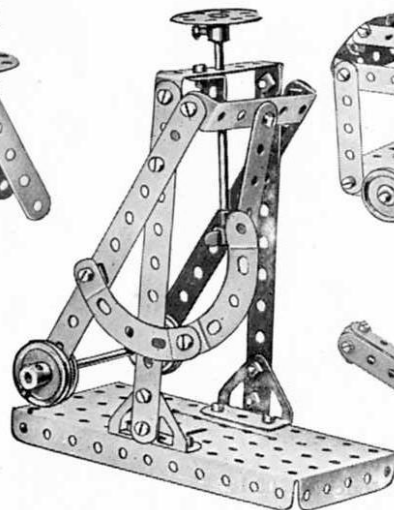
Model No. 00.170
Level Crossing
Barrier



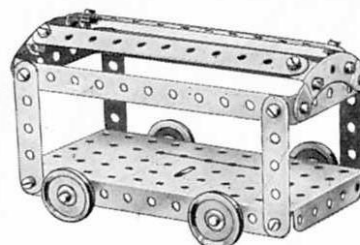
Model No. 00.172
Flower Pot
Stand



Model No. 00.174
Letter Balance

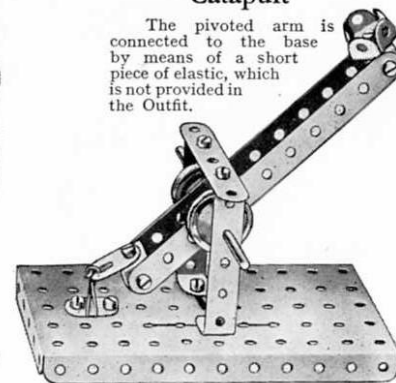


Model No. 00.176
Pullman Car

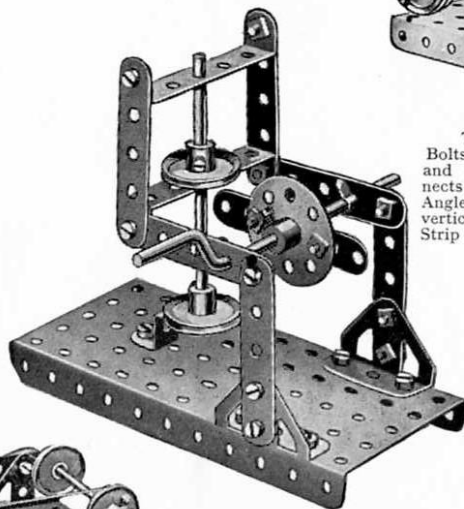


Model No. 00.178
Catapult

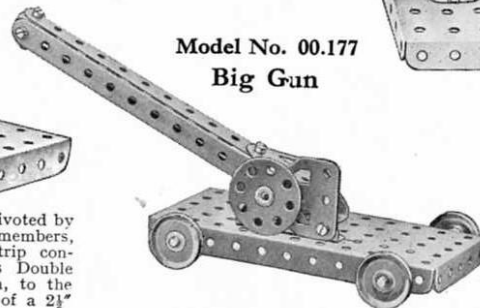
The pivoted arm is connected to the base by means of a short piece of elastic, which is not provided in the Outfit.



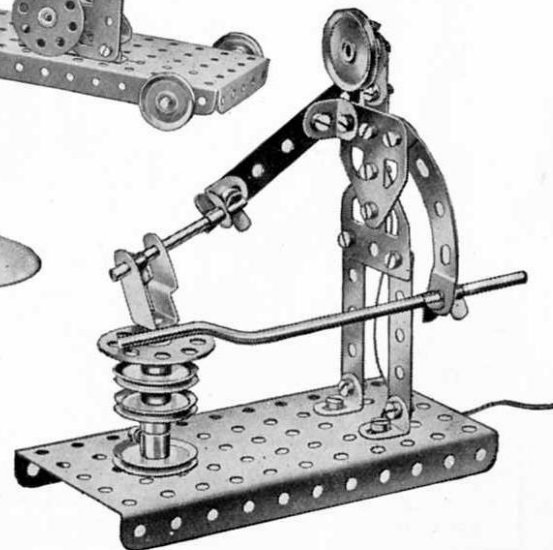
Model No. 00.173
Ore Crusher



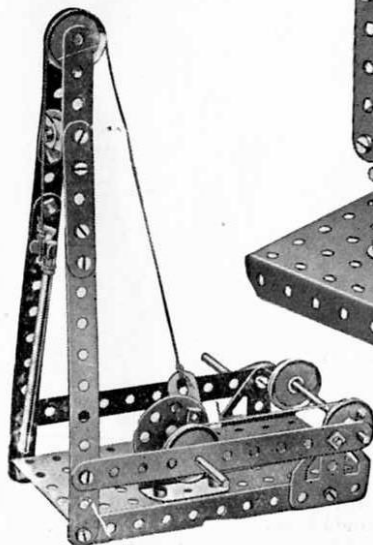
Model No. 00.177
Big Gun



Model No. 00.179
Blacksmith

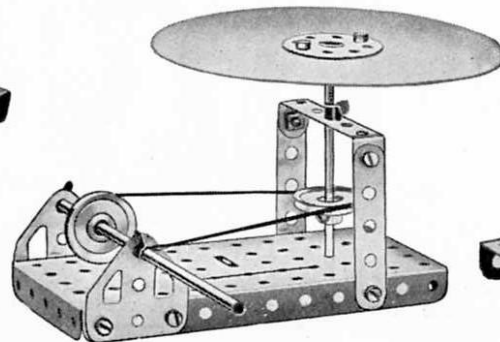


Model No. 00.171
Well Driller



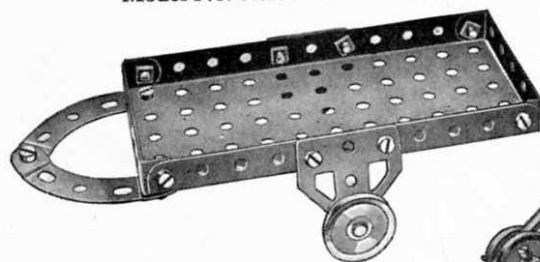
The weighted $5\frac{1}{2}$ " Strips are pivoted by Bolts and lock-Nuts to the vertical members, and a $2\frac{1}{2} \times \frac{1}{2}$ " Double Angle Strip connects their upper ends. This Double Angle Strip is connected, in turn, to the vertical $3\frac{1}{2}$ " Axle Rod by means of a $2\frac{1}{2}$ " Strip and an Angle Bracket.

Model No. 00.175 Joy Wheel



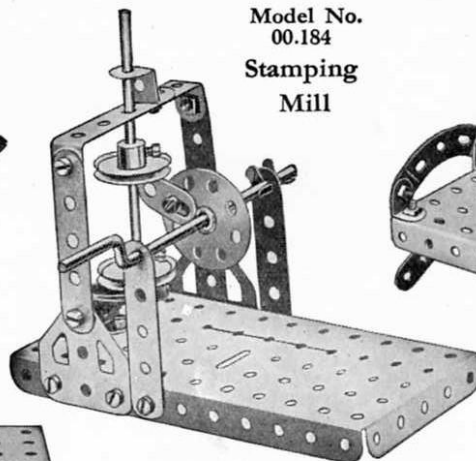
All these Models can be built with MECCANO Outfit No. 00

Model No. 00.180 Hand Truck

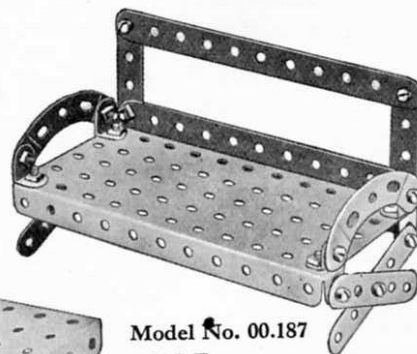


Model No.
00.184

Stamping
Mill



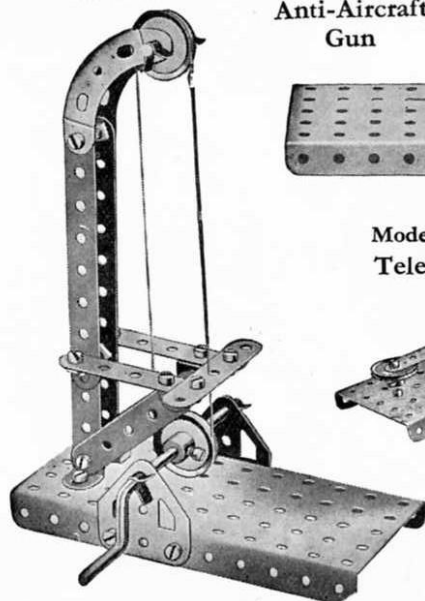
Model No. 00.186
Garden Seat



Model No. 00.188
Watch Stand



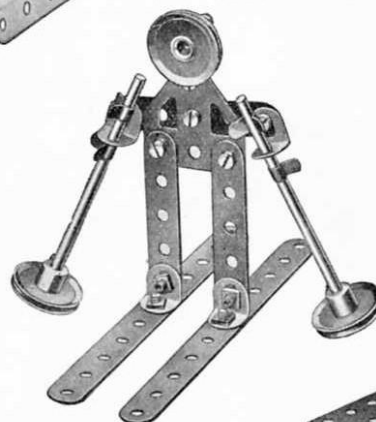
Model No. 00.181
Band Saw



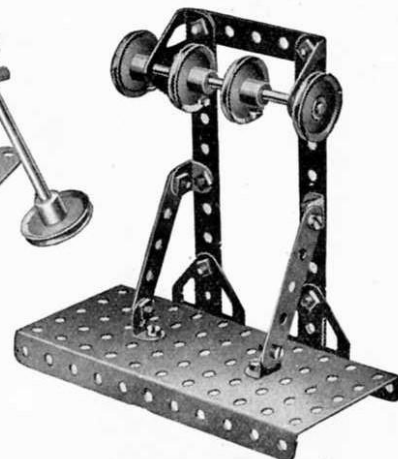
Model No.
00.182
Anti-Aircraft
Gun



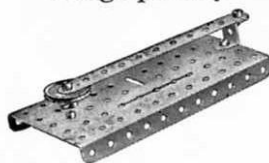
Model No. 00.187
Ski-Runner



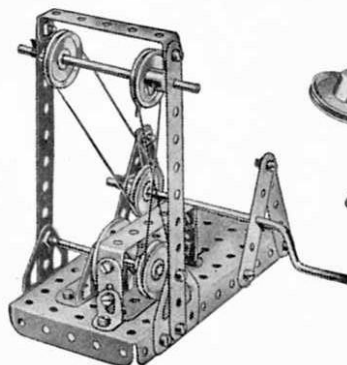
Model No 00.189
Pulley Shafting



Model No. 00.183
Telegraph Key



Model No. 00.185
Circular Saw



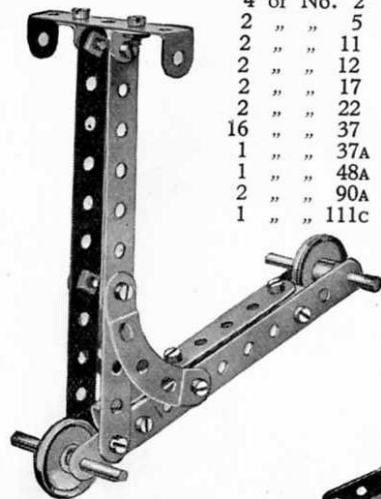
HOW TO CONTINUE

This completes our examples of models that may be made with MECCANO Outfit No. 00. 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. 00A Accessory Outfit, the price of which may be obtained from any Meccano dealer.

Model No. 0.1 Scooter

Parts

required :
 4 of No. 2
 2 " " 5
 2 " " 11
 2 " " 12
 2 " " 17
 2 " " 22
 2 " " 37
 16 " " 37A
 1 " " 48A
 2 " " 90A
 1 " " 111c



Model No. 0.2 Luggage Truck

Parts

required :
 2 of No. 2
 6 " " 5
 2 " " 12
 1 " " 16
 2 " " 22
 12 " " 37
 1 " " 52
 3 " " 90A

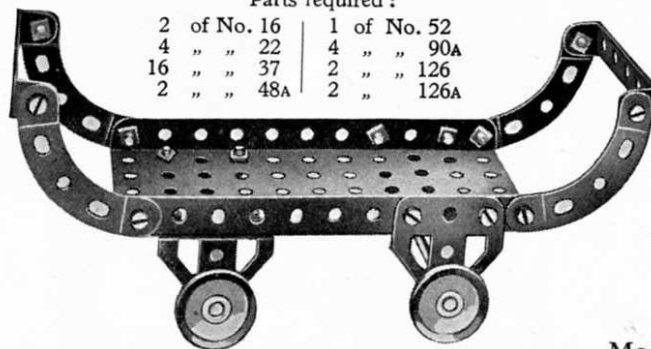


These Models can be built with MECCANO Outfit No. 0 (or No. 00 and No. 00A)

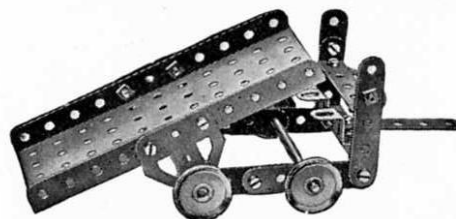
Model No. 0.4 Push Cart

Parts required :

2 of No. 16	1 of No. 52
4 " " 22	4 " " 90A
16 " " 37	2 " " 126
2 " " 48A	2 " " 126A

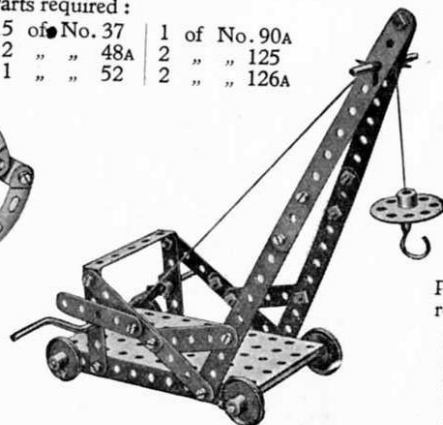


Model No. 0.3 Tipping Cart



Parts required :

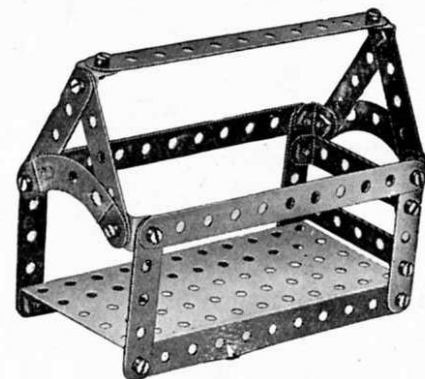
7 of No. 5	15 of No. 37	1 of No. 90A
2 " " 16	2 " " 48A	2 " " 125
4 " " 22	1 " " 52	2 " " 126A



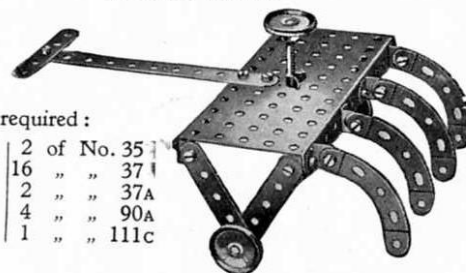
Model No. 0.7 Dog Kennel

Parts

required :
 3 of No. 2
 8 " " 5
 6 " " 12
 16 " " 37
 4 " " 37A
 2 " " 48A
 1 " " 52
 2 " " 90A
 4 " " 111c



Model No. 0.5 Horse Rake



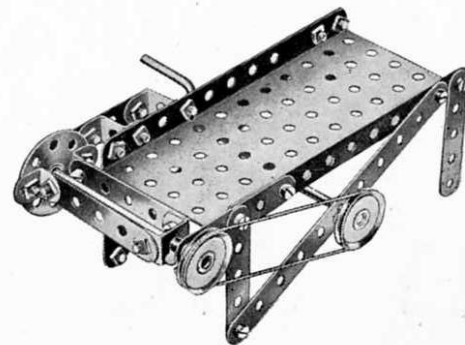
Parts required :

1 of No. 2	2 of No. 35
5 " " 5	16 " " 37
8 " " 12	2 " " 37A
1 " " 17	4 " " 90A
3 " " 22	1 " " 111c

Model No. 0.8 Chaff Cutter

Parts required :

2 of No. 2	1 of No. 24
8 " " 5	2 " " 35
1 " " 11	16 " " 37
2 " " 12	5 " " 37A
1 " " 16	1 " " 40
1 " " 19s	1 " " 52
2 " " 22	5 " " 111c
2 of No. 125	



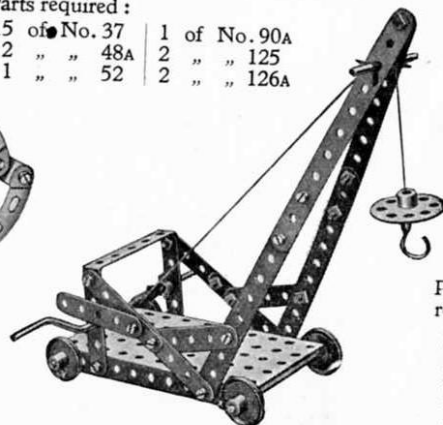
Model No. 0.6

Jib Crane

Parts

required :
 4 of No. 2
 9 " " 5
 2 " " 16
 1 " " 17
 1 " " 19s

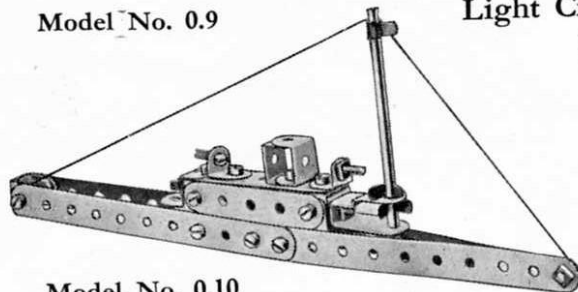
4 of No. 22
1 " " 23
1 " " 24
4 " " 35
16 " " 37
1 " " 37A
1 " " 40
1 " " 48A
1 " " 52
1 " " 57c
1 " " 111c



16

These Models can be built with MECCANO Outfit No. O (or No. OO and No. OOA)

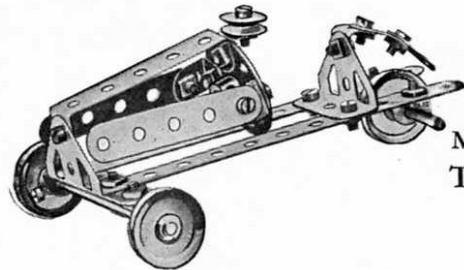
Model No. 0.9



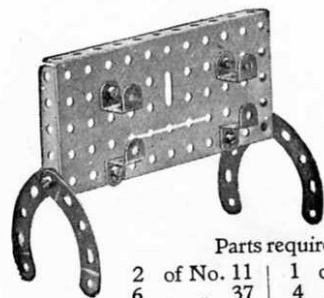
Model No. 0.10

Three-Wheel Auto

Parts required :		Parts required :	
2 of No. 2	1 of No. 17	2 of No. 37A	
3 " " 5	3 " " 22	1 " " 40	
2 " " 10	1 " " 23	1 " " 48A	
8 " " 12	1 " " 24	2 " " 111c	
1 " " 16	16 " " 37	2 " " 126	



Model No. 0.11 Pen Rack



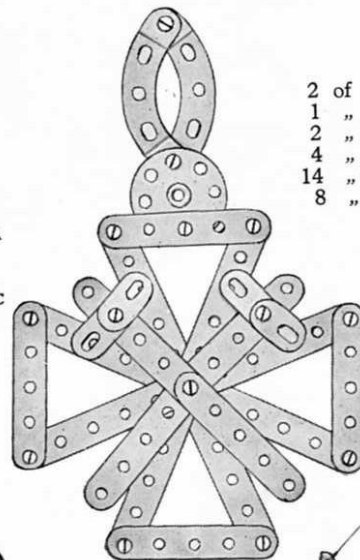
Parts required :

2 of No. 11	1 of No. 52
6 " " 37	4 " " 90A
2 of No. 125	

Light Cruiser

Parts required :	
4 of No. 2	
3 " " 5	
4 " " 10	
2 " " 11	
7 " " 12	
1 " " 16	
3 " " 35	
16 " " 37	
6 " " 37A	
1 " " 40	
1 " " 44	
6 " " 111c	
1 " " 125	

Model No. 0.13 Medal



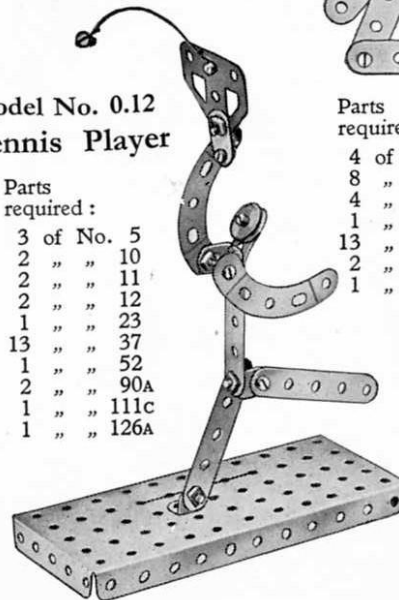
Parts required :

4 of No. 2	
8 " " 5	
4 " " 10	
1 " " 24	
13 " " 37	
2 " " 90A	
1 " " 111c	

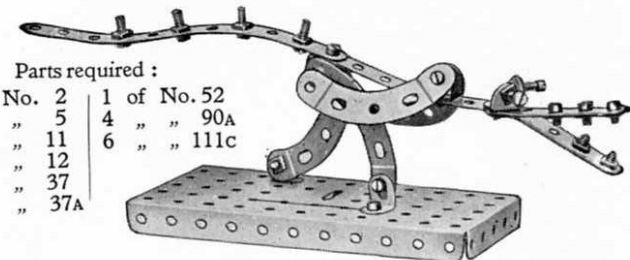
Model No. 0.12
Tennis Player

Parts required :

3 of No. 5	
2 " " 10	
2 " " 11	
2 " " 12	
1 " " 23	
13 " " 37	
1 " " 52	
2 " " 90A	
1 " " 111c	
1 " " 126A	



Model No. 0.14 Prehistoric Bird



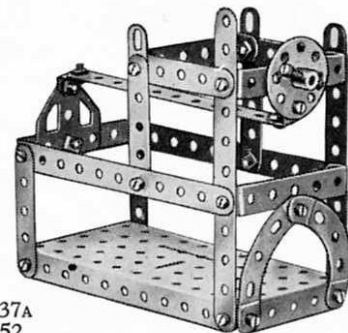
Parts required :

2 of No. 2	1 of No. 52
1 " " 5	4 " " 90A
2 " " 11	6 " " 111c
4 " " 12	
14 " " 37	
8 " " 37A	

Model No. 0.16 Church

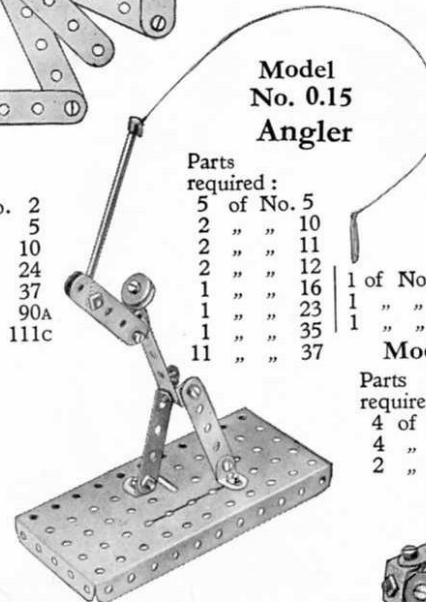
Parts required :

4 of No. 2	2 of No. 12	6 of No. 37A	4 of No. 90A
8 " " 5	1 " " 24	4 " " 48A	6 " " 111c
3 " " 10	16 " " 37	1 " " 52	1 " " 126A

Model
No. 0.15
Angler

Parts required :

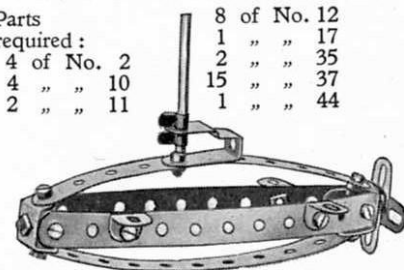
5 of No. 5	
2 " " 10	
2 " " 11	
2 " " 12	
1 " " 16	
1 " " 23	
1 " " 35	
11 " " 37	



Model No. 0.17 Submarine

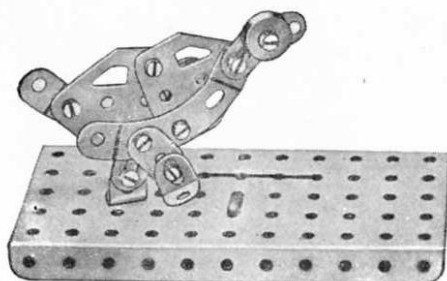
Parts required :

4 of No. 2	8 of No. 12
4 " " 10	1 " " 17
2 " " 11	2 " " 35
	15 " " 37
	1 " " 44



These Models can be built with MECCANO Outfit No. O (or No. OO and No. OOA)

Model No. 0.18 Goose



Parts
required :

4	of No.	10
2	" "	12
1	" "	23
8	" "	37
1	" "	37A
1	" "	52
2	" "	90A
1	" "	111c
2	" "	126A

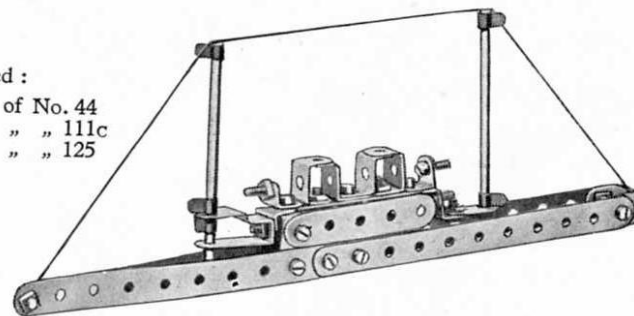
Model No. 0.22
Lazy Tong



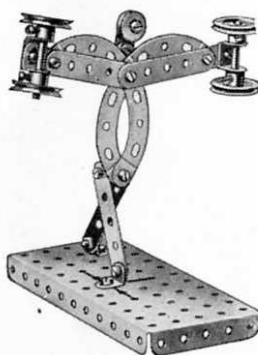
Parts required :

4	of No.	2	1	of No.	44
3	" "	5	6	" "	111c
4	" "	10	2	" "	125
2	" "	11			
9	" "	12			
2	" "	16			
6	" "	35			
16	" "	37			
6	" "	37A			
1	" "	40			

Model No. 0.23 Battleship



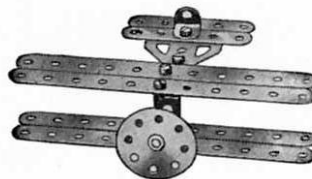
Model No. 0.19 Strong Man



Parts
required :

4	of No.	5
4	" "	10
2	" "	11
2	" "	12
2	" "	17
4	" "	22
1	" "	23
13	" "	37
1	" "	37A
1	" "	52
4	" "	90A
1	" "	111c

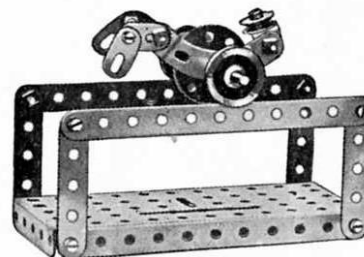
Model No. 0.20
Aeroplane



Parts required :

4	of No.	2	8	of No.	37
3	" "	5	1	" "	111c
2	" "	12	2	" "	125
1	" "	24	1	" "	126A

Model No. 0.24 Gymnast



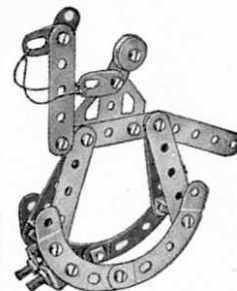
Parts required :

2	of No.	2	1	of No.	24
4	" "	5	12	" "	37
4	" "	10	1	" "	37A
1	" "	12	1	" "	52
1	" "	16	1	" "	90A
2	" "	22	1	" "	111c
1	" "	23			

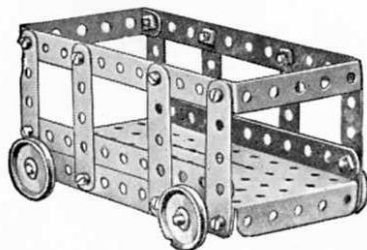
Model No. 0.25
Rocking Horse

Parts
required :

7	of No.	5
4	" "	10
2	" "	11
2	" "	12
1	" "	23
13	" "	37
1	" "	40
4	" "	90A
3	" "	111c
1	" "	126A



Model No. 0.21 Cattle Truck



Parts
required :

4	of No.	2
8	" "	5
2	" "	16
4	" "	22
16	" "	37
2	" "	37A
2	" "	48A
1	" "	52
2	" "	111c

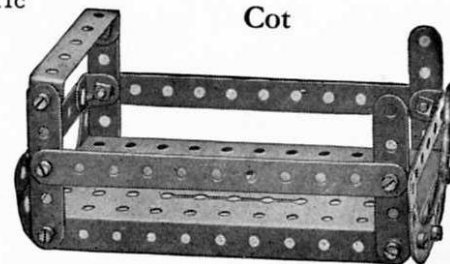
Parts
required :

2	of No.	2
8	" "	5
13	" "	37
9	" "	37A

Parts
required :

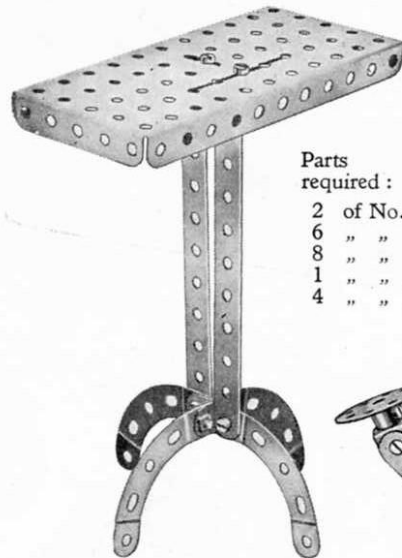
2	of No.	2
6	" "	5
2	" "	12
16	" "	37
2	" "	48A
1	" "	52
4	" "	90A

Model No. 0.26
Cot



These Models can be built with MECCANO Outfit No. O (or No. OO and No. OOA)

Model No. 0.27 Table



Parts
required :

2	of No. 2
6	" " 12
8	" " 37
1	" " 52
4	" " 90A

Model
No. 0.29

Saxophone

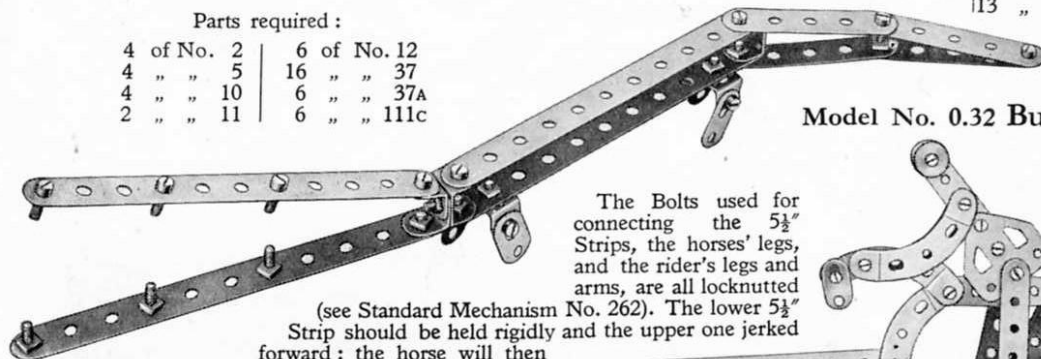
Parts
required :

2	of No. 2
2	" " 10
2	" " 11
2	" " 12
1	" " 23
1	" " 24
12	" " 37
1	" " 37A
4	" " 90A
2	" " 111c

Model No. 0.28 Crocodile

Parts required :

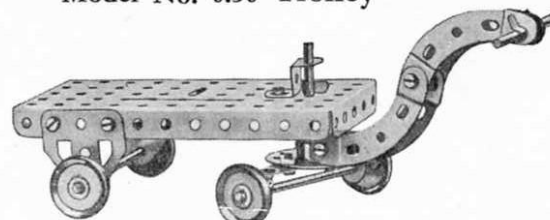
4	of No. 2	6	of No. 12
4	" " 5	16	" " 37
4	" " 10	6	" " 37A
2	" " 11	6	" " 111c



The Bolts used for connecting the $5\frac{1}{2}$ " Strips, the horses' legs, and the rider's legs and arms, are all locknitted

(see Standard Mechanism No. 262). The lower $5\frac{1}{2}$ " Strip should be held rigidly and the upper one jerked forward; the horse will then throw its rider completely over its head.

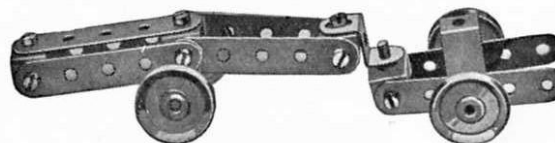
Model No. 0.30 Trolley



Parts required:

1	of No. 11	4	of No. 35	4	of No. 90A
2	" " 16	12	" " 37	1	" " 125
2	" " 17	1	" " 48A	2	" " 126A
1	" " 24	1	" " 52		

Model No. 0.31
Field Gun and Carriage



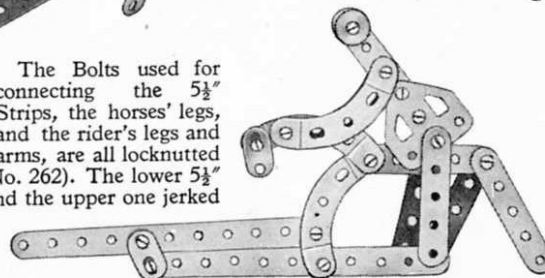
Parts required :

8	of No. 5	6	of No. 12	1	of No. 37A
2	" " 10	2	" " 17	1	" " 44
2	" " 11	4	" " 22	1	" " 111c
		13	" " 37	1	" " 125

Model No. 0.32 Bucking Broncho

Parts
required :

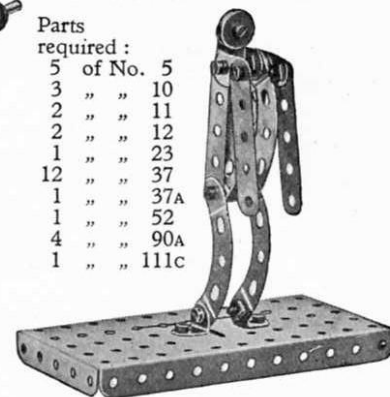
2	of No. 2
6	" " 5
2	" " 10
1	" " 23
12	" " 37
9	" " 37A
4	" " 90A
1	" " 111c
1	" " 126A



Model No. 0.33 Ape

Parts
required :

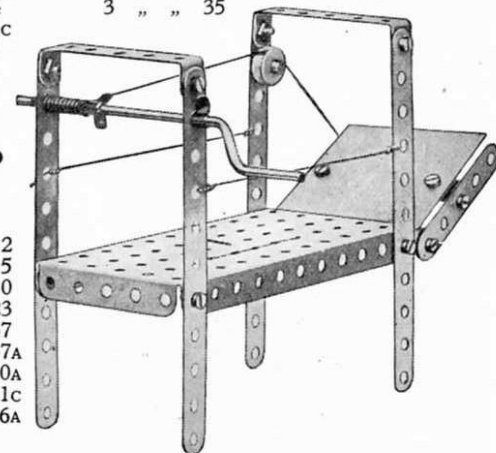
5	of No. 5
3	" " 10
2	" " 11
2	" " 12
1	" " 23
12	" " 37
1	" " 37A
1	" " 52
4	" " 90A
1	" " 111c



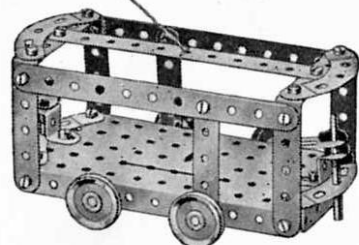
Model No. 0.34 Gangway

Parts required :

4	of No. 2	16	of No. 37
2	" " 5	2	" " 37A
2	" " 10	1	" " 40
2	" " 12	2	" " 48A
1	" " 19s	1	" " 52
1	" " 23	1	" " 111c
3	" " 35		



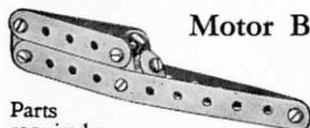
Model No. 0.35
Tramway Car



Parts required:

3 of No. 2	16 of No. 37
6 " " 5	6 " " 37A
2 " " 10	2 " " 48A
2 " " 16	1 " " 52
2 " " 17	4 " " 90A
4 " " 22	6 " " 111c
6 " " 35	2 " " 125

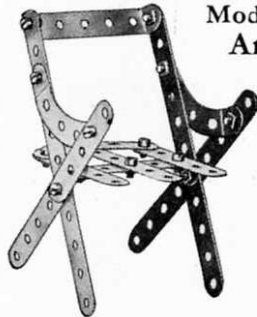
Model No. 0.36
Motor Boat



Parts required:

2 of No. 2	1 of No. 23
2 " " 5	7 " " 37
3 " " 10	1 " " 37A
1 " " 11	1 " " 111c

Model No. 0.37
Arm Chair

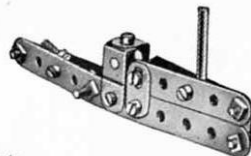


Parts required:

2 of No. 2	2
7 " " 5	5
14 " " 37	37
2 " " 48A	48A
3 " " 90A	90A

These Models can be built with MECCANO Outfit No. O (or No. OO and No. OOA)

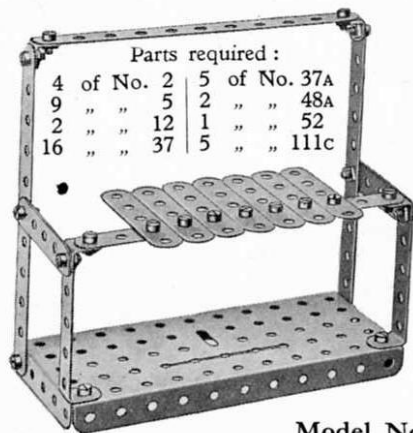
Model No. 0.38
Torpedo Boat



Parts required:

2 of No. 2	2
2 " " 5	5
3 " " 10	10
2 " " 11	11
2 " " 12	12
1 " " 17	17
11 " " 37	37
4 " " 37A	37A
5 " " 111c	111c

Model No. 0.39 Piano



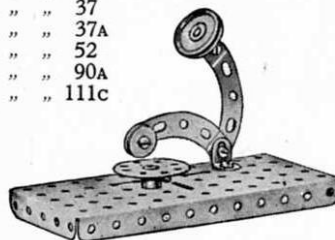
Parts required:

4 of No. 2	5 of No. 37A
9 " " 5	2 " " 48A
2 " " 12	1 " " 52
16 " " 37	5 " " 111c

Model No. 0.40
Gramophone

Parts required:

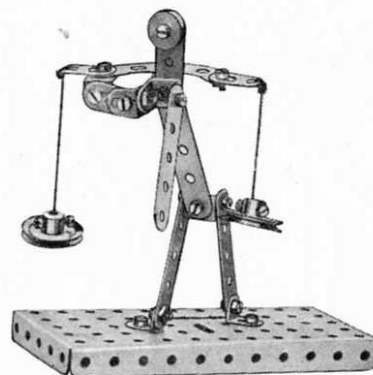
2 of No. 12	12
1 " " 22	22
1 " " 23	23
1 " " 24	24
3 " " 37	37
1 " " 37A	37A
1 " " 52	52
2 " " 90A	90A
3 " " 111c	111c



Model No. 0.41
Milk Maid

Parts required:

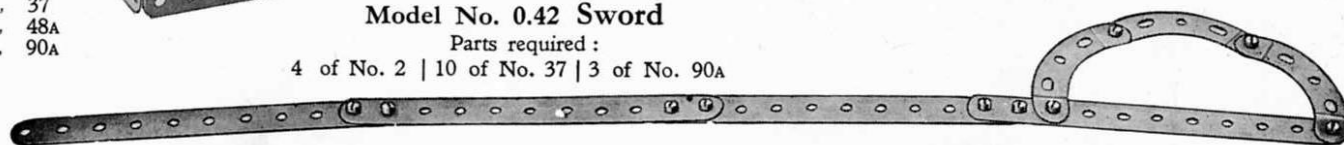
5 of No. 5	5
3 " " 10	10
2 " " 11	11
4 " " 12	12
2 " " 22	22
1 " " 23	23
14 " " 37	37
1 " " 37A	37A
1 " " 40	40
1 " " 52	52
1 " " 90A	90A
1 " " 111c	111c



Model No. 0.42 Sword

Parts required:

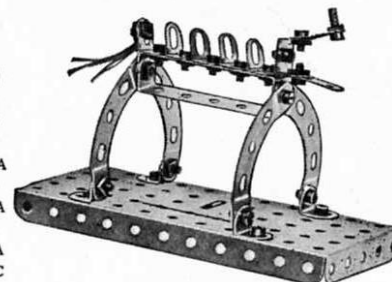
4 of No. 2	10 of No. 37	3 of No. 90A
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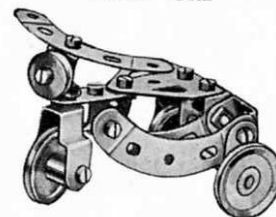
Model No. 0.43
Prehistoric Armadillo

Parts required:

4 of No. 10	10
1 " " 11	11
8 " " 12	12
16 " " 37	37
4 " " 37A	37A
1 " " 40	40
2 " " 48A	48A
1 " " 52	52
4 " " 90A	90A
4 " " 111c	111c



Model No. 0.44
Motor Cycle and
Side Car



Parts required:

1 of No. 5	10 of No. 37
4 " " 10	1 " " 37A
2 " " 11	1 " " 44
3 " " 12	3 " " 90A
1 " " 16	1 " " 111c
3 " " 22	1 " " 125
1 " " 23	1 " " 126A

These Models can be built with MECCANO Outfit No. 0 (or No. 00 and No. 00A)

**Model No. 0.45
Loud Speaker**



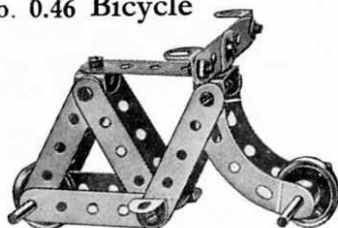
Parts
required :

1	of No. 11
1	" " 23
1	" " 24
6	" " 37
1	" " 37A
4	" " 90A
2	" " 111c
2	" " 126

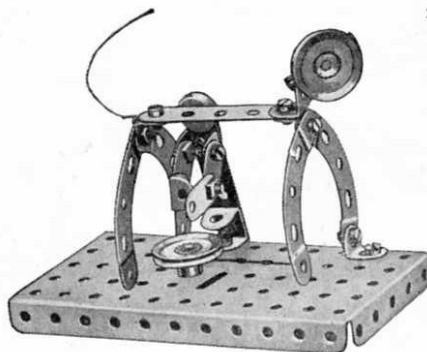
Model No. 0.46 Bicycle

Parts
required :

9	of No. 5
2	" " 11
5	" " 12
2	" " 17
2	" " 22
11	" " 37



**Model No. 0.47
Cow and Milkmaid**



Parts
required :

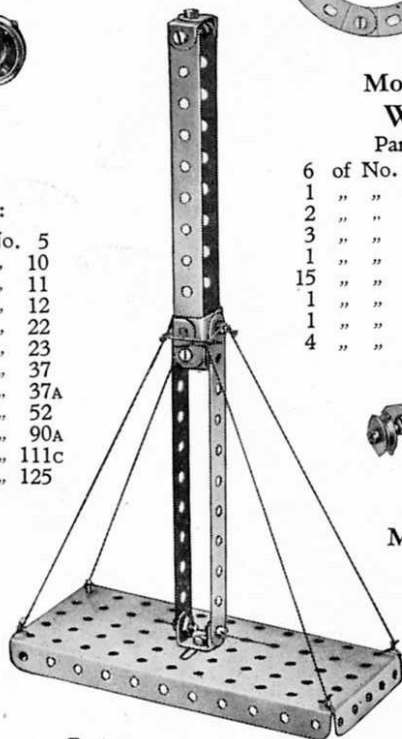
2	of No. 5
4	" " 10
2	" " 11
5	" " 12
2	" " 22
1	" " 23
16	" " 37
2	" " 37A
1	" " 52
4	" " 90A
4	" " 111c
1	" " 125

Model No. 0.48 Meccano Boy

Parts required :

2	of No. 2	1	of No. 24
2	" " 5	16	" " 37
4	" " 10	1	" " 40
2	" " 11	1	" " 52
6	" " 12	1	" " 57c
1	" " 22	1	" " 111c

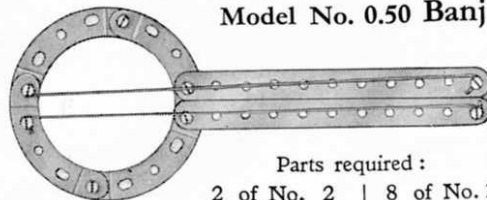
**Model No. 0.49
Telescopic Mast**



Parts
required :

4	of No. 2
2	" " 11
6	" " 12
11	" " 37
1	" " 40
1	" " 52

Model No. 0.50 Banjo



Parts required :

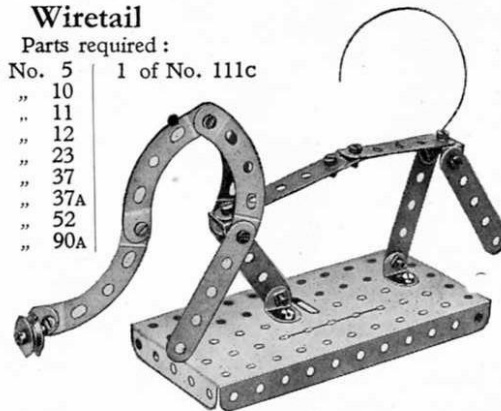
2	of No. 2	8	of No. 37
1	" " 10	1	" " 40
		4	" " 90A

Model No. 0.51

Wiretail

Parts required :

6	of No. 5	1	of No. 111c
1	" " 10		
2	" " 11		
3	" " 12		
1	" " 23		
15	" " 37		
1	" " 37A		
1	" " 52		
4	" " 90A		



Parts
required :

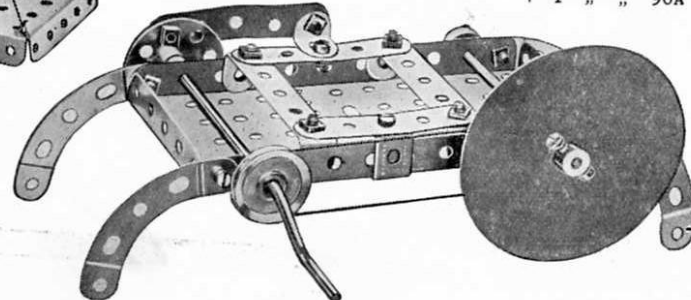
4	of No. 37
4	" " 90A

**Model No. 0.53
Catapult**



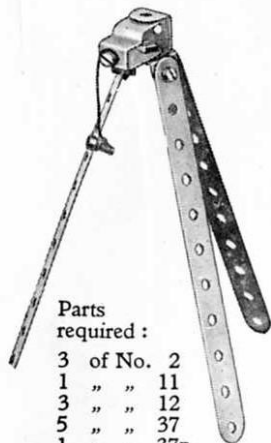
Model No. 0.52 Bacon Slicing Machine

3	of No. 5	1	of No. 19s	12	of No. 37
2	" " 11	2	" " 22	2	" " 37A
1	" " 12	1	" " 23	1	" " 40
1	" " 16	1	" " 24	2	" " 48A
		1	" " 35	1	" " 52
				4	" " 90A



These Models can be built with MECCANO Outfit No. O (or No. OO and No. OOA)

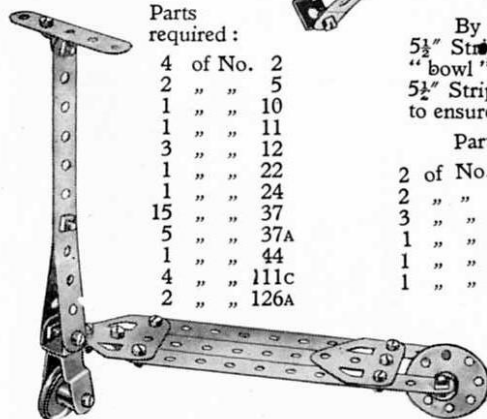
Model No. 0.54
Camera



Parts
required :

3	of No. 2
1	" " 11
3	" " 12
5	" " 37
1	" " 37B
1	" " 40
1	" " 44

Model No. 0.55
Scooter



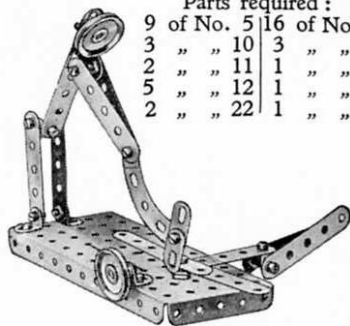
Parts
required :

4	of No. 2
2	" " 5
1	" " 10
1	" " 11
3	" " 12
1	" " 22
1	" " 24
15	" " 37
5	" " 37A
1	" " 44
4	" " 111c
2	" " 126A

Model No. 0.56
The Execution

Parts required :

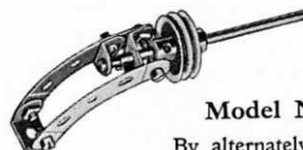
9	of No. 5	16	of No. 37
3	" " 10	3	" " 37A
2	" " 11	1	" " 48A
5	" " 12	1	" " 52
2	" " 22	1	" " 90A



Model No. 0.57 Pistol

Parts required :

2	of No. 11	1	of No. 35
1	" " 12	5	" " 37
1	" " 16	2	" " 90A
2	" " 22		

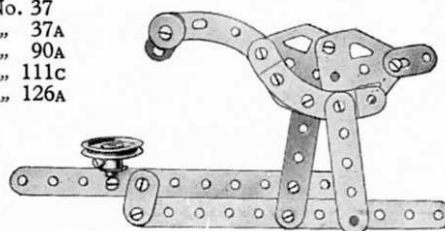


Model No. 0.59 Pecking Hen

By alternately pushing and pulling the lower of the $5\frac{1}{2}$ " Strips, the hen can be made to peck vigorously at the "bowl" (a 1" Pulley). The Bolts used for securing the $5\frac{1}{2}$ " Strips together should be lock-nutted, care being taken to ensure that no "side play" is permitted.

Parts required :

2	of No. 2	11	of No. 37
2	" " 5	5	" " 37A
3	" " 10	2	" " 90A
1	" " 12	2	" " 111c
1	" " 22	2	" " 126A
1	" " 23		

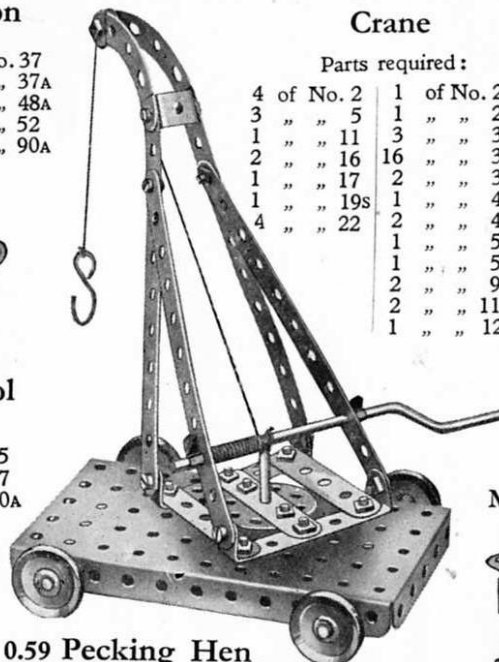


Model No. 0.58

Crane

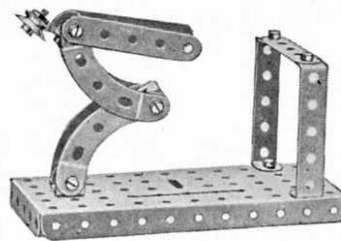
Parts required :

4	of No. 2	1	of No. 23
3	" " 5	1	" " 24
1	" " 11	3	" " 35
2	" " 16	16	" " 37
1	" " 17	2	" " 37A
1	" " 19s	1	" " 40
4	" " 22	2	" " 48A
		1	" " 52
		1	" " 57c
		2	" " 90A
		2	" " 111c
		1	" " 125



Model No. 0.60

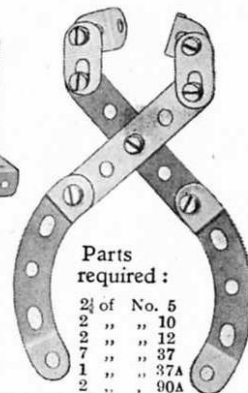
Hurdler



Parts required :

3	of No. 5	1	of No. 37A
1	" " 10	2	" " 48A
2	" " 11	1	" " 52
2	" " 12	4	" " 90A
1	" " 23	1	" " 111c
12	" " 37		

Model No. 0.62
Pliers



Parts
required :

2	of No. 5
1	" " 10
1	" " 12
1	" " 37
1	" " 37A
1	" " 90A

Model No. 0.63

Centrifugal Engine Governor

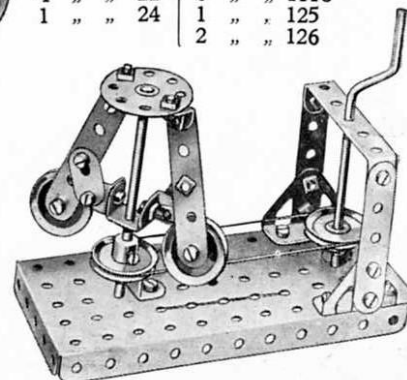
Parts required :

4	of No. 5	3	of No. 35
2	" " 10	16	" " 37
1	" " 11	6	" " 37A
4	" " 12	1	" " 40
1	" " 16	1	" " 48A
1	" " 19s	1	" " 52
4	" " 22	6	" " 111c
1	" " 24	1	" " 125
		2	" " 126



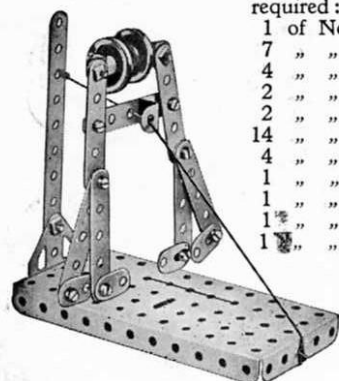
Parts
required :

4	of No. 10
1	" " 11
2	" " 12
1	" " 17
3	" " 22
6	" " 37
3	" " 37A
1	" " 44
2	" " 111c
1	" " 126A



These Models can be built with MECCANO Outfit No. O (or No. OO and No. OOA)

Model No. 0.64 Wrestlers



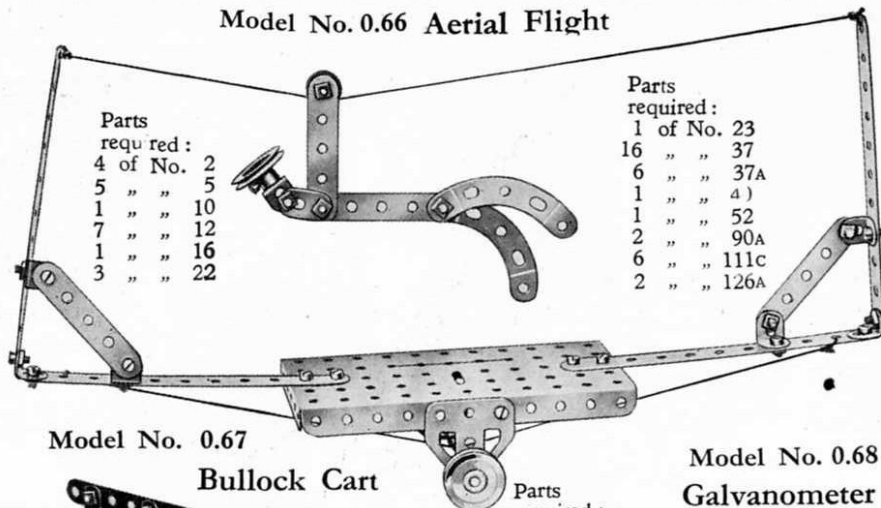
Parts
required :
1 of No. 2
7 " " 5
4 " " 10
2 " " 12
2 " " 22
14 " " 37
4 " " 37A
1 " " 40
1 " " 52
1 " " 125
1 " " 126A

Model No. 0.65 A Chase

Parts required :
1 of No. 5 16 of No. 37
1 " " 10 1 " " 37A
2 " " 11 1 " " 52
7 " " 12 4 " " 90A
1 " " 22 2 " " 111c
1 " " 23 2 " " 126A



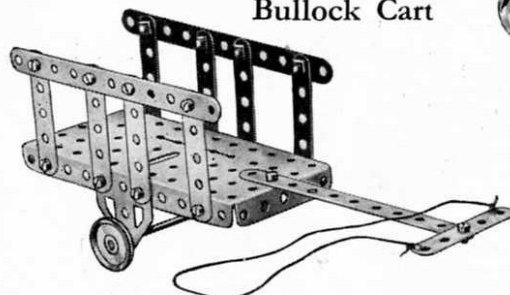
Model No. 0.66 Aerial Flight



Parts
required :
4 of No. 2
5 " " 5
1 " " 10
7 " " 12
1 " " 16
3 " " 22

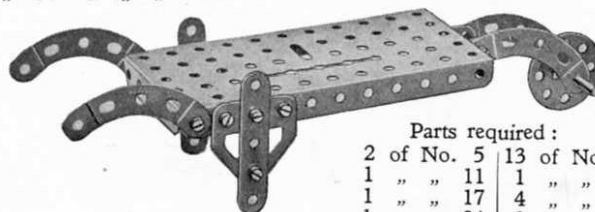
Parts
required :
1 of No. 23
16 " " 37
6 " " 37A
1 " " 4)
1 " " 52
2 " " 90A
6 " " 111c
2 " " 126A

Model No. 0.67 Bullock Cart



Parts required :
3 of No. 2 2 of No. 37A
9 " " 5 1 " " 40
1 " " 16 1 " " 52
2 " " 22 2 " " 111c
16 " " 37 2 " " 126A

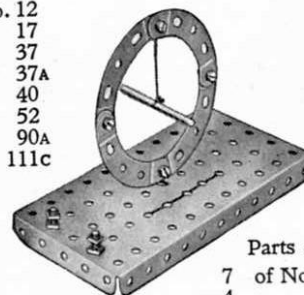
Model No. 0.69 Coster's Barrow



Parts required :
2 of No. 5 13 of No. 37
1 " " 11 1 " " 52
1 " " 17 4 " " 90A
1 " " 24 2 " " 126A

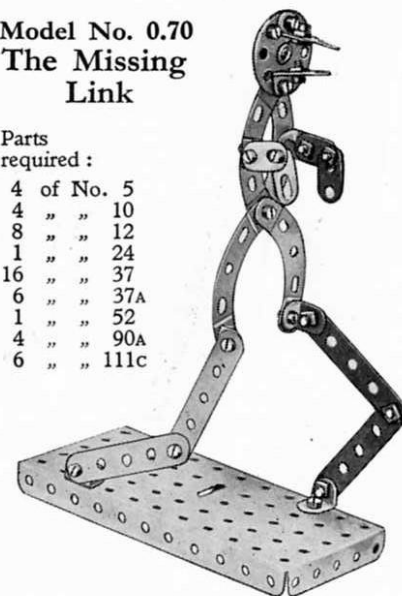
Model No. 0.68 Galvanometer

Parts
required :
1 of No. 12
1 " " 17
5 " " 37
4 " " 37A
1 " " 40
1 " " 52
4 " " 90A
2 " " 111c



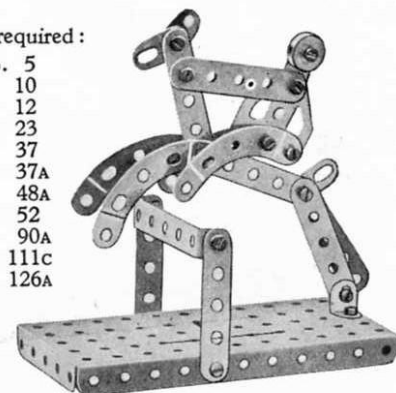
Model No. 0.70 The Missing Link

Parts
required :
4 of No. 5
4 " " 10
8 " " 12
1 " " 24
16 " " 37
6 " " 37A
1 " " 52
4 " " 90A
6 " " 111c



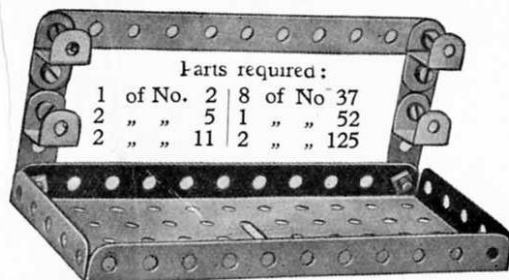
Model No. 0.71 Steeple-chaser

Parts required :
7 of No. 5
4 " " 10
1 " " 12
1 " " 23
1 " " 37
13 " " 37A
1 " " 48A
1 " " 52
4 " " 90A
1 " " 111c
1 " " 126A



These Models can be built with MECCANO Outfit No. O (or No. OO and No. OOA)

Model No. 072 Pen Rack



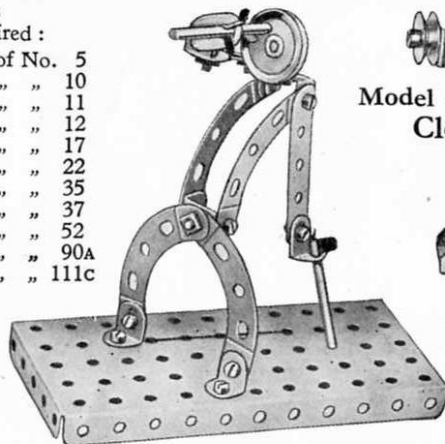
Parts required:

1 of No. 2	8 of No. 37
2 " " 5	1 " " 52
2 " " 11	2 " " 125

Parts required:

1 of No. 5
2 " " 10
2 " " 11
6 " " 12
2 " " 17
1 " " 22
3 " " 35
15 " " 37
1 " " 52
4 " " 90A
1 " " 111c

Model No. 076 Coast Guard



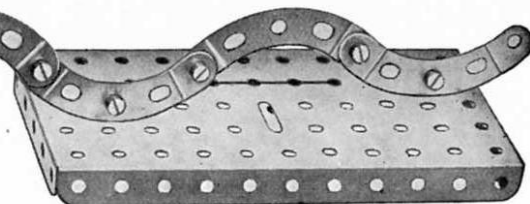
Model No. 079 Clock



Parts required:

2 of No. 11
2 " " 12
1 " " 17
1 " " 22
1 " " 24
5 " " 37
1 " " 111c
2 " " 126
1 of No. 57c
2 " " 90A
2 " " 125
2 " " 126

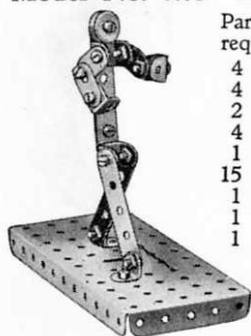
Model No. 078 Snake



Parts required:

3 of No. 12	1 of No. 37A
1 " " 23	1 " " 52
8 " " 37	4 " " 90A
	1 of No. 111c

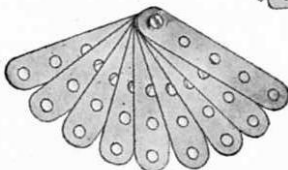
Model No. 073 Boxer



Parts required:

4 of No. 5
4 " " 10
2 " " 11
4 " " 12
1 " " 23
15 " " 37
1 " " 37A
1 " " 52
1 " " 111c

Model No. 075 Fan



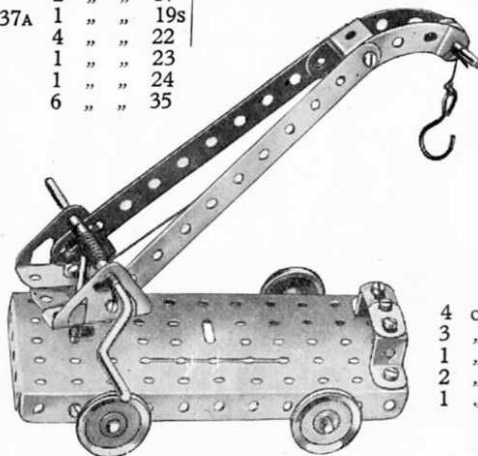
Parts required:

9 of No. 5	2 of No. 37A
1 of No. 111c	

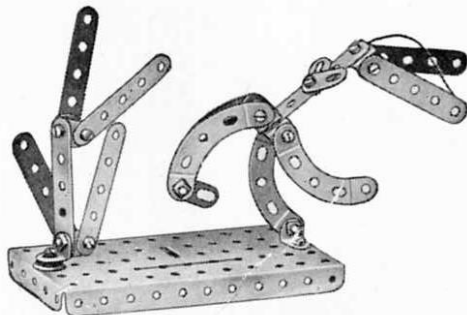
Model No. 077 Break-Down Crane

Parts required:

2 of No. 2	13 of No. 37	1 of No. 57c
2 " " 10	1 " " 40	2 " " 90A
1 " " 11	1 " " 48A	2 " " 125
2 " " 16	1 " " 52	2 " " 126
2 " " 17		
1 " " 19s		
4 " " 22		
1 " " 23		
1 " " 24		
6 " " 35		



Model No. 074 Horseman's Fall



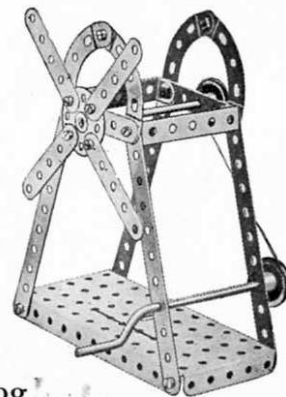
Parts required:

8 of No. 5
3 " " 10
2 " " 11
8 " " 12
1 " " 23
16 " " 37
4 " " 37A
1 " " 40
1 " " 52
4 " " 90A
4 " " 111c

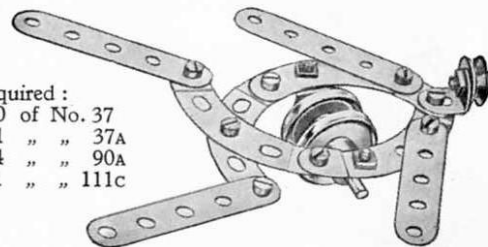
Model No. 080 Windmill

Parts required:

4 of No. 2
6 " " 5
1 " " 16
1 " " 19s
2 " " 22
1 " " 24
14 " " 37
1 " " 40
2 " " 48A
1 " " 52
4 " " 90A



Model No. 081 Frog

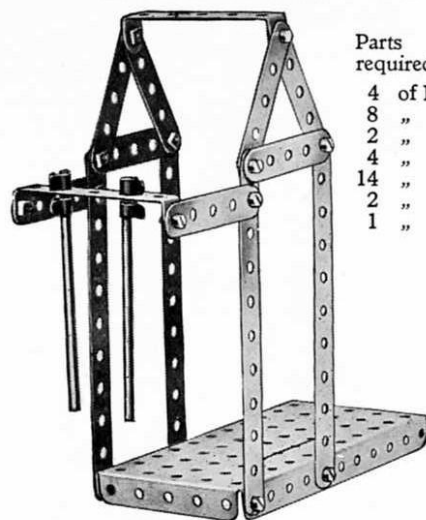


Parts required:

4 of No. 5	10 of No. 37
3 " " 12	1 " " 37A
1 " " 17	4 " " 90A
2 " " 22	1 " " 111c
1 " " 23	

These Models can be built with MECCANO Outfit No. O (or No. OO and No. OOA)

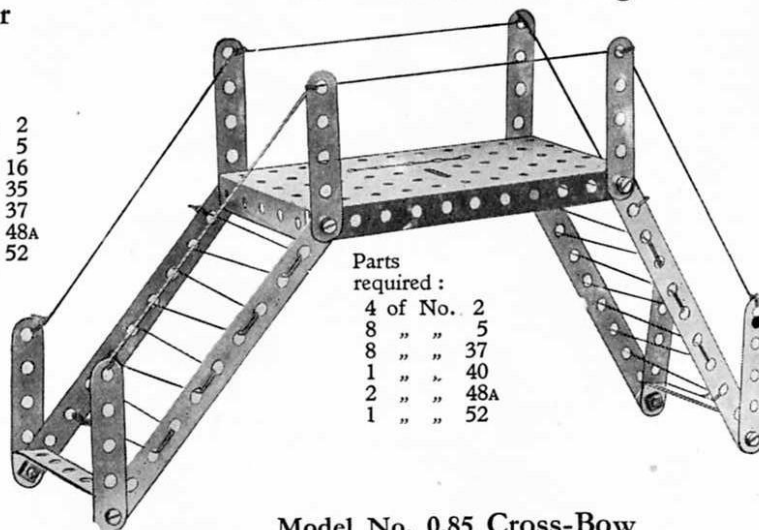
Model No. 0.82
Pneumatic Grain Elevator



Parts
required :

4	of No.	2
8	" "	5
2	" "	16
4	" "	35
14	" "	37
2	" "	48A
1	" "	52

Model No. 0.84 Footbridge



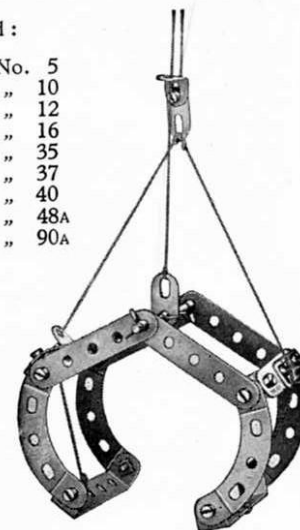
Parts
required :

4	of No.	2
8	" "	5
8	" "	37
1	" "	40
2	" "	48A
1	" "	52

Model No. 0.86 Crane Grab

Parts
required :

6	of No.	5
2	" "	10
7	" "	12
1	" "	16
6	" "	35
15	" "	37
1	" "	40
2	" "	48A
4	" "	90A



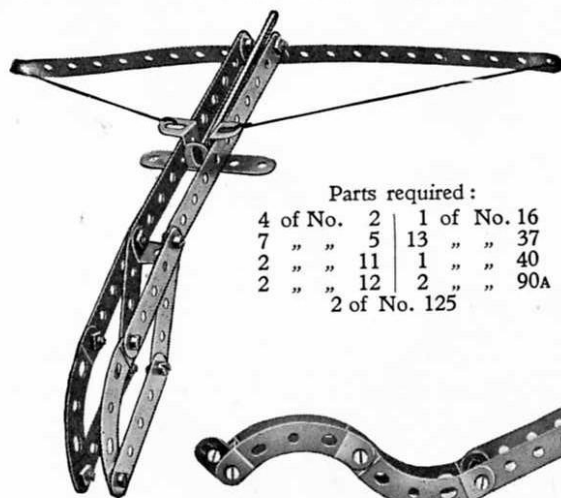
Model No. 0.83
Baboon



Parts
required :

1	of No.	2
6	" "	5
1	" "	10
2	" "	11
3	" "	12
1	" "	22
12	" "	37
1	" "	52
4	" "	90A
1	" "	111c

Model No. 0.85 Cross-Bow



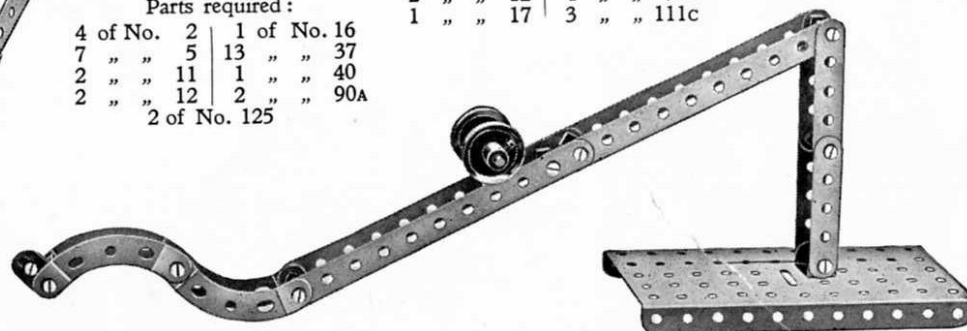
Parts required :

4	of No.	2	1	of No.	16
7	" "	5	13	" "	37
2	" "	11	1	" "	40
2	" "	12	2	" "	90A
2 of No. 125					

Model No. 0.87 Switchback

Parts required :

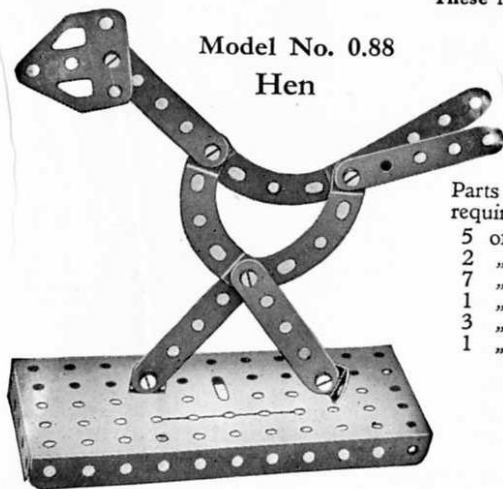
4	of No.	2	2	of No.	22
4	" "	5	16	" "	37
1	" "	10	3	" "	37A
2	" "	11	1	" "	52
2	" "	12	4	" "	90A
1	" "	17	3	" "	111c



These Models can be built with MECCANO Outfit No. O (or No. OO and No. OOA)

Model No. 0.88

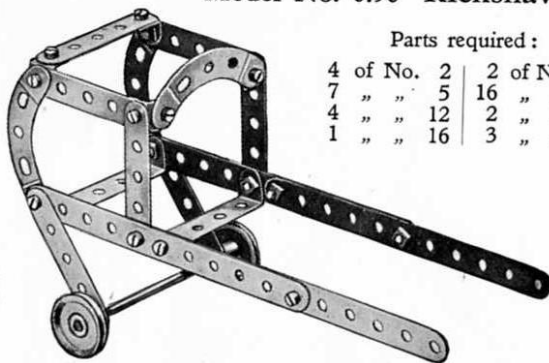
Hen



Parts
required :

5	of No.	5
2	" "	12
7	" "	37
1	" "	52
3	" "	90A
1	" "	126A

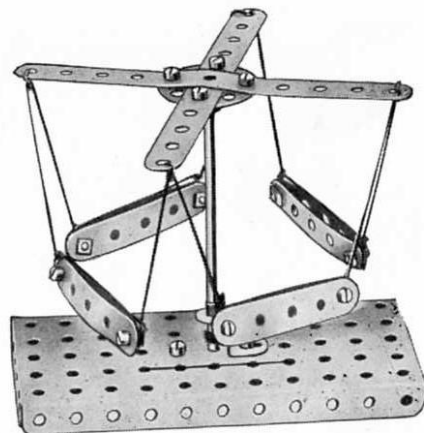
Model No. 0.90 Rickshaw



Parts required :

4	of No.	2	2	of No.	22
7	" "	5	16	" "	37
4	" "	12	2	" "	48A
1	" "	16	3	" "	90A

Model No. 0.93 Fly Boats



Parts required :

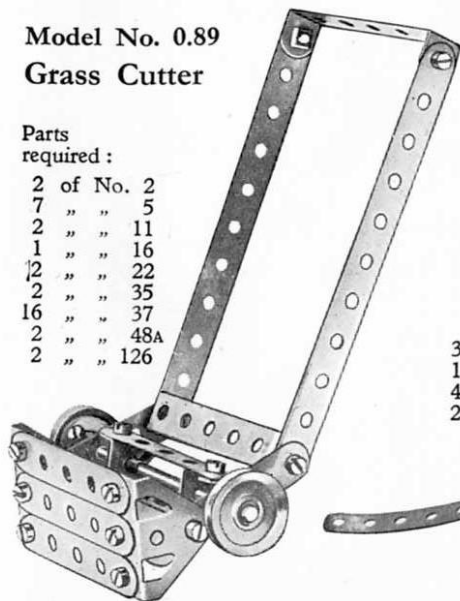
2	of No.	2	13	of No.	37
8	" "	5	1	" "	40
1	" "	16	1	" "	52
1	" "	24	1	" "	125

Model No. 0.89

Grass Cutter

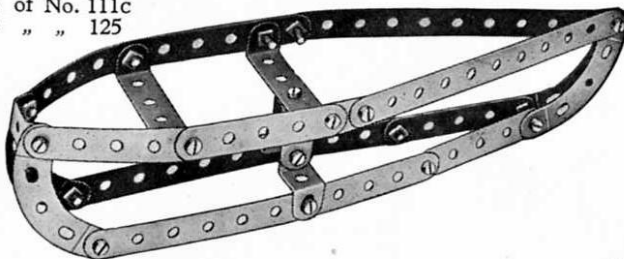
Parts
required :

2	of No.	2
7	" "	5
2	" "	11
1	" "	16
2	" "	22
2	" "	35
16	" "	37
2	" "	48A
2	" "	126



Parts required :

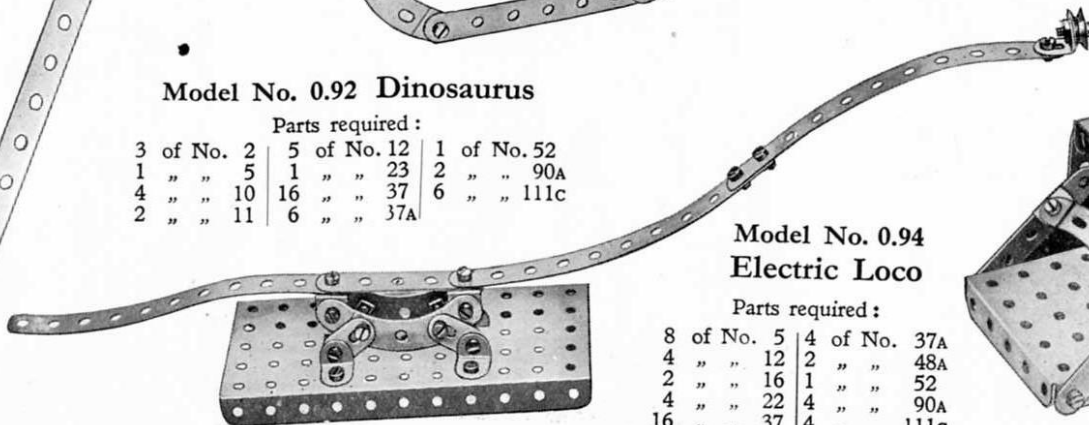
4	of No.	2	4	of No.	111c
6	" "	5	2	" "	125
2	" "	10			
1	" "	11			
16	" "	37			
4	" "	37A			
1	" "	44			
2	" "	48A			
4	" "	90A			



Model No. 0.92 Dinosaur

Parts required :

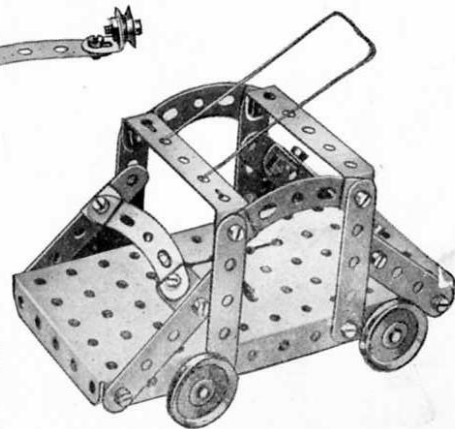
3	of No.	2	5	of No.	12	1	of No.	52
1	" "	5	1	" "	23	2	" "	90A
4	" "	10	16	" "	37	6	" "	111c
2	" "	11	6	" "	37A			



Model No. 0.94
Electric Loco

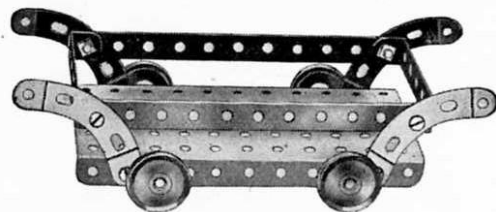
Parts required :

8	of No.	5	4	of No.	37A
4	" "	12	2	" "	48A
2	" "	16	1	" "	52
4	" "	22	4	" "	90A
16	" "	37	4	" "	111c



These Models can be built with MECCANO Outfit No. 0 (or No. 00 and No. 00A)

Model No. 0.95 Trolley



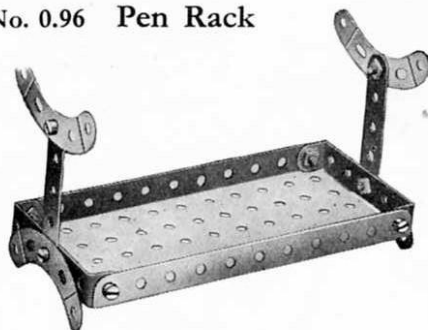
Parts required :

2 of No. 2	8 of No. 37
2 " " 16	2 " " 48A
4 " " 22	1 " " 52
4 of No. 90A	

Model No. 0.96 Pen Rack

Parts required :

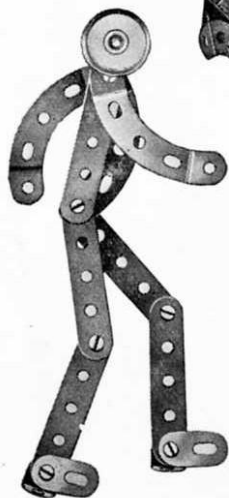
2 of No. 5
4 " " 37
1 " " 52
4 " " 90A



Model No. 0.97 Walking Man

Parts required :

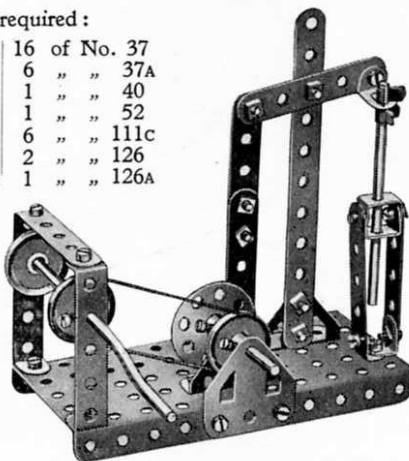
5 of No. 5
3 " " 10
2 " " 12
1 " " 22
7 " " 37
3 " " 90A



Model No. 0.98 Pump

Parts required :

1 of No. 2	16 of No. 37
6 " " 5	6 " " 37A
2 " " 11	1 " " 40
3 " " 12	1 " " 52
1 " " 16	6 " " 111c
1 " " 17	2 " " 126
3 " " 19s	1 " " 126A
1 " " 22	
1 " " 24	
2 " " 35	

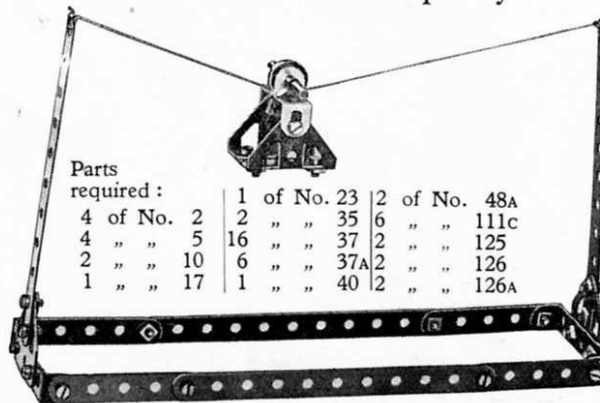


The connecting Strip is pivoted by Bolts and Nuts at one end to the Bush Wheel and at the other end to the cross beam. The latter is pivoted by the same means to the upright.

Model No. 0.99 Aerial Ropeway

Parts required :

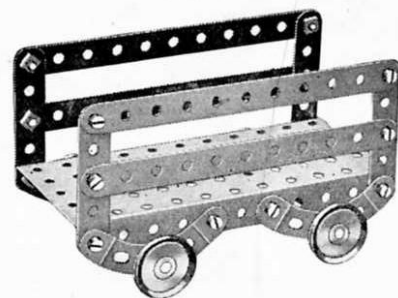
4 of No. 2	1 of No. 23	2 of No. 48A
4 " " 5	2 " " 35	6 " " 111c
2 " " 10	6 " " 37	2 " " 125
1 " " 17	1 " " 37A	2 " " 126
	1 " " 40	2 " " 126A



Model No. 0.100 Luggage Truck

Parts required :

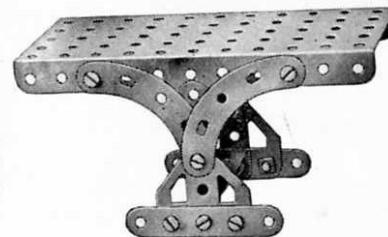
4 of No. 2
4 " " 5
2 " " 16
4 " " 22
16 " " 37
1 " " 52
4 " " 90A



Model No. 0.101 Drafting Table

Parts required :

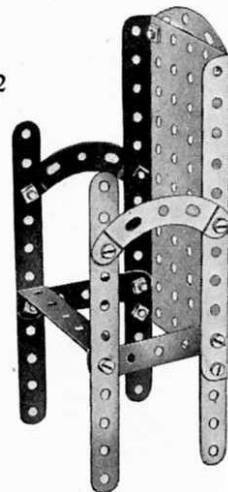
4 of No. 5
12 " " 37
1 " " 48A
1 " " 52
4 " " 90A
2 " " 126A



Model No. 0.102 Arm Chair

Parts required :

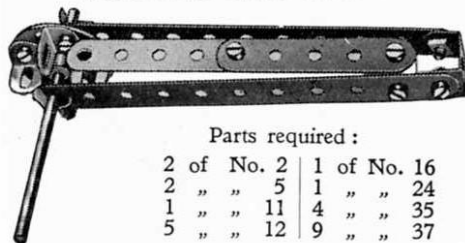
2 of No. 2
4 " " 5
12 " " 37
1 " " 48A
1 " " 52
3 " " 90A



These Models can be built with MECCANO Outfit No. O (or No. OO and No. OOA)

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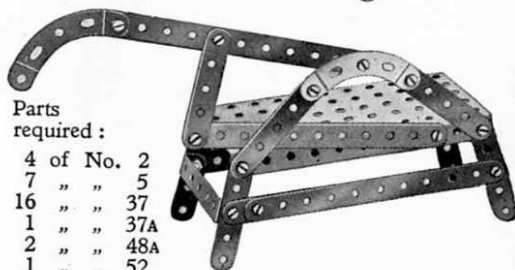
Model No. 0.103 Rattle



Parts required :

2 of No. 2	1 of No. 16
2 " " 5	1 " " 24
1 " " 11	4 " " 35
5 " " 12	9 " " 37

Model No. 0.104 Shearing Machine



Parts required :

4 of No. 2	5
7 " " 5	
16 " " 37	
1 " " 37A	
2 " " 48A	
1 " " 52	
2 " " 90A	
1 " " 111c	

Model No. 0.105 Anchor

Parts required :

2 of No. 2	1 of No. 11
1 " " 5	10 " " 37
	1 " " 57c
	2 " " 90A
	2 " " 126A



Model No. 0.106

Portal

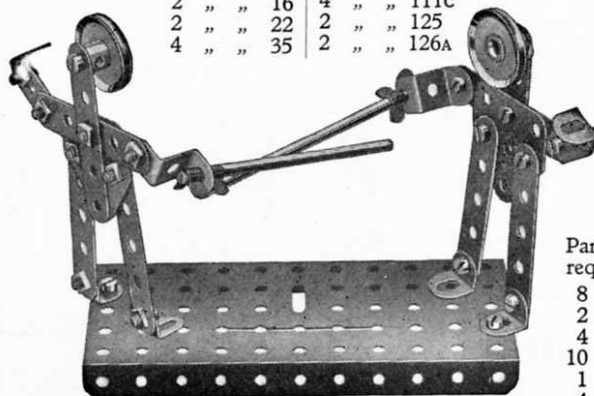
Parts required :

4 of No. 2	
2 " " 11	
8 " " 12	
1 " " 22	
16 " " 37	
6 " " 37A	
2 " " 48A	
1 " " 52	
4 " " 90A	
6 " " 111c	

Model No. 0.107
The Fencers

Parts required :

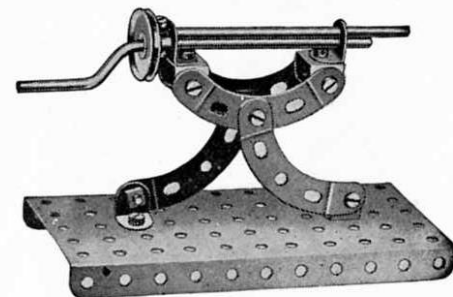
8 of No. 5	16 of No. 37
2 " " 10	4 " " 37A
6 " " 12	1 " " 52
2 " " 16	4 " " 111c
2 " " 22	2 " " 125
4 " " 35	2 " " 126A



Parts required :

8 of No. 5	
2 " " 16	
4 " " 22	
10 " " 37	
1 " " 52	
4 " " 90A	

Model No. 0.108 Machine Gun



Parts required :

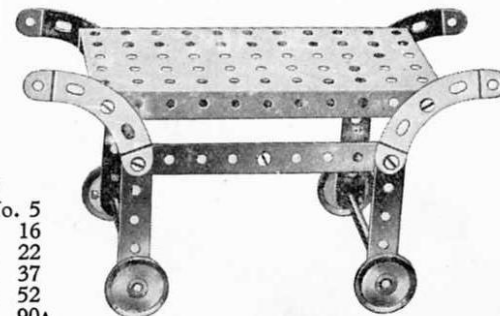
2 of No. 11	1 of No. 22
4 " " 12	12 " " 37
1 " " 16	1 " " 52
1 " " 19s	4 " " 90A

Model No. 0.109
Single Sheave Pulley Block

Parts required :

2 of No. 5	7 of No. 37A
1 " " 23	1 " " 57c
	3 of No. 111c

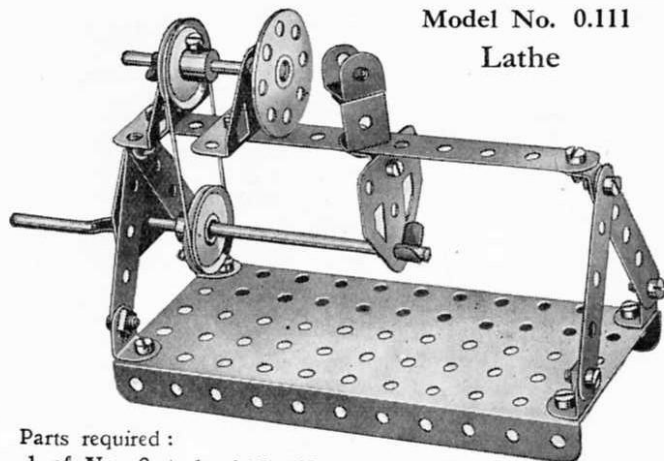
Model No. 0.110 Tea Wagon



These Models can be built with MECCANO Outfit No. O (or No. OO and No. OOA)

Model No. 0.111

Lathe

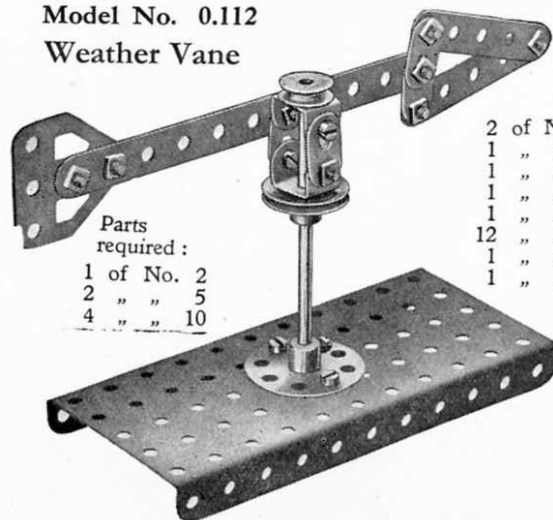


Parts required :

1 of No. 2	1 of No. 19s	
4 " " 5	2 " " 22	1 of No. 40
2 " " 11	1 " " 24	1 " " 52
7 " " 12	3 " " 35	2 " " 126
1 " " 17	16 " " 37	2 " " 126A

Model No. 0.112

Weather Vane

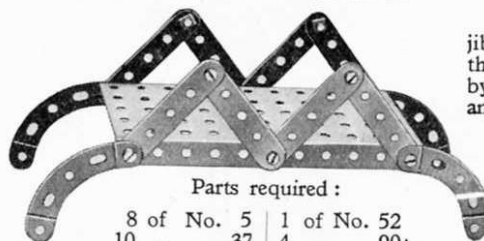


Parts required :

1 of No. 2
2 " " 5
4 " " 10

2 of No. 11
1 " " 16
1 " " 22
1 " " 23
1 " " 24
1 " " 37
1 " " 52
1 " " 126A

Model No. 0.113 Viaduct



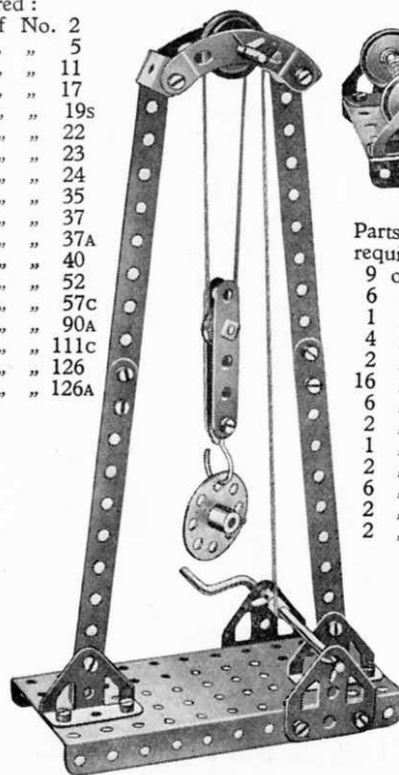
Parts required :

8 of No. 5	1 of No. 52
10 " " 37	4 " " 90A

Model No. 0.114 Pulley Block

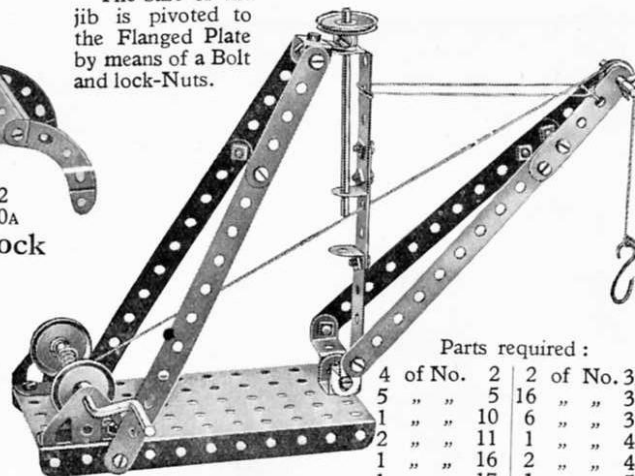
Parts required :

4 of No. 2
2 " " 5
2 " " 11
1 " " 17
1 " " 19s
1 " " 22
1 " " 23
1 " " 24
5 " " 35
16 " " 37
4 " " 37A
1 " " 40
1 " " 52
1 " " 57c
2 " " 90A
4 " " 111c
4 " " 126
2 " " 126A



Model No. 0.115 Derricking Crane

The base of the jib is pivoted to the Flanged Plate by means of a Bolt and lock-Nuts.



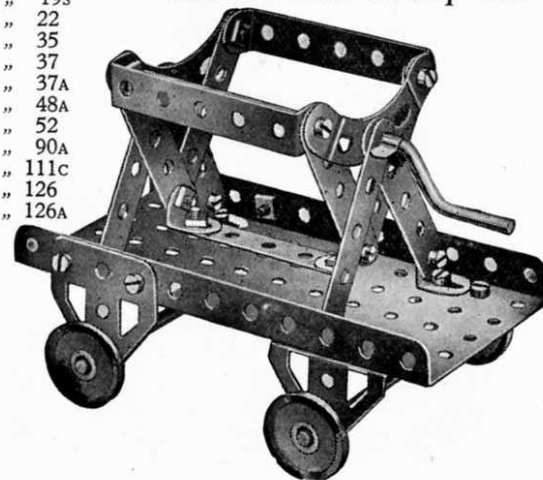
Parts required :

4 of No. 2	2 of No. 35
5 " " 5	16 " " 37
1 " " 10	6 " " 37A
2 " " 11	1 " " 40
1 " " 16	2 " " 48A
1 " " 17	1 " " 52
1 " " 19s	1 " " 57c
3 " " 22	6 " " 111c
1 " " 23	2 " " 125
	2 " " 126

Parts required :

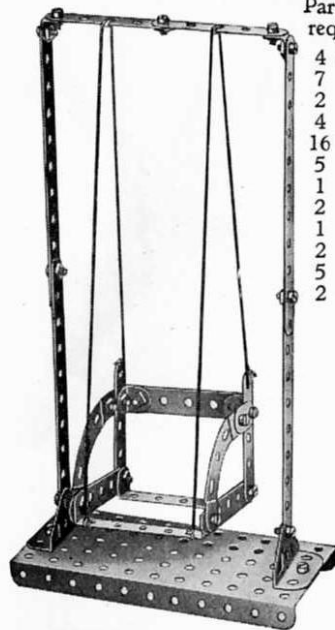
9 of No. 5
6 " " 12
1 " " 19s
4 " " 22
2 " " 35
16 " " 37
6 " " 37A
2 " " 48A
1 " " 52
2 " " 90A
6 " " 111c
2 " " 126
2 " " 126A

Model No. 0.116 Dump Car



These Models can be built with MECCANO Outfit No. O (or No. OO and No. OOA)

Model No. 0.117 Swing



Parts required:

4 of No.	2
7 " "	5
2 " "	10
4 " "	12
16 " "	37
5 " "	37A
1 " "	40
2 " "	48A
1 " "	52
1 " "	90A
5 " "	111c
2 " "	126

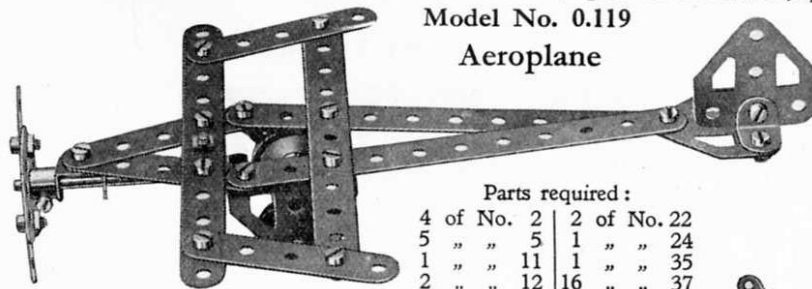
Model No. 0.118 Plough

Parts required:

2 of No.	2	3 of No.	12
1 " "	5	1 " "	17
2 " "	10	1 " "	22
2 " "	11	15 " "	37
		1 " "	44
		1 " "	48A
		4 " "	90A



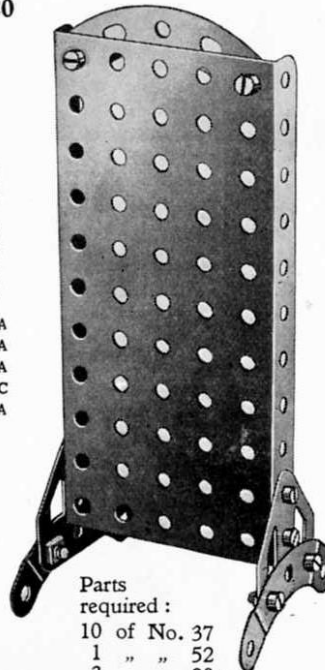
Model No. 0.119
Aeroplane



Parts required:

4 of No.	2	2 of No.	22
5 " "	5	1 " "	24
1 " "	11	1 " "	35
2 " "	12	16 " "	37
1 " "	16	2 " "	37A
1 " "	17	2 " "	111c
		2 " "	126
		1 " "	126A

Model No. 0.121
Notice Board



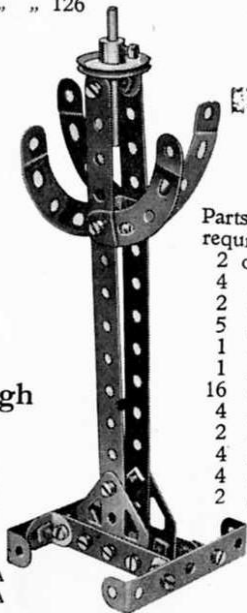
Parts required:

10 of No.	37
1 " "	52
3 " "	90A
2 " "	126A

Model
No. 0.120
Hat
Rack

Parts required:

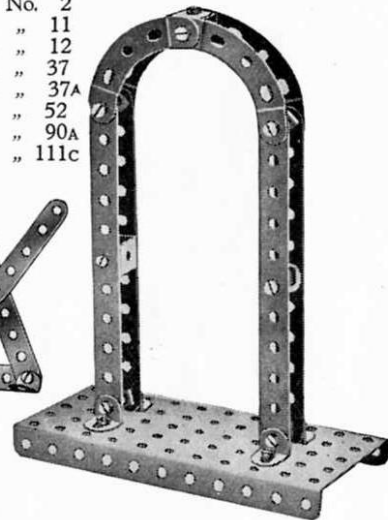
2 of No.	2
4 " "	5
2 " "	11
5 " "	12
1 " "	17
1 " "	22
16 " "	37
4 " "	37A
2 " "	48A
4 " "	90A
4 " "	111c
2 " "	126A



Parts required:

4 of No.	2
2 " "	11
6 " "	12
16 " "	37
3 " "	37A
1 " "	52
4 " "	90A
3 " "	111c

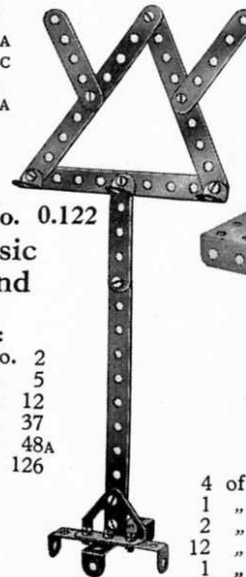
Model No. 0.123 Arch



Model No. 0.122
Music
Stand

Parts required:

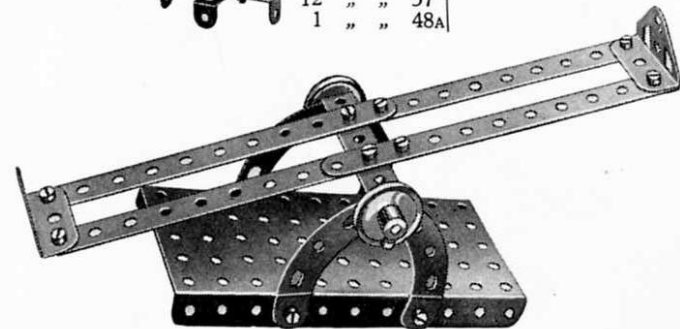
1 of No.	2
9 " "	5
3 " "	12
12 " "	37
2 " "	48A
1 " "	126



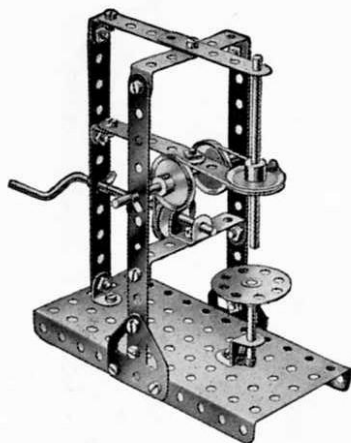
Model No. 0.124
See-Saw

Parts required:

4 of No.	2	1 of No.	52
1 " "	16	4 " "	90A
2 " "	22	2 " "	126
1 " "	37		
1 " "	48A		



Model No. 0.125 Drilling Machine

Parts
required :

3	of No.	2
4	"	5
2	"	11
3	"	12
1	"	16
1	"	17
1	"	19s
4	"	22
1	"	24
6	"	35
16	"	37
6	"	37A
1	"	40
2	"	48A
1	"	52
6	"	111c
1	"	125
2	"	126

Model No. 0.127 Scales



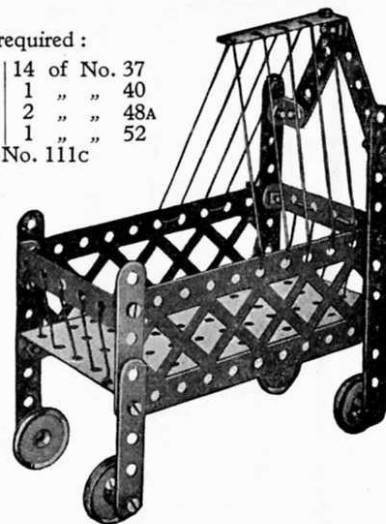
Parts required :

2	of No.	2	2	of No.	48A
9	"	37	1	"	52
1	"	37A	4	"	90A
1	"	40	1	"	126

Model No. 0.129 Cot

Parts required :

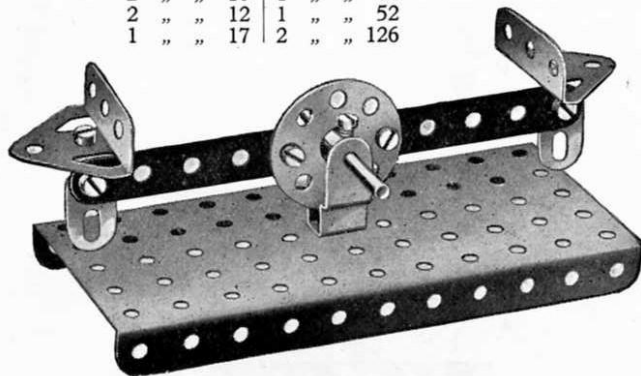
4	of No.	2	14	of No.	37
7	"	5	1	"	40
3	"	12	2	"	48A
4	"	22	1	"	52
4 of No. 111c					



Model No. 0.126 Counter Scales

Parts required :

1	of No.	2	7	of No.	37
2	"	10	1	"	44
2	"	12	1	"	52
1	"	17	2	"	126

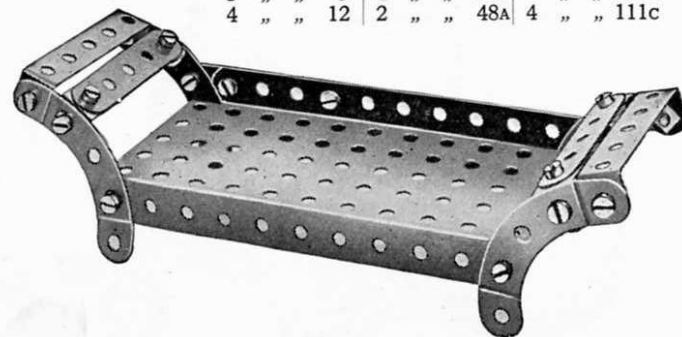
Model No. 0.128
Single Sheave
Pulley BlockParts
required :

1	of No.	23
12	"	37A
1	"	57c
4	"	111c
2	"	126A

Model No. 0.130 Couch

Parts required :

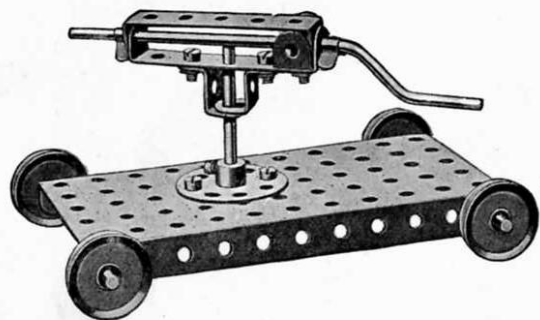
1	of No.	2	16	of No.	37	1	of No.	52
3	"	5	4	"	37A	4	"	90A
4	"	12	2	"	48A	4	"	111c



These Models can be built with MECCANO Outfit No. O (or No. OO and No. OOA)

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Model No. 0.131 Rock Drill



Parts required :

1 of No. 11	4 of No. 22	2 of No. 48A
2 " " 16	1 " " 24	1 " " 52
1 " " 17	2 " " 35	2 " " 125
1 " " 19s	5 " " 37	

Model No. 0.133 Prancing Horse

Parts required :

6 of No. 5	
4 " " 12	
1 " " 17	
1 " " 19s	
4 " " 22	
1 " " 24	
16 " " 37	
4 " " 37A	
1 " " 40	
1 " " 44	
1 " " 52	
1 " " 90A	
4 " " 111c	
2 " " 125	
1 " " 126	
1 " " 126A	

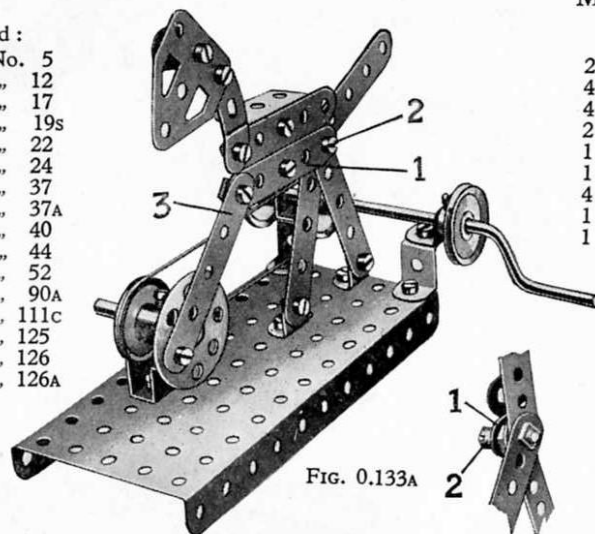


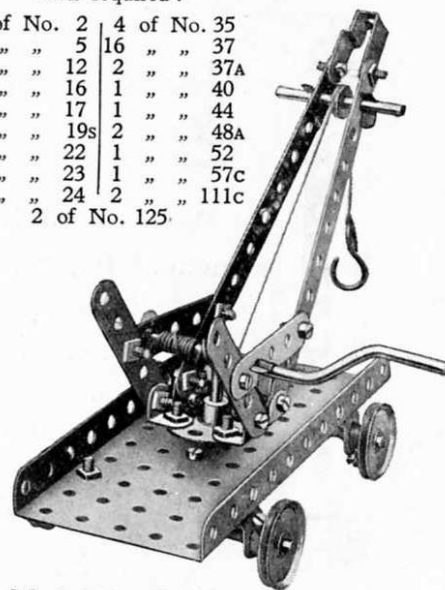
FIG. 0.133A

The Strip 1 forming part of the body is free to move about the Bolt 2, but two Nuts on the latter secure the rear legs and tail rigidly together. The arrangement of the various Strips about this Bolt 2 is shown more clearly in 0.133A. The Strip 3 is free to move at each end about pivots formed from Nuts and Bolts.

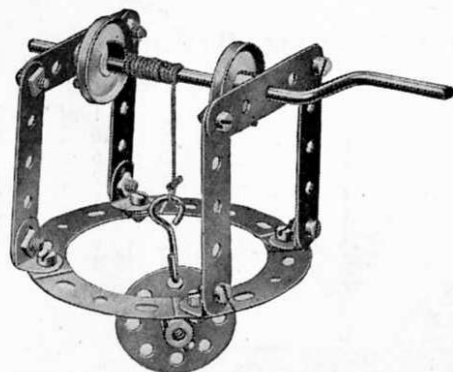
Model No. 0.135 Swivelling Crane

Parts required :

2 of No. 2	4 of No. 35
4 " " 5	16 " " 37
4 " " 12	2 " " 37A
2 " " 16	1 " " 40
1 " " 17	1 " " 44
1 " " 19s	2 " " 48A
4 " " 22	1 " " 52
1 " " 23	1 " " 57c
1 " " 24	2 " " 111c
2 of No. 125	



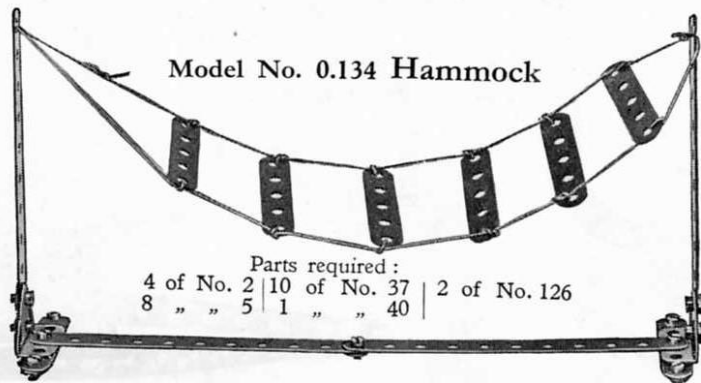
Model No. 0.132 Well Windlass



Parts required :

6 of No. 5	2 of No. 22	1 of No. 40
4 " " 12	1 " " 24	1 " " 57c
1 " " 19s	12 " " 37	4 " " 90A

Model No. 0.134 Hammock



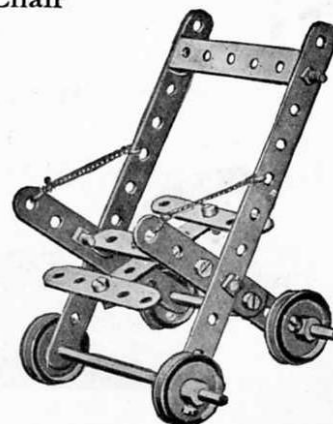
Parts required :

4 of No. 2	10 of No. 37	2 of No. 126
8 " " 5	1 " " 40	

Model No. 0.136 Go Chair

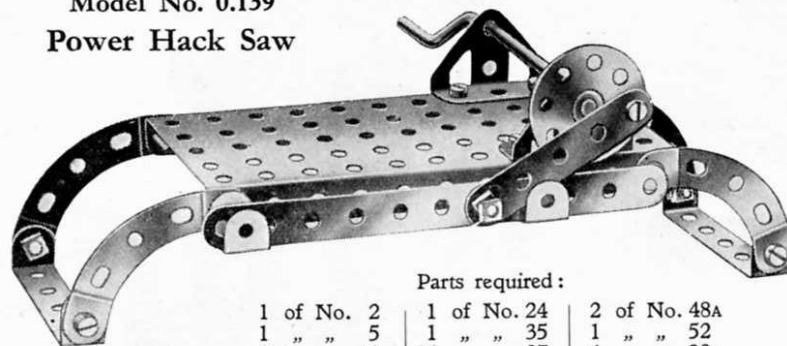
Parts required :

2 of No. 2	
7 " " 5	
2 " " 16	
4 " " 22	
11 " " 37	
1 " " 40	
2 " " 48A	



These Models can be built with MECCANO Outfit No. O (or No. OO and No. OOA)

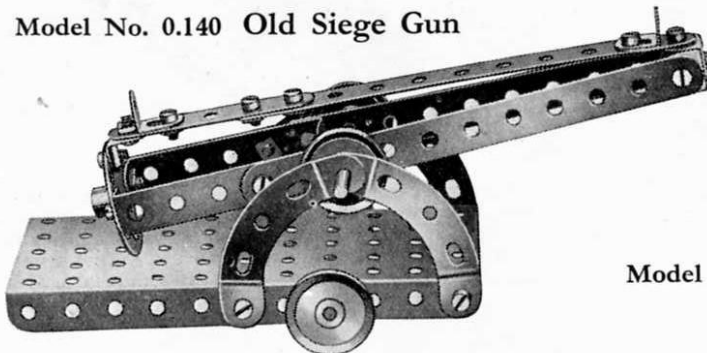
Model No. 0.139
Power Hack Saw



Parts required :

1 of No. 2	1 of No. 24	2 of No. 48A
1 " " 5	1 " " 35	1 " " 52
2 " " 11	16 " " 37	4 " " 90
1 " " 19s	2 " " 37A	2 " " 126

Model No. 0.140 Old Siege Gun



Parts required :

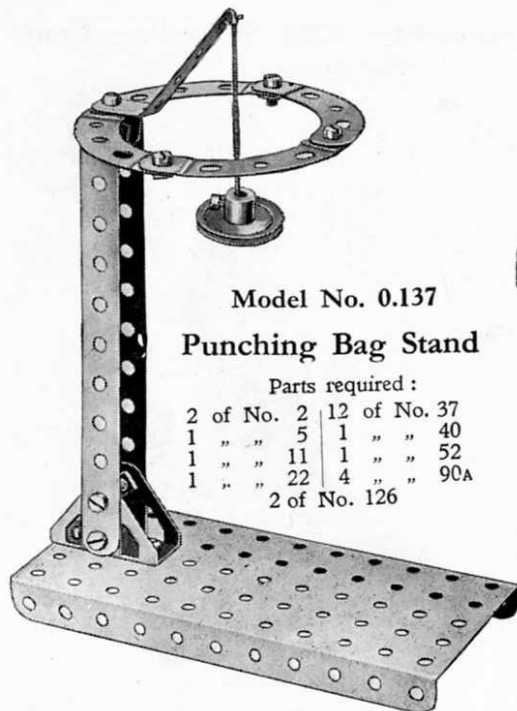
3 of No. 2	1 of No. 24
1 " " 11	16 " " 37
4 " " 12	2 " " 37A
1 " " 15	2 " " 48A
2 " " 16	1 " " 52
4 " " 22	4 " " 90A
2 of No. 111c	

Model No. 0.137

Punching Bag Stand

Parts required :

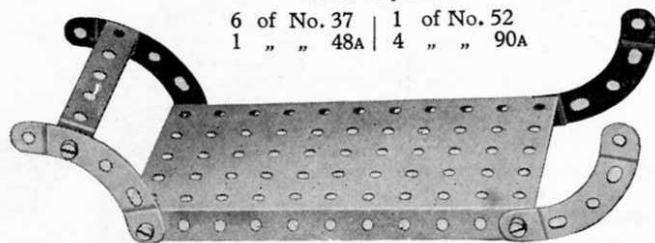
2 of No. 2	12 of No. 37
1 " " 5	1 " " 40
1 " " 11	1 " " 52
1 " " 22	4 " " 90A
2 of No. 126	



Model No. 0.138 Sled

Parts required :

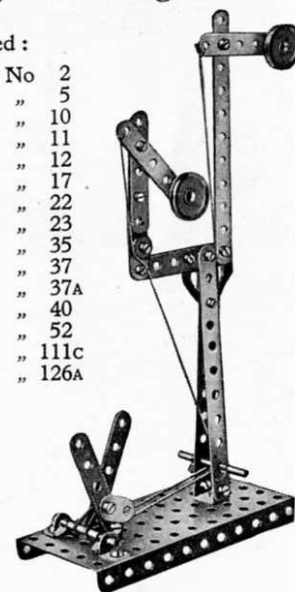
6 of No. 37	1 of No. 52
1 " " 48A	4 " " 90A



Model No. 0.141
Junction Signal

Parts required :

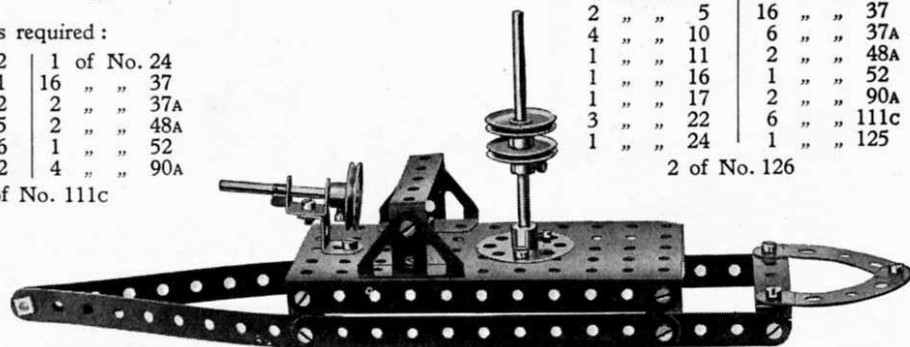
3 of No. 2	2
7 " " 5	5
2 " " 10	10
2 " " 11	11
2 " " 12	12
2 " " 17	17
2 " " 22	22
1 " " 23	23
4 " " 35	35
16 " " 37	37
5 " " 37A	37A
1 " " 40	40
1 " " 52	52
5 " " 111c	111c
1 " " 126A	126A



Model No. 0.142 Battleship

Parts required :

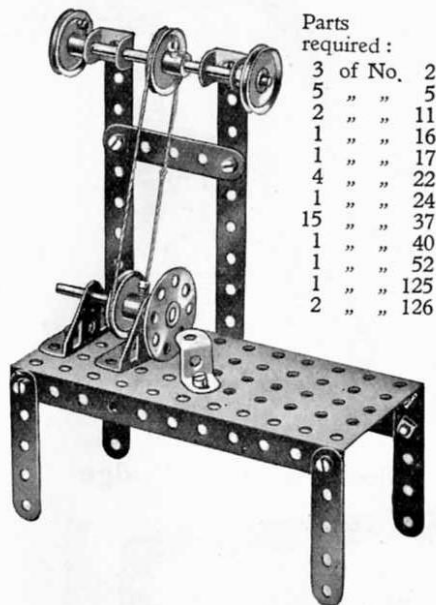
4 of No. 2	1 of No. 35
2 " " 5	16 " " 37
4 " " 10	6 " " 37A
1 " " 11	2 " " 48A
1 " " 16	1 " " 52
1 " " 17	2 " " 90A
3 " " 22	6 " " 111c
1 " " 24	1 " " 125
2 of No. 126	



These Models can be built with MECCANO Outfit No. O (or No. OO and No. OOA)

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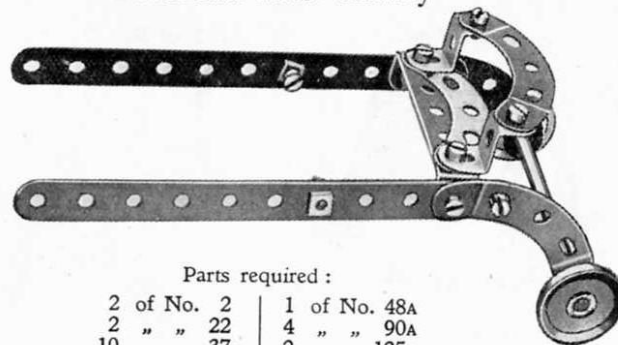
Model No. 0.143 Bench Lathel



Parts required :

3	of No.	2
5	" "	5
2	" "	11
1	" "	16
1	" "	17
4	" "	22
1	" "	24
15	" "	37
1	" "	40
1	" "	52
1	" "	125
2	" "	126

Model No. 0.145 Sulkey



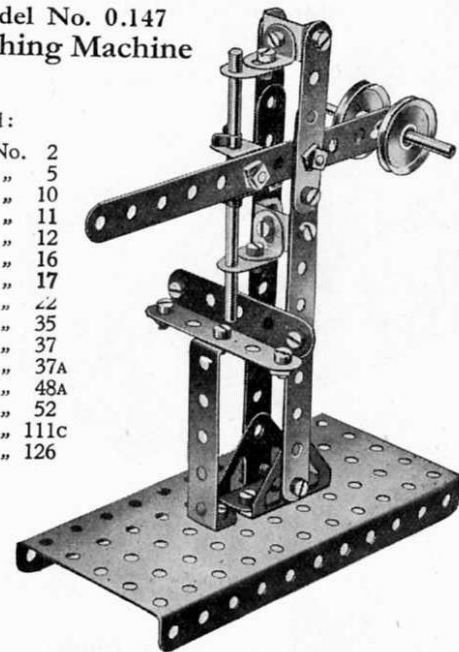
Parts required :

2	of No.	2	1	of No.	48A
2	" "	22	4	" "	90A
10	" "	37	2	" "	125

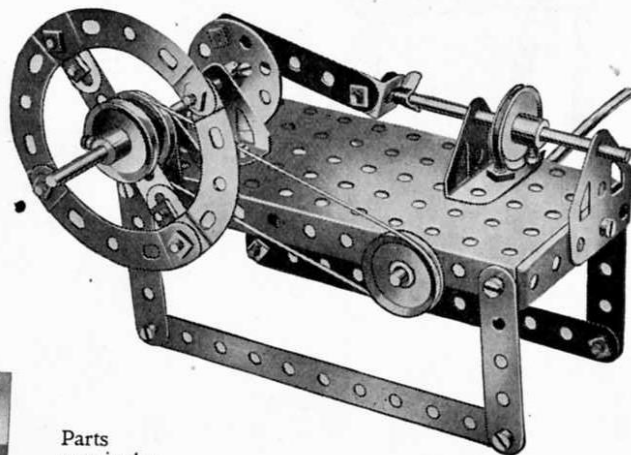
Model No. 0.147 Punching Machine

Parts required :

3	of No.	2
4	" "	5
2	" "	10
2	" "	11
6	" "	12
1	" "	16
1	" "	17
2	" "	22
2	" "	35
16	" "	37
6	" "	37A
1	" "	48A
1	" "	52
6	" "	111c
2	" "	126



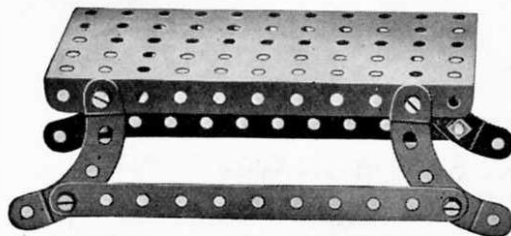
Model No. 0.146 Horizontal Engine



Model No. 0.144 Bench

Parts required :

2	of No.	2	1	of No.	52
8	" "	37	4	" "	90A



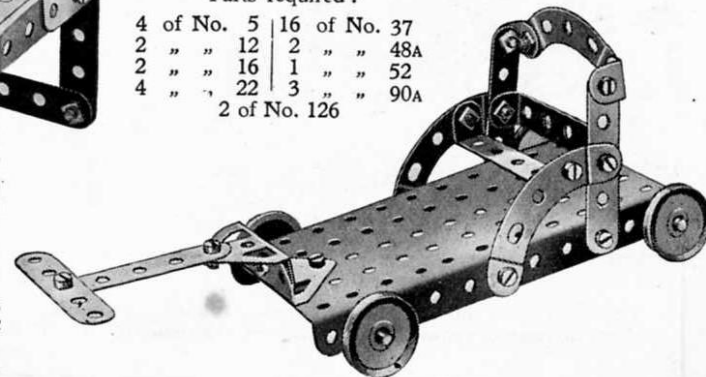
Parts required :

2	of No.	2	4	of No.	22	1	of No.	52
6	" "	5	1	" "	24	4	" "	90A
2	" "	10	3	" "	35	5	" "	111c
1	" "	12	16	" "	37	2	" "	126
2	" "	16	5	" "	37A	2	" "	126A
1	" "	19s	1	" "	40			

Model No. 0.148 Bath Chair

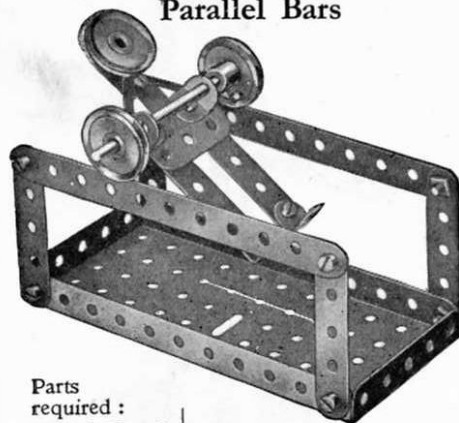
Parts required :

4	of No.	5	16	of No.	37
2	" "	12	2	" "	48A
2	" "	16	1	" "	52
4	" "	22	3	" "	90A
			2	of No.	126



These Models can be built with MECCANO Outfit No. O (or No. OO and No. OOA)

Model No. 0.149
Parallel Bars



Parts
required :

2 of No. 2	2 of No. 35
6 " " 5	13 " " 37
1 " " 10	1 " " 52
4 " " 12	1 " " 111c
1 " " 16	1 " " 126A
3 " " 22	

Model No. 0.151 Candle Shade

Parts
required :

4 of No. 5
8 " " 12
1 " " 24
16 " " 37
4 " " 90A



Model No. 0.152
Prehistoric Animal



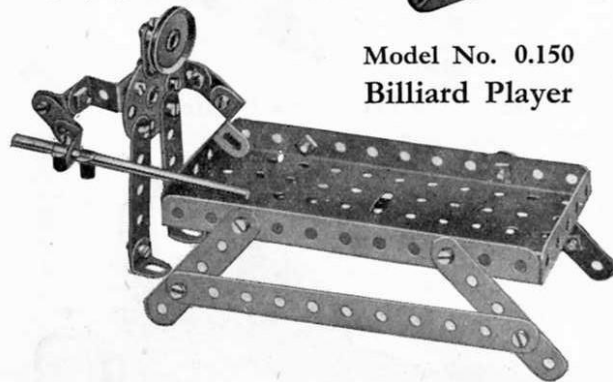
Parts
required :

4 of No. 2
2 " " 5
5 " " 10
2 " " 11
6 " " 12
14 " " 37
4 " " 90A

Model No. 0.150
Billiard Player

Parts
required :

2 of No. 2
6 " " 5
3 " " 10
5 " " 12
1 " " 16
1 " " 22
1 " " 24
2 " " 35
16 " " 37
5 " " 37A
5 " " 111c
2 " " 125



Model No. 0.153 Revolving Office Chair

Parts required :

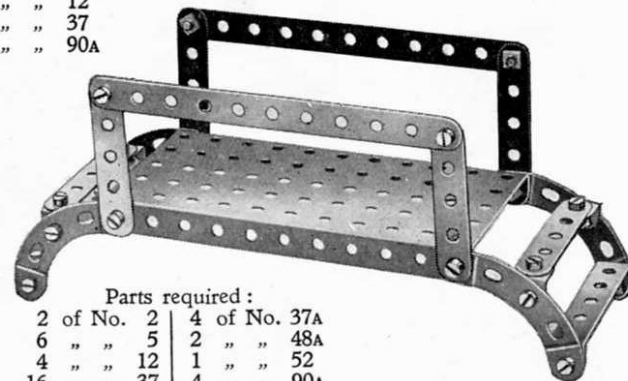
3 of No. 5	2 of No. 37A
1 " " 12	2 " " 48A
1 " " 17	4 " " 90A
2 " " 22	2 " " 111c
1 " " 24	2 " " 126
16 " " 37	1 " " 126A



Model No. 0.154 Bridge

Parts required :

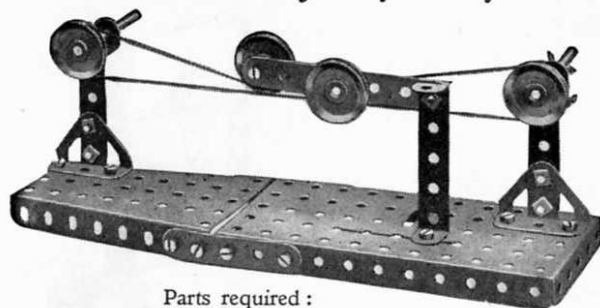
2 of No. 2	4 of No. 37A
6 " " 5	2 " " 48A
4 " " 12	1 " " 52
16 " " 37	4 " " 90A
	4 of No. 111c



HOW TO CONTINUE

This completes our examples of models that may be made with MECCANO Outfit No. O (or No. OO and No. OOA). The next models are a little more advanced, requiring extra parts to construct them. The necessary parts are all contained in a No. OA Accessory Outfit, the price of which may be obtained from any Meccano dealer.

Model No. 1.1 Jockey Pulley

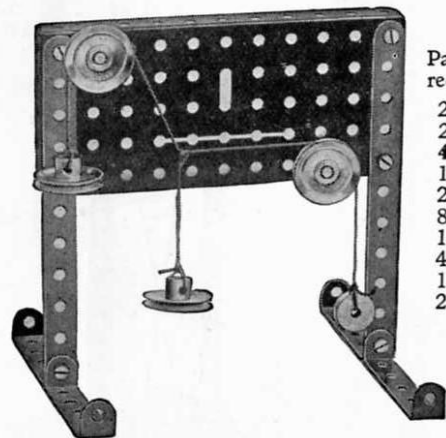


Parts required :

1 of No. 3	2 of No. 35	1 of No. 52
4 " " 5	20 " " 37	1 " " 54
2 " " 17	1 " " 37A	2 " " 111c
4 " " 22	1 " " 40	2 " " 126
	1 " " 48A	

The weight of the pivoted $3\frac{1}{2}$ " Strip, augmented by the 1" fast Pulley Wheel, causes the jockey pulley to press on the belt. Hence the latter is kept always taut.

Model No. 1.2 Triangle of Forces

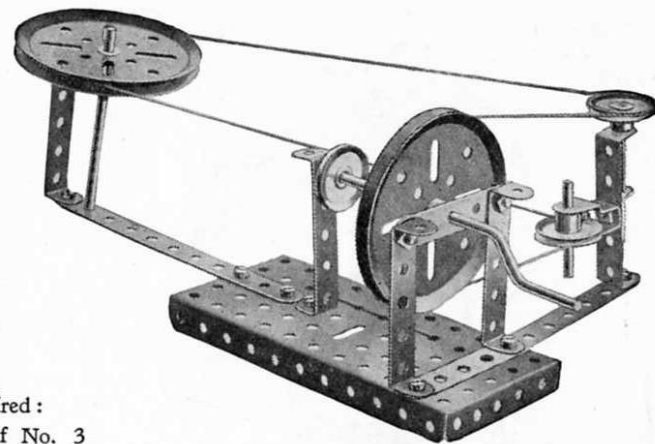


Parts required :

2 of No. 2	
2 " " 18A	
2 " " 22	
1 " " 23	
2 " " 35	
8 " " 37	
1 " " 40	
4 " " 48A	
1 " " 52	
2 " " 125	

The suspended weights represent three forces acting on a central point. If a triangle is drawn with its sides respectively parallel to the three converging cords, i.e., parallel to the directions of the three forces, the lengths of the sides will be found to be proportional to the respective magnitudes of the forces.

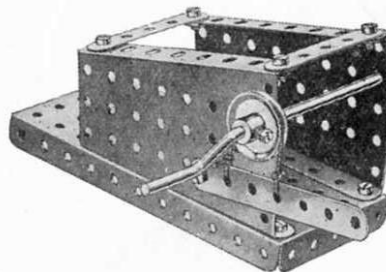
Model No. 1.5 Belt Gear Right-angle Drive Transmission



Parts required :

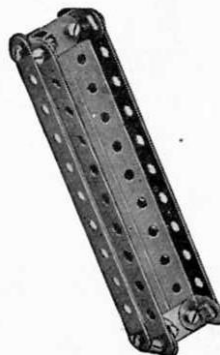
2 of No. 2	1 of No. 35
1 " " 5	11 " " 37
1 " " 16	1 " " 40
1 " " 17	1 " " 44
1 " " 18A	1 " " 48
2 " " 19B	5 " " 48A
1 " " 19s	1 " " 52
3 " " 22	

Model No. 1.3 Band Brake



Parts required :

1 of No. 3	
2 " " 5	
1 " " 19s	
1 " " 22	
1 " " 35	
9 " " 37	
1 " " 37A	
1 " " 40	
1 " " 52	
2 " " 54	

Model No. 1.4
"H" Girder

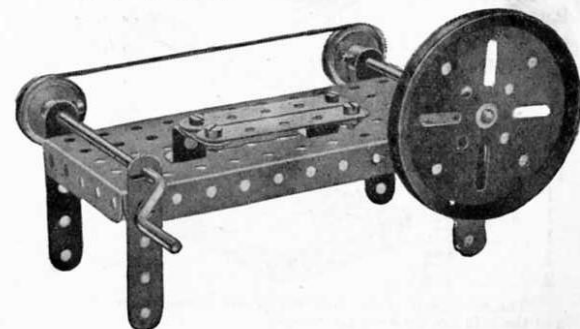
Parts required :

6 of No. 2	
2 " " 10	
8 " " 12	
12 " " 37	

Model No. 1.6
Bacon Slicer

Parts required :

6 of No. 5	1 of No. 35
2 " " 10	10 " " 37
1 " " 16	1 " " 40
1 " " 19B	1 " " 52
1 " " 19s	2 " " 125
2 " " 22	

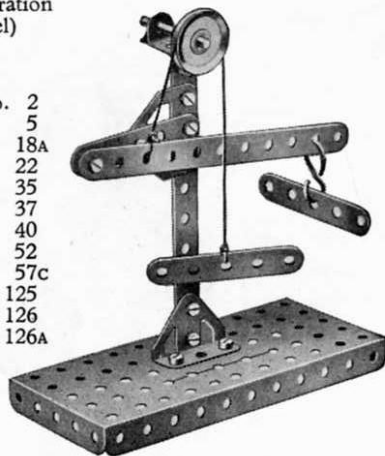


Model No. 1.7 Lever of the Second Order

(Demonstration Model)

Parts required :

2	of No.	2
4	" "	5
1	" "	18A
1	" "	22
1	" "	35
11	" "	37
1	" "	40
1	" "	52
1	" "	57c
1	" "	125
1	" "	126
1	" "	126A



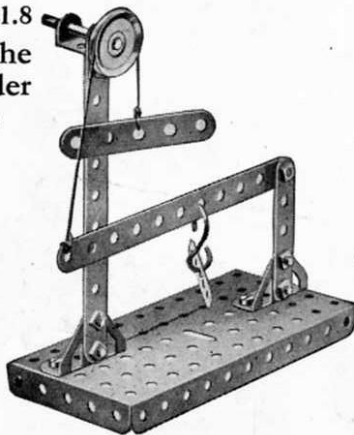
The fulcrum is at one end, the load at the other and the power lies between the two.

Model No. 1.8 Lever of the Third Order

(Demonstration Model)

Parts required :

2	of No.	2
4	" "	5
1	" "	18A
1	" "	22
1	" "	35
10	" "	37
1	" "	40
1	" "	52
1	" "	57c
1	" "	125
2	" "	126



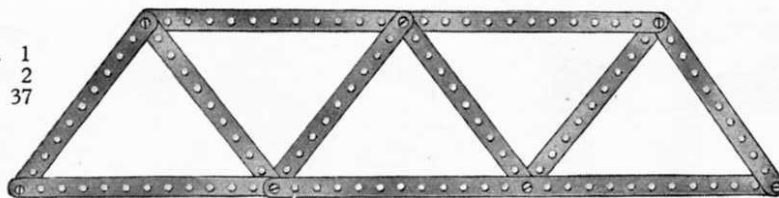
The fulcrum is at one end, the power at the other and the load lies between the two.

These Models can be built with MECCANO Outfit No. 1 (or No. 0 and No. 0A)

Model No. 1.9 Compound Triangulated Truss

Parts required :

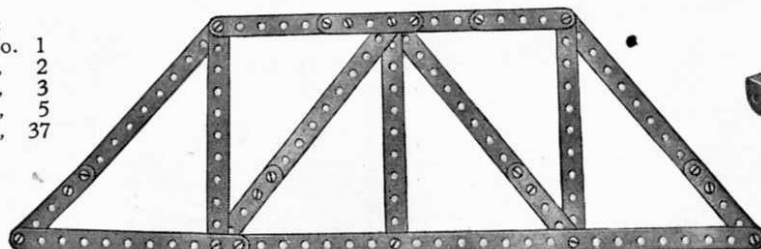
2	of No.	1
7	" "	2
7	" "	37



Model No. 1.10 Howe Truss

Parts required :

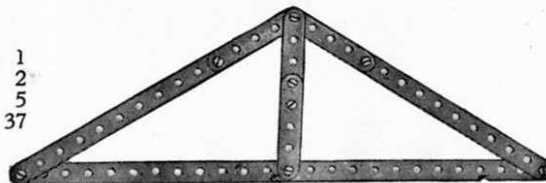
1	of No.	1
8	" "	2
1	" "	3
7	" "	5
21	" "	37



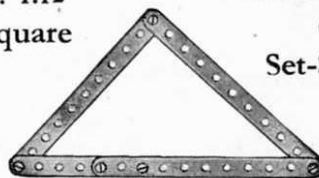
Model No. 1.11 Triangulated Truss

Parts required :

1	of No.	1
2	" "	2
4	" "	5
8	" "	37



Model No. 1.12 45° Set-Square



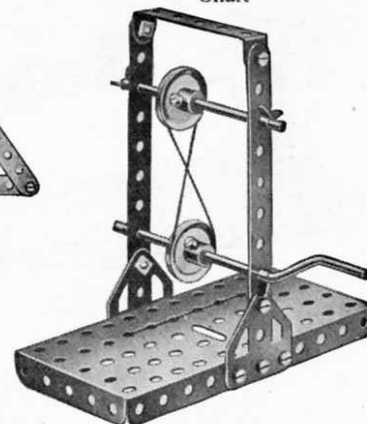
Parts required :
3 of No. 2 1 of No. 3
5 of No. 37

Model No. 1.13 60° Set-Square



Parts required :
2 of No. 2
1 " " 3
2 " " 10
5 " " 37

Model No. 1.14 Belt Gear For Reversing Motion of Driven Shaft



Parts required :

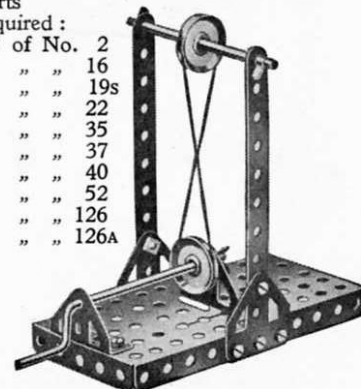
2	of No.	2	10	of No.	37
1	" "	16	1	" "	40
1	" "	19s	1	" "	48A
2	" "	22	1	" "	52
4	" "	35	2	" "	126A

Model No. 1.15 Belt Gear

For Driving Shafts at Right Angles

Parts required :

2	of No.	2
1	" "	16
1	" "	19s
2	" "	22
3	" "	35
12	" "	37
1	" "	40
1	" "	52
2	" "	126
2	" "	126A

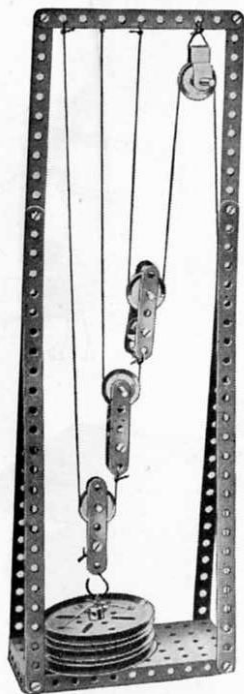


These Models can be built with MECCANO Outfit No. 1 (or No. O and No. OA)

37

Model No. 1.16 Pulley Block

Demonstration Model:
1 Fixed and 3 Movable Sheaves.
Theoretical Mechanical advantage : 8 to 1



Parts required :

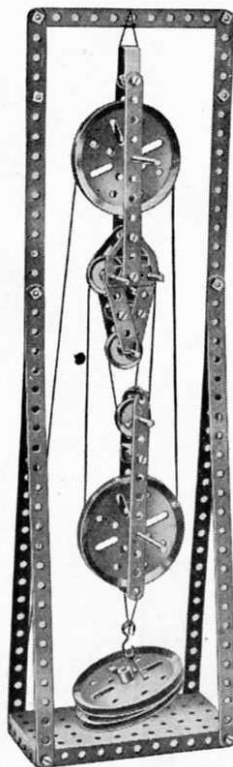
4 of No. 1	3 of No. 19B
3 " " 2	4 " " 22
6 " " 5	15 " " 37
2 " " 11	1 " " 40
2 " " 12	1 " " 44
2 " " 17	1 " " 52
2 " " 18A	1 " " 57c

Model No. 1.17 Pulley Block

Demonstration Model:
3 Fixed and 2 Movable Sheaves.
Theoretical Mechanical advantage: 5 to 1

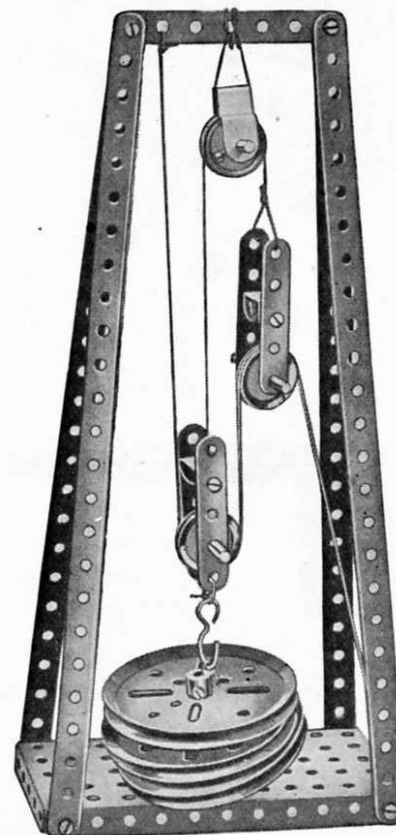
Parts required :

4 of No. 1	4 of No. 19B
7 " " 2	4 " " 22
6 " " 5	6 " " 35
2 " " 10	22 " " 37
2 " " 12	1 " " 40
2 " " 16	1 " " 44
2 " " 17	1 " " 52
2 " " 18A	1 " " 57c
2 of No. 126A	



Model No. 1.18 Pulley Block

Demonstration Model:
1 Fixed Sheave and 2 Suspended Blocks.
Theoretical Mechanical advantage: 4 to 1



Parts required :

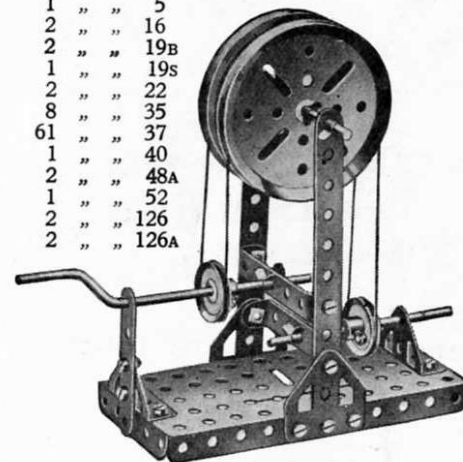
4 of No. 1	4 of No. 19B
1 " " 3	3 " " 22
4 " " 5	10 " " 37
2 " " 11	1 " " 40
1 " " 17	1 " " 44
2 " " 18A	1 " " 52
1 of No. 57c	

Model No. 1.19 Belt Gear

Parts required :

2 of No. 2	2
1 " " 5	5
2 " " 16	16
2 " " 19B	19B
1 " " 19s	19s
2 " " 22	22
8 " " 35	35
61 " " 37	37
1 " " 40	40
2 " " 48A	48A
1 " " 52	52
2 " " 126	126
2 " " 126A	126A

Drive Transmission
for shafts not
in line

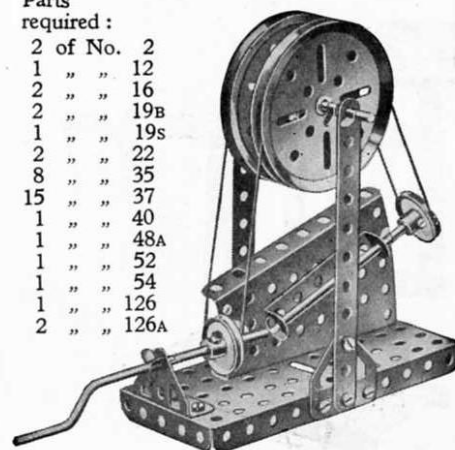


Model No. 1.20 Belt Gear

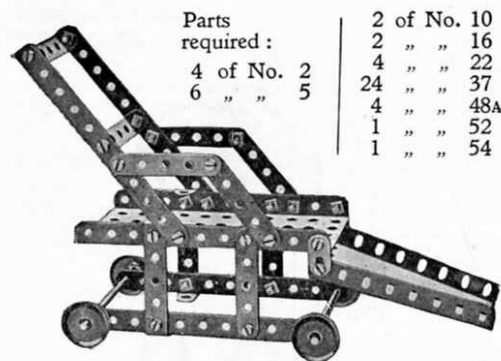
Parts required :

2 of No. 2	2
1 " " 12	12
2 " " 16	16
2 " " 19B	19B
1 " " 19s	19s
2 " " 22	22
8 " " 35	35
15 " " 37	37
1 " " 40	40
1 " " 48A	48A
1 " " 52	52
1 " " 54	54
1 " " 126	126
2 " " 126A	126A

Obtuse-angle
Drive
Transmission



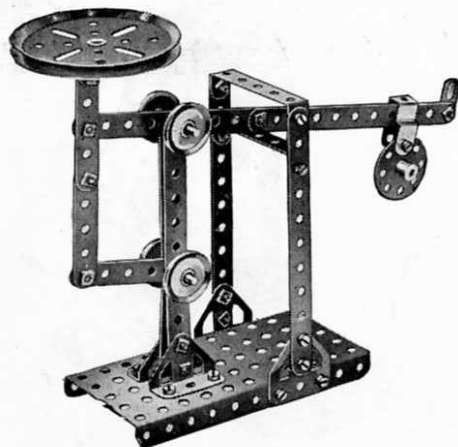
Model No. 1.21 Invalid Chair



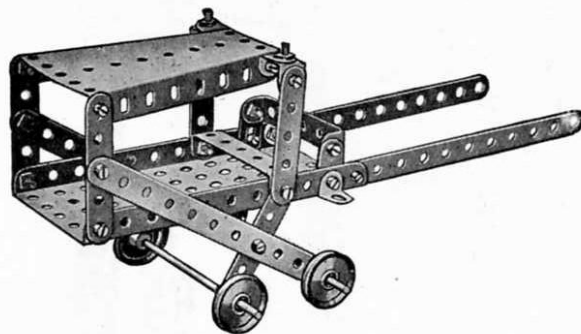
Parts required :	2 of No. 10
4 of No. 2	2 " " 16
6 " " 5	4 " " 22
	24 " " 37
	4 " " 48A
	1 " " 52
	1 " " 54

Model No. 1.22 Letter Balance

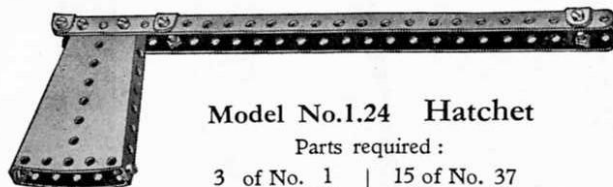
Parts required :		
6 of No. 2	4 of No. 22	2 of No. 48A
3 " " 5	1 " " 24	1 " " 52
1 " " 10	26 " " 37	2 " " 111c
1 " " 12	4 " " 37A	2 " " 126
2 " " 18A	2 " " 38	2 " " 126A
1 " " 19B	1 " " 44	



Model No. 1.23 Ticca Gharry



Parts required :		
4 of No. 2	6 of No. 12	22 of No. 37
6 " " 5	2 " " 16	1 " " 52
2 " " 10	4 " " 22	1 " " 54

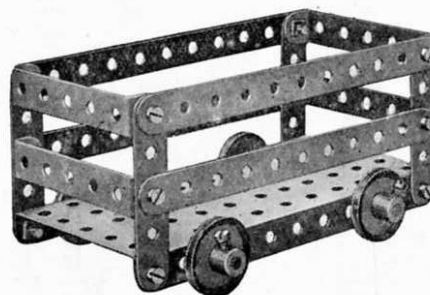


Model No. 1.24 Hatchet

Parts required :		
3 of No. 1	15 of No. 37	
6 " " 12	2 " " 24	

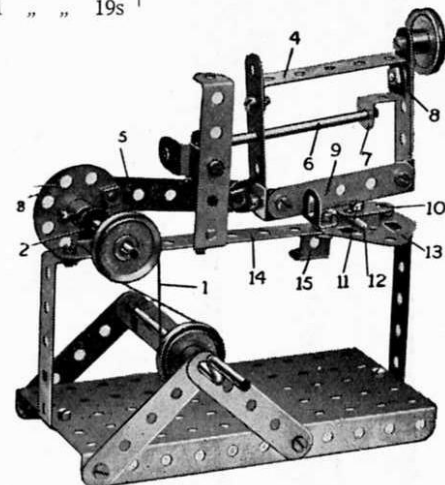
Model No. 1.25 Truck with Sides

Parts required:	
4 of No. 2	
4 " " 5	
2 " " 16	
4 " " 22	
12 " " 37	
4 " " 48A	
1 " " 52	



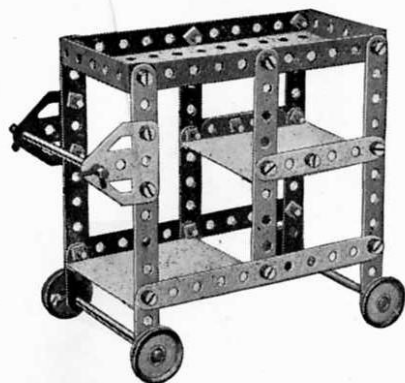
Model No. 1.26 Mechanical Saw

Parts required :		
1 of No. 2	3 of No. 22	1 of No. 44
8 " " 5	1 " " 24	4 " " 48A
1 " " 10	3 " " 35	1 " " 52
1 " " 11	22 " " 37	2 " " 125
4 " " 12	4 " " 38	1 " " 126A
1 " " 16	1 " " 40	
1 " " 17		
1 " " 19s		



The Strip 9 represents the saw. The Crank Handle drives, through a belt 1, a short Rod journalled in a Double Bracket 2 and carrying a Bush Wheel 3. The latter imparts a reciprocating motion to the saw frame 4 through a 2 1/2" Strip 5 loosely mounted on Bolts secured to the Bush Wheel and to an Angle Bracket bolted to the saw frame. This frame slides on a 3 1/2" Rod 6, which acts as a guide, passing through the frame and supported in a Reversed Angle Bracket 7. A Washer is placed on the Bolt 8 behind the Bracket 7. A vice to secure the objects in position for cutting consists of a Flat Bracket 10 mounted on a Bolt 11, a few turns of which causes the Flat Bracket to grip the object 12. The Bolt 11 enters a Nut held between the Flat Trunnion 13 and 5 1/2" Strip 14, which are spaced apart for the purpose by Washer placed on the two Bolts holding the Trunnion in position. The saw frame rests on the stop 15 when not in use. A 1" Pulley secured to the top of the frame acts as a weight and helps to steady the saw.

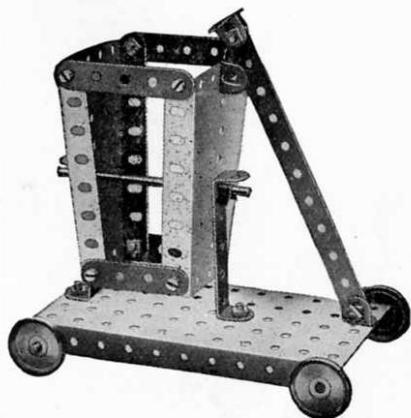
Model No. 1.27 Dinner Wagon

Parts
required

6	of	No. 2
8	"	" 5
4	"	" 12
3	"	" 16
4	"	" 22
2	"	" 35
22	"	" 37
2	"	" 48A
1	"	" 52
2	"	" 126A

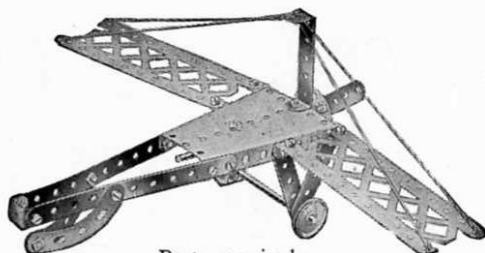
The two lower platforms are constructed out of pieces of ordinary cardboard, their outer edges resting on 2½" Double Angle Strips and their inner edges on Angle Brackets.

Model No. 1.28 Tip Wagon

Parts
required :

1	of	No. 2
4	"	" 5
5	"	" 12
3	"	" 16
4	"	" 22
2	"	" 35
14	"	" 37
2	"	" 48A
1	"	" 52
2	"	" 54

Model No. 1.29 Aeroplane



Parts required :

2	of	No. 2	2	of	No. 16	1	of	No. 48A
5	"	" 5	2	"	" 22	1	"	" 54
1	"	" 11	1	"	" 24	2	"	" 90A
6	"	" 12	21	"	" 37	2	"	" 100
			1	"	" 40			

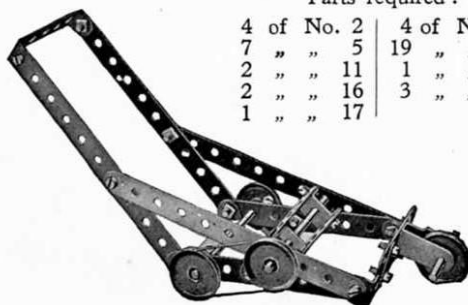
Model No. 1.30 Timber Drag



Parts required :

4	of	No. 2	2	of	No. 16	8	of	No. 37
2	"	" 11	4	"	" 22	4	"	" 48A

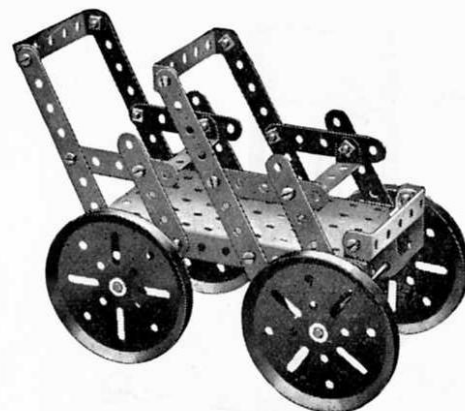
Model No. 1.31 Lawn Mower



Parts required :

4	of	No. 2	4	of	No. 22
7	"	" 5	19	"	" 37
2	"	" 11	1	"	" 44
2	"	" 16	3	"	" 48A
1	"	" 17			

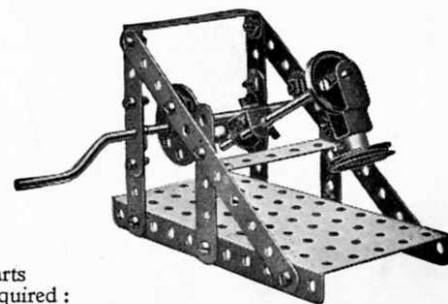
Model No. 1.32 Tandem Car



Parts required :

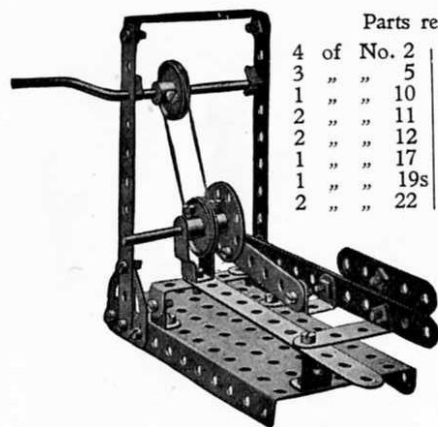
4	of	No. 2	26	of	No. 37
8	"	" 5	5	"	" 48A
2	"	" 12	1	"	" 52
2	"	" 16	2	"	" 126A
4	"	" 19B			

Model No. 1.33 Mechanical Hammer

Parts
required :

2	of	No. 2	1	of	No. 19s	18	of	No. 37
6	"	" 5	2	"	" 22	1	"	" 44
1	"	" 11	1	"	" 24	3	"	" 48A
1	"	" 12	4	"	" 35	1	"	" 52
1	"	" 16						

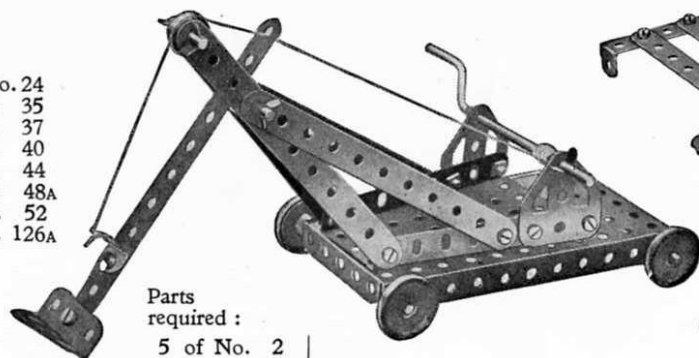
These Models can be built with MECCANO Outfit No. 1 (or No. 0 and No. 0A)

Model No. 1.34
Sawing Machine

Parts required :

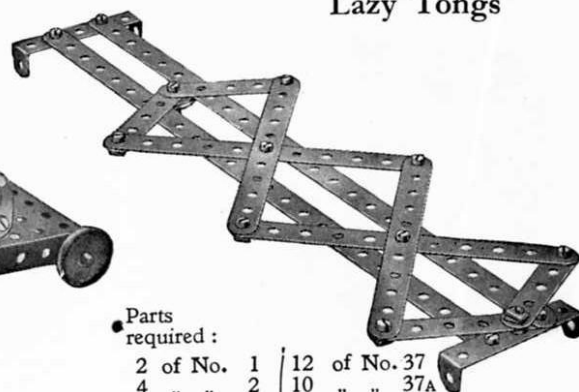
4 of No. 2	1 of No. 24
3 " " 5	2 " " 35
1 " " 10	22 " " 37
2 " " 11	1 " " 40
2 " " 12	1 " " 44
1 " " 17	2 " " 48A
1 " " 19s	1 " " 52
2 " " 22	2 " " 126A

Model No. 1.36 Steam Shovel



Parts required :

5 of No. 2	6 of No. 35	1 of No. 52
1 " " 11	21 " " 37	1 " " 54
1 " " 12	2 " " 37A	1 " " 111c
2 " " 16	2 " " 38	1 " " 126
2 " " 18A	1 " " 40	2 " " 126A
1 " " 19s		
4 " " 22		
1 " " 23		

Model No. 1.38
Lazy Tongs

Parts required :

2 of No. 1	12 of No. 37
4 " " 2	10 " " 37A
4 " " 5	2 " " 48A
1 " " 23	2 " " 111c

Model No. 1.39
Sand Yacht

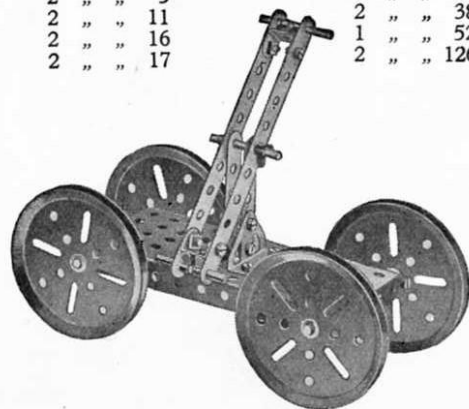
Parts required :

4 of No. 2
8 " " 5
1 " " 10
2 " " 12
2 " " 16
4 " " 22
1 " " 23
23 " " 37
1 " " 37A
1 " " 40
2 " " 48A
1 " " 52
1 " " 54
1 " " 111c

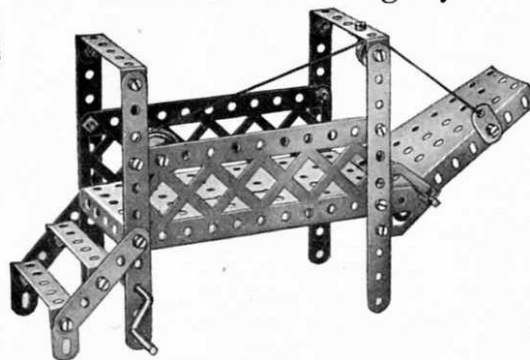
Model No. 1.35
Manual Fire Engine

Parts required :

2 of No. 2	1 of No. 18A
2 " " 5	4 " " 19B
2 " " 11	6 " " 35
2 " " 16	12 " " 37
2 " " 17	2 " " 38
	1 " " 52
	2 " " 126

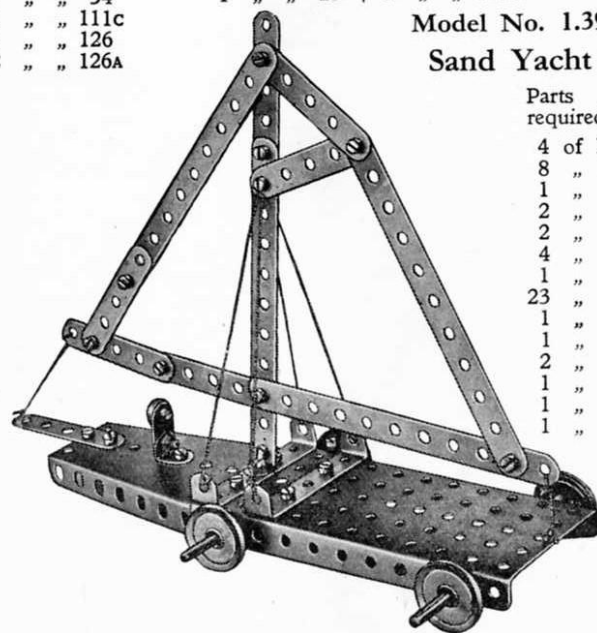


Model No. 1.37 Gangway



Parts required :

4 of No. 2	1 of No. 22	4 of No. 48A
2 " " 5	1 " " 23	1 " " 52
3 " " 10	4 " " 35	1 " " 54
1 " " 12	22 " " 37	2 " " 100
1 " " 16	1 " " 40	1 " " 111c
	2 of No. 126A	



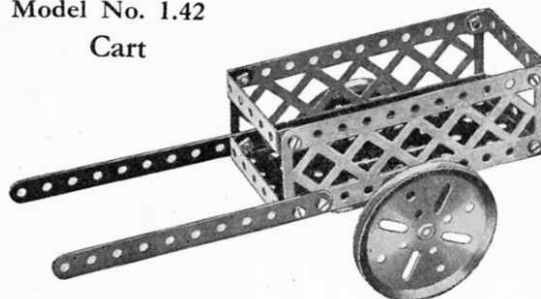
These Models can be built with MECCANO Outfit No. 1 (or No. 0 and No. 0A)

Model No. 1.40 Horseman



Parts required	
2 of No. 2	
7 " " 5	
3 " " 10	
2 " " 12	
2 " " 16	
4 " " 22	
1 " " 24	
17 " " 37	
1 " " 52	
1 " " 54	
2 " " 90A	
1 " " 126A	

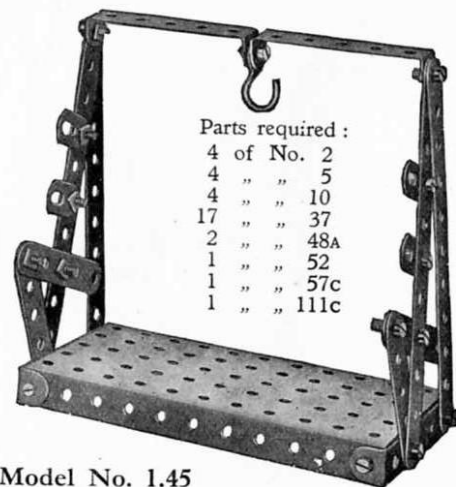
Model No. 1.42 Cart



Parts required :

2 of No. 2	2 of No. 48A
1 " " 16	1 " " 52
2 " " 19B	2 " " 100
14 " " 37	2 " " 126A

Model No. 1.44 Pen Rack

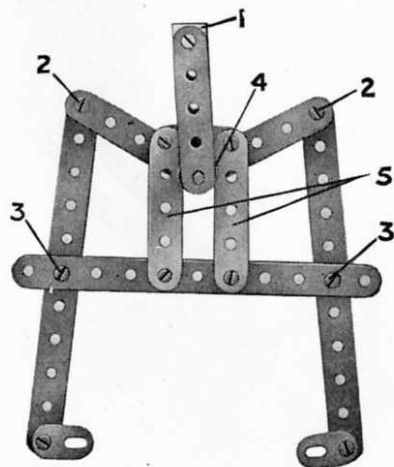


Parts required :

4 of No. 2	
4 " " 5	
4 " " 10	
17 " " 37	
2 " " 48A	
1 " " 52	
1 " " 57c	
1 " " 111c	

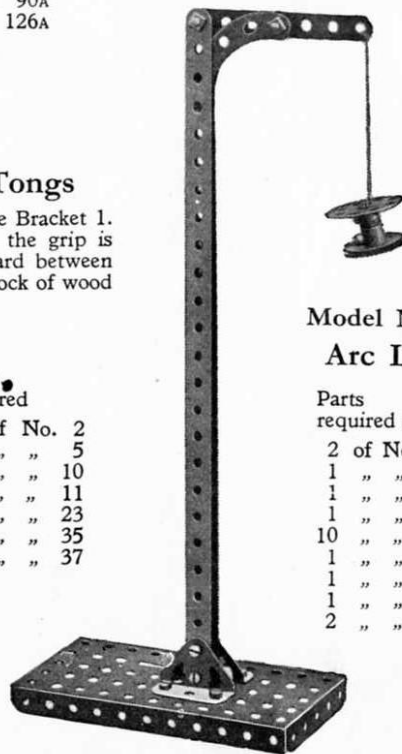
Model No. 1.41 Friction Grip Tong

The hoisting cord is attached to the Double Bracket 1. The joints 2, 3 are lock-nutted, so that when the grip is raised the $\frac{1}{2}$ " loose Pulley Wheel 4 slides upward between the $2\frac{1}{2}$ " Strips 5, and the grip closes upon the block of wood or other material placed between its jaws.



Parts required	
3 of No. 2	
8 " " 5	
4 " " 10	
1 " " 11	
1 " " 23	
2 " " 35	
12 " " 37	

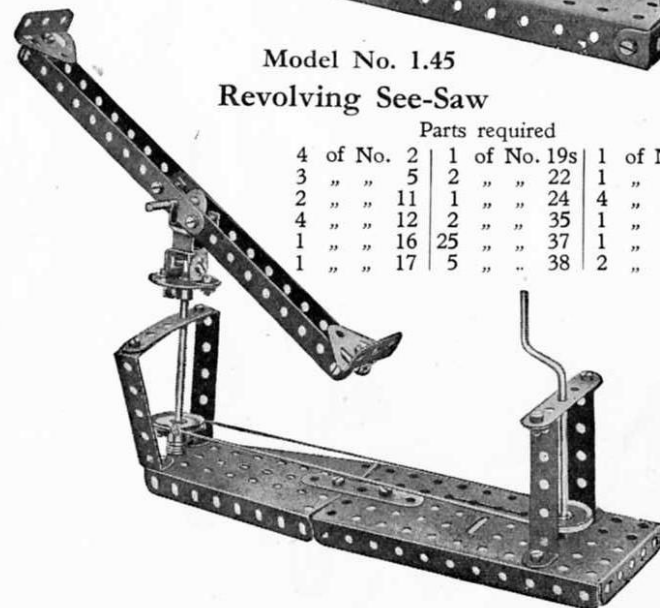
Model No. 1.43 Arc Lamp



Parts required :

2 of No. 1	
1 " " 3	
1 " " 22	
1 " " 24	
10 " " 37	
1 " " 40	
1 " " 52	
1 " " 90A	
2 " " 126	

Model No. 1.45 Revolving See-Saw

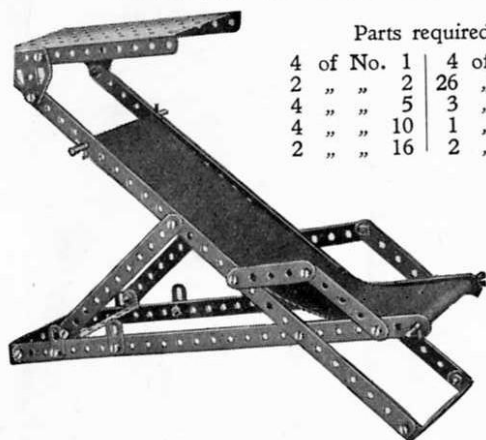


Parts required

4 of No. 2	1 of No. 19s	1 of No. 40
3 " " 5	2 " " 22	1 " " 44
2 " " 11	1 " " 24	4 " " 48A
4 " " 12	2 " " 35	1 " " 52
1 " " 16	25 " " 37	1 " " 54
1 " " 17	5 " " 38	2 " " 126

These Models can be built with MECCANO Outfit No. 1 (or No. 0 and No. 0A)

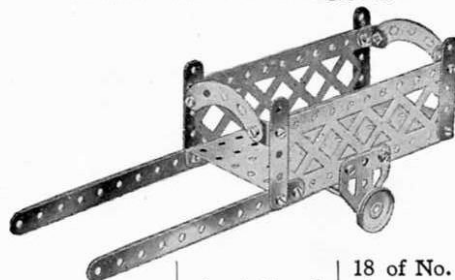
Model No. 1.46 Deck Chair



Parts required :

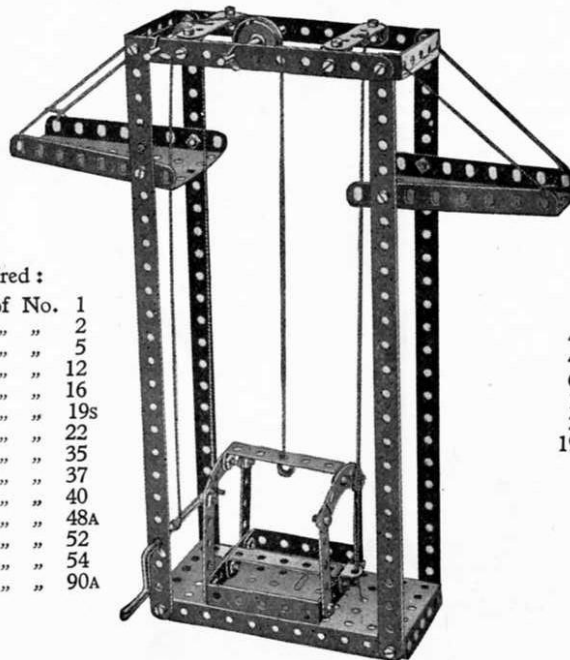
4 of No. 1	4 of No. 35
2 " " 2	26 " " 37
4 " " 5	3 " " 48A
4 " " 10	1 " " 52
2 " " 16	2 " " 126A

Model No. 1.48 Luggage Cart



Parts required :	4 of No. 5	18 of No. 37
	4 " " 12	1 " " 52
	1 " " 16	2 " " 90A
2 of No. 2	2 " " 22	2 " " 100
		2 " " 126A

Model No. 1.49 Elevator



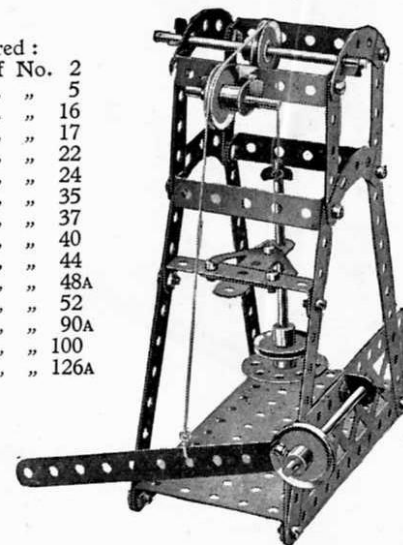
Parts required :

4 of No. 1
2 " " 2
6 " " 5
6 " " 12
1 " " 16
1 " " 19s
1 " " 22
5 " " 35
32 " " 37
1 " " 40
6 " " 48A
1 " " 52
2 " " 54
2 " " 90A

Model No. 1.50 Mechanical Stamp

Parts required :

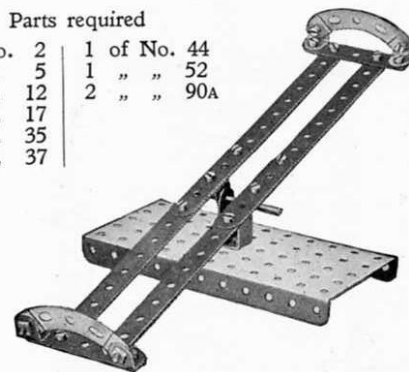
5 of No. 2
5 " " 5
3 " " 16
1 " " 17
4 " " 22
1 " " 24
6 " " 35
20 " " 37
1 " " 40
1 " " 44
6 " " 48A
1 " " 52
4 " " 90A
1 " " 100
1 " " 126A



Model No. 1.51 See-Saw

Parts required

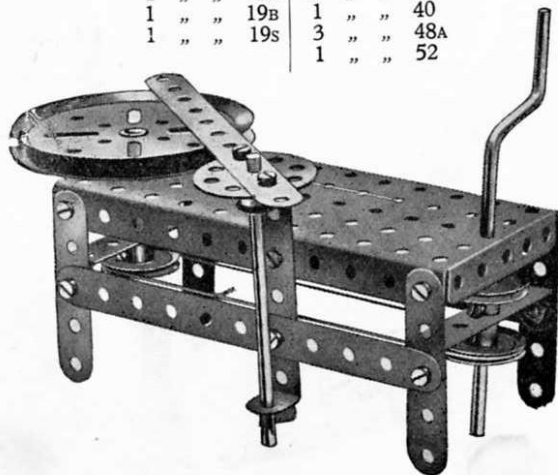
4 of No. 2	1 of No. 44
4 " " 5	1 " " 52
6 " " 12	2 " " 90A
1 " " 17	
2 " " 35	
19 " " 37	

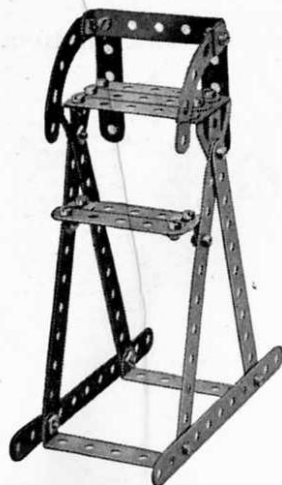


Model No. 1.47 Potter's Wheel

Parts required :

3 of No. 2	3 of No. 22
4 " " 5	1 " " 24
1 " " 16	1 " " 35
1 " " 18A	12 " " 37
1 " " 19B	1 " " 40
1 " " 19s	3 " " 48A
	1 " " 52

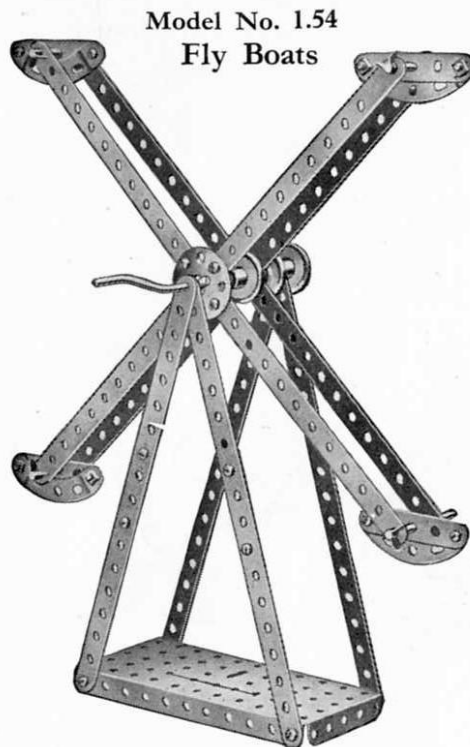




Model No. 1.52
Umpire's
Seat

Parts
required :

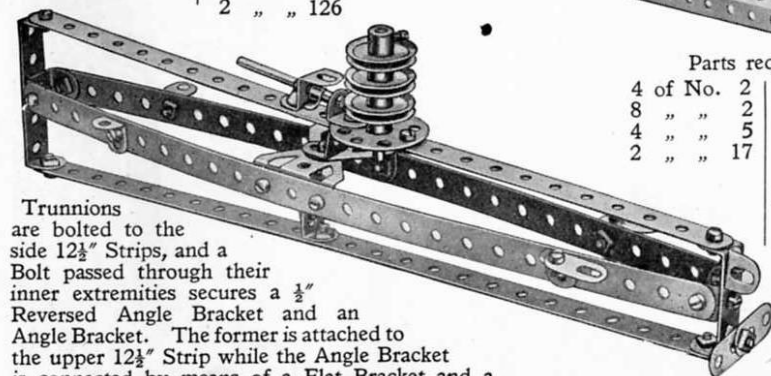
6 of No.	2
7 " "	5
2 " "	10
4 " "	12
24 " "	37
3 " "	48A
2 " "	90A
2 " "	126



Model No. 1.54
Fly Boats

Parts required

4 of No.	2	2 of No.	18A
8 " "	2	1 " "	19s
4 " "	5	4 " "	22
2 " "	17	1 " "	24
		8 " "	35
		24 " "	37
		1 " "	52
		4 " "	90A



Model No. 1.53 Submarine

Parts required :

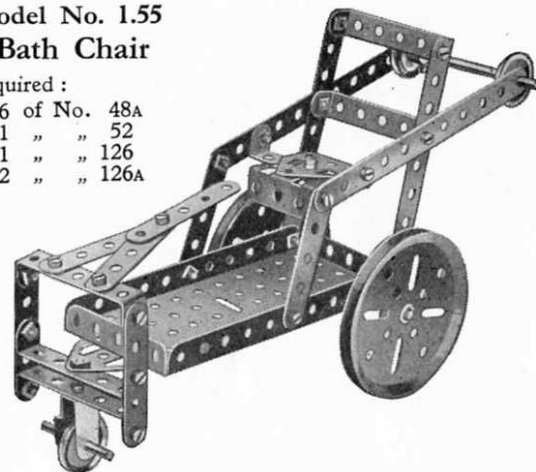
4 of No.	1	2 of No.	35
5 " "	10	28 " "	37
2 " "	11	3 " "	37A
8 " "	12	2 " "	38
2 " "	17	1 " "	48
3 " "	22	1 " "	48A
1 " "	24	2 " "	125
		2 " "	126

Trunnions are bolted to the side $12\frac{1}{2}$ " Strips, and a Bolt passed through their inner extremities secures a $\frac{1}{2}$ " Reversed Angle Bracket and an Angle Bracket. The former is attached to the upper $12\frac{1}{2}$ " Strip while the Angle Bracket is connected by means of a Flat Bracket and a further Angle Bracket to the lower Strip.

Model No. 1.55
Bath Chair

Parts required :

4 of No.	2	6 of No.	48A
7 " "	5	1 " "	52
2 " "	16	1 " "	126
1 " "	18A	2 " "	126A
2 " "	19B		
3 " "	22		
24 " "	37		
1 " "	37A		
1 " "	44		

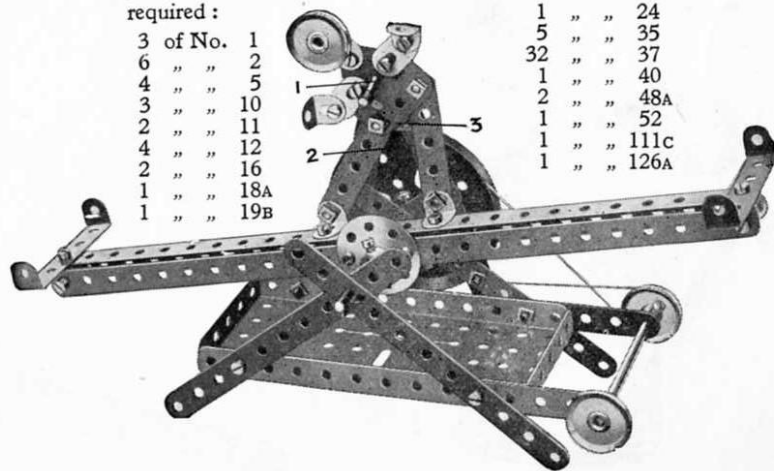


Model No. 1.56 Acrobat on See-Saw

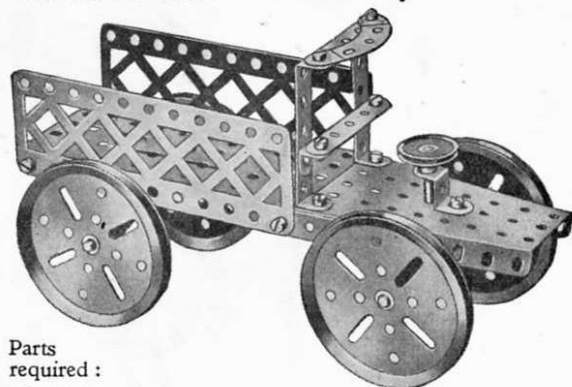
The 1" Rod 1 is journalled in the end holes of two $5\frac{1}{2}$ " Strips 2 and in the Flat Trunnion 3 which joins them. It is held in position by two Spring Clips, placed on either side of the $5\frac{1}{2}$ " Strips 2.

Parts
required :

3 of No.	1	3 of No.	22
6 " "	2	1 " "	24
4 " "	5	5 " "	35
3 " "	10	32 " "	37
2 " "	11	1 " "	40
4 " "	12	2 " "	48A
2 " "	16	1 " "	52
1 " "	18A	1 " "	111c
1 " "	19B	1 " "	126A



Model No. 1.57 Motor Lorry

Parts
required :

2 of No. 2		
2 " " 5		
2 " " 12	25 of No. 37	
2 " " 16	2 " " 38	1 of No. 90A
1 " " 18A	3 " " 48A	2 " " 100
4 " " 19B	1 " " 52	2 " " 125
1 " " 24	1 " " 54	2 " " 126A

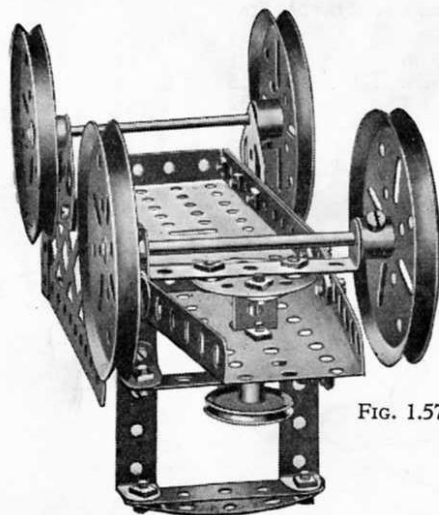
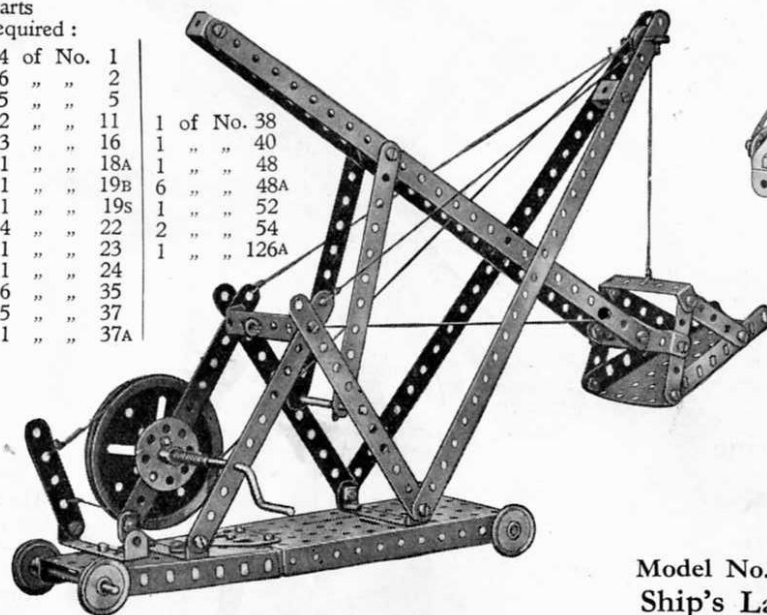


FIG. 1.57A.

Model No. 1.58 Mechanical Shovel

Parts
required :

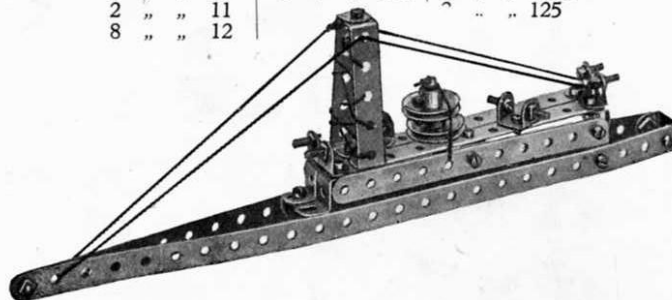
4 of No. 1	1 of No. 38
6 " " 2	1 " " 40
5 " " 5	1 " " 48
2 " " 11	6 " " 48A
3 " " 16	1 " " 52
1 " " 18A	2 " " 54
1 " " 19B	1 " " 126A
1 " " 19S	
4 " " 22	
1 " " 23	
1 " " 24	
6 " " 35	
35 " " 37	
1 " " 37A	



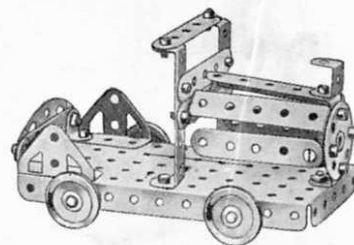
Model No. 1.59 Battleship

Parts required

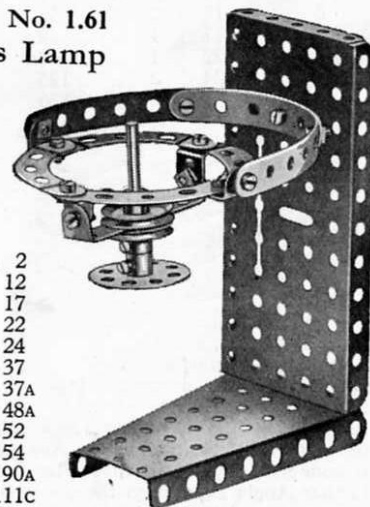
2 of No. 1	2 of No. 22	1 of No. 40
4 " " 2	26 " " 37	2 " " 48A
5 " " 10	6 " " 37A	6 " " 111c
2 " " 11		1 " " 125
8 " " 12		



Model No. 1.60 Locomotive

Parts
required :

7 of No. 5	
1 " " 11	
6 " " 12	
2 " " 16	
4 " " 22	
1 " " 24	
24 " " 37	
4 " " 48A	
1 " " 52	
1 " " 90A	
2 " " 126	

Model No. 1.61
Ship's LampParts
required :

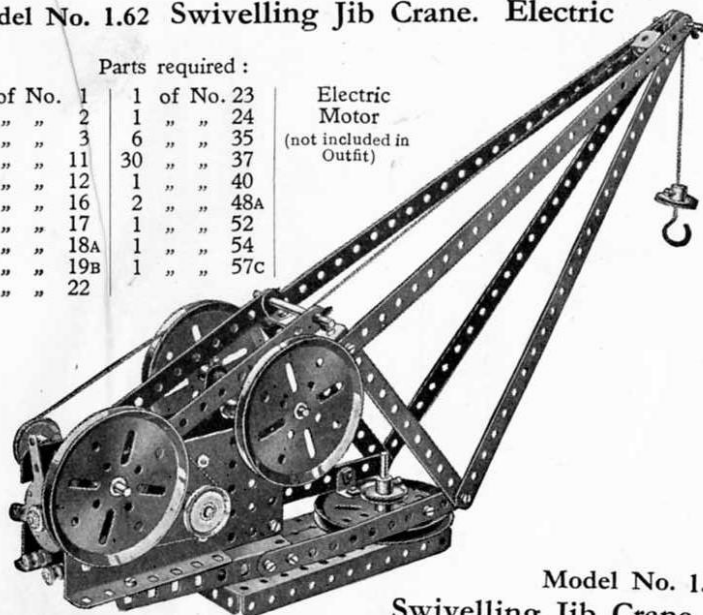
2 of No. 2	
4 " " 12	
1 " " 17	
2 " " 22	
1 " " 24	
11 " " 37	
4 " " 37A	
1 " " 48A	
1 " " 52	
1 " " 54	
4 " " 90A	
2 " " 111c	

These Models can be built with MECCANO Outfit No. 1 (or No. 0 and No. 0A)

Model No. 1.62 Swivelling Jib Crane. Electric

Parts required :

4 of No. 1	1 of No. 23	Electric
6 " " 2	1 " " 24	Motor
1 " " 3	6 " " 35	(not included in
1 " " 11	30 " " 37	Outfit)
6 " " 12	1 " " 40	
2 " " 16	2 " " 48A	
2 " " 17	1 " " 52	
1 " " 18A	1 " " 54	
4 " " 19B	1 " " 57C	
4 " " 22		



Model No. 1.64 Overhead Crane

Parts required

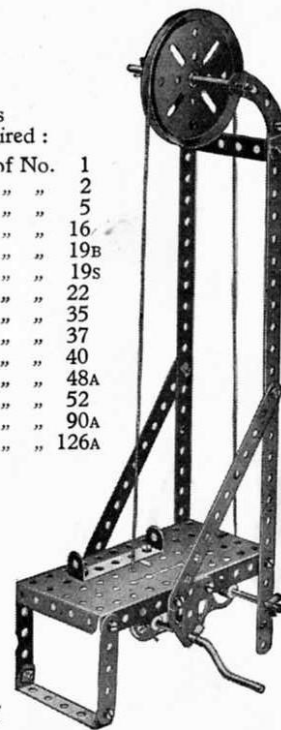
4 of No. 2	5
4 " " 5	10
2 " " 12	12
1 " " 16	16
1 " " 18A	19s
1 " " 19s	22
4 " " 22	23
1 " " 23	24
1 " " 24	35
2 " " 35	37
25 " " 37	38
1 " " 38	40
1 " " 40	48A
6 " " 48A	57C
1 " " 57C	90A
4 " " 90A	100
2 " " 100	



Model No. 1.66 Band Saw

Parts required :

2 of No. 1	5
2 " " 2	5
2 " " 5	16
2 " " 16	19B
1 " " 19B	19s
1 " " 19s	22
2 " " 22	35
6 " " 35	37
18 " " 37	40
1 " " 40	48A
3 " " 48A	52
1 " " 52	90A
2 " " 90A	126A
2 " " 126A	

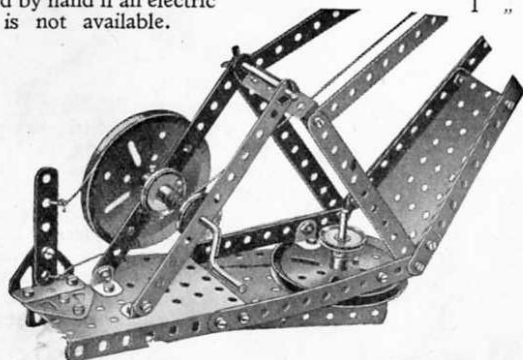


Model No. 1.63 Swivelling Jib Crane, Hand Operated

Parts required :

4 of No. 1	4 of No. 12
6 " " 2	2 " " 17
1 " " 5	1 " " 18A
1 " " 11	2 " " 19B
	1 " " 19s
	4 " " 22
	1 " " 23
	1 " " 24
	4 " " 35
	32 " " 37
	4 " " 38
	1 " " 40
	1 " " 48
	1 " " 48A
	1 " " 52
	2 " " 54
	1 " " 57C
	1 " " 126
	1 " " 126A

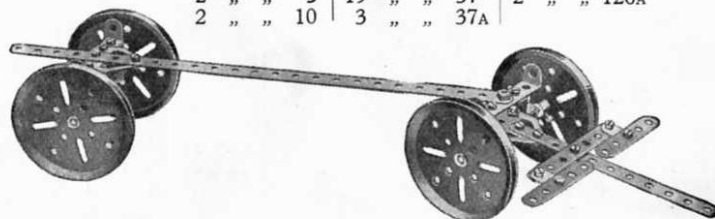
This illustrates an alternative construction of the base of Model No. 1.62, and is intended to show how the model may be operated by hand if an electric motor is not available.



Model No. 1.65 Timber Drag

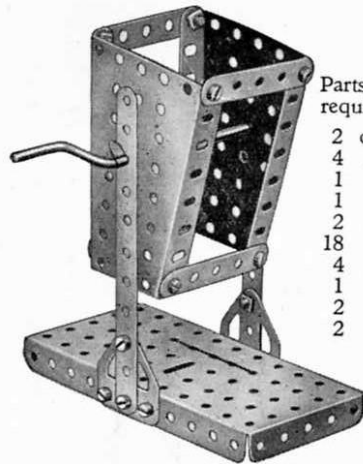
Parts required :

1 of No. 1	2 of No. 11	4 of No. 48A
1 " " 2	2 " " 16	3 " " 111c
1 " " 3	4 " " 19B	2 " " 125
2 " " 5	19 " " 37	2 " " 126A
2 " " 10	3 " " 37A	



These Models can be built with MECCANO Outfit No. 1 (or No. 0 and No. OA)

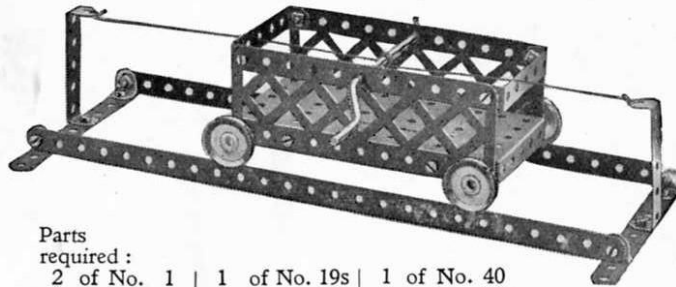
Model No. 1.67 Butter Churn



Parts
required :

2	of No.	2
4	" "	5
1	" "	19s
1	" "	24
2	" "	35
18	" "	37
4	" "	38
1	" "	52
2	" "	54
2	" "	126A

Model No. 1.69 Cable Railway



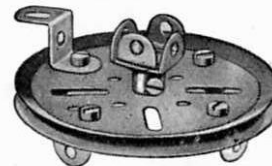
Parts
required :

2	of No.	1	1	of No.	19s	1	of No.	40
2	" "	2	4	" "	22	4	" "	48A
4	" "	12	2	" "	35	1	" "	52
2	" "	16	18	" "	37	2	" "	100

Model No. 1.70 Candle Stick

Parts
required :

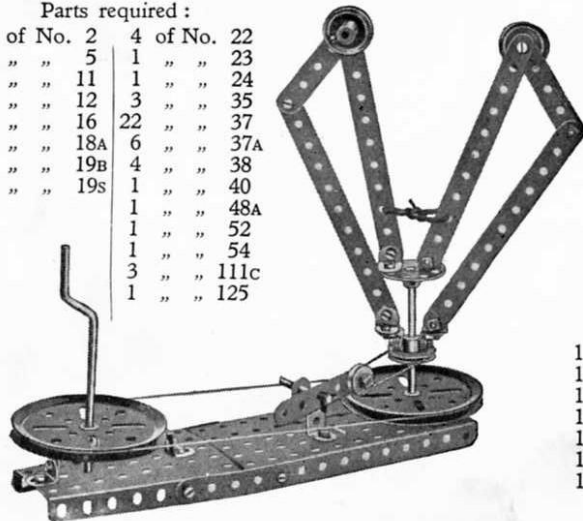
2	of No.	11
4	" "	12
1	" "	19B
4	" "	37
1	" "	111c
1	" "	125



Model No. 1.68 Inverted Centrifugal Governor

Parts required :

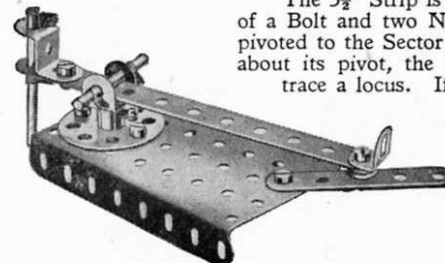
4	of No.	2	4	of No.	22
5	" "	5	1	" "	23
1	" "	11	1	" "	24
8	" "	12	3	" "	35
1	" "	16	22	" "	37
1	" "	18A	6	" "	37A
2	" "	19B	4	" "	38
1	" "	19s	1	" "	40
			1	" "	48A
			1	" "	52
			1	" "	54
			3	" "	111c
			1	" "	125



Model No. 1.71
Machine for Tracing a Locus

Parts required :

1	of No.	2	4	of No.	35
1	" "	5	4	" "	37
1	" "	11	3	" "	37A
1	" "	12	4	" "	38
1	" "	17	4	" "	54
1	" "	18A	2	" "	111c
1	" "	24	1	" "	125



Model No. 1.72
Man and Boy



Parts
required :

4	of No.	2
1	" "	3
1	" "	5
5	" "	10
1	" "	11
8	" "	12
1	" "	22
1	" "	24
26	" "	37
1	" "	52
2	" "	54
1	" "	90A
2	" "	125
1	" "	126A

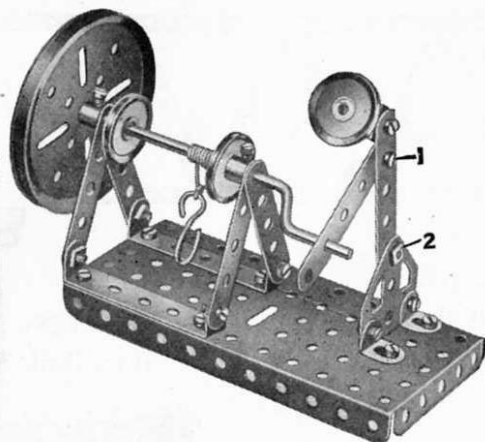
The $5\frac{1}{2}$ " Strip is pivoted to the $2\frac{1}{2}$ " Strip by means of a Bolt and two Nuts, and the $2\frac{1}{2}$ " Strip is similarly pivoted to the Sector Plate. By revolving the $2\frac{1}{2}$ " Strip about its pivot, the vertical $1\frac{1}{2}$ " Rod can be made to trace a locus. If the positions of the $1\frac{1}{2}$ " Rod and the $5\frac{1}{2}$ " Strip are altered, several different loci may be traced. Machines of this type are of advantage in assisting in the design of engine connecting rods.

These Models can be built with MECCANO Outfit No. 1 (or No. O and No. OA)

Model No. 1.73 Windlass

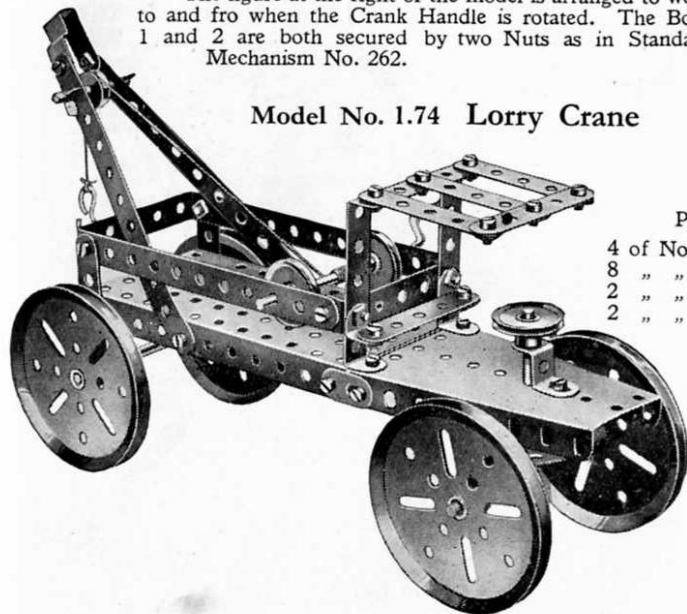
Parts
required :

6 of No.	5
3 "	12
1 "	19B
1 "	19S
3 "	22
5 "	37
4 "	37A
1 "	40
2 "	48A
1 "	52
1 "	57C
3 "	111c
1 "	126A



The figure at the right of the model is arranged to work to and fro when the Crank Handle is rotated. The Bolts 1 and 2 are both secured by two Nuts as in Standard Mechanism No. 262.

Model No. 1.74 Lorry Crane

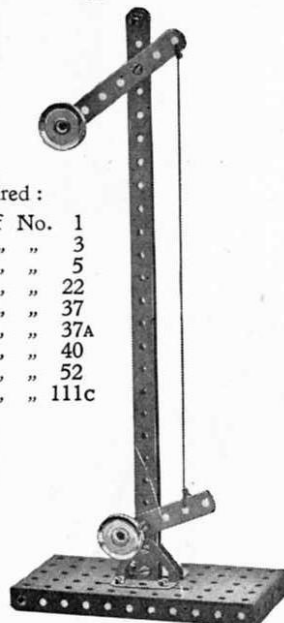


Parts required :

4 of No.	2	2 of No.	16
8 "	5	1 "	17
2 "	10	1 "	18A
2 "	12	4 "	19B
		1 "	19S
		3 "	22
		1 "	23
		1 "	24
		3 "	35
		29 "	37
		1 "	40
		1 "	44
		5 "	48A
		1 "	52
		1 "	54
		1 "	57C
		2 "	125

Model No. 1.75

Signal



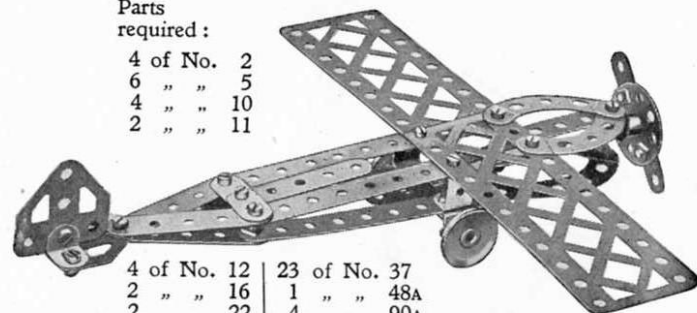
Parts
required :

2 of No.	1
1 "	3
1 "	5
2 "	22
11 "	37
2 "	37A
1 "	40
1 "	52
2 "	111c

Model No. 1.76 Aeroplane

Parts
required :

4 of No.	2
6 "	5
4 "	10
2 "	11

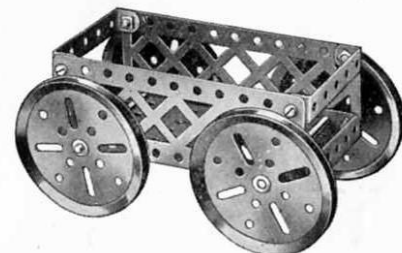


4 of No.	12	23 of No.	37
2 "	16	1 "	48A
2 "	22	4 "	90A
1 "	24	2 "	100
1 "	35	2 "	126A

Model No. 1.77 Truck

Parts
required

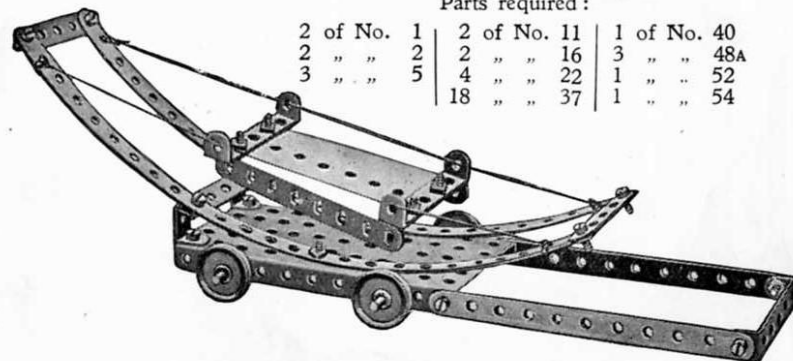
2 of No.	16
4 "	19B
8 "	37
2 "	48A
1 "	52
2 "	100



Model No. 1.78 Mountain Transport

Parts required :

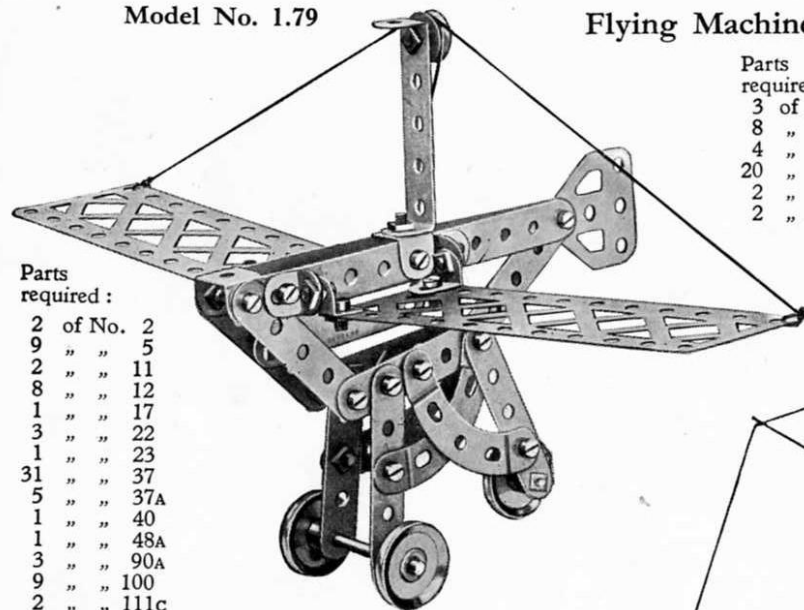
2 of No.	1	2 of No.	11	1 of No.	40
2 "	2	2 "	16	3 "	48A
3 "	5	4 "	22	1 "	52
		18 "	37	1 "	54



These Models can be built with MECCANO Outfit No. 1 (or No. O and No. OA)

Model No. 1.79

Flying Machine



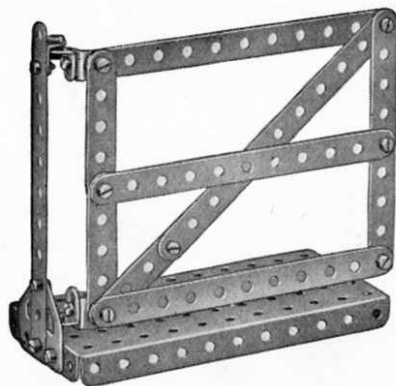
Parts
required :

2	of No.	2
9	" "	5
2	" "	11
8	" "	12
1	" "	17
3	" "	22
1	" "	23
31	" "	37
5	" "	37A
1	" "	40
1	" "	48A
3	" "	90A
9	" "	100
2	" "	111c
2	" "	126A

Parts
required :

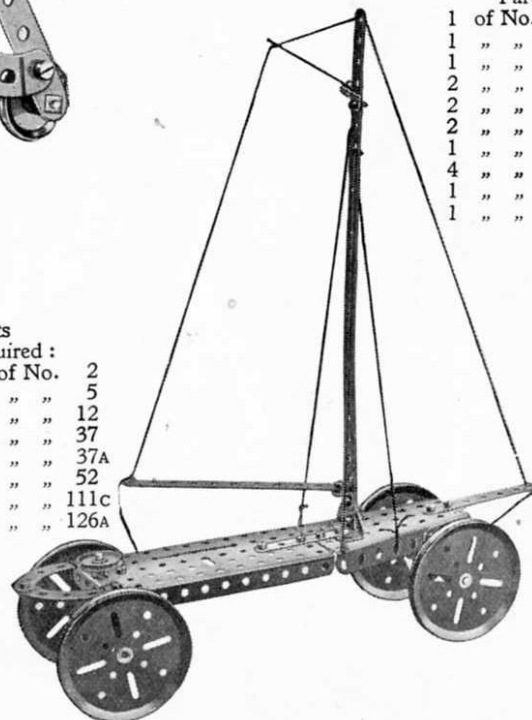
3	of No.	1
8	" "	2
4	" "	12
20	" "	37
2	" "	54
2	" "	100

Model No. 1.80 Gate

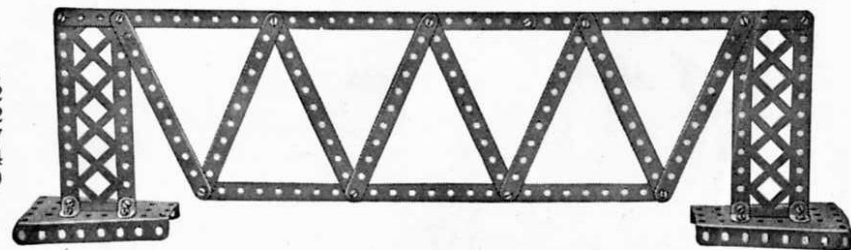


Parts
required :

6	of No.	2
4	" "	5
5	" "	12
13	" "	37
4	" "	37A
1	" "	52
2	" "	111c
1	" "	126A



Model No. 1.81 Inverted Truss



Model No. 1.82

Sand Yacht

Parts required :

1	of No.	1	4	of No.	35
1	" "	2	23	" "	37
1	" "	3	1	" "	40
2	" "	5	1	" "	48A
2	" "	12	1	" "	52
2	" "	16	1	" "	54
1	" "	18A	2	" "	90A
4	" "	19B	1	" "	125
1	" "	22	1	" "	126
1	" "	24	2	" "	126A

Model No. 1.83

Box Ball Alley



Parts
required :

4	of No.	1
4	" "	2
2	" "	5
4	" "	10
31	" "	37
5	" "	48A
1	" "	52
4	" "	90A

Model No. 1.84

Rake

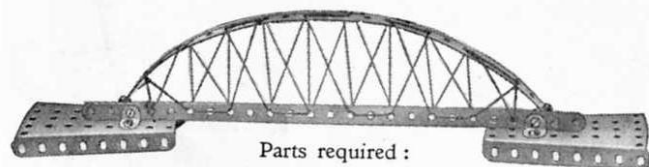
Parts required :

1	of No.	2	4	of No.	10
2	" "	5	1	" "	12
				6	of No. 37



These Models can be built with MECCANO Outfit No. 1 (or No. O and No. OA)

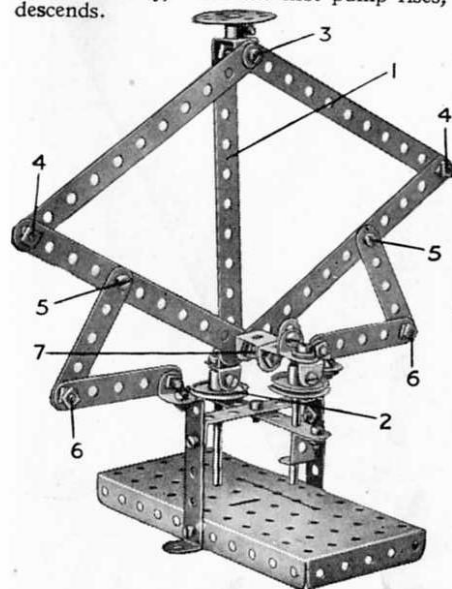
Model No. 1.85 Bow Girder



Parts required:
2 of No. 1 | 6 of No. 37 | 2 of No. 54
4 " " 12 | 1 " " 40

Model No. 1.86 Double-Action Pump

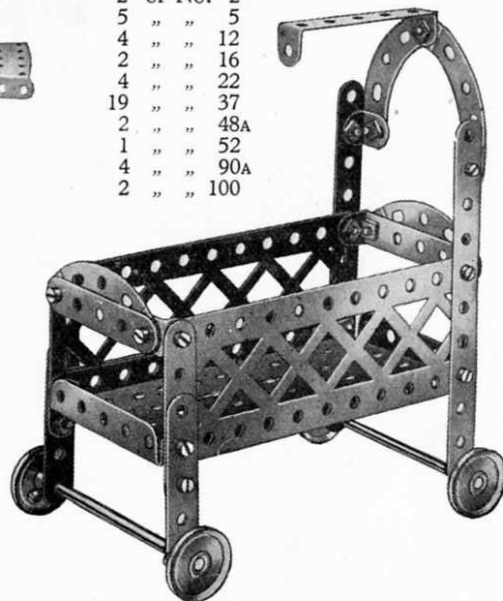
The $5\frac{1}{2}$ " Strip 1 is attached to the 1" Pulley Wheel 2 by means of two Angle Brackets, through the lower of which passes the Set-Screw that secures the Pulley to its 2" Rod. Two Washers are placed beneath the head of the Bolt joining the Angle Brackets in order to prevent its shank from binding on the boss of the Pulley 2. The joints 3, 4, 5, 6, 7, are all lock-nutted, the remainder of the joints being quite rigid. When the Strip 1 descends, together with the first pump, the incidental distortion of the parallelogram 3, 4, 7, 4 causes the second pump to rise. Similarly, when the first pump rises, the second descends.



Parts required:
5 of No. 2
1 " " 3
4 " " 5
2 " " 11
6 " " 12
2 " " 17
2 " " 22
1 " " 24
21 " " 37
6 " " 37A
4 " " 38
3 " " 48A
1 " " 52
6 " " 111c
2 " " 125

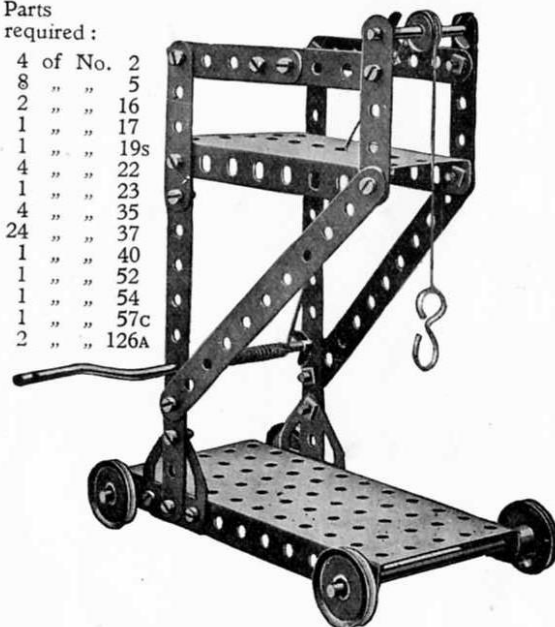
Model No. 1.87 Cot on Wheels

Parts required:
2 of No. 2
5 " " 5
4 " " 12
2 " " 16
4 " " 22
19 " " 37
2 " " 48A
1 " " 52
4 " " 90A
2 " " 100



Model No. 1.88 Tower Wagon

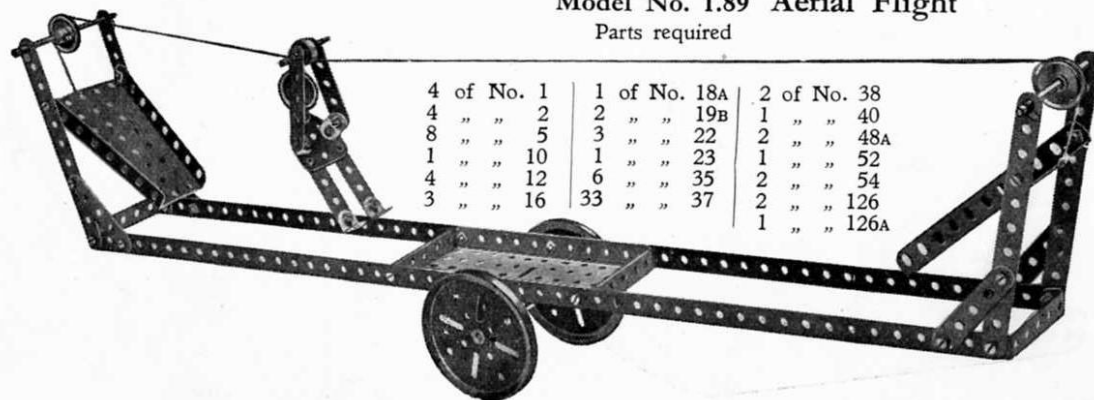
Parts required:
4 of No. 2
8 " " 5
2 " " 16
1 " " 17
1 " " 19s
4 " " 22
1 " " 23
4 " " 35
24 " " 37
1 " " 40
1 " " 52
1 " " 54
1 " " 57c
2 " " 126A



Model No. 1.89 Aerial Flight

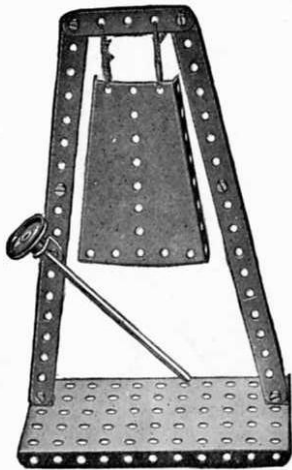
Parts required

4 of No. 1	1 of No. 18A	2 of No. 38
4 " " 2	2 " " 19B	1 " " 40
8 " " 5	3 " " 22	2 " " 48A
1 " " 10	1 " " 23	1 " " 52
4 " " 12	6 " " 35	2 " " 54
3 " " 16	33 " " 37	2 " " 126
		1 " " 126A



These Models can be built with MECCANO Outfit No. 1 (or No. 0 and No. 0A)

Model No. 1.90 Gong



Parts required :

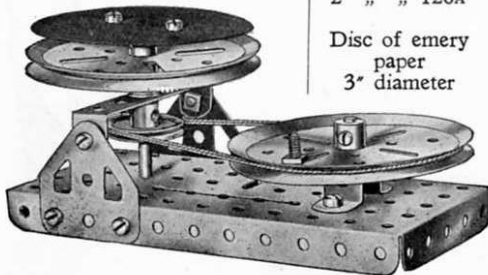
4 of No. 2	1 of No. 22
1 " " 5	9 " " 37
3 " " 12	1 " " 40
1 " " 16	1 " " 52
1 of No. 54	

Model No. 1.91 Emery Wheel

Parts required :

1 of No. 17	1 of No. 24	1 of No. 48A
1 " " 18A	2 " " 35	1 " " 52
2 " " 19B	10 " " 37	1 " " 111c
1 " " 22	1 " " 40	2 " " 125
		2 " " 126A

Disc of emery
paper
3" diameter



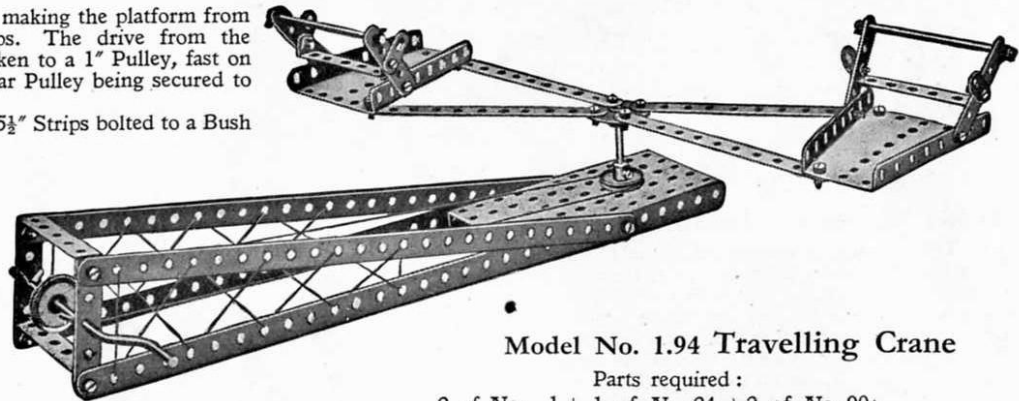
Begin to build this model by making the platform from a Flanged Plate and 12½" Strips. The drive from the Pulley on the Crank Handle is taken to a 1" Pulley, fast on the vertical 2" Rod, another similar Pulley being secured to this Rod beneath the Plate.

The arms are formed of four 5½" Strips bolted to a Bush Wheel fast on the 2" Rod.

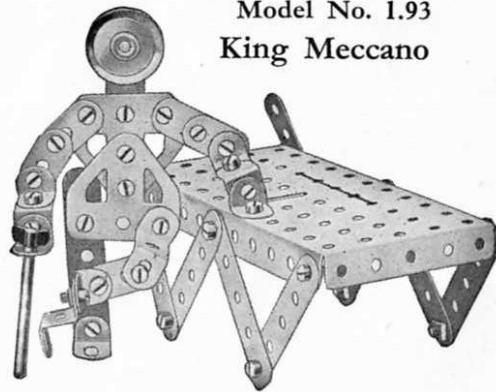
Parts required :

4 of No. 1	3 of No. 22
4 " " 2	1 " " 24
6 " " 5	6 " " 35
4 " " 10	22 " " 37
2 " " 16	1 " " 40
1 " " 17	4 " " 48A
1 " " 19s	1 " " 52
	2 " " 54

Model No. 1.92 Roundabout



Model No. 1.93 King Meccano



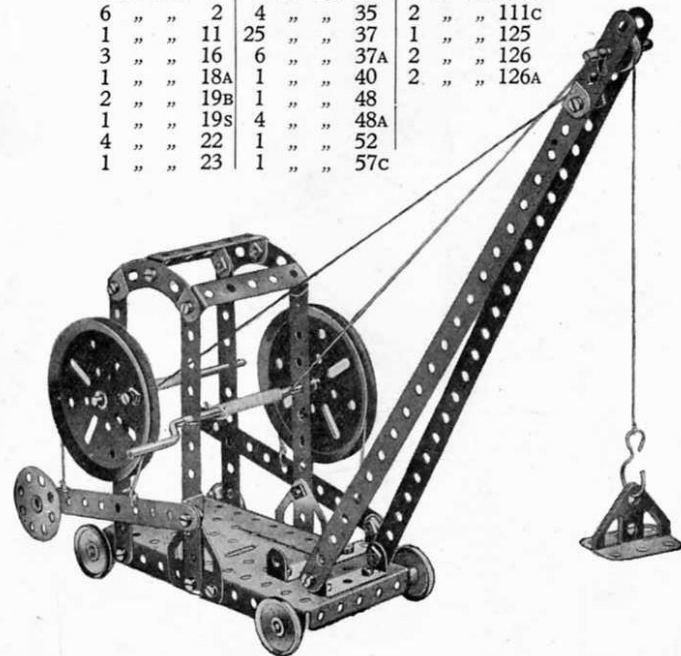
Parts required :

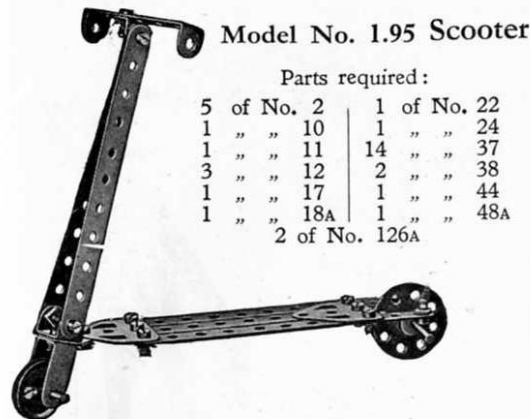
1 of No. 3	1 of No. 35
9 " " 5	30 " " 37
5 " " 10	1 " " 52
8 " " 12	1 " " 111c
1 " " 17	2 " " 125
1 " " 22	2 " " 126A

Model No. 1.94 Travelling Crane

Parts required :

2 of No. 1	1 of No. 24	2 of No. 90A
6 " " 2	4 " " 35	2 " " 111c
1 " " 11	25 " " 37	1 " " 125
3 " " 16	6 " " 37A	2 " " 126
1 " " 18A	1 " " 40	2 " " 126A
2 " " 19B	1 " " 48	
1 " " 19s	4 " " 48A	
4 " " 22	1 " " 52	
1 " " 23	1 " " 57c	





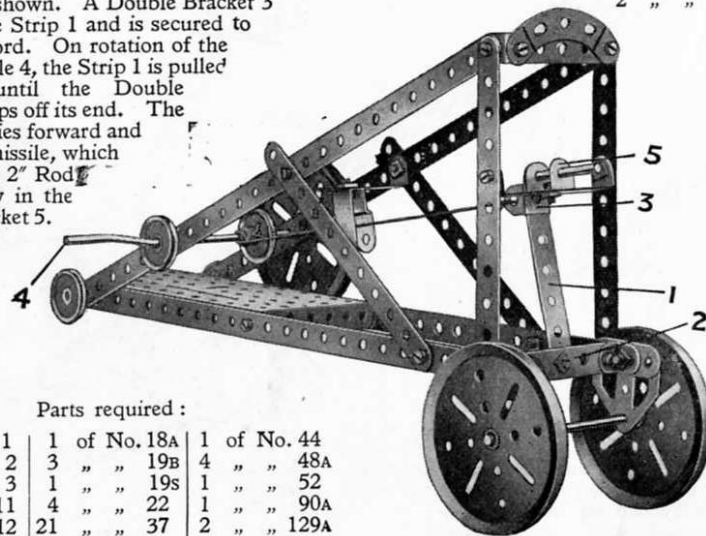
Model No. 1.95 Scooter

Parts required :

5 of No. 2	1 of No. 22
1 " " 10	1 " " 24
1 " " 11	14 " " 37
3 " " 12	2 " " 38
1 " " 17	1 " " 44
1 " " 18A	1 " " 48A
2 of No. 126A	

Model No. 1.96 Ballista

This is a model of an ancient engine of war, resembling the crossbow. The $3\frac{1}{2}$ " Strip 1 is bolted firmly to the Double Angle Strip 2, which is prevented from turning by the addition of Angle Brackets as shown. A Double Bracket 3 slides on the Strip 1 and is secured to a piece of cord. On rotation of the Crank Handle 4, the Strip 1 is pulled backward until the Double Bracket 3 slips off its end. The Strip then flies forward and strikes the missile, which consists of a 2" Rod placed ready in the Double Bracket 5.



Parts required :

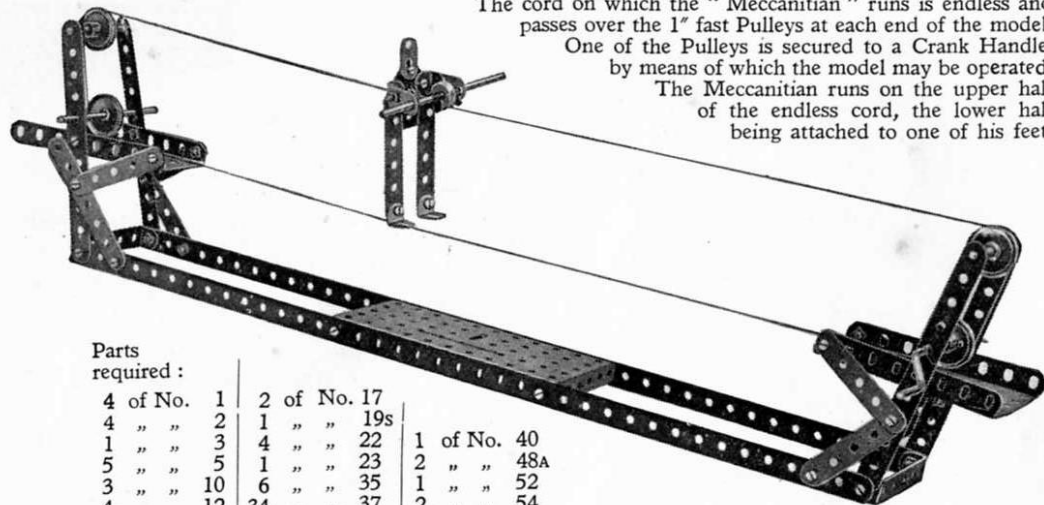
4 of No. 1	1 of No. 18A	1 of No. 44
4 " " 2	3 " " 19B	4 " " 48A
1 " " 3	1 " " 19S	1 " " 52
2 " " 11	4 " " 22	1 " " 90A
2 " " 12	21 " " 37	2 " " 129A
2 " " 16	1 " " 40	

Model No. 1.97 Tight-Rope Walker

The cord on which the "Meccanitian" runs is endless and passes over the 1" fast Pulleys at each end of the model.

One of the Pulleys is secured to a Crank Handle, by means of which the model may be operated.

The Meccanitian runs on the upper half of the endless cord, the lower half being attached to one of his feet.



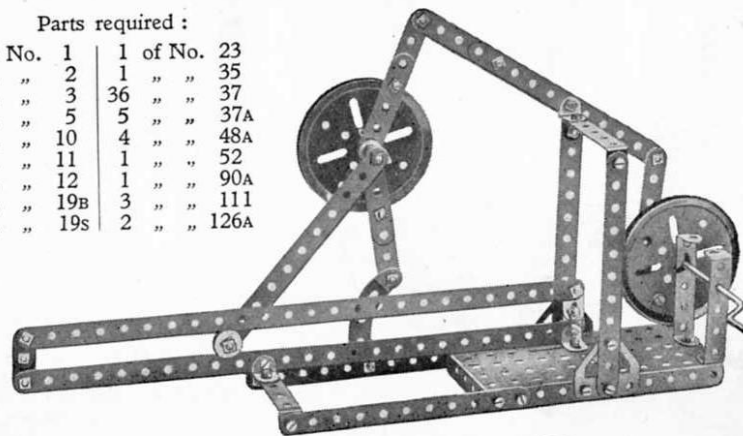
Parts required :

4 of No. 1	2 of No. 17	
4 " " 2	1 " " 19S	1 of No. 40
1 " " 3	4 " " 22	2 " " 48A
5 " " 5	1 " " 23	1 " " 52
3 " " 10	6 " " 35	2 " " 54
4 " " 12	34 " " 37	1 " " 126A
2 " " 16	2 " " 38	

Model No. 1.98 Double-Action Piston Connection

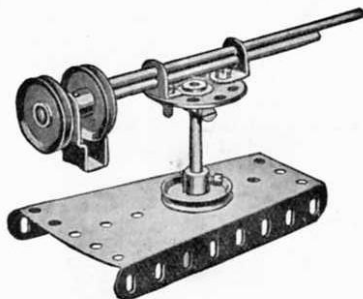
Parts required :

2 of No. 1	1 of No. 23
6 " " 2	1 " " 35
1 " " 3	36 " " 37
5 " " 5	5 " " 37A
4 " " 10	4 " " 48A
2 " " 11	1 " " 52
3 " " 12	1 " " 90A
2 " " 19B	3 " " 111
1 " " 19S	2 " " 126A



These Models can be built with MECCANO Outfit No. 1 (or No. O and No. OA)

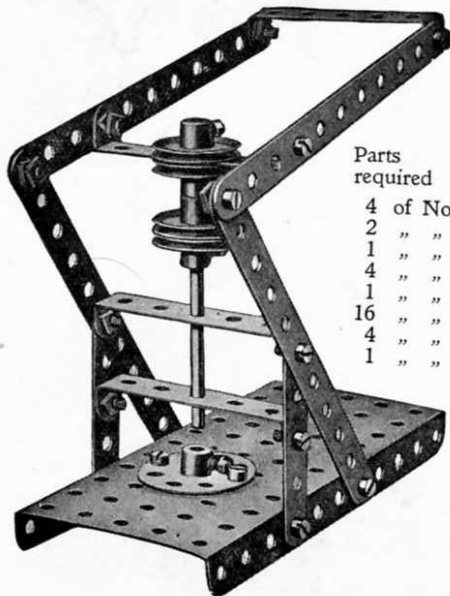
Model No. 1.99 Quick-Firing Gun



Parts required :

2 of No. 12	1 of No. 24
2 " " 16	2 " " 37
1 " " 17	1 " " 44
4 " " 22	1 " " 54

Model No. 1.100 Punching Machine

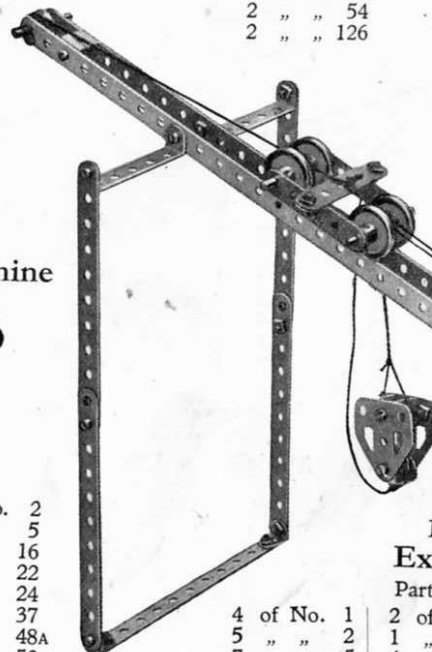


Parts required

4 of No. 2
2 " " 5
1 " " 16
4 " " 22
1 " " 24
16 " " 37
4 " " 48A
1 " " 52

Parts required :

2 of No. 2
2 " " 11
1 " " 18A
2 " " 35
8 " " 37
1 " " 52
2 " " 54
2 " " 126



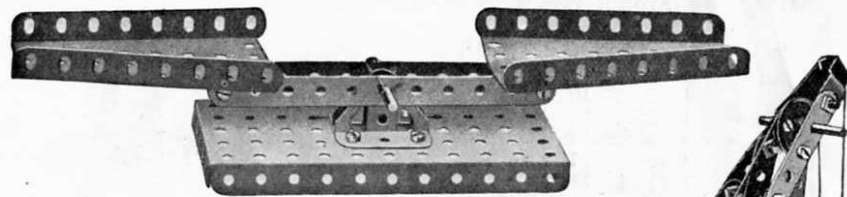
Model No. 1.102 Extended Ash Tip

Parts required :

4 of No. 1	2 of No. 18A	2 of No. 48A
5 " " 2	1 " " 19s	1 " " 52
7 " " 5	4 " " 22	6 " " 111c
2 " " 11	1 " " 24	2 " " 125
8 " " 12	5 " " 35	2 " " 126
1 " " 16	36 " " 37	2 " " 126A
2 " " 17	1 " " 40	

The trolley is operated by means of a cord that is wound round the $1\frac{1}{2}$ " Axle Rod carrying the Bush Wheel, both ends of the cord being secured to the trolley. The bucket is suspended from a cord that winds on to the Crank Handle, and it is tipped by lowering it until a short cord that is attached to the bottom of the bucket and to the trolley, becomes taut. Further lowering causes the bucket to swing over.

Model No. 1.101 Scales



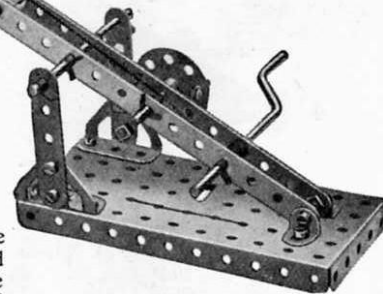
Model No. 1.103 Swivelling Crane

Parts required :

4 of No. 2	1 of No. 25
7 " " 5	1 " " 54
2 " " 12	1 " " 57c
2 " " 17	2 " " 126A
1 " " 19s	
4 " " 22	
1 " " 23	
2 " " 35	
21 " " 37	
3 " " 38	
1 " " 40	
1 " " 44	
1 " " 48A	



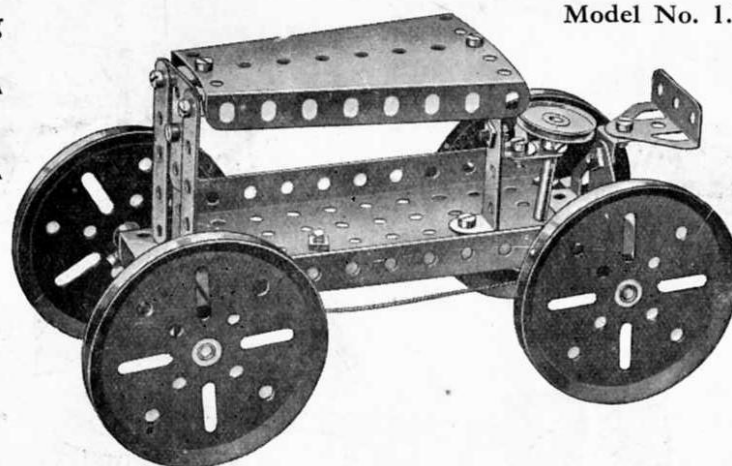
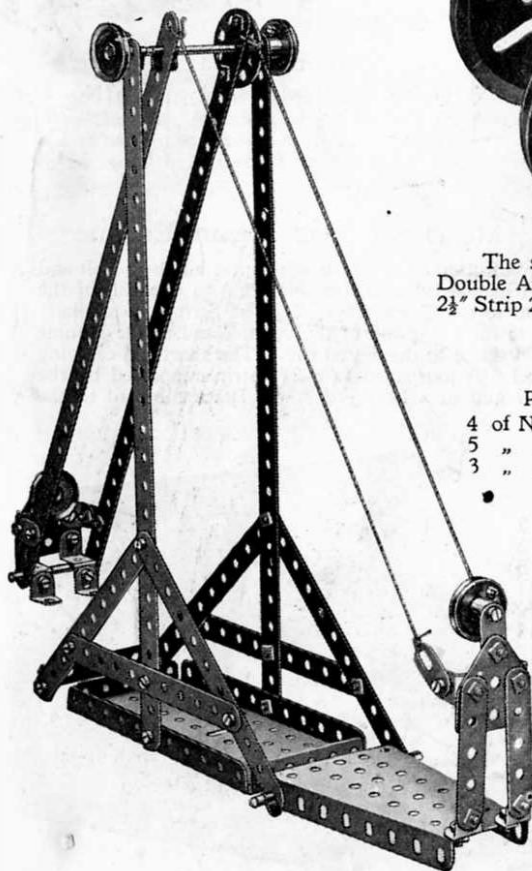
The Sector Plate of the crane in the above model is pivoted to the base with a fast Pulley above and below.



Model No. 1.104 Boy on Swing

Parts required:

4 of No. 1	1 of No. 17	1 of No. 48A
6 " " 2	4 " " 22	1 " " 52
2 " " 5	1 " " 24	1 " " 54
5 " " 10	7 " " 35	2 " " 125
8 " " 12	35 " " 37	2 " " 126A
2 " " 16	1 " " 40	



Model No. 1.105 Motor Tractor

Parts

required:

3 of No. 5	
1 " " 10	
2 " " 12	
2 " " 16	
1 " " 18A	
4 " " 19B	
1 " " 22	
1 " " 24	
15 " " 37	
2 " " 37A	
6 " " 38	
1 " " 40	
4 " " 48A	
1 " " 52	
1 " " 54	
1 " " 111c	
2 " " 126	
1 " " 126A	

The steering gear is shown in Fig. 1.105A. The front wheels are carried in a $2\frac{1}{2}'' \times \frac{1}{2}''$ Double Angle Strip 1, which is mounted pivotally by a Bolt and two Nuts (S.M. 262) to a $2\frac{1}{2}''$ Strip 2 secured to the $5\frac{1}{2}'' \times 2\frac{1}{2}''$ Flanged Plate.

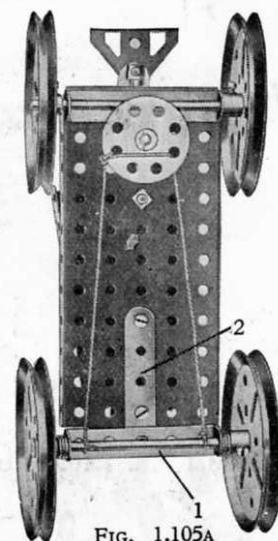
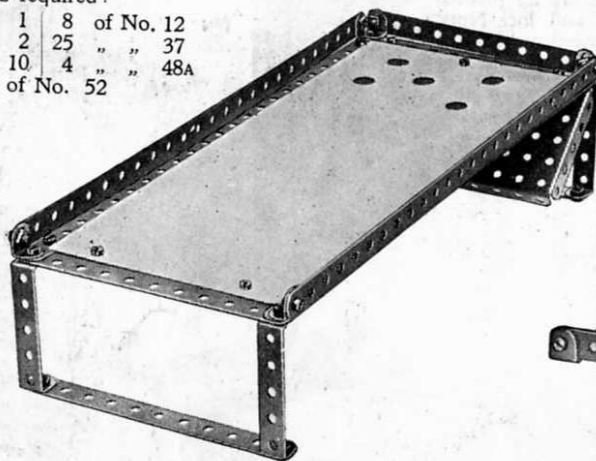


FIG. 1.105A

Model No. 1.106 Bagatelle Table

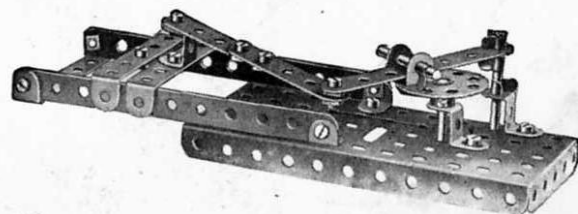
Parts required:

4 of No. 1	8 of No. 12
5 " " 2	25 " " 37
3 " " 10	4 " " 48A
1 of No. 52	

Model No. 1.107
Quick Return Device

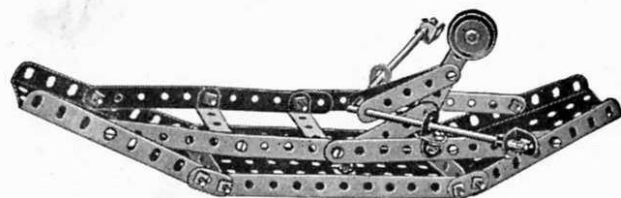
Parts required:

2 of No. 2	1 of No. 24
1 " " 3	6 " " 35
2 " " 5	15 " " 37
2 " " 11	2 " " 37A
2 " " 12	3 " " 48A
1 " " 17	1 " " 52
2 " " 18A	2 " " 125



These Models can be built with MECCANO Outfit No. 1 (or No. O and No. OA)

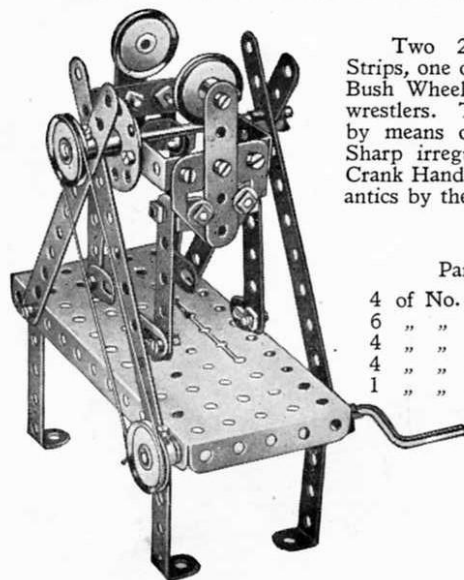
Model No. 1.108 Rowing Boat



Parts required :

4 of No. 2	4 of No. 35
4 " " 5	24 " " 37
4 " " 10	3 " " 48A
7 " " 12	1 " " 52
2 " " 16	2 " " 54
1 " " 22	1 " " 111c

Model No. 1.109 The Wrestlers



Two $2\frac{1}{2} \times \frac{1}{2}$ " Double Angle Strips, one of which is bolted to the Bush Wheel, form the arms of the wrestlers. The legs are all pivoted by means of Bolts and lock-Nuts. Sharp irregular movements of the Crank Handle will result in amusing antics by the wrestlers.

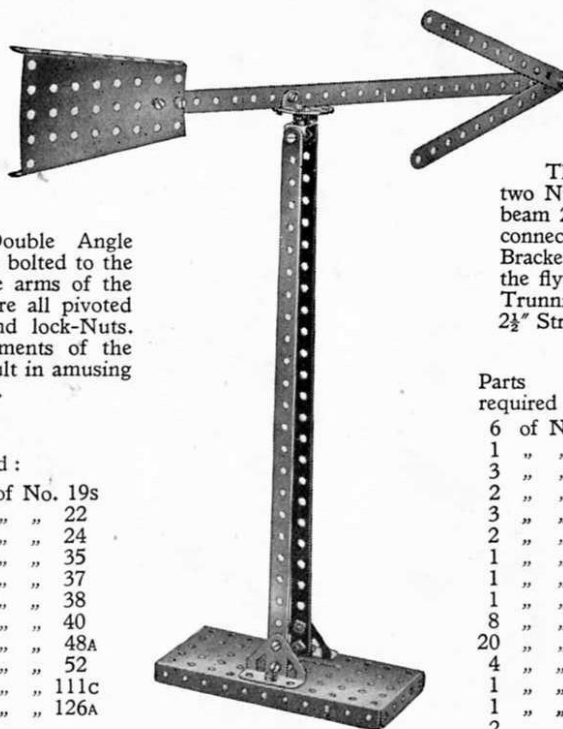
Parts required :

4 of No. 2	1 of No. 19s
6 " " 5	4 " " 22
4 " " 10	1 " " 24
4 " " 12	3 " " 35
1 " " 16	24 " " 37
	5 " " 38
	1 " " 40
	6 " " 48A
	1 " " 52
	2 " " 111c
	2 " " 126A

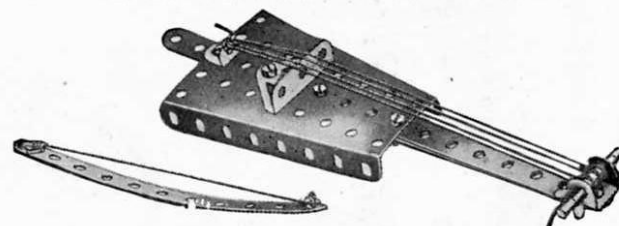
Model No. 1.110 Weather Vane

Parts required :

3 of No. 1	14 of No. 37
2 " " 2	1 " " 52
1 " " 11	1 " " 54
2 " " 12	1 " " 111c
1 " " 24	2 " " 126



Model No. 1.111 Violin and Bow



Parts required

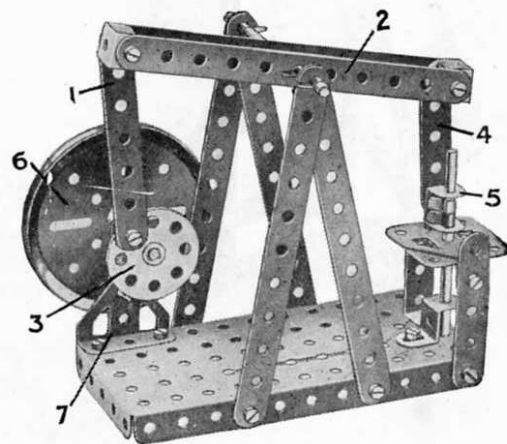
4 of No. 2	1 of No. 12	5 of No. 37
1 " " 5	1 " " 18A	1 " " 40
1 " " 11	2 " " 35	1 " " 54
		1 " " 126

Model No. 1.112 Beam Engine

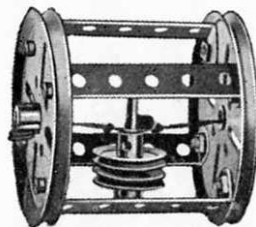
The connecting Strip 1 is attached pivotally by a Bolt and two Nuts (Standard Mechanism No. 262) to one end of the beam 2 and to the Bush Wheel 3. The Strip 4 is similarly connected to the other end of the beam 2 and to the Double Bracket 5 attached to the piston rod. The short rod carrying the flywheel 6 is journaled in a $2\frac{1}{2}$ " Strip supported by the Trunnion 7 and in a Reversed Angle Bracket bolted to the $2\frac{1}{2}$ " Strip.

Parts required

6 of No. 2	2
1 " " 3	3
3 " " 5	5
2 " " 11	11
3 " " 12	12
2 " " 16	16
1 " " 17	17
1 " " 19B	19B
1 " " 24	24
8 " " 35	35
20 " " 37	37
4 " " 37A	37A
1 " " 48	48
1 " " 52	52
2 " " 125	125
1 " " 126	126
2 " " 126A	126A



Model No. 1.113 Cum Bak

Parts
required :

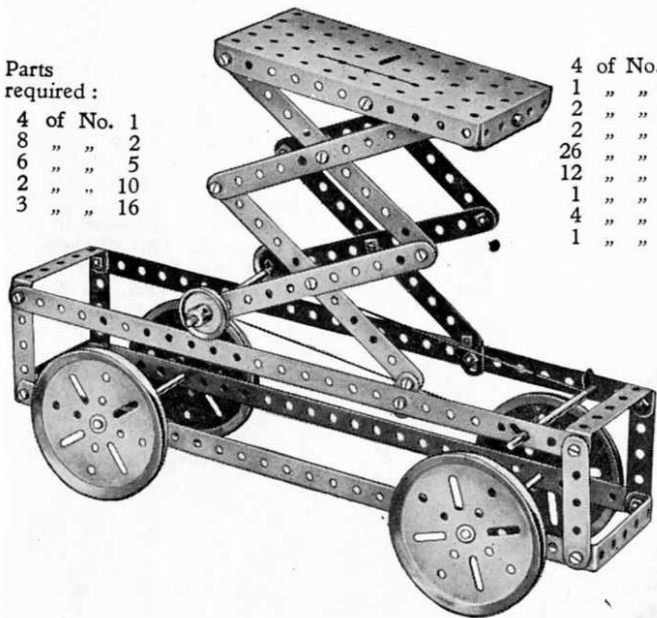
1	of	No. 18A
2	"	19B
2	"	22
1	"	23
1	"	35
8	"	37
4	"	48A

A short length of elastic is doubled and stretched between the centres of the 3" Pulley Wheels. A weight, consisting of two 1" fast Pulley Wheels and a 1½" Rod, is suspended from it in the middle of the drum. When the Cum Bak is rolled along any smooth level surface, the elastic becomes twisted and stores up sufficient energy to return the drum to its starting point. If the mechanism is concealed by a thin cardboard covering, the model will cause much amusement by its mystifying behaviour.

Model No. 1.114 Tower Wagon

Parts
required :

4	of	No. 1
8	"	2
6	"	5
2	"	10
3	"	16

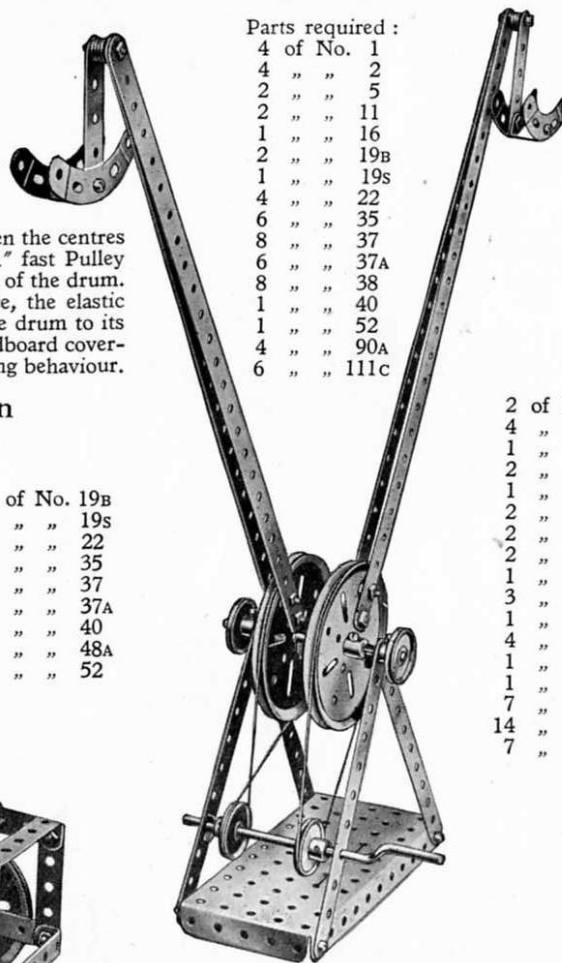


4	of	No. 19B
1	"	19s
2	"	22
2	"	35
26	"	37
12	"	37A
1	"	40
4	"	48A
1	"	52

Model No. 1.115
Flip Flap

Parts required :

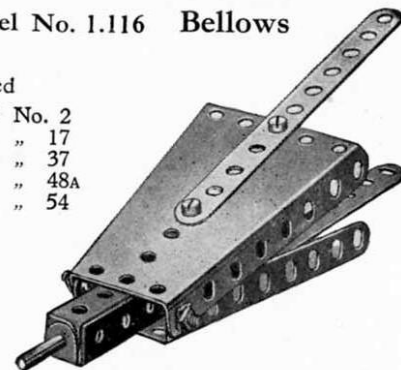
4	of	No. 1
4	"	2
2	"	5
2	"	11
1	"	16
2	"	19B
1	"	19s
4	"	22
6	"	35
8	"	37
6	"	37A
8	"	38
1	"	40
1	"	52
4	"	90A
6	"	111c



Model No. 1.116 Bellows

Parts
required

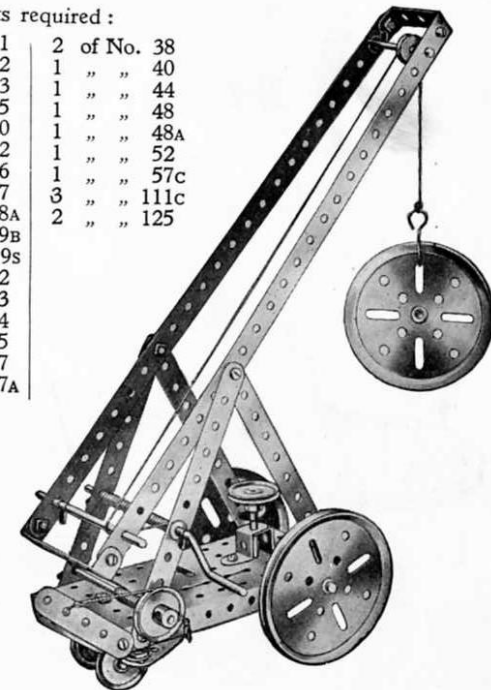
2	of	No. 2
1	"	17
9	"	37
4	"	48A
2	"	54



Model No. 1.117 Mobile Crane

Parts required :

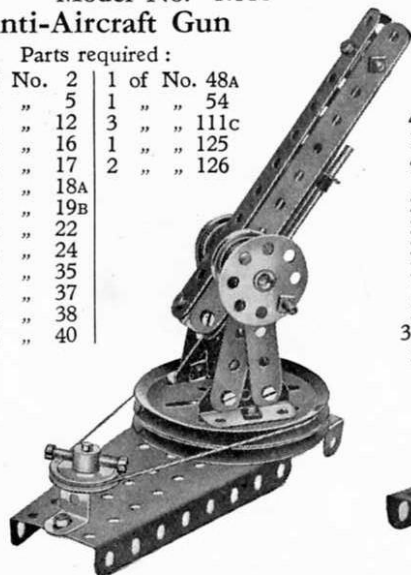
2	of	No. 1	2	of	No. 38
4	"	2	1	"	40
1	"	3	1	"	44
2	"	5	1	"	48
1	"	10	1	"	48A
2	"	12	1	"	52
2	"	16	1	"	57c
2	"	17	3	"	111c
1	"	18A	2	"	125
3	"	19B			
1	"	19s			
4	"	22			
1	"	23			
1	"	24			
7	"	35			
14	"	37			
7	"	37A			



Model No. 1.118 Anti-Aircraft Gun

Parts required:

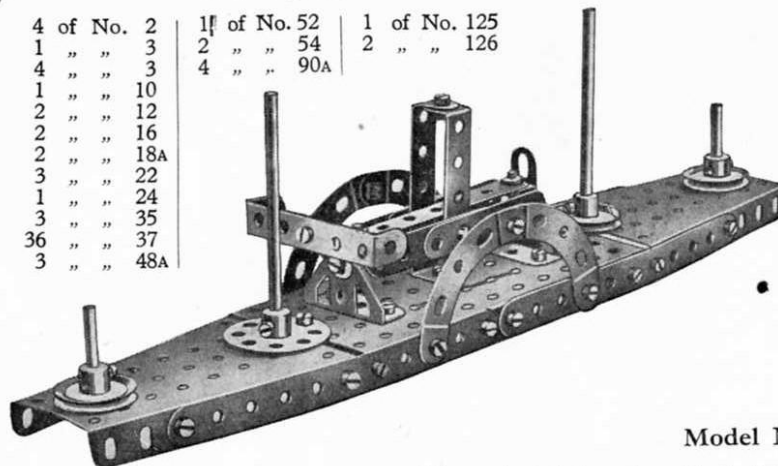
4 of No. 2	1 of No. 48A
4 " " 5	1 " " 54
8 " " 12	3 " " 111c
1 " " 16	1 " " 125
1 " " 17	2 " " 126
2 " " 18A	
2 " " 19B	
3 " " 22	
1 " " 24	
4 " " 35	
18 " " 37	
2 " " 38	
1 " " 40	



Model No. 1.120 Paddle Steamer

Parts required:

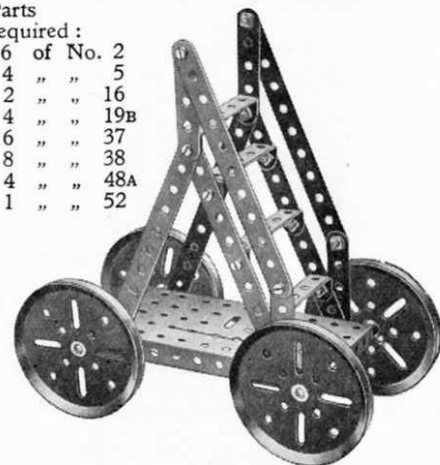
4 of No. 2	1 of No. 52	1 of No. 125
1 " " 3	2 " " 54	2 " " 126
4 " " 3	4 " " 90A	
1 " " 10		
2 " " 12		
2 " " 16		
2 " " 18A		
3 " " 22		
1 " " 24		
3 " " 35		
36 " " 37		
3 " " 48A		



Model No. 1.121 Ladder on Wheels

Parts required:

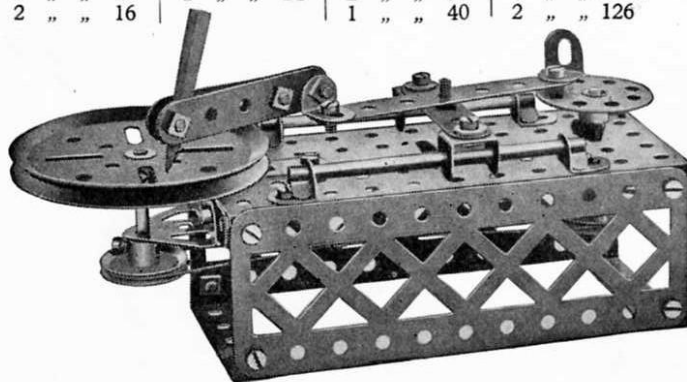
6 of No. 2	5
4 " " 5	16
2 " " 16	19B
4 " " 19B	37
16 " " 37	38
8 " " 38	48A
4 " " 48A	52
1 " " 52	



Model No. 1.119 Meccanograph

Parts required:

1 of No. 3	2 of No. 17	5 of No. 35	2 of No. 48A
4 " " 5	1 " " 19B	21 " " 37	1 " " 52
2 " " 11	2 " " 22	2 " " 37A	2 " " 100
6 " " 12	1 " " 24	2 " " 38	3 " " 111c
2 " " 16		1 " " 40	2 " " 126



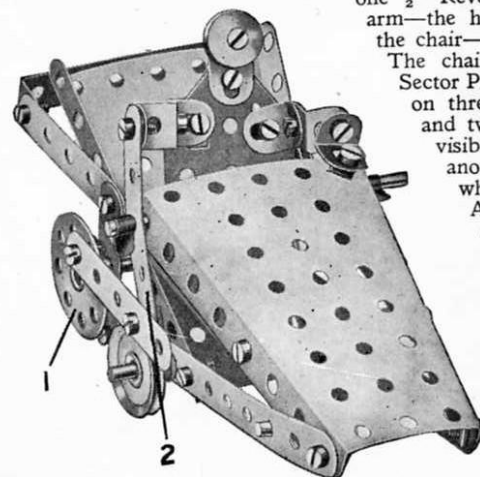
Model No. 1.122 The Invalid

When wheeled along the table the "invalid" appears to push himself energetically along. His neck is a Flat Bracket: his right (or propelling) arm consists of one Angle Bracket and one $\frac{1}{2}$ " Reversed Angle Bracket, and his left arm—the hand of which is bolted loosely to the chair—is formed by three Angle Brackets.

The chair is composed principally of two Sector Plates and four $5\frac{1}{2}$ " Strips, and it runs on three 1" Pulley Wheels—one in front and two at the back. One of these (not visible in the illustration) drives by cord another 1" Pulley Wheel, the shaft of which also carries a Bush Wheel 1. As will be seen, a $2\frac{1}{2}$ " Strip is pivoted at one end to this Bush Wheel and at the other end to a second $2\frac{1}{2}$ " Strip 2, which, rocking about an axle journaled through its centre hole, is again pivoted to the invalid's hands.

Parts required:

4 of No. 2	5
6 " " 5	10
1 " " 10	12
4 " " 12	16
3 " " 16	17
1 " " 17	22
4 " " 22	23
1 " " 23	24
1 " " 24	35
4 " " 35	37
24 " " 37	37A
4 " " 37A	38
3 " " 38	48A
2 " " 48A	54
2 " " 54	125
1 " " 125	126A
1 " " 126A	



These Models can be built with MECCANO Outfit No. 1 (or No. O and No. OA)

Model No. 1.123 Bow and Arrow

Parts required :

1 of No. 1 | 1 of No. 16 | 1 of No. 40

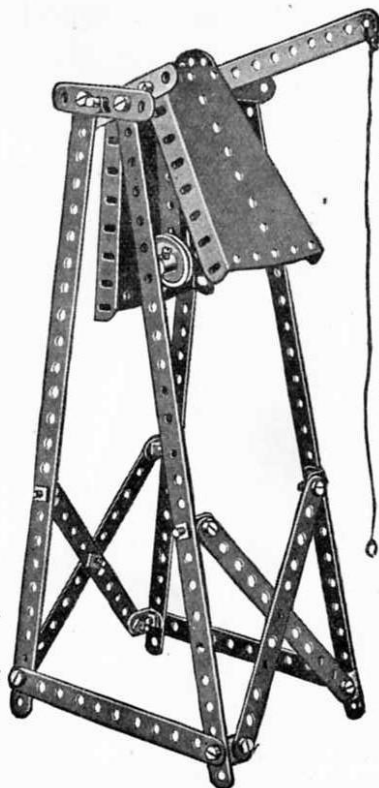
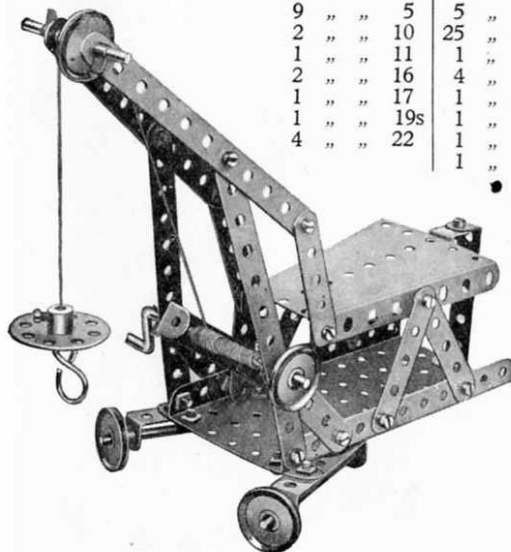


Model No. 1.124 Rotating Crane

The running wheels of this crane are journaled in Double Angle Strips bolted to the base plate and secured at an angle by means of Flat Brackets. The rear of the Base Plate is supported on a Double Bracket. The jib is bolted loosely to the supporting 5" Strips and is connected by 2 1/2" Strips to the Sector Plate which pivots about its supporting bolts. By moving this Sector Plate the elevation of the jib may be altered as desired. The movement is controlled by a Double Angle Crank mounted on the Crank Handle and connected pivotally to the plate by means of a 2 1/2" Strip. A Reversed Angle Bracket bolted to an upright Double Angle Strip in the rear of the model serves to restrict the movement of the Sector Plate.

Parts required :

4 of No. 2	1 of No. 24
9 " " 5	5 " " 35
2 " " 10	25 " " 37
1 " " 11	1 " " 40
2 " " 16	4 " " 48A
1 " " 17	1 " " 52
1 " " 19s	1 " " 54
4 " " 22	1 " " 57c
	1 " " 125



Model No. 1.125 Fire Alarm

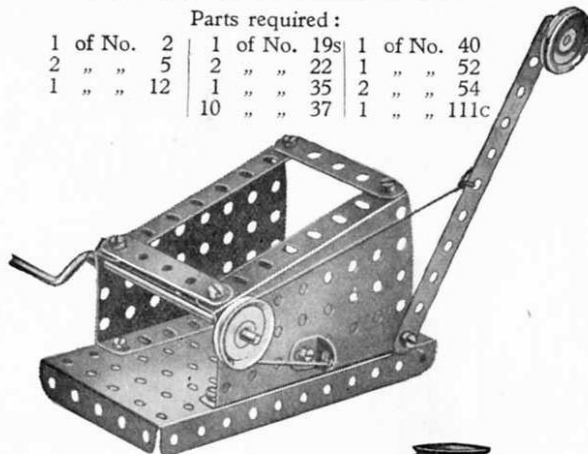
Parts required :

4 of No. 1
7 " " 2
1 " " 3
3 " " 5
8 " " 12
1 " " 16
1 " " 22
1 " " 24
4 " " 35
27 " " 37
2 " " 54

Model No. 1.127 Band Brake

Parts required :

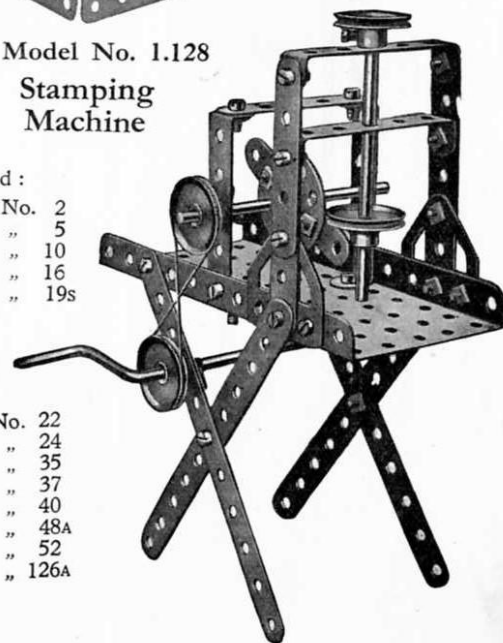
1 of No. 2	1 of No. 19s	1 of No. 40
2 " " 5	2 " " 22	1 " " 52
1 " " 12	1 " " 35	2 " " 54
	10 " " 37	1 " " 111c



Model No. 1.128 Stamping Machine

Parts required :

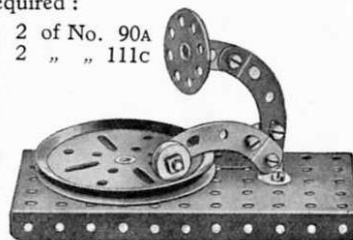
4 of No. 2
5 " " 5
2 " " 10
2 " " 16
1 " " 19s



Model No. 1.126 Gramophone

Parts required :

2 of No. 10	2 of No. 90A
1 " " 12	2 " " 111c
1 " " 19B	
1 " " 23	
1 " " 24	
6 " " 37	
1 " " 38	
1 " " 52	



4 of No. 22
1 " " 24
2 " " 35
22 " " 37
1 " " 40
4 " " 48A
1 " " 52
2 " " 126A

Model No. 1.129 Electric Elevator

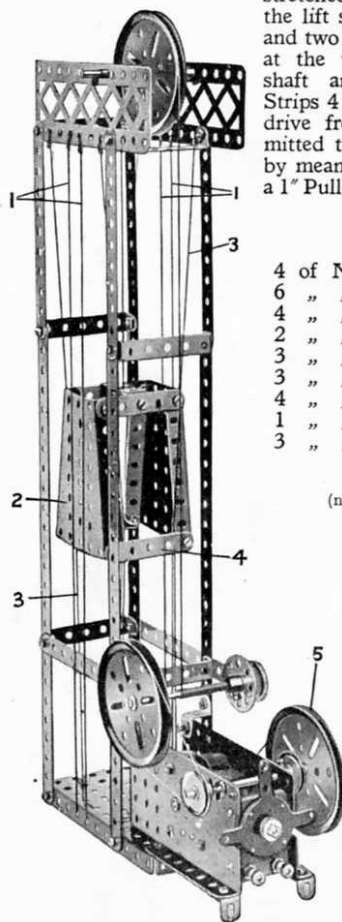
Two pairs of cords 1 are stretched tightly on each side of the lift shaft to guide the cage 2 and two other cords 3 are secured at the top and bottom of the shaft and passed behind 2½" Strips 4 bolted to the cage. The drive from the motor is transmitted to the 3" Pulley Wheel 5 by means of a cord passed round a 1" Pulley on the motor armature.

Parts required

4 of No. 1	34 of No. 37
6 " " 2	1 " " 38
4 " " 5	1 " " 40
2 " " 12	1 " " 48
3 " " 16	6 " " 48A
3 " " 19B	1 " " 52
4 " " 22	2 " " 54
1 " " 24	2 " " 100
3 " " 35	2 " " 125

Electric Motor

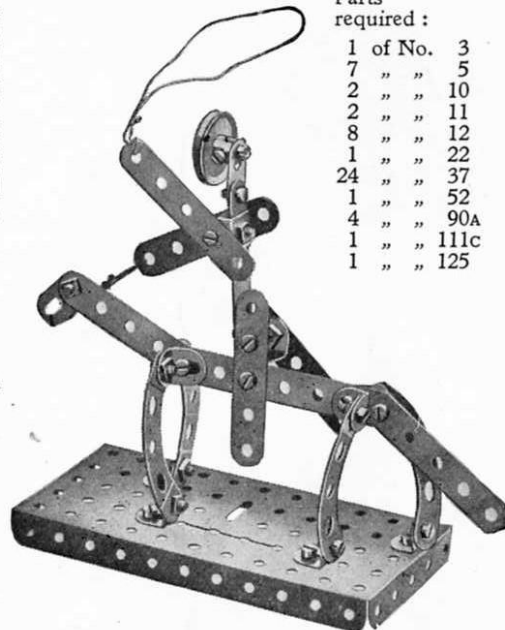
(not included in Outfit).



Model No. 1.130 Mounted Cowboy

Parts required :

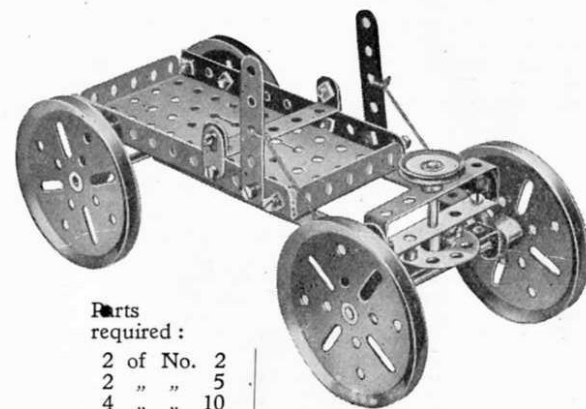
1 of No. 3
7 " " 5
2 " " 10
2 " " 11
8 " " 12
1 " " 22
24 " " 37
1 " " 52
4 " " 90A
1 " " 111c
1 " " 125



Model No. 1.132 Coaster

Parts required :

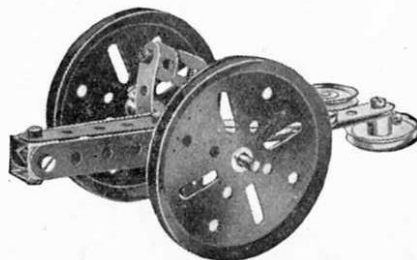
2 of No. 2		
2 " " 5		
4 " " 10		
2 " " 16		
1 " " 18A	22 of No. 37	1 of No. 40
4 " " 19B	2 " " 37A	4 " " 48A
1 " " 22	6 " " 38	1 " " 52
1 " " 24		2 " " 126A



Model No. 1.131 Howitzer

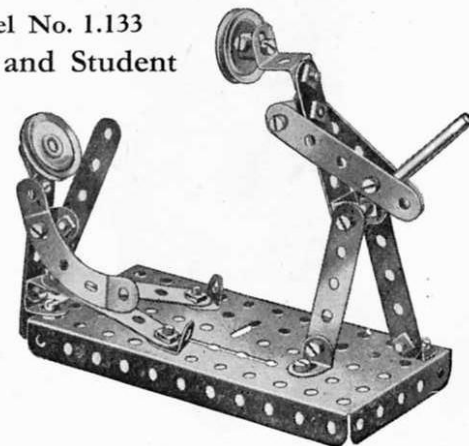
Parts required :

2 of No. 2
6 " " 5
4 " " 10
2 " " 11
4 " " 12
1 " " 16
2 " " 19B
2 " " 22
2 " " 35
14 " " 37
2 " " 38
2 " " 111c
2 " " 125

Model No. 1.133
Master and Student

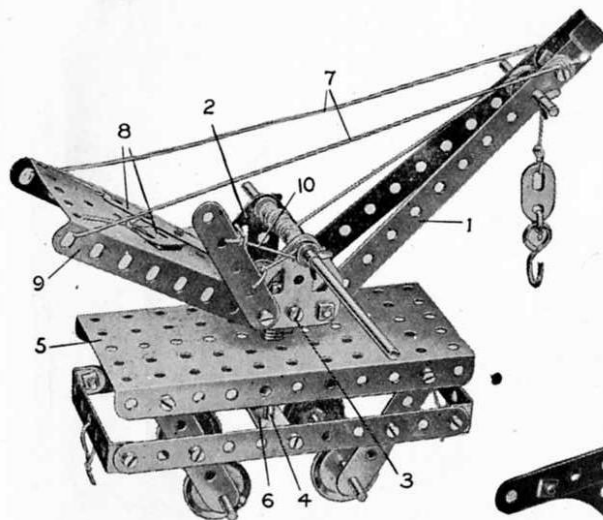
Parts required :

9 of No. 5
1 " " 10
2 " " 11
8 " " 12
2 " " 22
20 " " 37
3 " " 37A
1 " " 52
1 " " 90A
4 " " 111c
1 " " 125



Model No. 1.134 Travelling Crane

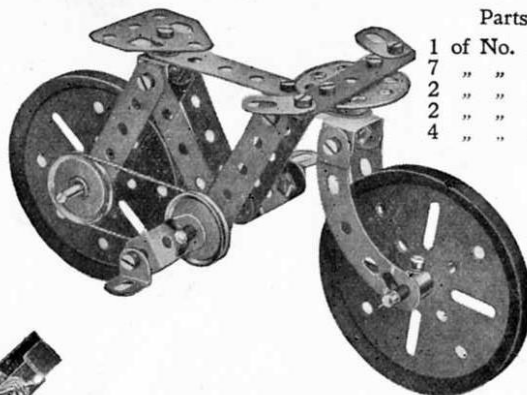
The jib 1 is pivoted to the Flat Trunnions 2, which are bolted to 3 to Angle Brackets secured to a Bush Wheel. The latter is nipped to a 2" Rod 4 passing through the Plate 5 and further supported in a Double Angle Strip 6. A Washer and Spring Clip mounted on the Rod 4 below the Strip 6 secure the crane to the carriage. The jib is supported by means of cords 7 tied to 2½" Strips 8, the holes of which engage the shank of a Bolt passed through the Sector Plate 9, and its elevation may be altered by inserting this bolt in different holes in the Strips 8. The cord 10 of the brake lever is wound once round the Crank Handle, between two Washers.



Parts required :

4 of No. 2	4 of No. 22	1 of No. 44
7 " " 5	1 " " 23	3 " " 48A
1 " " 10	1 " " 24	1 " " 52
2 " " 12	5 " " 35	1 " " 54
2 " " 16	27 " " 37	1 " " 57C
2 " " 17	6 " " 38	2 " " 126A
1 " " 19s	1 " " 40	

Model No. 1.135 Bicycle



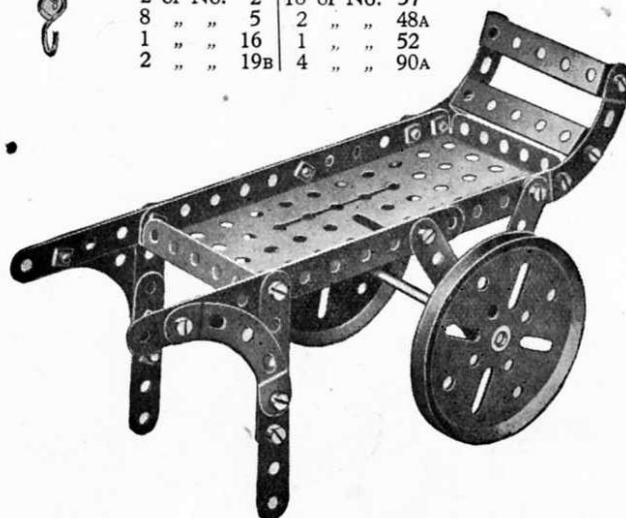
Parts required :

1 of No. 3	2 of No. 17
7 " " 5	1 " " 18A
2 " " 10	2 " " 19B
2 " " 11	2 " " 22
4 " " 12	1 " " 24
	4 " " 35
	13 " " 37
	4 " " 37A
	3 " " 38
	1 " " 40
	2 " " 90A
	4 " " 111C
	2 " " 125
	1 " " 126A

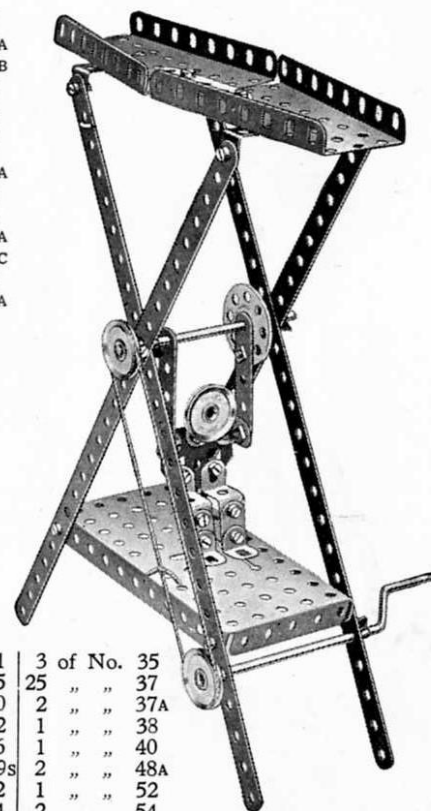
Model No. 1.136 Luggage Truck

Parts required :

2 of No. 2	18 of No. 37
8 " " 5	2 " " 48A
1 " " 16	1 " " 52
2 " " 19B	4 " " 90A



Model No. 1.137 Gymnast



Parts required :

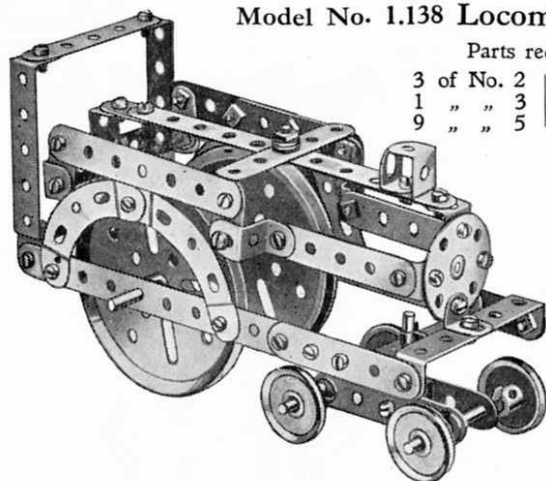
4 of No. 1	3 of No. 35
3 " " 5	25 " " 37
3 " " 10	2 " " 37A
4 " " 12	1 " " 38
1 " " 16	1 " " 40
1 " " 19s	2 " " 48A
3 " " 22	1 " " 52
1 " " 24	2 " " 54
	1 " " 126A

One of the 2½" Strips representing the arms of the gymnast is bolted to a Bush Wheel secured on a 3½" Rod. When the Crank Handle is rotated the gymnast turns complete somersaults in a very amusing manner. The gymnast's "arms" must be pivoted to the Angle Brackets forming his shoulders by means of Bolts and lock-Nuts.

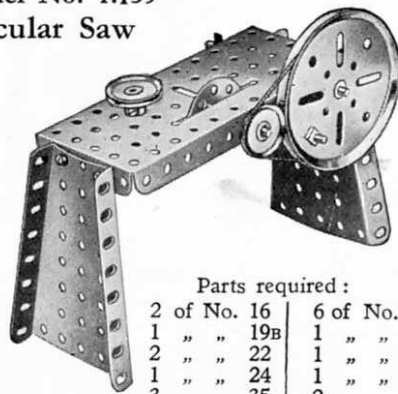
Model No. 1.138 Locomotive

Parts required :

3 of No. 2	5 of No. 10
1 " " 3	2 " " 11
9 " " 5	6 " " 12
	3 " " 16
	1 " " 18A
	2 " " 19B
	4 " " 22
	1 " " 24
	8 " " 35
	36 " " 37
	6 " " 37A
	6 " " 38
	1 " " 48
	6 " " 48A
	4 " " 90A
	6 " " 111c
	2 " " 125



The bogie is connected pivotally to the locomotive body by means of a $1\frac{1}{2}$ " Rod journalled in a Double Bracket, which is secured in the centre of the bogie, and in a $2\frac{1}{2}$ " \times $\frac{1}{2}$ " Double Angle Strip that is secured between the main side frames. Two Spring Clips between the Double Angle Strip and Double Bracket space the bogie at the correct distance.

Model No. 1.139
Circular Saw

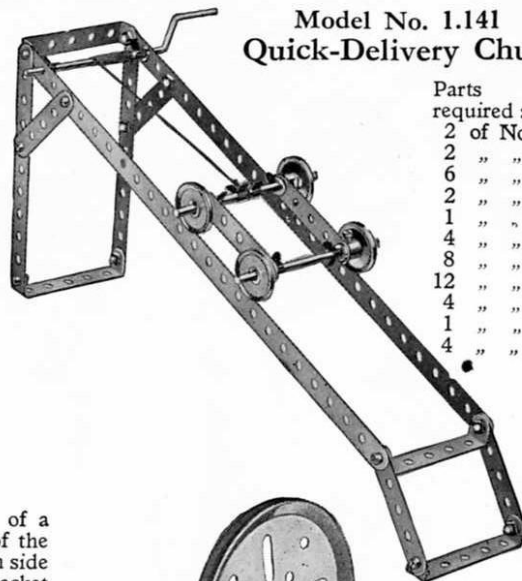
Parts required :

2 of No. 16	6 of No. 37
1 " " 19B	1 " " 37A
2 " " 22	1 " " 40
1 " " 24	1 " " 52
3 " " 35	2 " " 54
2 of No. 111c	

Model No. 1.141
Quick-Delivery Chute

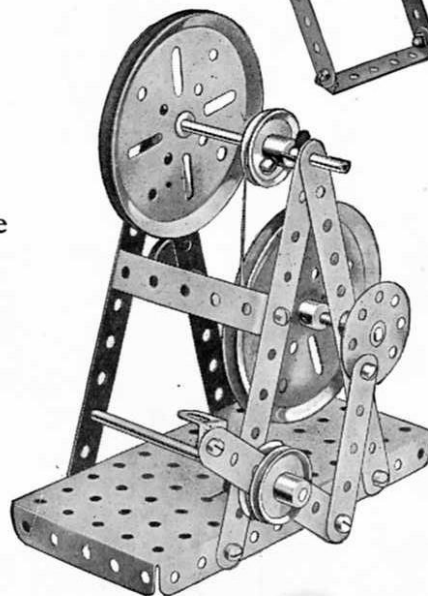
Parts required :

2 of No. 1	2
2 " " 2	2
6 " " 5	5
2 " " 16	16
1 " " 19s	19s
4 " " 22	22
8 " " 35	35
12 " " 37	37
4 " " 38	38
1 " " 40	40
4 " " 48A	48A

Model No. 1.140
Treadle Grindstone

Parts required :

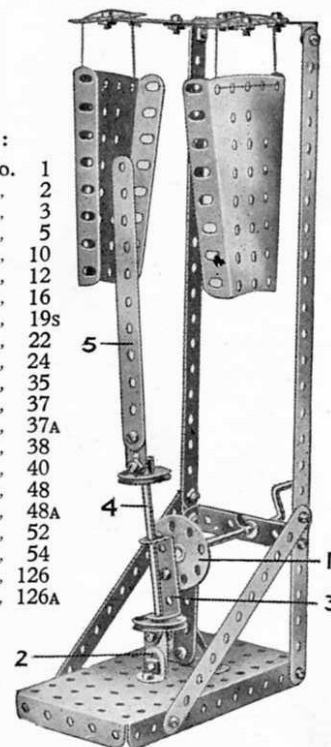
4 of No. 2	2
1 " " 3	3
1 " " 5	5
1 " " 12	12
3 " " 16	16
2 " " 19B	19B
4 " " 22	22
1 " " 24	24
2 " " 35	35
9 " " 37	37
2 " " 37A	37A
1 " " 40	40
1 " " 48A	48A
1 " " 52	52

Model No. 1.142
Mechanical Gong

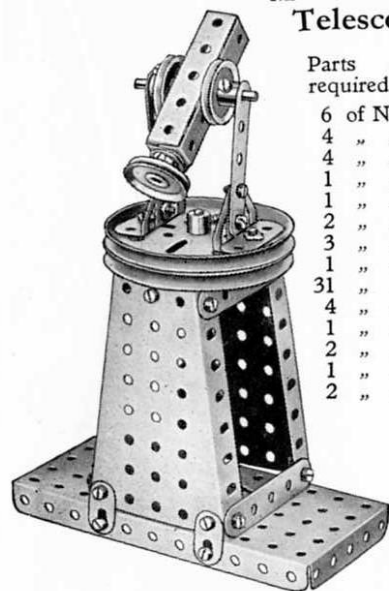
A Flat Bracket is connected pivotally to the base at 2 and is clamped rigidly to a 1" Pulley Wheel secured to the Rod 4. The latter passes through the $1\frac{1}{2}$ " Double Angle Strip 3 and carries at its upper end another Pulley to which is rigidly secured the striking arm 5. The Double Angle Strip 3 is pivoted to the Bush Wheel 1.

Parts required :

2 of No. 1	1
4 " " 2	2
1 " " 3	3
4 " " 5	5
2 " " 10	10
1 " " 12	12
1 " " 16	16
1 " " 19s	19s
2 " " 22	22
1 " " 24	24
2 " " 35	35
26 " " 37	37
1 " " 37A	37A
2 " " 38	38
1 " " 40	40
1 " " 48	48
2 " " 48A	48A
1 " " 52	52
2 " " 54	54
1 " " 126	126
1 " " 126A	126A

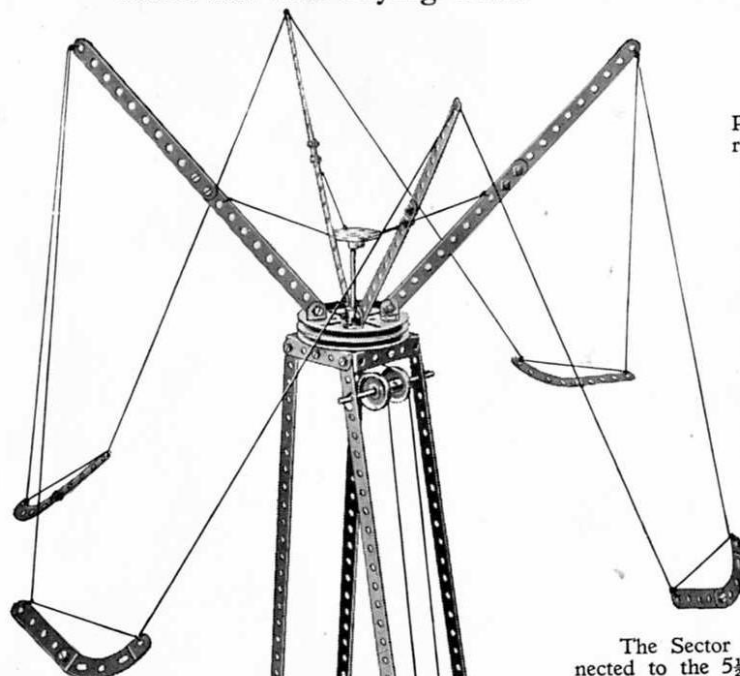


These Models can be built with MECCANO Outfit No. 1 (or No. O and No. OA)

Model No. 1.143
TelescopeParts
required :

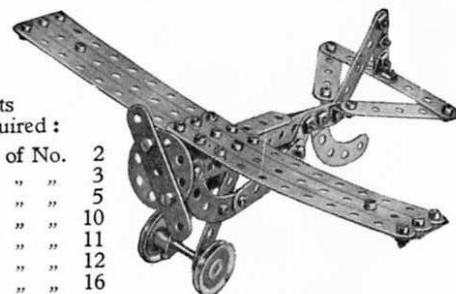
6	of No.	5
4	" "	10
4	" "	12
1	" "	17
1	" "	18A
2	" "	19B
3	" "	22
1	" "	35
31	" "	37
4	" "	48A
1	" "	52
2	" "	54
1	" "	111c
2	" "	126

Model No. 1.145 Flying Boats

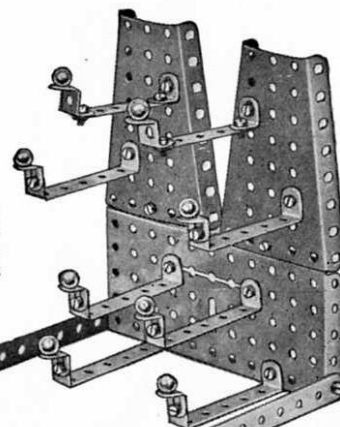
Parts
required :

4	of No.	1
8	" "	2
6	" "	5
8	" "	12
2	" "	16
2	" "	19B
1	" "	19S
4	of No.	22
1	" "	24
4	" "	35
36	" "	37
1	of No.	40
3	" "	48A
4	" "	90A

Model No. 1.146 Aeroplane

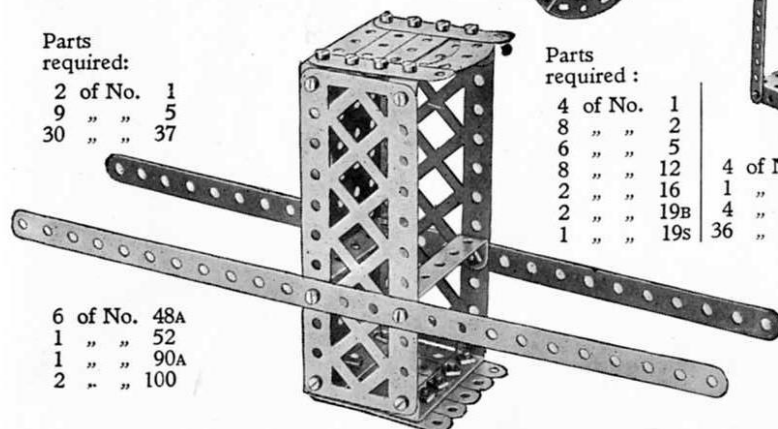
Parts
required :

8	of No.	2
1	" "	3
9	" "	5
4	" "	10
2	" "	11
5	" "	12
1	" "	16
1	" "	18A
2	" "	22
1	" "	24
1	" "	35
36	" "	37
3	" "	90A
6	" "	111c
2	" "	126A

Model No. 1.147
Coco-nut Shy

The Sector Plates are connected to the $5\frac{1}{2} \times 2\frac{1}{2}$ " Flanged Plate by two Flat Brackets. Marbles or Meccano Steel Balls may be used for coco-nuts.

Model No. 1.144 Sedan Chair

Parts
required:

2	of No.	1
9	" "	5
30	" "	37

6	of No.	48A
1	" "	52
1	" "	90A
2	" "	100

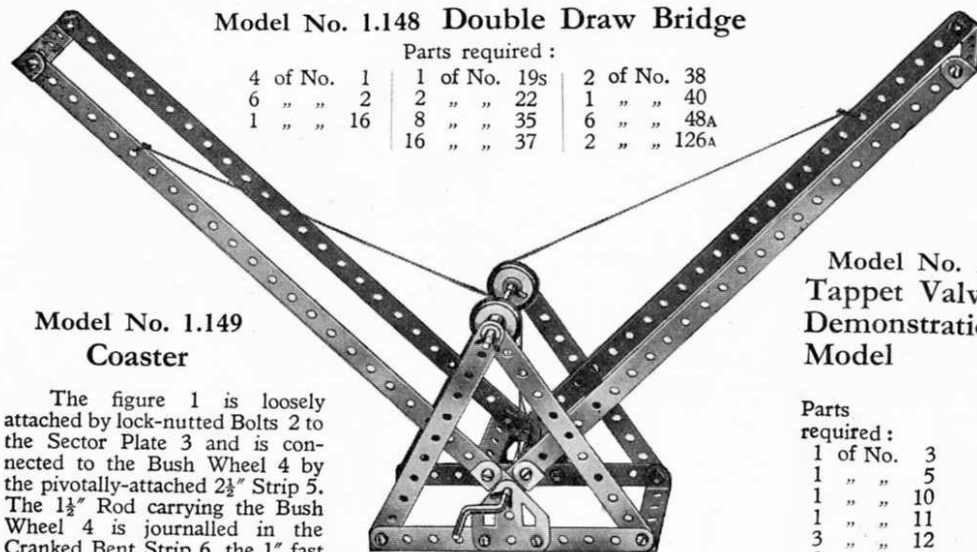
Parts required :

2	of No.	1	8	of No.	12
1	" "	2	26	" "	37
3	" "	5	6	" "	48A
2	" "	10	1	" "	52
2	" "	11	2	" "	54

Model No. 1.148 Double Draw Bridge

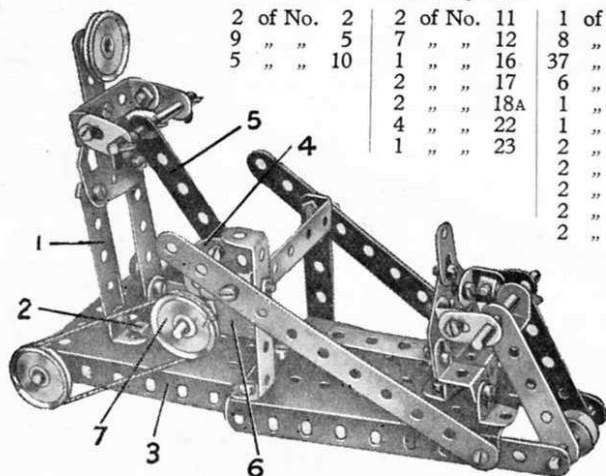
Parts required :

4 of No. 1	1 of No. 19s	2 of No. 38
6 " " 2	2 " " 22	1 " " 40
1 " " 16	8 " " 35	6 " " 48A
	16 " " 37	2 " " 126A



Model No. 1.149 Coaster

The figure 1 is loosely attached by lock-nutted Bolts 2 to the Sector Plate 3 and is connected to the Bush Wheel 4 by the pivotally-attached $2\frac{1}{2}$ " Strip 5. The $1\frac{1}{2}$ " Rod carrying the Bush Wheel 4 is journaled in the Cranked Bent Strip 6, the 1" fast Pulley 7 being connected to the road wheel by a cord as shown.



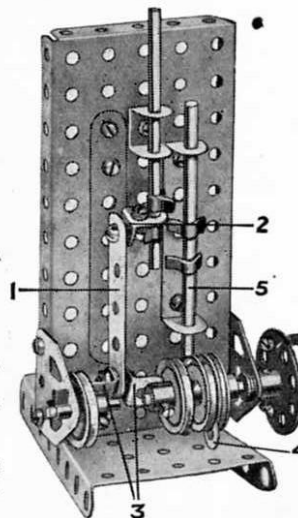
Parts required :

2 of No. 2	2 of No. 11	1 of No. 24
9 " " 5	7 " " 12	8 " " 35
5 " " 10	1 " " 16	37 " " 37
	2 " " 17	6 " " 37A
	2 " " 18A	1 " " 40
	4 " " 22	1 " " 48
	1 " " 23	2 " " 48A
		2 " " 54
		2 " " 111c
		2 " " 125
		2 " " 126A

Model No. 1.150 Tappet Valve Demonstration Model

Parts required :

1 of No. 3	5
1 " " 10	11
1 " " 11	12
3 " " 12	16
2 " " 17	18A
1 " " 22	24
1 " " 24	35
5 " " 37	37A
15 " " 38	48A
4 " " 52	54
1 " " 54	111c
2 " " 111c	126A
2 " " 126A	

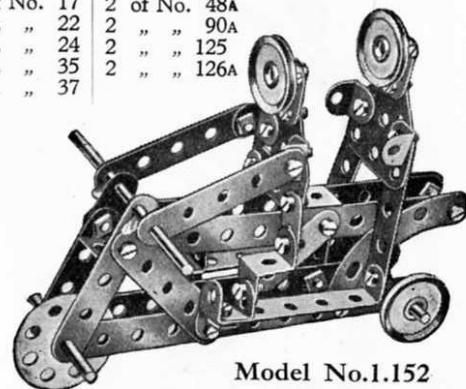


The upper end of the Strip 1 is connected pivotally by a Bolt and two Nuts to the crosshead bracket 2. The crankshaft is built up as follows : Two Angle Brackets 3 are each secured rigidly to the boss of a Pulley Wheel and are connected to each other by a $\frac{3}{8}$ " Bolt carrying three Nuts. The Nuts are screwed tightly against the Brackets, sufficient space being left between the inner pair to enable the connecting Strip 1 to turn freely. The valve Rod 5 is operated by the Flat Bracket 4 that is clamped between two further 1" Pulleys on the crankshaft in such a way that its protruding end serves as a cam.

Model No. 1.151 Motor Cyclist and Pillion Rider

Parts required :

4 of No. 2	2 of No. 17	2 of No. 48A
9 " " 5	4 " " 22	2 " " 90A
4 " " 10	1 " " 24	2 " " 125
2 " " 11	2 " " 35	2 " " 126A
8 " " 12	30 " " 37	
1 " " 16		



Model No. 1.152 Chinese Windlass

Parts required :

4 of No. 1	3
1 " " 18A	19B
1 " " 19s	22
3 " " 23	24
1 " " 24	37
8 " " 37	40
1 " " 40	44
2 " " 48A	52
1 " " 52	57c
1 " " 57c	



These Models can be built with MECCANO Outfit No. 1 (or No. O and No. OA)

Model No. 1.154 Foot Hammer

Parts
required :

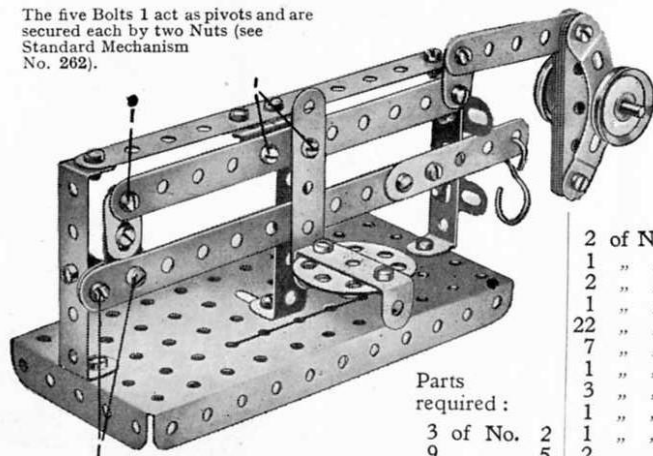
6 of No.	2
1 " "	3
9 " "	5
1 " "	12
2 " "	16
4 " "	22
1 " "	24
2 " "	35
15 " "	37
4 " "	37A
2 " "	38
2 " "	48A
1 " "	52
4 " "	90A
2 " "	111c



The treadle lever is connected pivotally to a $3\frac{1}{2}$ " Strip by a Bolt and two Nuts. The upper end of this Strip is similarly connected to a $2\frac{1}{2}$ " Strip that is clamped tightly between two Pulleys on the hammer Rod. Pressure on the treadle causes the hammer to descend on the work. When the treadle is released a weight pulls the hammer back to its original position.

Model No. 1.155 Heavy Duty Scales

The five Bolts 1 act as pivots and are secured each by two Nuts (see Standard Mechanism No. 262).



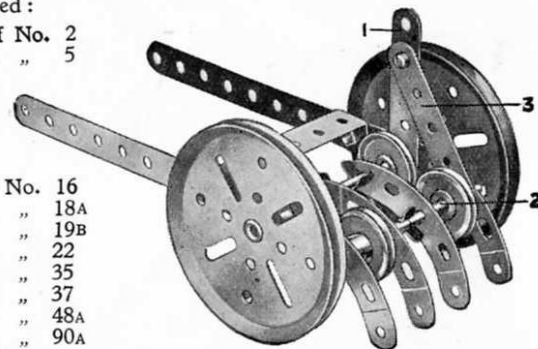
Parts
required :

3 of No.	2
9 " "	5
5 " "	10
2 of No.	12
1 " "	18A
2 " "	22
1 " "	24
22 " "	37
7 " "	37A
1 " "	48
3 " "	48A
1 " "	52
1 " "	57c
2 " "	90A
2 " "	111c

Model No. 1.156 Horse Rake

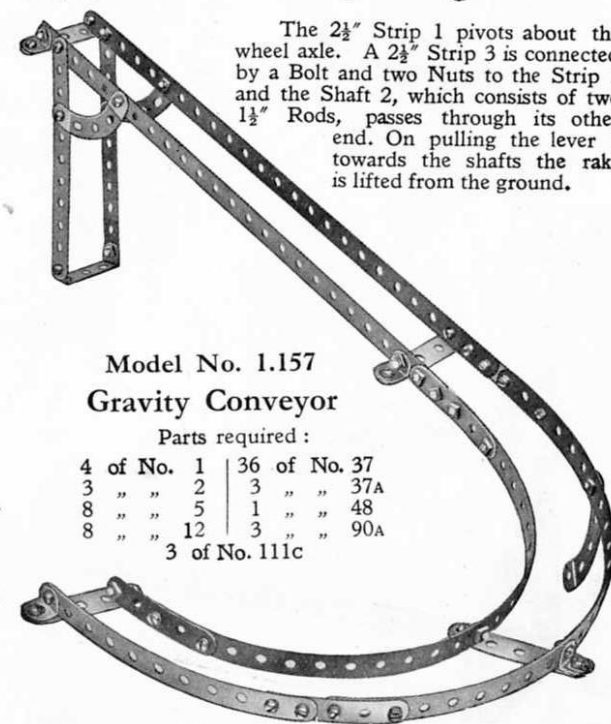
Parts
required :

2 of No.	2
2 " "	5



1 of No.	16
2 " "	18A
2 " "	19B
4 " "	22
7 " "	35
3 " "	37
1 " "	48A
4 " "	90A

The $2\frac{1}{2}$ " Strip 1 pivots about the wheel axle. A $2\frac{1}{2}$ " Strip 3 is connected by a Bolt and two Nuts to the Strip 1 and the Shaft 2, which consists of two $1\frac{1}{2}$ " Rods, passes through its other end. On pulling the lever 1 towards the shafts the rake is lifted from the ground.



Model No. 1.157 Gravity Conveyor

Parts required :

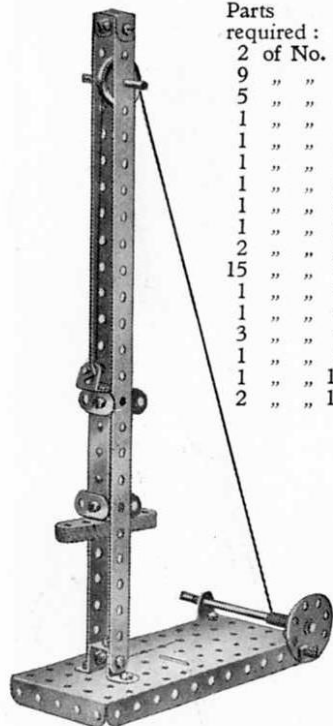
4 of No.	1	36 of No.	37
3 " "	2	3 " "	37A
8 " "	5	1 " "	48
8 " "	12	3 " "	90A
3 of No. 111c			

Model No. 1.153

Pile Driver

Parts
required :

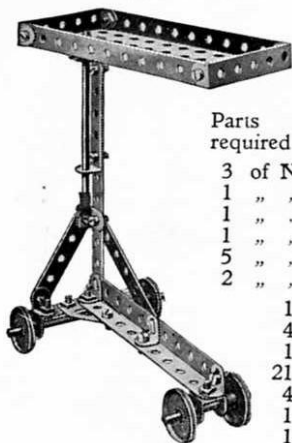
2 of No.	1
9 " "	5
5 " "	10
1 " "	11
1 " "	12
1 " "	16
1 " "	17
1 " "	22
1 " "	24
2 " "	35
15 " "	37
1 " "	37A
1 " "	40
3 " "	48A
1 " "	52
1 " "	111c
2 " "	125



The winding cord is passed round the Pulley at the top of the model and is fastened to an Angle Bracket that is hooked under the protruding portion of a Flat Bracket bolted to the top of the driving head. When the Angle Bracket reaches the Pulley at the top it is pushed out a little, thus releasing the driving head.

These Models can be built with MECCANO Outfit No. 1 (or No. O and No. OA)

Model No. 1.158 Bed Table



Parts
required :

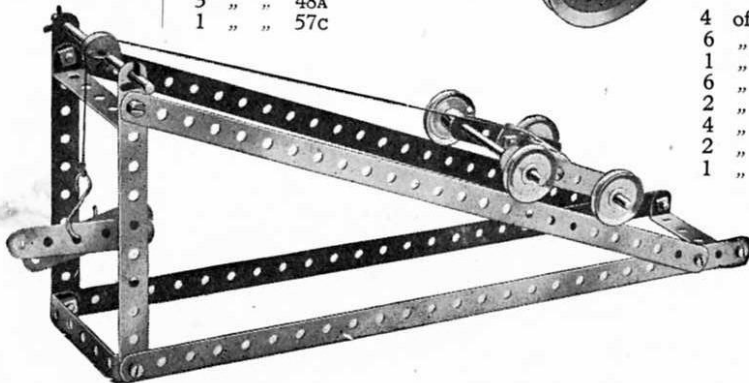
3	of No.	2
1	"	3
1	"	5
1	"	11
5	"	12
2	"	16

1	of No.	27
4	"	22
1	"	24
21	"	37
4	"	48A
1	"	52
1	"	126A

Model No. 1.159 Inclined Plane

Parts
required :

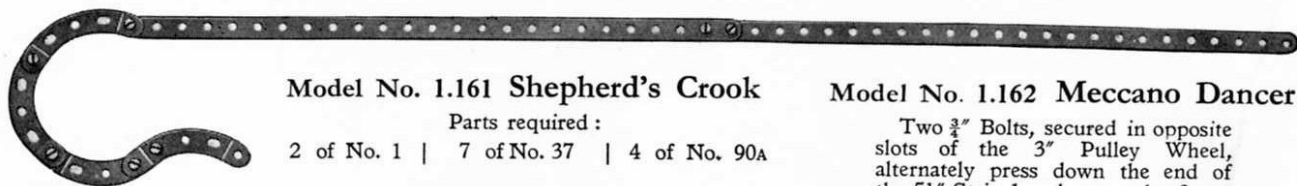
4	of No.	22
1	"	23
4	"	35
2	"	2
6	"	5
3	"	16
10	"	37
1	"	40
1	"	48
3	"	48A
1	"	57c



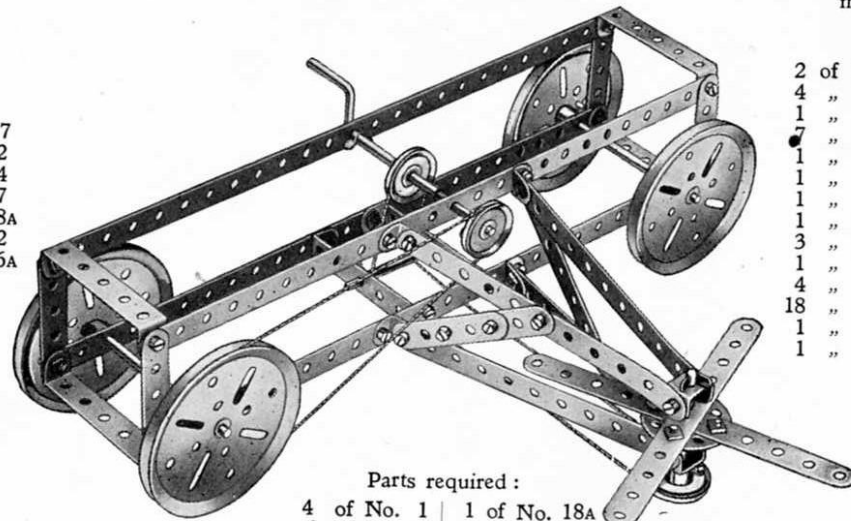
Model No. 1.161 Shepherd's Crook

Parts required :

2 of No. 1 | 7 of No. 37 | 4 of No. 90A



Model No. 1.160 Coal Cutter



Parts required :

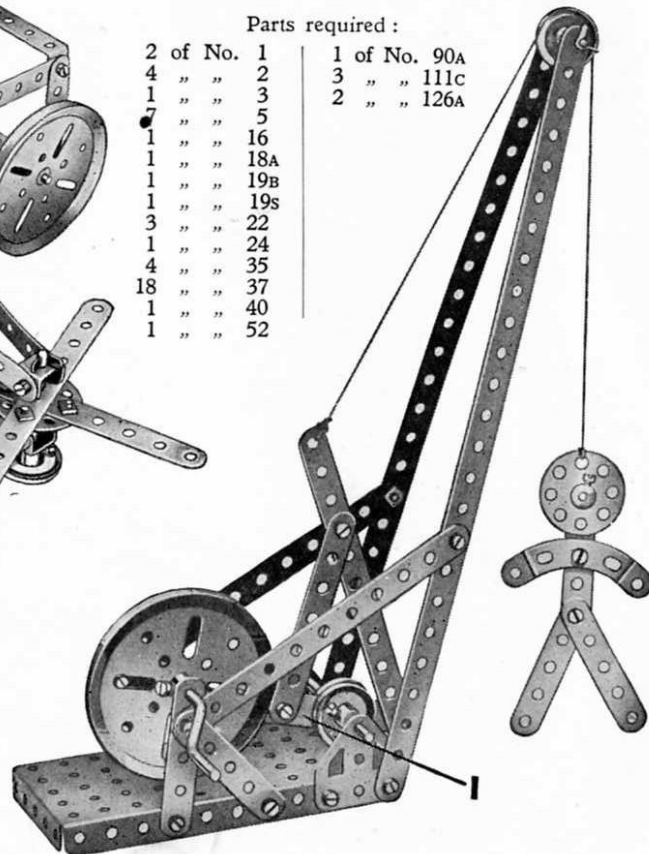
4	of No.	1	1	of No.	18A
6	"	2	4	"	19B
1	"	3	1	"	19s
6	"	5	3	"	22
2	"	11	1	"	24
4	"	12	5	"	35
2	"	16	32	"	37
1	"	17	1	"	40
		6	of No.	48A	

Model No. 1.162 Meccano Dancer

Two $\frac{3}{4}$ " Bolts, secured in opposite slots of the 3" Pulley Wheel, alternately press down the end of the $5\frac{1}{2}$ " Strip 1 and cause the figure to dance in a surprisingly lifelike manner.

Parts required :

2	of No.	1	1	of No.	90A
4	"	2	3	"	111c
1	"	3	2	"	126A
7	"	5			
1	"	16			
1	"	18A			
1	"	19B			
1	"	19s			
3	"	22			
1	"	24			
4	"	35			
18	"	37			
1	"	40			
1	"	52			



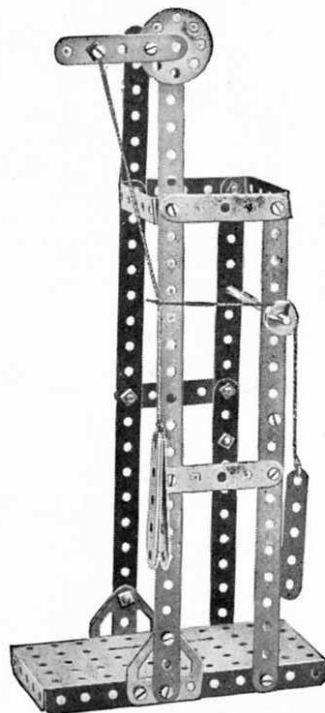
These Models can be built with MECCANO Outfit No. 1 (or No. O and No. OA)

Model No. 1.165

Crosshead Demonstration Model

Parts required :

2 of No. 1	3 of No. 35
4 " " 2	20 " " 37
9 " " 5	1 " " 40
2 " " 16	2 " " 48A
1 " " 23	1 " " 52
1 " " 24	2 " " 126A

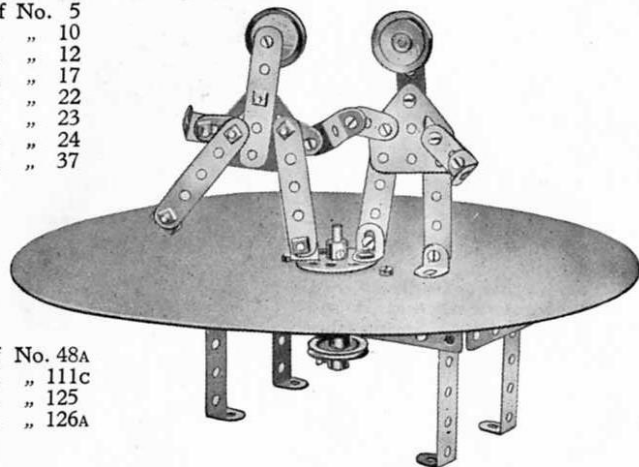


This is an apparatus for determining the forces that act at the crosshead of a reciprocating engine. The upper inclined length of cord represents the connecting rod and the lower, or vertical portion, the piston rod. The pull on the third cord indicates the pressure exerted on the slide bars of the engine due to the angularity of the connecting rod.

Model No. 1.163 Eccentric Dancers

Parts required :

6 of No. 5
4 " " 10
6 " " 12
1 " " 17
4 " " 22
1 " " 23
1 " " 24
20 " " 37

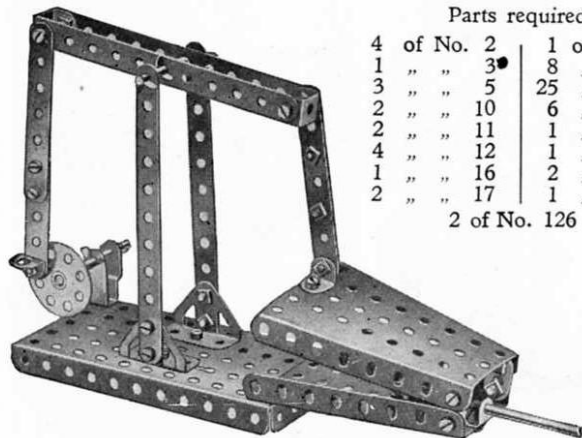


4 of No. 48A
2 " " 111c
1 " " 125
2 " " 126A

Model No. 1.164 Bellows

Parts required :

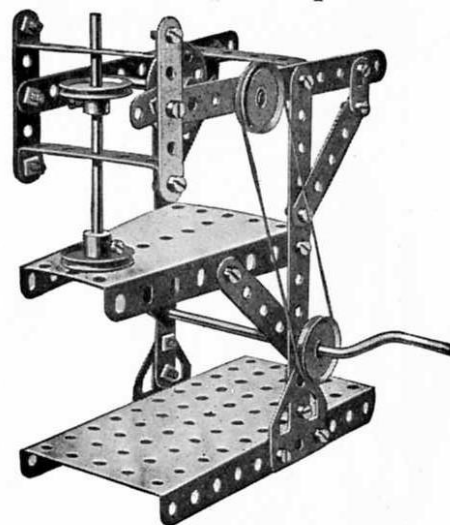
4 of No. 2	1 of No. 24
1 " " 3	8 " " 35
3 " " 5	25 " " 37
2 " " 10	6 " " 37A
2 " " 11	1 " " 44
4 " " 12	1 " " 52
1 " " 16	2 " " 54
2 " " 17	1 " " 111c
2 of No. 126	



Model No. 1.166 Drop Stamp

Parts required :

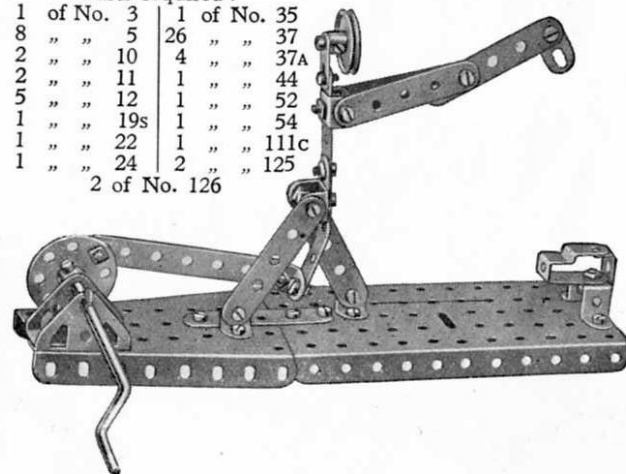
4 of No. 2
6 " " 5
3 " " 10
2 " " 16
1 " " 19s
4 " " 22
1 " " 24
2 " " 35
27 " " 37
1 " " 40
3 " " 48A
1 " " 52
1 " " 54
2 " " 126A



Model No. 1.167 Blacksmith

Parts required :

1 of No. 3	1 of No. 35
8 " " 5	26 " " 37
2 " " 10	4 " " 37A
2 " " 11	1 " " 44
5 " " 12	1 " " 52
1 " " 19s	1 " " 54
1 " " 22	1 " " 111c
1 " " 24	2 " " 125
2 of No. 126	

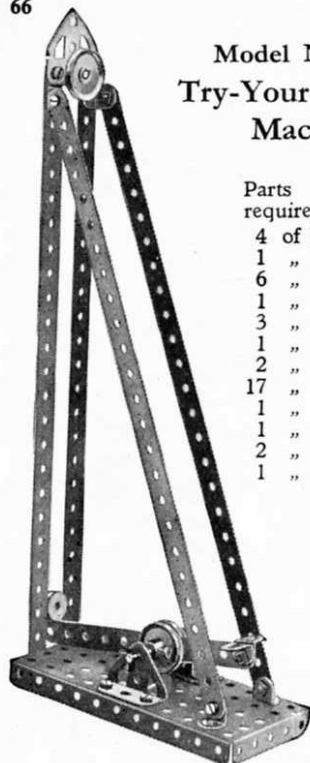


These Models can be built with MECCANO Outfit No. 1 (or No. 0 and No. OA)

Model No. 1.168 Try-Your-Strength Machine

Parts
required :

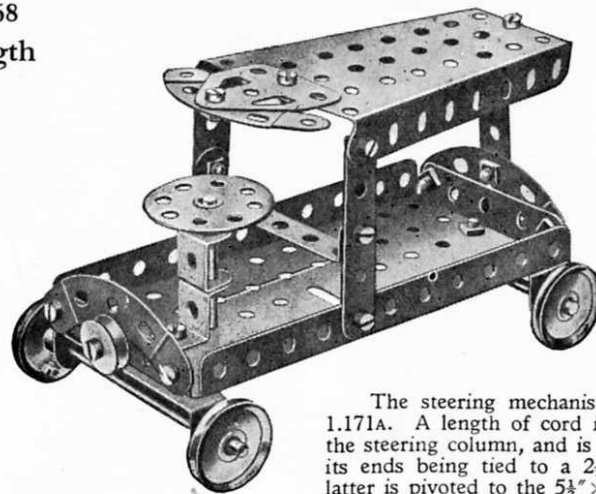
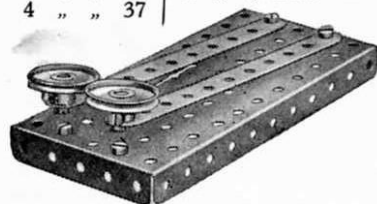
4 of No.	1
1 " "	2
6 " "	12
1 " "	17
3 " "	22
1 " "	23
2 " "	35
17 " "	37
1 " "	52
1 " "	111c
2 " "	126
1 " "	126A



Model No. 1.169 Double Cable Key

Parts required :

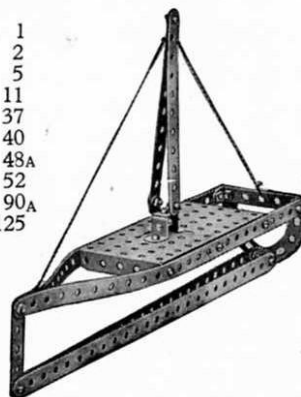
2 of No.	2	1 of No.	52
2 " "	22	2 " "	111c
4 " "	37		



Model No. 1.170 Boat

Parts
required :

4 of No.	1
2 " "	2
1 " "	5
2 " "	11
21 " "	37
1 " "	40
1 " "	48A
1 " "	52
2 " "	90A
2 " "	125



Model No. 1.171 Motor Van

Parts required :

3 of No.	5	17 of No.	37
1 " "	11	1 " "	40
1 " "	12	3 " "	48A
2 " "	16	1 " "	52
1 " "	17	1 " "	54
4 " "	22	3 " "	90A
1 " "	23	1 " "	111c
1 " "	24	1 " "	125
1 " "	35	1 " "	126A

The steering mechanism is shown more clearly in Fig. 1.171A. A length of cord is given two or three turns round the steering column, and is held in position by a Spring Clip, its ends being tied to a $2\frac{1}{2} \times \frac{1}{2}$ " Double Angle Strip. The latter is pivoted to the $5\frac{1}{2} \times 2\frac{1}{2}$ " Flanged Plate of the lorry by means of a Bolt and two Nuts (see Standard Mechanisms Manual. Detail No. 262).

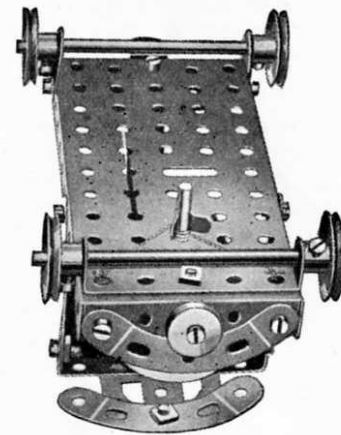
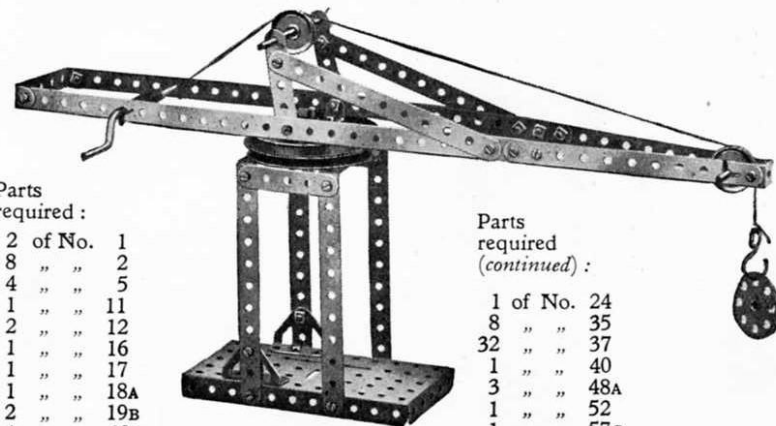


FIG. 1.171A

Model No. 1.172 Revolving Hammerhead Crane

Parts
required :

2 of No.	1
8 " "	2
4 " "	5
1 " "	11
2 " "	12
1 " "	16
1 " "	17
1 " "	18A
2 " "	19B
1 " "	19S
2 " "	22



Parts
required
(continued) :

1 of No.	24
8 " "	35
32 " "	37
1 " "	40
3 " "	48A
1 " "	52
1 " "	57c
2 " "	126

These Models can be built with MECCANO Outfit No. 1 (or No. O and No. OA)

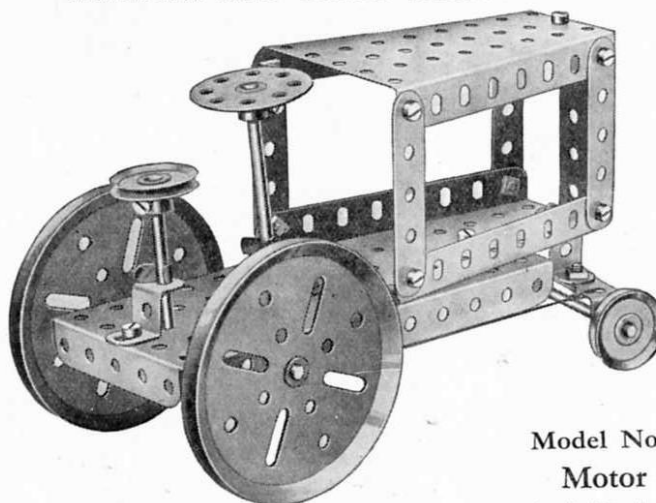
Model No. 1.173 Drilling Machine



Parts required:

4	of No.	2
3	" "	5
1	" "	11
2	" "	16
1	" "	19s
4	" "	22
1	" "	24
4	" "	35
19	" "	37
1	" "	40
1	" "	44
3	" "	48A
1	" "	52
1	" "	54
2	" "	126A

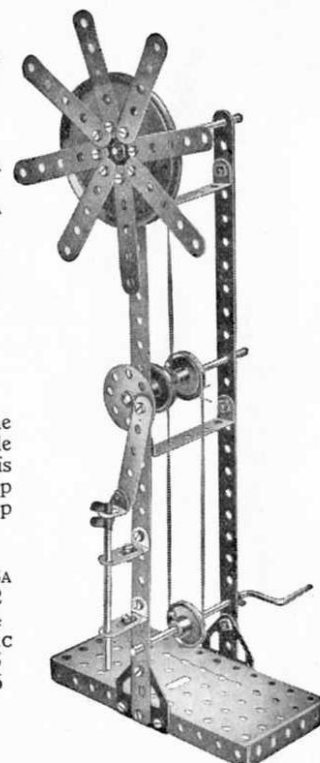
Model No. 1.175 Motor Tractor



Parts required:

4	of No.	5
1	" "	11
3	" "	16
1	" "	17
2	" "	19B
4	" "	22
1	" "	24
3	" "	35
16	" "	37
1	" "	37A
1	" "	40
2	" "	48A
1	" "	52
2	" "	54
2	" "	125

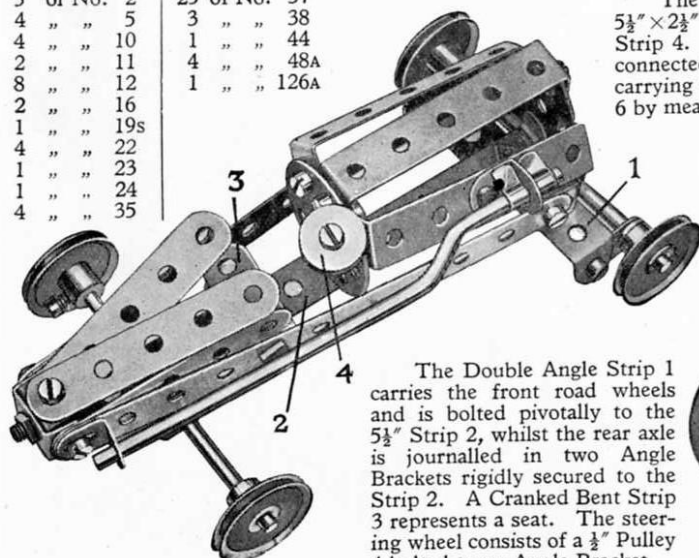
Model No. 1.177 Windmill Pump



Model No. 1.174 Racing Motor Car

Parts required:

3	of No.	2	25	of No.	37
4	" "	5	3	" "	38
4	" "	10	1	" "	44
2	" "	11	4	" "	48A
8	" "	12	1	" "	126A
2	" "	16			
1	" "	19s			
4	" "	22			
1	" "	23			
1	" "	24			
4	" "	35			



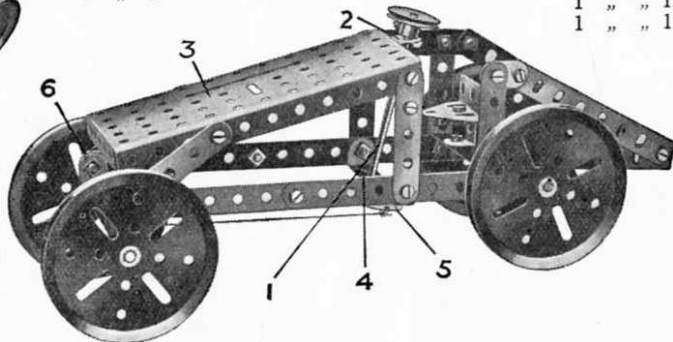
The Double Angle Strip 1 carries the front road wheels and is bolted pivotally to the $5\frac{1}{2}$ " Strip 2, whilst the rear axle is journaled in two Angle Brackets rigidly secured to the Strip 2. A Cranked Bent Strip 3 represents a seat. The steering wheel consists of a $\frac{1}{2}$ " Pulley 4 bolted to an Angle Bracket.

Model No. 1.176 Motor Car

The steering column 1 is journaled in an Angle Bracket 2 bolted to the $5\frac{1}{2}$ " \times $2\frac{1}{2}$ " Flanged Plate 3, and in the second hole of the $2\frac{1}{2}$ " \times $\frac{1}{2}$ " Double Angle Strip 4. A Bush Wheel 5, secured to the lower end of the steering column, is connected by two short lengths of cord to a second $2\frac{1}{2}$ " \times $\frac{1}{2}$ " Double Angle Strip carrying the front axle. The Strip is pivoted to a similar Double Angle Strip 6 by means of a Bolt and Nuts (Standard Mechanism No. 262).

Parts required:

4	of No.	2	3	of No.	16	25	of No.	37	4	of No.	48A
7	" "	5	1	" "	19B	2	" "	37A	1	" "	52
1	" "	10	1	" "	22	4	" "	38	2	" "	54
1	" "	11	1	" "	24	1	" "	40	1	" "	111c
									1	" "	125
									1	" "	126

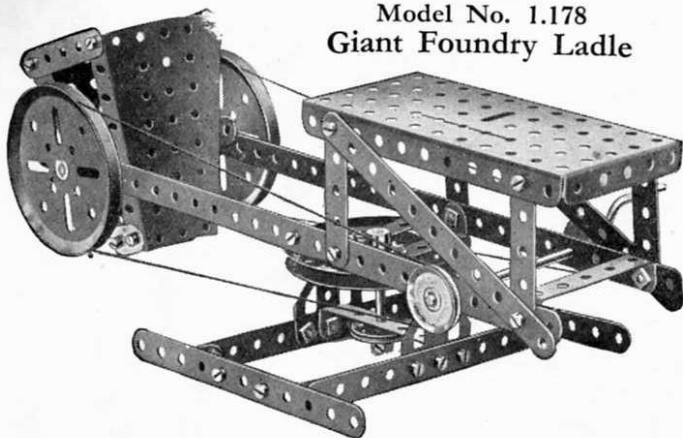


Parts required:

2	of No.	1	4	of No.	35
9	" "	5	24	" "	37
2	" "	10	4	" "	37A
3	" "	12	3	" "	38
3	" "	16	1	" "	40
1	" "	19B	2	" "	48A
1	" "	19s	1	" "	52
4	" "	22	2	" "	111c
1	" "	24	2	" "	126A

These Models can be built with MECCANO Outfit No. 1 (or No. O and No. OA)

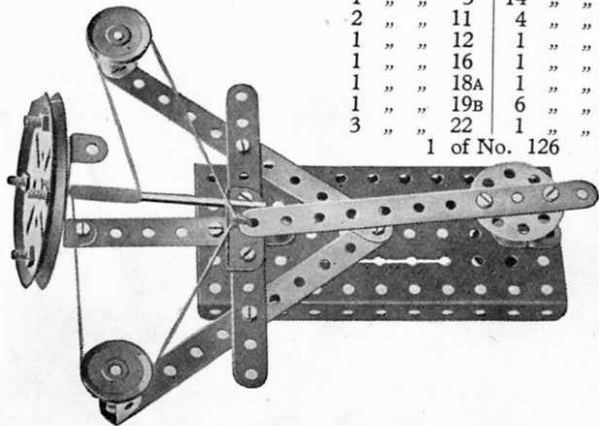
Model No. 1.178 Giant Foundry Ladle



The ladle pivots about a $3\frac{1}{2}$ " Axle Rod carrying a 3" Pulley at each end in addition to a Bush Wheel and a $2\frac{1}{2}$ " Strip. The two latter parts are bolted to the side flanges of the Sector Plates and the Bush Wheel is nipped in position on the Rod. The pivot about which the superstructure turns is shown in Fig. 1.178A.

Model No. 1.179 Boat Steering Gear

Parts required:			
4 of No.	2	1 of No.	24
1 "	3	14 "	37
2 "	11	4 "	37A
1 "	12	1 "	40
1 "	16	1 "	48A
1 "	18A	1 "	52
1 "	19B	6 "	111c
3 "	22	1 "	125
	1 of No.		126



Parts required:

2 of No.	1	3 of No.	22
6 "	2	1 "	24
1 "	3	36 "	37
7 "	5	6 "	37A
2 "	10	1 "	40
2 "	12	6 "	48A
1 "	16	1 "	52
1 "	17	2 "	54
3 "	19B	6 "	111c
1 "	19s	2 "	126A

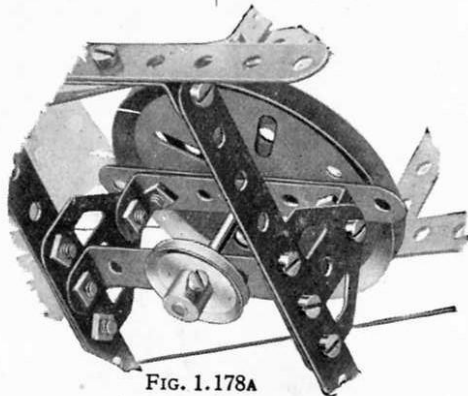


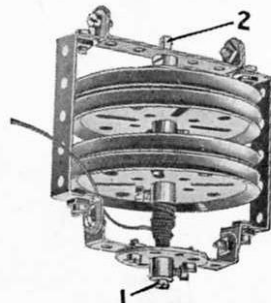
FIG. 1.178A

Model No. 1.180 Gyroscope

The $5/32$ " Bolt 1 is gripped by the Set-Screw of the Bush Wheel. The lower end of the Rod 2 of the gyroscope enters the boss of the Bush Wheel and rests on the shank of the Bolt 1.

Parts required

4 of No.	12
1 "	16
4 "	19B
1 "	24
10 "	37
1 "	40
4 "	48A



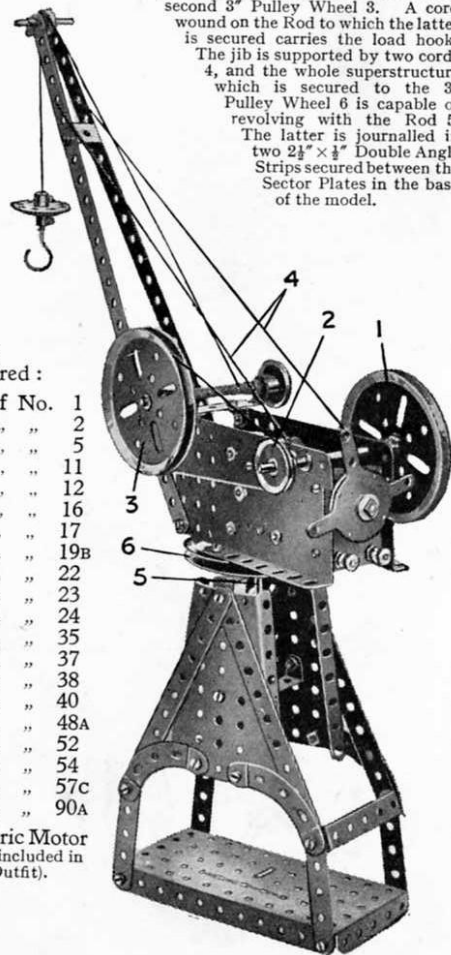
Model No. 1.181 Elevated Jib Crane

A 1" fast Pulley Wheel secured to the armature spindle of the Electric Motor is connected by an endless cord to the 3" Pulley Wheel 1. A 1" fast Pulley 2 on the same Rod as the latter is similarly connected with a second 3" Pulley Wheel 3. A cord wound on the Rod to which the latter is secured carries the load hook. The jib is supported by two cords 4, and the whole superstructure which is secured to the 3" Pulley Wheel 6 is capable of revolving with the Rod 5. The latter is journalled in two $2\frac{1}{2} \times \frac{1}{2}$ " Double Angle Strips secured between the Sector Plates in the base of the model.

Parts required:

2 of No.	1
4 "	2
4 "	5
1 "	11
2 "	12
3 "	16
1 "	17
3 "	19B
4 "	22
1 "	23
1 "	24
5 "	35
26 "	37
2 "	38
1 "	40
5 "	48A
1 "	52
2 "	54
1 "	57c
4 "	90A

Electric Motor
(not included in
Outfit).



These Models can be built with MECCANO Outfit No. 1 (or No. O and No. OA)

Model No. 1.182 Telfer Span

Parts required :

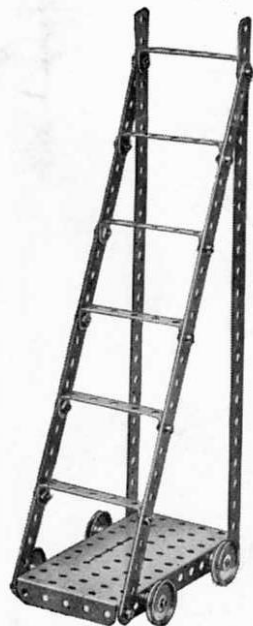
2 of No. 1	1 of No. 10	1 of No. 23
2 " " 2	1 " " 11	8 " " 35
4 " " 5	2 " " 12	22 " " 37
	3 " " 16	1 " " 40
	1 " " 18A	1 " " 44
	1 " " 19s	2 " " 48A
	4 " " 22	1 " " 52
		2 " " 54
		1 " " 57c
		2 " " 126A



Model No. 1.183 Ladder on Wheels

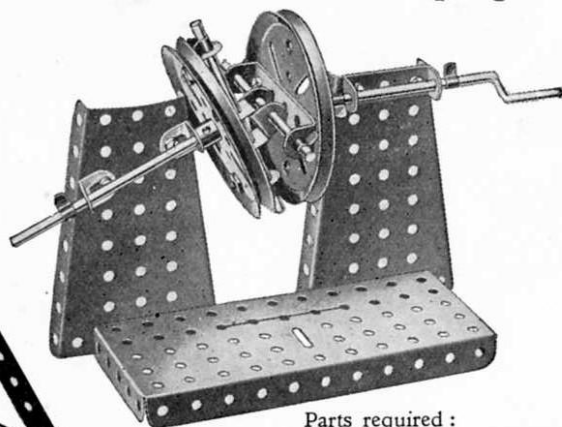
Parts required :

4 of No. 1	16 of No. 37
2 " " 16	6 " " 48A
4 " " 22	1 " " 52



This model will provide many hours of enjoyment. The cords may be made to any length to allow the load to be carried from one side of the room to the other, and, if necessary, a better grip may be obtained by winding the operating cord twice round the Pulley on the Crank Handle. The open sides of the bucket may be closed with cardboard so that it may be loaded with marbles, beads, etc. The bed of the telfer may be screwed on to a solid base with ordinary wood screws to give better support. The pulley bracket, and that securing the cord on which the bucket travels should be screwed in a suitable position on the opposite side of the room.

Model No. 1.184 Hooke's Coupling



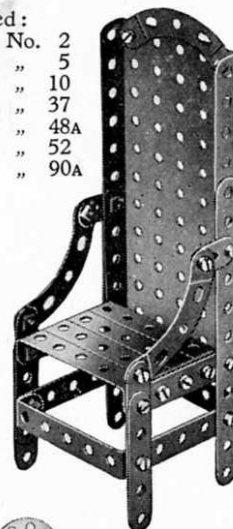
Parts required :

2 of No. 11	7 of No. 35
2 " " 12	12 " " 37
3 " " 16	1 " " 48
2 " " 19B	2 " " 48A
1 " " 19s	1 " " 52
	2 of No. 54

Model No. 1.185 Chair

Parts required :

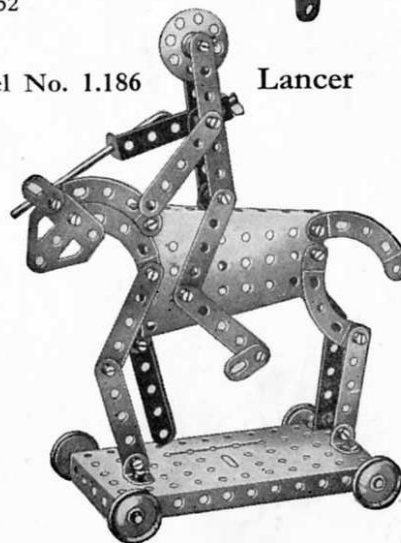
2 of No. 2	2
8 " " 5	5
2 " " 10	10
22 " " 37	37
6 " " 48A	48A
1 " " 52	52
3 " " 90A	90A



Model No. 1.186 Lancer

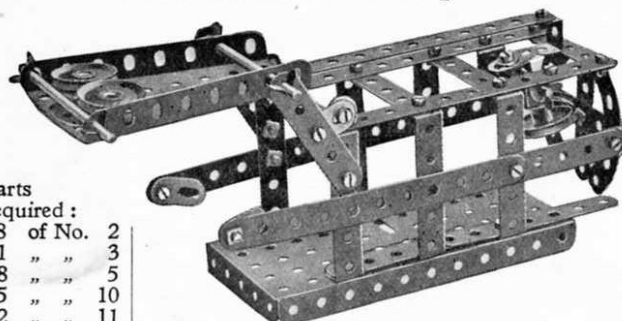
Parts required :

1 of No. 2	2
1 " " 3	3
9 " " 5	5
2 " " 10	10
2 " " 11	11
5 " " 12	12
2 " " 16	16
1 " " 19s	19s
4 " " 22	22
1 " " 24	24
1 " " 35	35
27 " " 37	37
1 " " 48A	48A
1 " " 52	52
1 " " 54	54
4 " " 90A	90A
1 " " 126A	126A



These Models can be built with MECCANO Outfit No. 1 (or No. O and No. OA)

Model No. 1.187 Rat Trap

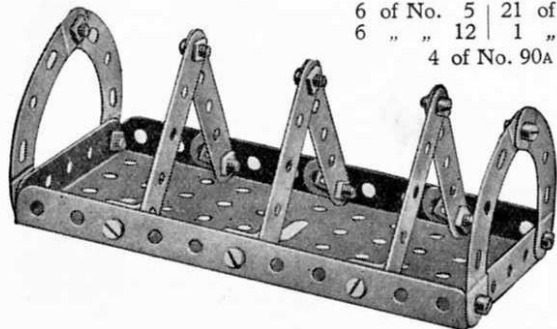


Parts required:

8 of No. 2			
1 " " 3			
8 " " 5			
5 " " 10			
2 " " 11			
6 " " 12	1 of No. 23	1 of No. 38	1 of No. 54
2 " " 16	1 " " 24	1 " " 48	2 " " 90A
1 " " 17	8 " " 35	6 " " 48A	3 " " 111c
3 " " 22	31 " " 37	1 " " 52	

The "bait" consists of a 1" fast Pulley and a $\frac{1}{2}$ " loose Pulley suspended by means of a cord from a Double Bracket. The latter is bolted to a $1\frac{1}{2} \times \frac{1}{2}$ " Double Angle Strip that is free to turn on a 2" Rod journaled in a pair of Angle Brackets. A Flat Bracket bolted to the Double Bracket engages a second Double Bracket on the end of a $5\frac{1}{2}$ " Strip that is bolted to the door of the cage. If the "bait" is touched, the heavily-weighted door falls into place, and is prevented from re-opening by catches formed from Flat Brackets secured to $5\frac{1}{2}$ " Strips that are bolted to the trap by their extreme ends and act as springs.

Model No. 1.188 Toast Rack



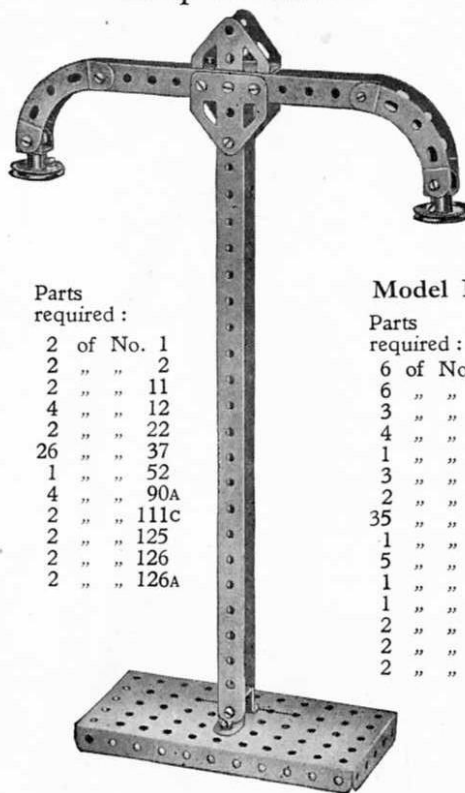
Parts required:

6 of No. 5	21 of No. 37
6 " " 12	1 " " 52
4 of No. 90A	

Parts required:

4 of No. 2	
2 " " 11	
1 " " 18A	
1 " " 22	
1 " " 35	
7 " " 37	
3 " " 37A	
2 " " 125	

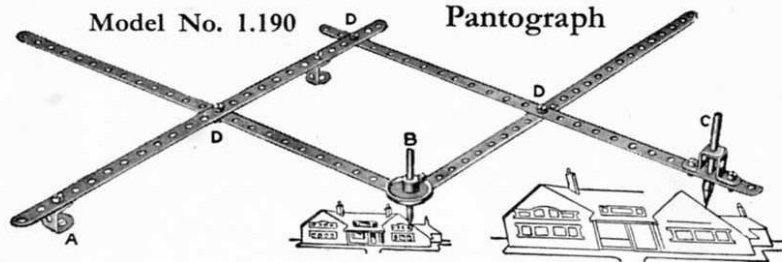
Model No. 1.189 Lamp Standard



Parts required:

2 of No. 1	
2 " " 2	
2 " " 11	
4 " " 12	
2 " " 22	
26 " " 37	
1 " " 52	
4 " " 90A	
2 " " 111c	
2 " " 125	
2 " " 126	
2 " " 126A	

Model No. 1.190



Pantograph

Most boys have heard of the Pantograph but not many have had an opportunity of seeing its principles demonstrated. It is an instrument for copying plans, etc., on the same or on a reduced or enlarged scale.

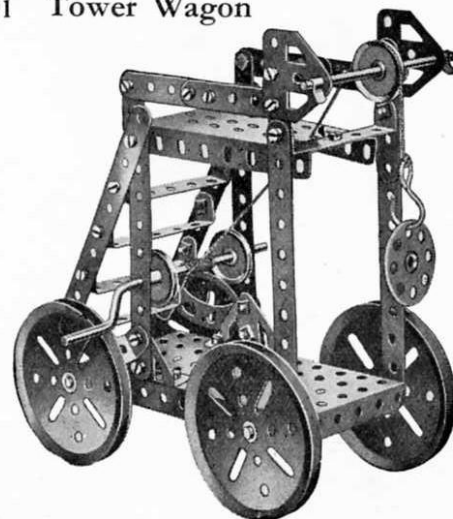
The apparatus is fixed at the point A. If an enlarged sketch is to be made, the point B is traced round the outlines, the writing point C reproducing the sketch on a larger scale. When a reduced drawing is to be made, the point C traces the outline, whilst the point B reproduces the sketch on a smaller scale. The degree of enlargement or reduction varies according to the position in which point C is fixed on the perforated arm.

The Bolts at D are fitted with lock-Nuts to allow free movement of the $12\frac{1}{2}$ " Strips.

Model No. 1.191 Tower Wagon

Parts required:

6 of No. 2	
6 " " 5	
3 " " 16	
4 " " 19B	
1 " " 19s	
3 " " 22	
2 " " 35	
35 " " 37	
1 " " 40	
5 " " 48A	
1 " " 52	
1 " " 57c	
2 " " 90A	
2 " " 126	
2 " " 126A	

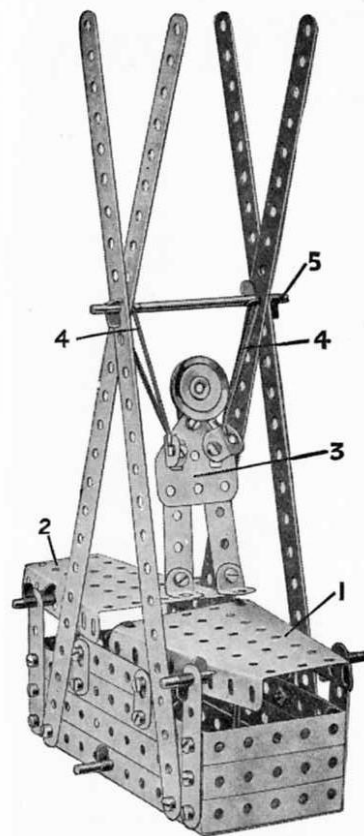


These Models can be built with MECCANO Outfit No. 1 (or No. 0 and No. OA)

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Model No. 1.192

A Sudden Appearance



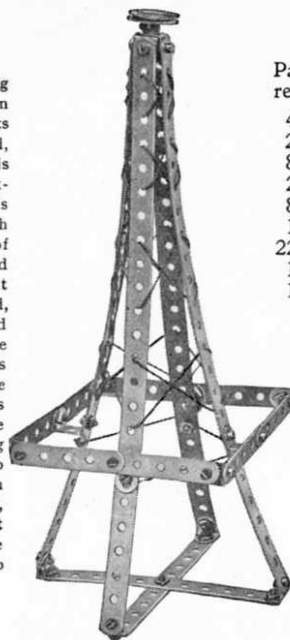
The Sector Plate 1, forming the lid, is carried pivotally on an axle rod that passes through its sides three holes from the end, and the rear Sector Plate 2 is pivoted in a similar manner, excepting that the rod in this case passes through the fourth hole from the end. Pieces of thin elastic are tied to the end holes in each side of the front Sector Plate at its widest end, and are connected to a Rod journalled in the sides of the box. The "Meccanitian" 3 is placed face downward inside the box with his feet towards the far end of the model. The tension of the elastic holding the lid 1 should be sufficient to keep him in this position. On tilting the Plate 1 slightly, however, he will suddenly shoot out of the box, drawn by the elastic bands 4 connected to the 8½" Axle Rod 5.

Parts required :

4 of No. 1	8 of No. 35
4 " " 2	29 " " 37
8 " " 5	4 " " 48A
5 " " 10	1 " " 52
4 " " 12	2 " " 54
4 " " 16	1 " " 111c
1 " " 22	1 " " 126A

A short length of elastic

Model No. 1.193 Eiffel Tower

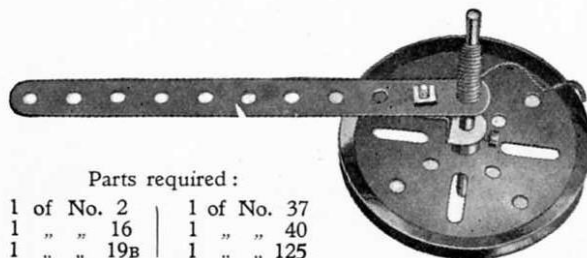


Parts required :

4 of No. 1	
2 " " 2	
8 " " 5	
2 " " 11	
8 " " 12	
1 " " 22	
22 " " 37	
1 " " 40	
1 " " 111c	

Model No. 1.194 Top

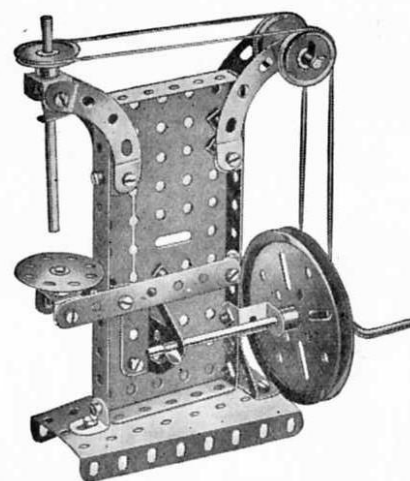
To spin the top wind a length of cord round the Rod, as shown place on a smooth surface and give the cord a sharp pull. When the cord is clear of the rod remove the 5½" Strip and the top will continue to spin for a considerable period.



Parts required :

1 of No. 2	1 of No. 37
1 " " 16	1 " " 40
1 " " 19B	1 " " 125

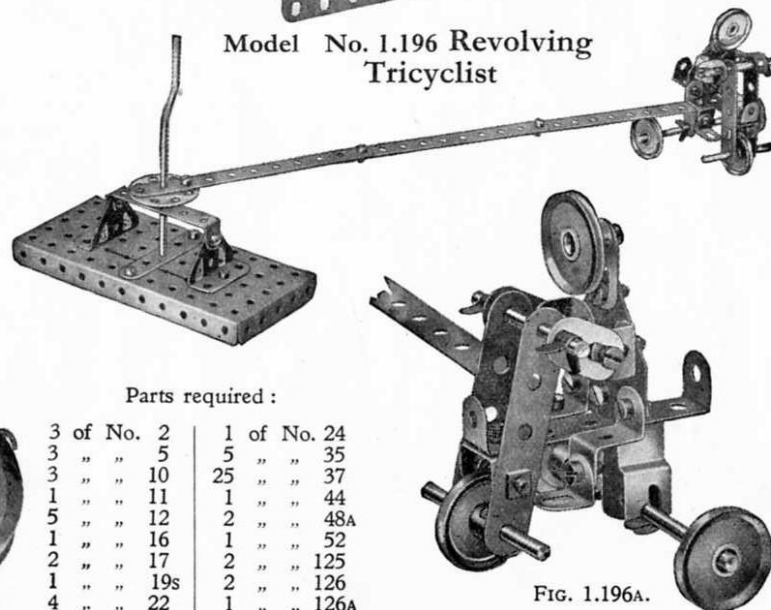
Model No. 1.195 Drill



Parts required :

1 of No. 3	
2 " " 11	
6 " " 12	
1 " " 16	
1 " " 18A	
1 " " 19B	
1 " " 19S	
4 " " 22	
1 " " 24	
2 " " 35	
27 " " 37	
1 " " 40	
1 " " 52	
1 " " 54	
4 " " 90A	
1 " " 125	
2 " " 126	

Model No. 1.196 Revolving Tricyclist



Parts required :

3 of No. 2	1 of No. 24
3 " " 5	5 " " 35
3 " " 10	25 " " 37
1 " " 11	1 " " 44
5 " " 12	2 " " 48A
1 " " 16	1 " " 52
2 " " 17	2 " " 125
1 " " 19S	2 " " 126
4 " " 22	1 " " 126A

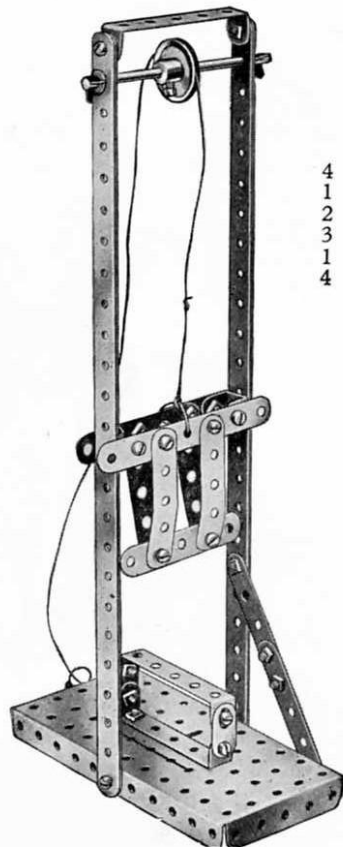
FIG. 1.196A.

These Models can be built with MECCANO Outfit No. 1 (or No. 0 and No. 0A)

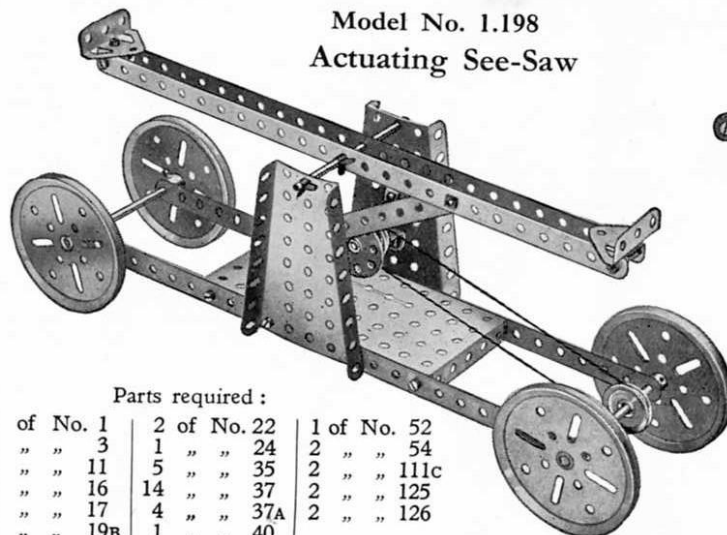
Model No. 1.197 Guillotine

Parts required :

2 of No. 1	1 of No. 22
1 " " 3	2 " " 35
9 " " 5	24 " " 37
2 " " 10	1 " " 40
2 " " 11	3 " " 48A
1 " " 16	1 " " 52



Model No. 1.198 Actuating See-Saw

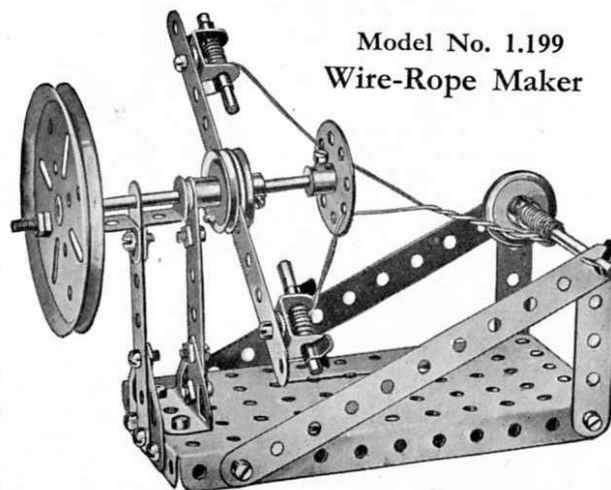


Parts required :

4 of No. 1	2 of No. 22	1 of No. 52
1 " " 3	1 " " 24	2 " " 54
2 " " 11	5 " " 35	2 " " 111c
3 " " 16	14 " " 37	2 " " 125
1 " " 17	4 " " 37A	2 " " 126
4 " " 19B	1 " " 40	

Parts required :

3 of No. 2
1 " " 3
3 " " 5
1 " " 10
2 " " 11
2 " " 16
2 " " 18A
1 " " 19B
3 " " 22
1 " " 24
6 " " 35
16 " " 37
2 " " 37A
1 " " 52
1 " " 111c
2 " " 125
1 " " 126
1 " " 126A



Model No. 1.199 Wire-Rope Maker

Model No. 1.200

Coat Hanger



Parts required

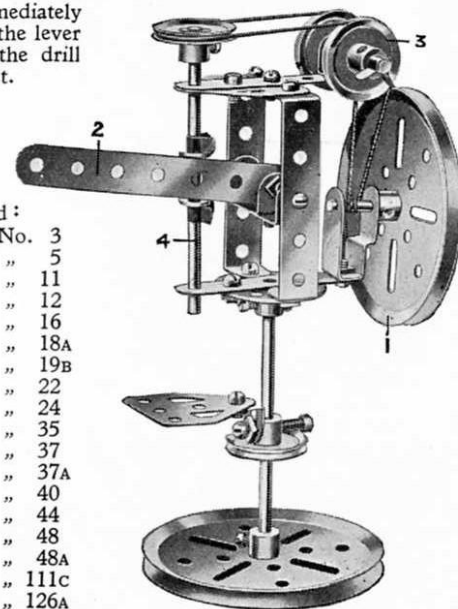
1 of No. 1	2 of No. 5	1 of No. 57c
2 " " 2	6 " " 37	

Model No. 1.201 Automatic Drill

Cord is passed round the Pulley on the drill spindle 4 and thence over the Pulleys 3 and round the shaft of the Pulley 1. The lever 2 (a $3\frac{1}{2}$ " Strip) is pivoted by a Bolt and two Nuts at its inner end to an Angle Bracket, and the latter is bolted to a $1\frac{1}{2}$ " \times $\frac{1}{2}$ " Double Angle Strip which, in turn, is bolted between the vertical $2\frac{1}{2}$ " Double Angle Strips. The arm of the lever engages between two Washers on the drill spindle, and on pressing the lever, the drill spindle with its 1" Pulley is forced downwards, thus tightening the Cord, which then transmits the drive to the drill spindle. Immediately pressure on the lever is released, the drill comes to rest.

Parts required :

1 of No. 3
2 " " 5
1 " " 11
2 " " 12
2 " " 16
2 " " 18A
2 " " 19B
4 " " 22
1 " " 24
4 " " 35
16 " " 37
1 " " 37A
1 " " 40
1 " " 44
1 " " 48
2 " " 48A
1 " " 111c
2 " " 126A



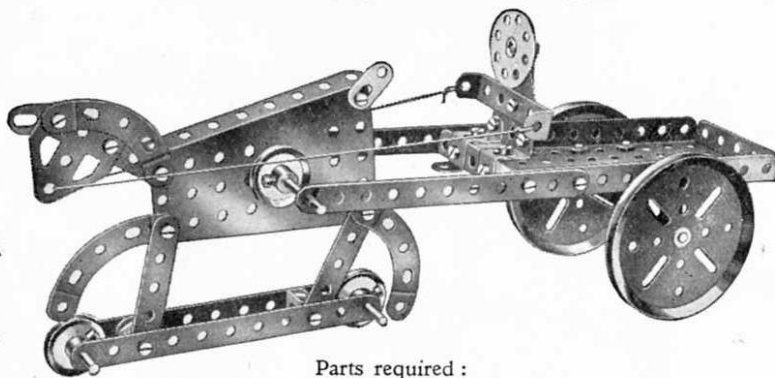
Model No. 1.202 Automatic Signal

Parts
required :

2	of No.	1
1	" "	2
1	" "	5
1	" "	11
1	" "	12
1	" "	17
1	" "	18A
4	" "	22
1	" "	24
22	" "	37
2	" "	37A
1	" "	38
1	" "	40
1	" "	48A
1	" "	52
1	" "	90A
3	" "	111c
2	" "	126
2	" "	126A

The weighted Curved Strip normally holds the end of the $5\frac{1}{2}$ " Strip against an Angle Bracket, allowing the signal arm to fall to the "all clear" position. Any train passing the signal however, strikes the opposite end of the $5\frac{1}{2}$ " Strip, and by means of the cord shown, raises the arm to indicate "danger." The Curved Strip moves to allow the end of the $5\frac{1}{2}$ " Strip to pass over it, and is returned to its original position by reason of its weighted end. The signal then remains at "danger" until the mechanism is re-set.

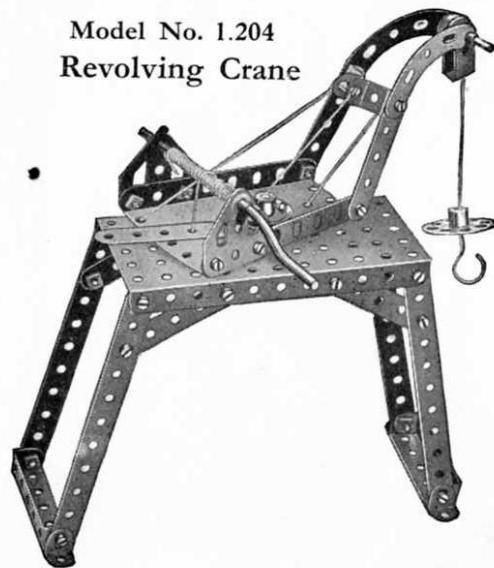
Model No. 1.203 Horse and Cart



Parts required :

4 of No. 2	2 of No. 16	2 of No. 35	1 of No. 54
3 " 5	2 " 18A	26 " 37	3 " 90A
3 " 10	2 " 19B	1 " 40	1 " 111C
2 " 11	4 " 22	1 " 48A	2 " 125
2 " 12	1 " 24	1 " 52	2 " 126
			2 " 126A

Model No. 1.204 Revolving Crane

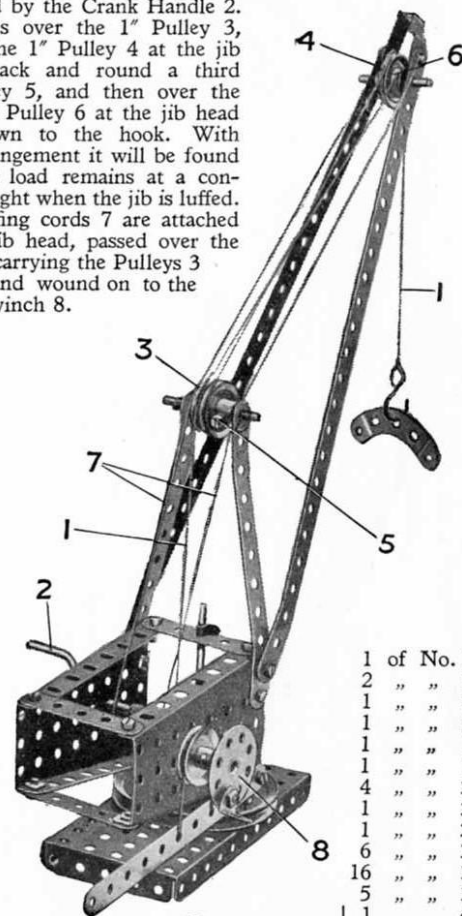


Parts
required :

4	of No.	2
7	" "	5
4	" "	12
1	" "	17
1	" "	18A
1	" "	19s
2	" "	22
1	" "	23
1	" "	24
4	" "	35
25	" "	37
1	" "	37A
1	" "	40
1	" "	44
4	" "	48A
1	" "	52
1	" "	54
1	" "	57c
2	" "	90A
2	" "	125
2	" "	126A

Model No. 1.205 Patent Luffing Crane

The hoisting cord 1 is operated by the Crank Handle 2. It passes over the 1" Pulley 3, round the 1" Pulley 4 at the jib head, back and round a third 1" Pulley 5, and then over the $\frac{1}{2}$ " loose Pulley 6 at the jib head and down to the hook. With this arrangement it will be found that the load remains at a constant height when the jib is luffed. The luffing cords 7 are attached to the jib head, passed over the 2" Rod carrying the Pulleys 3 and 5, and wound on to the luffing winch 8.

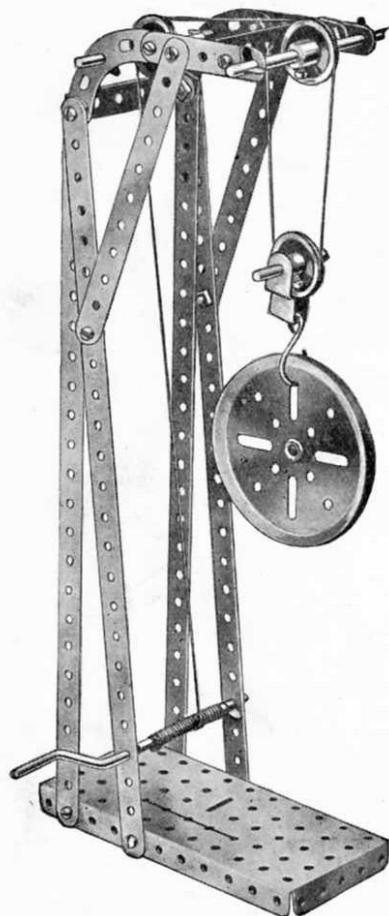


Parts
required :

2 of No.	1	2	32
3	2	1	54
4	5	2	57c
			111c

1	of	No.	12
2	”	”	16
1	”	”	17
1	”	”	18A
1	”	”	19B
1	”	”	19s
4	”	”	22
1	”	”	23
1	”	”	24
6	”	”	35
16	”	”	37
5	”	”	38
1	”	”	40
1	”	”	44
1	”	”	52
2	”	”	54
1	”	”	57c
2	”	”	111c

Model No. 1.206 Hoisting Block



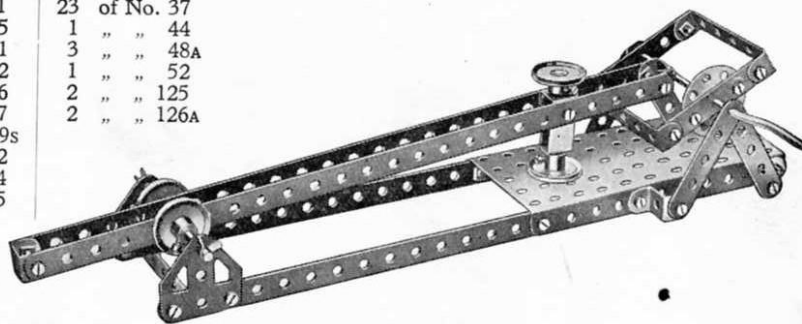
Parts required :		1 of No. 18A	1 of No. 40
4 of No. 1	1	19B	44
2 " " 2	1	19S	48A
2 " " 3	1	22	52
2 " " 5	8	35	57C
2 " " 16	14	37	90A

These Models can be built with MECCANO Outfit No. 1 (or No. O and No. OA)

Model No. 1.208 Helve Hammer

Parts required :

4 of No. 1	23 of No. 37
6 " " 5	1 " " 44
2 " " 11	3 " " 48A
2 " " 12	1 " " 52
1 " " 16	2 " " 125
1 " " 17	2 " " 126A
1 " " 19S	
4 " " 22	
1 " " 24	
4 " " 35	

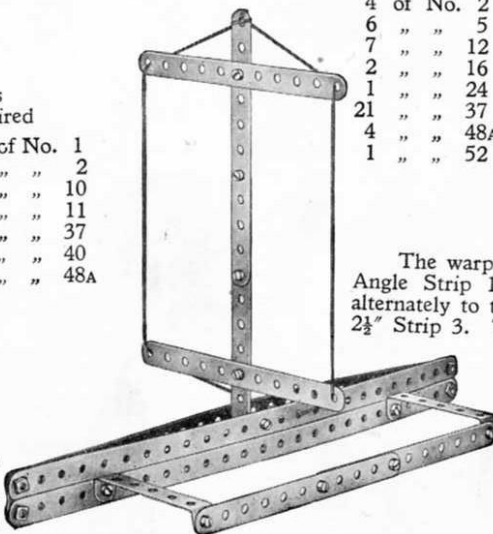


Model No. 1.209 Hand Loom

Model No. 1.207 Catamaran

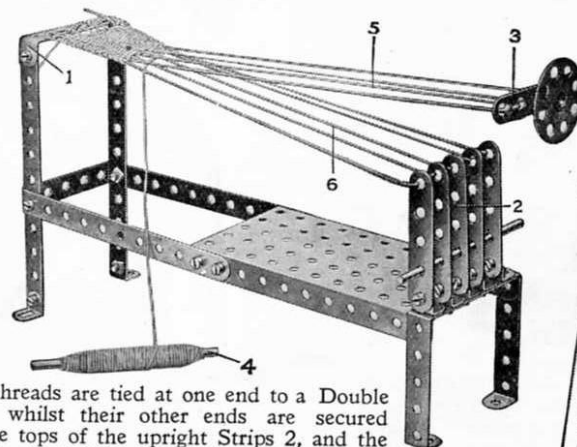
Parts required

4 of No. 1	2
6 " " 2	10
2 " " 10	11
1 " " 11	37
17 " " 37	40
1 " " 40	48A
2 " " 48A	



Parts required :

4 of No. 2	5
6 " " 5	12
7 " " 12	16
2 " " 16	24
1 " " 24	37
21 " " 37	48A
4 " " 48A	52
1 " " 52	

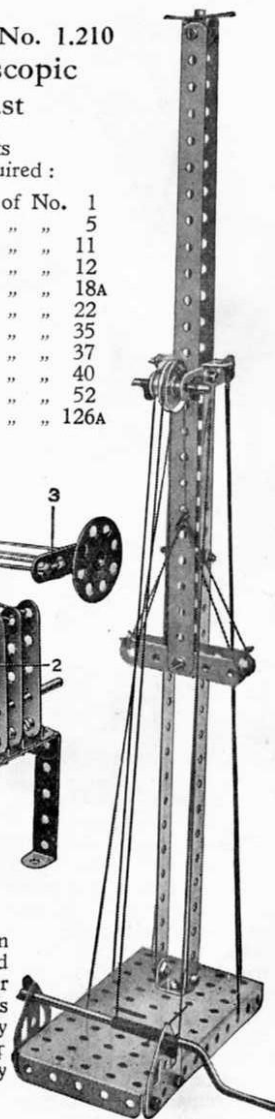


The warp threads are tied at one end to a Double Angle Strip 1, whilst their other ends are secured alternately to the tops of the upright Strips 2, and the 2½" Strip 3. The "shedding" movement of the warp is obtained by moving the Strip 3 up or down each time the shuttle—a 3½" Rod 4—is passed between the two layers of warp 5 and 6. Wool or similar material is particularly suited to this apparatus. The strands 6 should be kept very taut, and the weft threads may be closed up with the woven portion by means of an ordinary comb each time the shuttle passes.

Model No. 1.210 Telescopic Mast

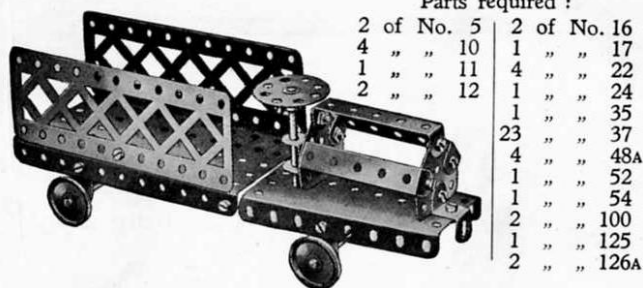
Parts required :

4 of No. 1	5
5 " " 5	11
2 " " 11	12
6 " " 12	18A
1 " " 18A	22
1 " " 22	35
4 " " 35	37
16 " " 37	40
1 " " 40	52
1 " " 52	126A
2 " " 126A	



These Models can be built with MECCANO Outfit No. 1 (or No. O and No. OA)

Model No. 1.211 Motor Lorry

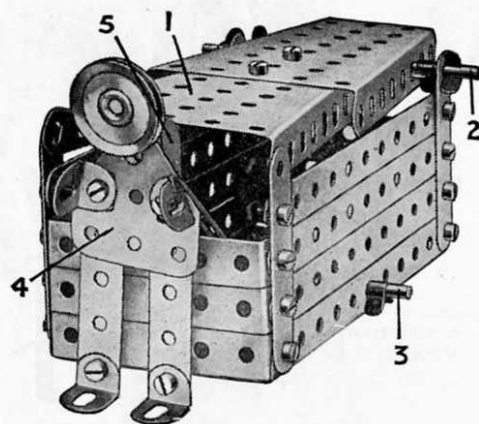


Parts required :

2 of No. 5	2 of No. 16
4 " " 10	1 " " 17
1 " " 11	4 " " 22
2 " " 12	1 " " 24
	1 " " 35
	23 " " 37
	4 " " 48A
	1 " " 52
	1 " " 54
	2 " " 100
	1 " " 125
	2 " " 126A

Model No. 1.212 Disappearing Meccanitian

The bottom of the box-like portion of the model consists of a $5\frac{1}{2}'' \times 2\frac{1}{2}''$ Flanged Plate; three $5\frac{1}{2}''$ Strips bolted to upright $2\frac{1}{2}''$ Strips form each side and each end consists of three $2\frac{1}{2}'' \times \frac{1}{2}''$ Double Angle Strips. The lid 1, which is mounted pivotally on an Axle Rod 2, consists of two Sector Plates bolted together. Elastic bands are tied to the sides of these Plates and connected to Rod 3 passed through the bottom of the box. The "Meccanitian" 4 also is connected to this Rod by pieces of elastic. On pressing the end of the rear Sector Plate the lid opens sufficiently to allow the figure to be drawn inside and then snaps back into place. A Cranked Bent Strip 5 is bolted at the back of the figure and rests against the edge of the Sector Plate.

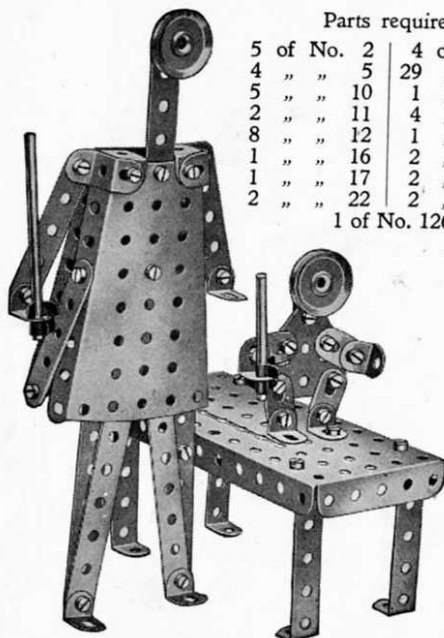


Parts required :

6 of No. 2
6 " " 5
1 " " 10
4 " " 12
2 " " 16
1 " " 22
6 " " 35
23 " " 37
1 " " 44
4 " " 48A
1 " " 52
2 " " 54
1 " " 111c
1 " " 126A

A short length of elastic.

Model No. 1.213 Dignity and Imprudence



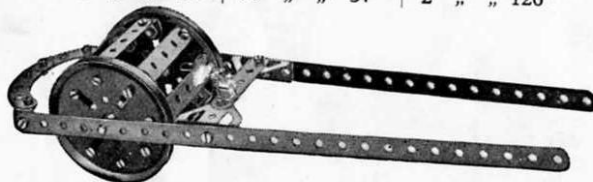
Parts required :

5 of No. 2	4 of No. 35
4 " " 5	29 " " 37
5 " " 10	1 " " 48
2 " " 11	4 " " 48A
8 " " 12	1 " " 52
1 " " 16	2 " " 54
1 " " 17	2 " " 111c
2 " " 22	2 " " 125
	1 of No. 126A

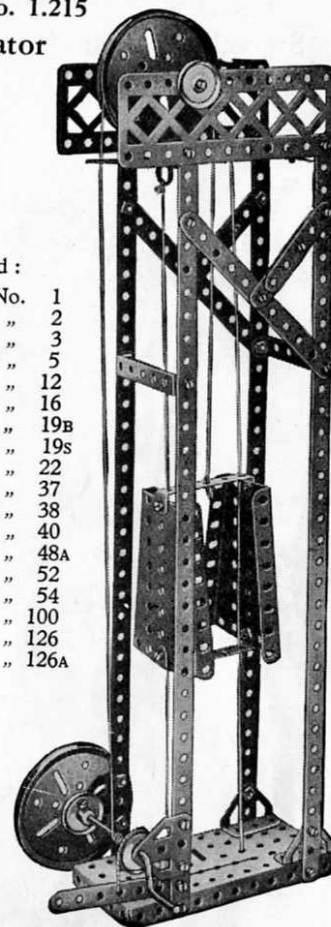
Model No. 1.214 Field Roller

Parts required :

2 of No. 1	1 of No. 16	6 of No. 48A
3 " " 5	2 " " 19B	2 " " 90A
6 " " 12	30 " " 37	2 " " 126



Model No. 1.215 Elevator

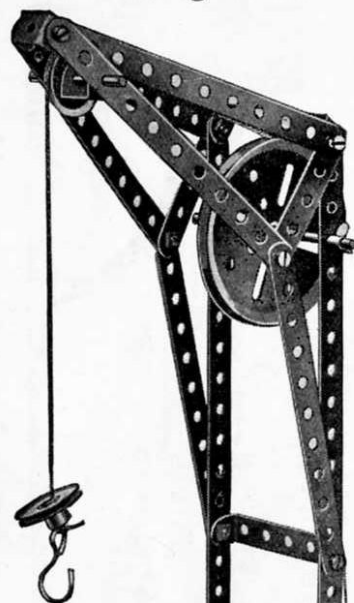


Parts required :

4 of No. 1
7 " " 2
1 " " 3
4 " " 5
1 " " 12
1 " " 16
2 " " 19B
1 " " 19S
4 " " 22
33 " " 37
3 " " 38
1 " " 40
6 " " 48A
1 " " 52
2 " " 54
2 " " 100
2 " " 126
2 " " 126A

Two cords stretched between the base plate of the model and the upper structure are passed through holes in the Double Angle Strips of the cage to form guides. A further cord is tied to the upper Double Angle Strip, and after being led over the 3" Pulley at the head of the model is tied to the shaft of a Crank Handle.

Model No. 1.216 Swivelling Crane

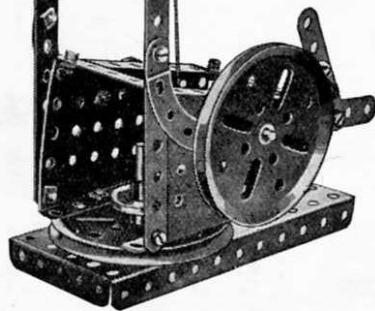


Parts
required :

2	of No.	1
6	" "	2
6	" "	5
2	" "	11
1	" "	12
1	" "	16
1	" "	17
3	" "	19B
1	" "	19S
4	" "	22
1	" "	24
2	" "	35
25	" "	37
1	" "	37A
1	" "	40

2	of No.	48A
1	" "	52
2	" "	54

1	of No.	57c
2	" "	90A
1	" "	111c

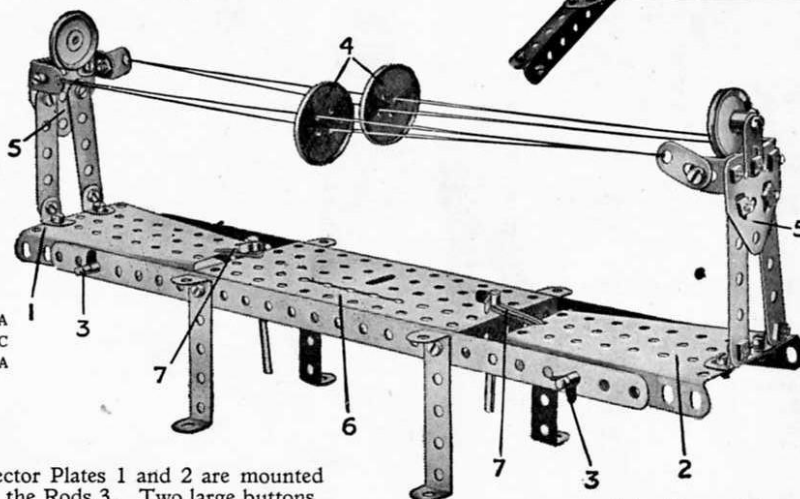


These Models can be built with MECCANO Outfit No. 1 (or No. O and No. OA)

Model No. 1.217 Spinning Buttons

Parts
required :

2	of No.	1
6	" "	5
4	" "	10
8	" "	12
2	" "	16
2	" "	17
2	" "	22
6	" "	35
28	" "	37
1	" "	40
4	" "	48A
2	" "	111c
2	" "	126A

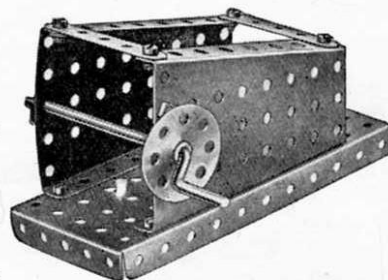


The Sector Plates 1 and 2 are mounted pivotally on the Rods 3. Two large buttons, 4 are placed on lengths of thread or thin elastic stretched between the arms of the Meccanities 5. Start the model as follows : twist the threads a little with your fingers, pull the Meccanities outward, then release them sharply. As soon as the buttons are spinning a slight downward touch on the feet of each Meccanitian is sufficient to keep them going. The ends of the Sector Plates 1 and 2 are connected to the Flanged Plate 6 by means of pieces of elastic 7.

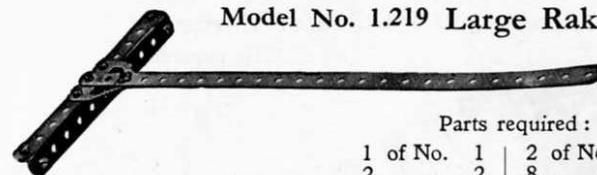
Model No. 1.218 Safety Catch for Winding Gear

Parts
required :

2	of No.	5
1	" "	19S
1	" "	24
1	" "	35
8	" "	37
1	" "	37A
1	" "	52
2	" "	54
1	" "	111c



Model No. 1.219 Large Rake



Parts required :

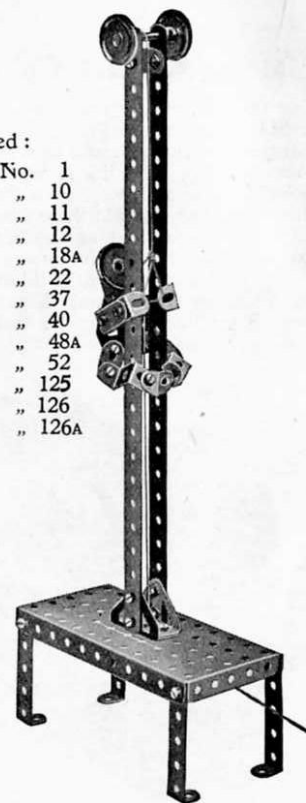
1	of No.	1	2	of No.	12
2	" "	2	8	" "	37
			1	of No.	126A

Model No. 1.220 Man Climbing Pole

Parts
required :

2	of No.	1
5	" "	10
1	" "	11
6	" "	12
1	" "	18A
3	" "	22
26	" "	37
1	" "	40
4	" "	48A
1	" "	52
2	" "	125
2	" "	126
1	" "	126A

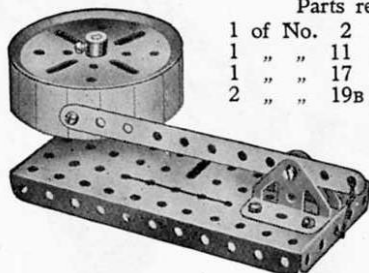
The hoisting cord of a crane, etc., may be wound on the shaft of the Crank Handle. To lock the handle in position, the Bush Wheel should be pushed inward so that one of its holes engages with the shank of a $\frac{1}{8}$ " Bolt projecting from the Sector Plate.



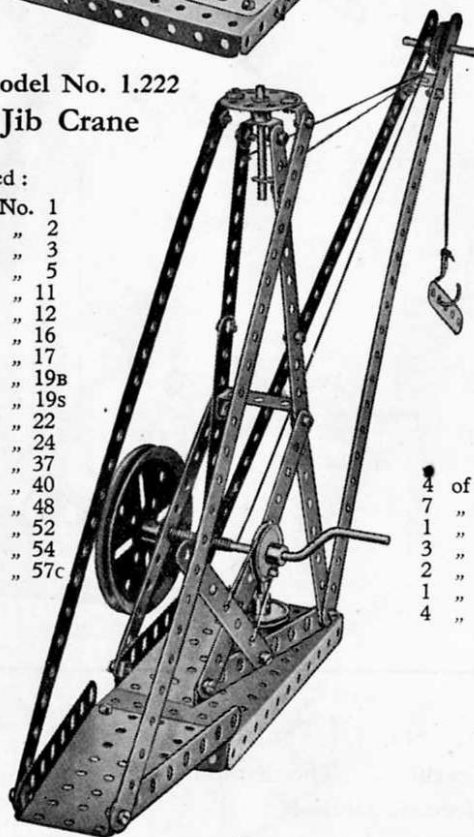
Model No. 1.221 Seismograph

Parts required:

1 of No. 2	6 of No. 37
1 " " 11	1 " " 37A
1 " " 17	1 " " 52
2 " " 19B	1 " " 111c
	2 " " 126

A short length
of elasticModel No. 1.222
Jib CraneParts
required:

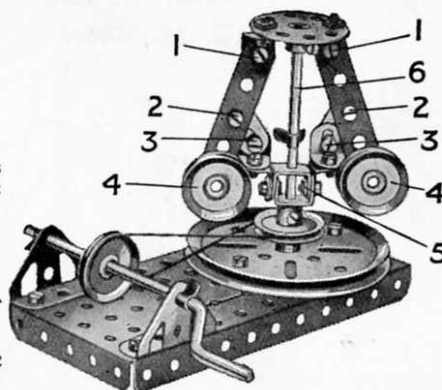
4 of No. 1
6 " " 2
1 " " 3
1 " " 5
2 " " 11
3 " " 12
1 " " 16
2 " " 17
1 " " 19B
1 " " 19s
4 " " 22
1 " " 24
23 " " 37
1 " " 40
1 " " 48
1 " " 52
2 " " 54
1 " " 57c



Model No. 1.223 Centrifugal Governor

Parts
required:

2 of No. 5
2 " " 10
2 " " 11
6 " " 12
1 " " 16
1 " " 19B
1 " " 19s
4 " " 22
1 " " 24
3 " " 35
18 " " 37
6 " " 38
4 " " 37A
1 " " 40
2 " " 111c
2 " " 126

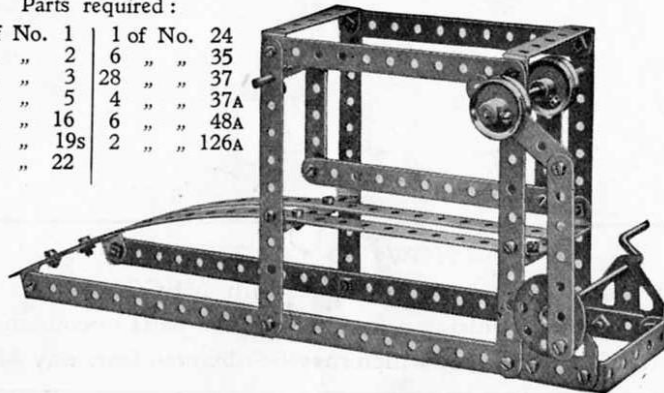


The 3" Pulley Wheel is bolted to the 5½" x 2½" Flanged Plate as shown, and the Rod 6 is free to rotate in its boss. The Bolts 1, 2, 3, are provided with lock-nuts. When the engine to which the governor is attached works at too great a speed, the 1" fast Pulley Wheels 4 fly outward and lift the two Double Brackets 5. In actual practice this movement is utilised to close the engine valves and so reduce speed.

Model No. 1.224
Stone-Sawing Machine

Parts required:

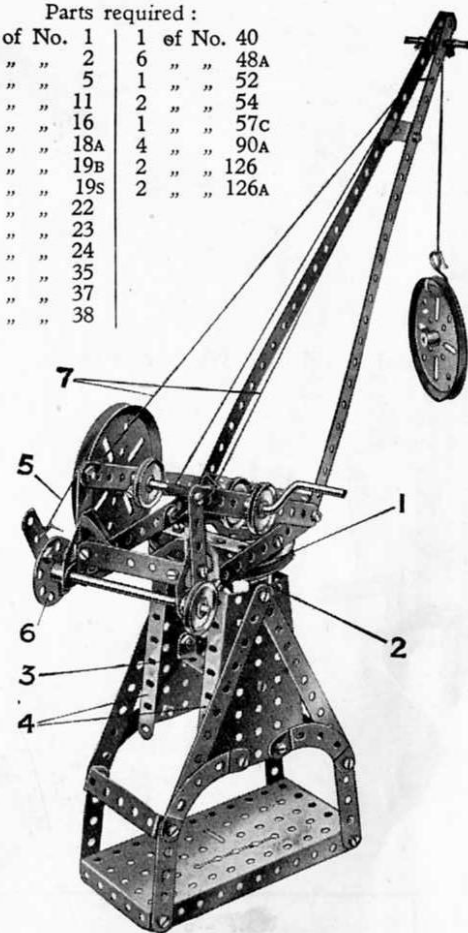
4 of No. 1	1 of No. 24
7 " " 2	6 " " 35
1 " " 3	28 " " 37
3 " " 5	4 " " 37A
2 " " 16	6 " " 48A
1 " " 19s	2 " " 126A
4 " " 22	



Model No. 1.225 Elevated Crane

Parts required:

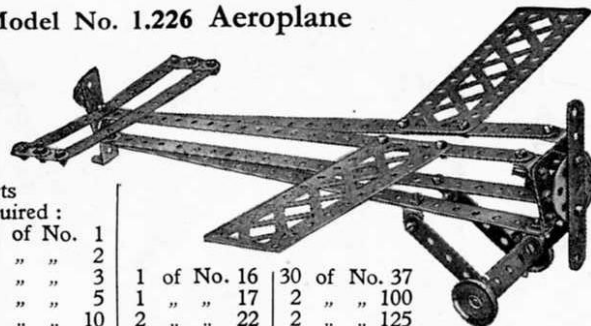
2 of No. 1	1 of No. 40
8 " " 2	6 " " 48A
8 " " 5	1 " " 52
1 " " 11	2 " " 54
2 " " 16	1 " " 57c
1 " " 18A	4 " " 90A
3 " " 19B	2 " " 126
1 " " 19s	2 " " 126A
4 " " 22	
1 " " 23	
1 " " 24	
3 " " 35	
36 " " 37	
3 " " 38	



The base of the swivelling portion of the crane consists of a 3" Pulley Wheel 1, which has a 3½" Axle Rod nipped in its boss. The Rod is journaled in two 2½" Double Angle Strips 2 and 3 secured between the Sector Plates 4. The brake cord 5 passes round the 3" Pulley as shown, and is tied to one of the holes in the Bush Wheel 6. The cords 7 serve merely to support the weight of the jib.

These Models can be built with MECCANO Outfit No. 1 (or No. O and No. OA)

Model No. 1.226 Aeroplane



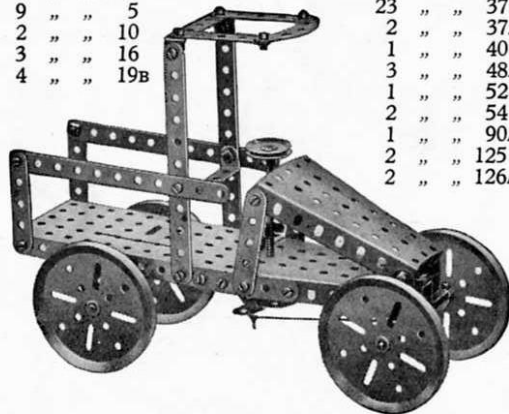
Parts
required :

4 of No. 1		
2 " " 2		
1 " " 3	1 of No. 16	30 of No. 37
4 " " 5	1 " " 17	2 " " 100
4 " " 10	2 " " 22	2 " " 125
1 " " 11	1 " " 24	1 " " 126
8 " " 12	1 " " 35	2 " " 126A

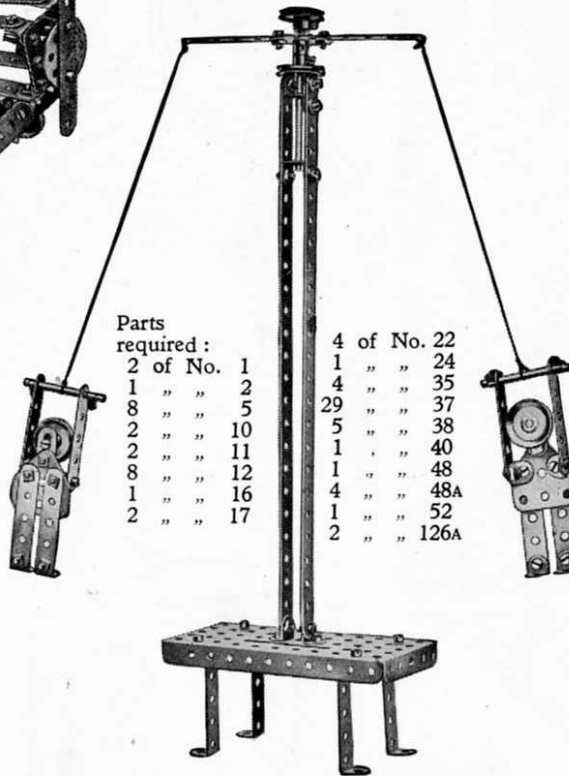
Model No. 1.227 Motor Truck

Parts
required :

4 of No. 2	1 of No. 22
9 " " 5	1 " " 24
2 " " 10	1 " " 35
3 " " 16	23 " " 37
4 " " 19B	2 " " 37A
	1 " " 40
	3 " " 48A
	1 " " 52
	2 " " 54
	1 " " 90A
	2 " " 125
	2 " " 126A



Model No. 1.228 Revolving Gymnasts



Parts
required :

2 of No. 1	4 of No. 22
8 " " 2	1 " " 24
2 " " 5	4 " " 35
2 " " 10	29 " " 37
1 " " 11	5 " " 38
8 " " 12	1 " " 40
1 " " 16	1 " " 48
2 " " 17	4 " " 48A
	1 " " 52
	2 " " 126A

Model No. 1.229 Coster's Barrow



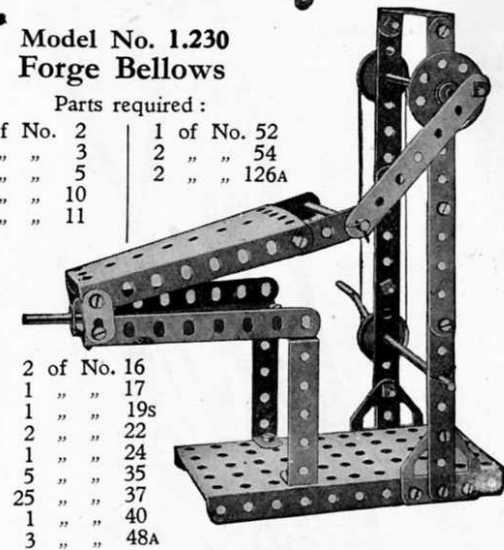
Parts
required :

4 of No. 2
4 " " 5
2 " " 10
1 " " 16
2 " " 19B
16 " " 37
2 " " 48A
1 " " 52
2 " " 126A

Model No. 1.230 Forge Bellows

Parts required :

4 of No. 2	1 of No. 52
1 " " 3	2 " " 54
2 " " 5	2 " " 126A
2 " " 10	
1 " " 11	



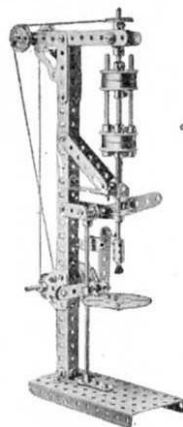
2 of No. 16
1 " " 17
1 " " 19s
2 " " 22
1 " " 24
5 " " 35
25 " " 37
1 " " 40
3 " " 48A

HOW TO CONTINUE

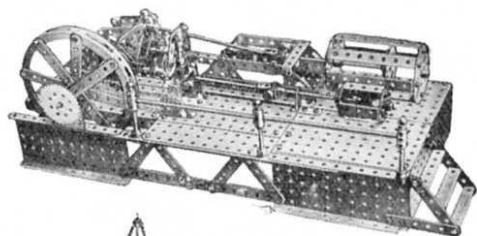
This completes our examples of models that may be made with MECCANO Outfit No. 1 (or No. O and No. OA). The next models are a little more advanced, requiring a number of extra parts to construct them. The necessary parts are all contained in a No. 1A Accessory Outfit, the price of which may be obtained from any Meccano Dealer.

Build Bigger and Better Models

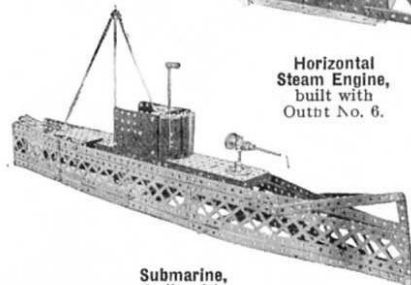
79



Vertical Drill,
built with
Outfit No. 5.



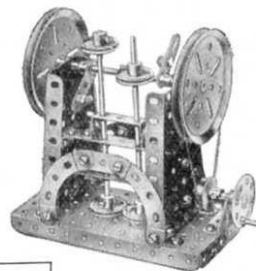
**Horizontal
Steam Engine,**
built with
Outfit No. 6.



Submarine,
built with
Outfit No. 4.



Steam Lorry,
built with
Outfit No. 2.



Stamping Mill,
built with
Outfit No. 2.



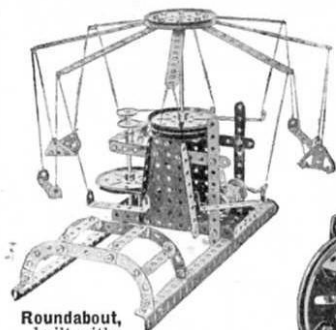
Girder Crane,
built with
Outfit No. 4.

Keep adding to Your Outfit

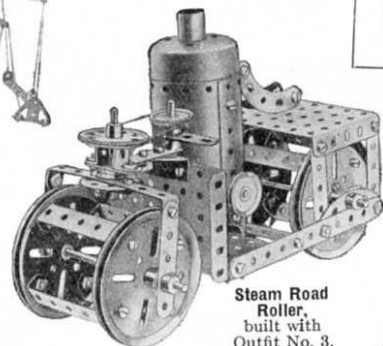
The more Meccano parts you have, the bigger and better the models you are able to build. Keen and enthusiastic model-builders keep adding to their Outfits, until they are able to build all the wonderful models shown in the Meccano Manuals.

The model-building possibilities of the Meccano System are limitless. All the fine models illustrated on this page are examples of the types you will be able to build as your Outfit develops.

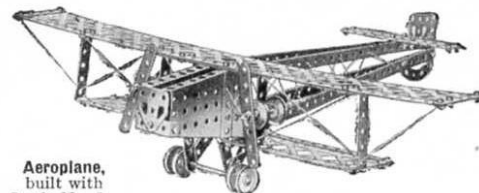
You can purchase separate Meccano parts as you require them, or, if you prefer, you can purchase Accessory Outfits that connect all the main Outfits.



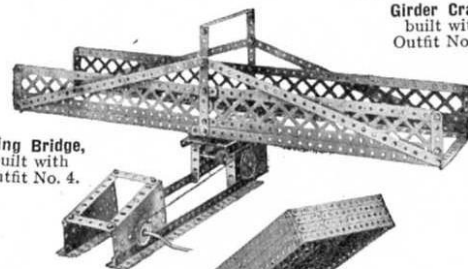
Roundabout,
built with
Outfit No. 2.



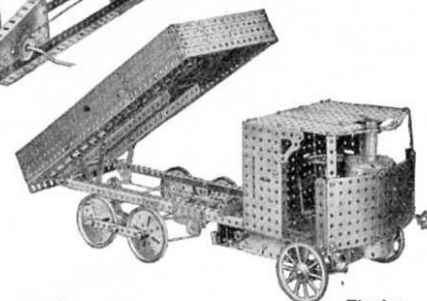
**Steam Road
Roller,**
built with
Outfit No. 3.



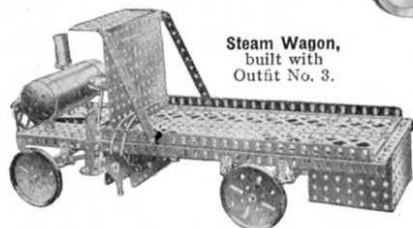
Aeroplane,
built with
Outfit No. 2.



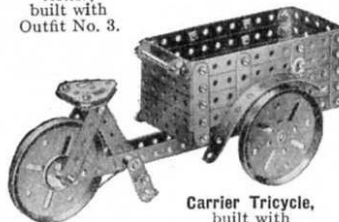
Swing Bridge,
built with
Outfit No. 4.



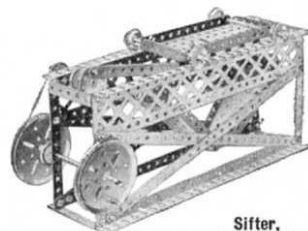
**Tipping
Steam Wagon,**
built with
Outfit No. 5.



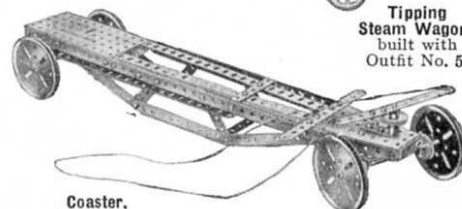
Steam Wagon,
built with
Outfit No. 3.



Carrier Tricycle,
built with
Outfit No. 2.

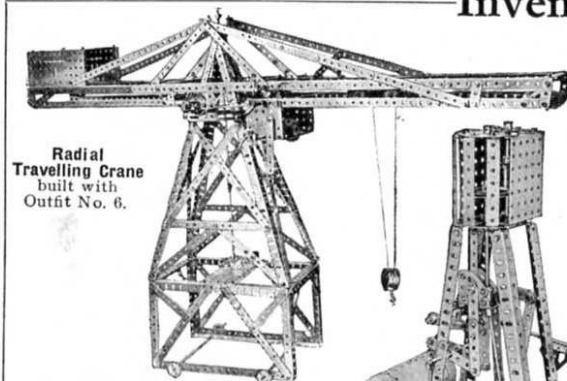


Sifter,
built with
Outfit No. 2.

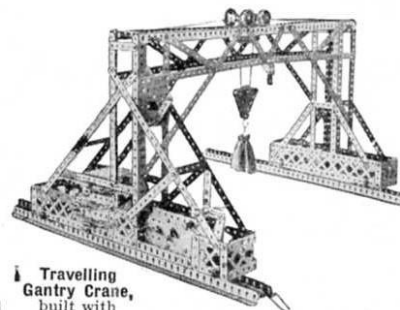


Coaster,
built with
Outfit No. 2.

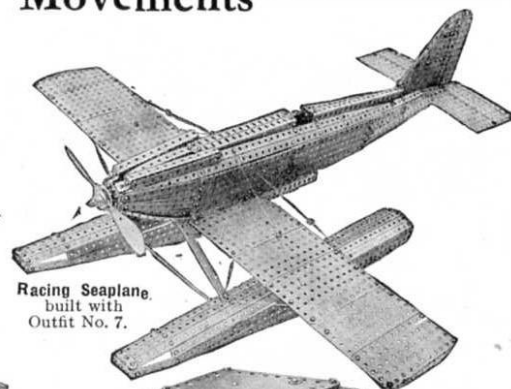
Invent New Models and Movements



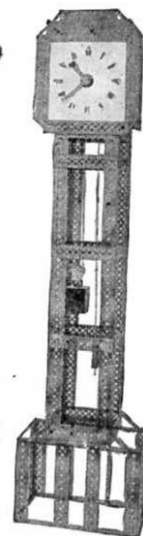
Radial
Travelling Crane
built with
Outfit No. 6.



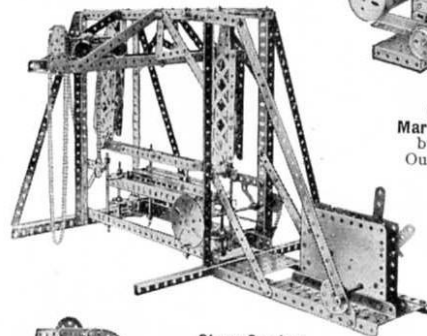
Travelling
Gantry Crane,
built with
Outfit No. 7.



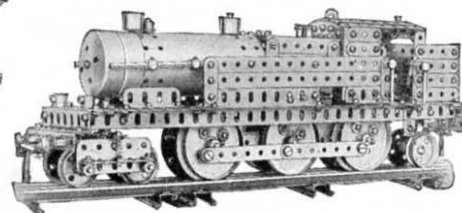
Racing Seaplane,
built with
Outfit No. 7.



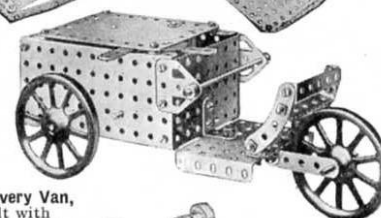
Grandfather
Clock,
built with
Outfit No. 7.



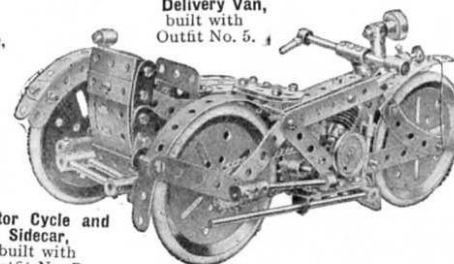
Vertical
Marine Engine,
built with
Outfit No. 5.



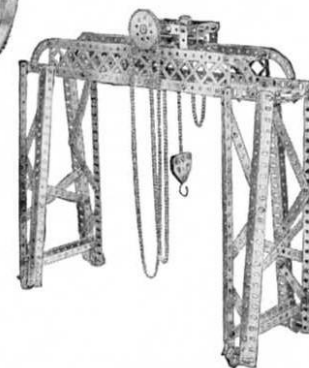
Pacific Tank Locomotive,
built with Outfit No. 7.



Delivery Van,
built with
Outfit No. 5.



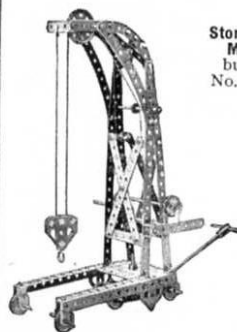
Motor Cycle and
Sidecar,
built with
Outfit No. 7.



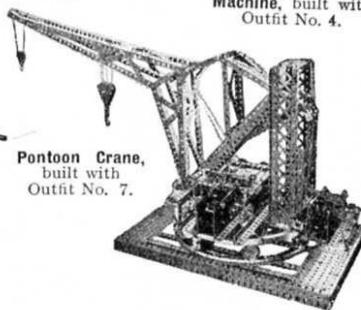
Gantry Crane,
built with
Outfit No. 5.

Stone-Sawing
Machine,
built with
No. 6 Outfit.

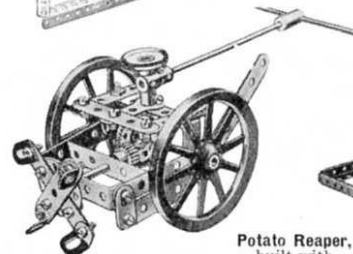
Wire Rope-making
Machine, built with
Outfit No. 4.



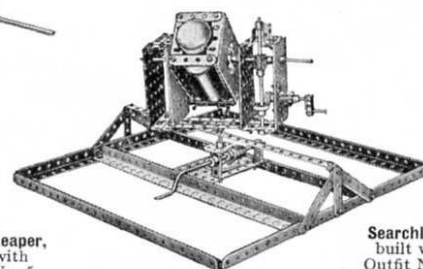
Portable Crane,
built with
No. 6 Outfit.



Pontoon Crane,
built with
Outfit No. 7.



Potato Reaper,
built with
Outfit No. 5.



Searchlight,
built with
Outfit No. 6.

CONTENTS OF OUTFITS

No.	DESCRIPTION OF PART.	00	00A	0	0A	1	1A	2	2A	3	3A	4	4A	5	5A	6	6A	7
1	Perforated Strips, 12 ¹ / ₂ "	—	—	—	4	4	6	10	—	10	—	10	6	16	14	30	8	38
1A	" " 9 ¹ / ₂ "	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1B	" " 7 ¹ / ₂ "	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2	" " 5 ¹ / ₂ "	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2A	" " 4 ¹ / ₂ "	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
3	" " 3 ¹ / ₂ "	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
4	" " 3"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
5	" " 2 ¹ / ₂ "	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
6	" " 2"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
6A	" " 1 ¹ / ₂ "	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
7	Angle Girders, 2 ¹ / ₂ "	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
7A	" " 1 ¹ / ₂ "	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
8	" " 1 ¹ / ₂ "	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
8A	" " 1 ¹ / ₂ "	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
8B	" " 1 ¹ / ₂ "	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
9	" " 1 ¹ / ₂ "	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
9A	" " 1 ¹ / ₂ "	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
9B	" " 1 ¹ / ₂ "	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
9C	" " 1 ¹ / ₂ "	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
9D	" " 1 ¹ / ₂ "	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
9E	" " 1 ¹ / ₂ "	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
9F	" " 1 ¹ / ₂ "	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
10	Flat Brackets	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
11	Double Brackets	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
12	Angle Brackets, 1 ¹ / ₂ " x 1 ¹ / ₂ "	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
12A	" " 1 ¹ / ₂ " x 1 ¹ / ₂ "	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
12B	" " 1 ¹ / ₂ " x 1 ¹ / ₂ "	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
13	Axle Rods, 11 ¹ / ₂ "	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
13A	" " 11 ¹ / ₂ "	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
14	" " 11 ¹ / ₂ "	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
15	" " 11 ¹ / ₂ "	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
15A	" " 11 ¹ / ₂ "	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
16	" " 11 ¹ / ₂ "	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
16A	" " 11 ¹ / ₂ "	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
16B	" " 11 ¹ / ₂ "	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
17	" " 11 ¹ / ₂ "	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
17A	" " 11 ¹ / ₂ "	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
18	" " 11 ¹ / ₂ "	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
18A	" " 11 ¹ / ₂ "	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
18B	" " 11 ¹ / ₂ "	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
19	Crank Handles (5" shaft)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
19A	" " (3 ¹ / ₂ " shaft)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
19B	Wheels, 3"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
20	Flanged Wheels, 1 ¹ / ₂ "	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
20A	Pulley Wheels, 2"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
20B	Flanged Wheels, 1 ¹ / ₂ "	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
21	Pulley Wheels, 1 ¹ / ₂ "	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
22	" " 1" (fast)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
22A	" " 1" (loose)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
23	" " 1" (fast)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
23A	" " 1" (fast)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
24	Bush Wheels	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
25	Pinion Wheels, 3" diam., 1" wide	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
25A	" " 3" diam., 1" wide	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
26	" " 3" diam., 1" wide	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
26A	" " 3" diam., 1" wide	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
27	Gear Wheels, 50-teeth	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
27A	" " 133	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
27B	Contrate Wheels, 1 ¹ / ₂ " (3 ¹ / ₂ " diam.)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
28	Bevel Gears, 1 ¹ / ₂ "	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
29	" " 1 ¹ / ₂ "	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
30	" " 1 ¹ / ₂ "	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
30A	" " 1 ¹ / ₂ "	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
30C	" " 1 ¹ / ₂ "	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
31	Gear Wheels, 1", 38-teeth	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
32	Worms	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
33	Spanners	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
34	Spring Clips	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
35	Screw Drivers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
36	Nuts and Bolts, 7/32" (special)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
36B	" " 7/32"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
37	Nuts	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
37A	" " 7/32"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
38	Washers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
40	Hanks of Cord	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
41	Propeller Blades	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
43	Springs	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
44	Cranked Bent Strips	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
45	Double Bent Strips	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
46	Double Angle Strips, 2 ¹ / ₂ " x 1 ¹ / ₂ "	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
47	" " 2 ¹ / ₂ " x 1 ¹ / ₂ "	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
47A	" " 2 ¹ / ₂ " x 1 ¹ / ₂ "	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
48	" " 2 ¹ / ₂ " x 1 ¹ / ₂ "	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
48A	" " 2 ¹ / ₂ " x 1 ¹ / ₂ "	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

[CONTINUED OVERLEAF]

Contents of Outfits—(Continued)

[illegible]

Contents of Outfits—(Continued)

No.	DESCRIPTION OF PART.	00	00A	0	0A	1	1A	2	2A	3	3A	4	4A	5	5A	6	6A	7
124	Reversed Angle Brackets, 1"	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
125	" " " " " "	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
126	Flat Trunnions	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
126A	Boss Bell Cranks	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
128	Rack Segments (3" diam.)	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
129	Eccentrics, Triple Throw	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
130	Dredger Buckets	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
131	Flywheels, 2"	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
132	Concor Brackets	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
133	Theodolite Protractors	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
135	Handrail Supports	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
136	Universal Couplings	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
137	Wire Lines, 3" diam.	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
138	Rubber Rings, 3" diam.	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
139	Motor Tyres, 2" internal diam.	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
140	" " " " " "	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
141	Circular Girders (3 1/2" diam.)	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
142	Dog Clutches	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
143	Circular Strips (7 1/2" diam. overall)	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
144	" " " " " "	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
145	Pawls	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
146	Pivot Bolts with two Nuts	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
147A	Ratchet Wheels	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
148	Rubber Rings, 1"	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
149	Fans, 2" diam.	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
150	Circular Saws	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
151	Channel Bearings, 1 1/2" x 1" x 1/2"	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
152	Girder Brackets, 2" x 1" x 1/2"	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
153	Bolters, complete with Ends	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
154	Sleeve Pieces	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
155	Chimney Adaptors	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
156	Swivel Bearings	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
157	End	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
158	Ball	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
159	Eccentrics, 1/2" throw	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
160	Socket Couplings	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
161	Pentulum Connections	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
162	Bobbins	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
163	Bushes, Insulating	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
164	Terminals	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
165	Washers, Insulating	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
166	6 B.A. Bolts	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
167	" " Nuts	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
168	Clockwork Motor No. 2	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
169	Electric Motor No. E6 (6 volt)	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
Instruction Leaflets																		
No. 1	Motor Chassis	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
No. 2	High-speed Ship-Coaler	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
No. 3	Motor Cycle and Sidecar	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
No. 4	5-Dredger	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
No. 5	6-Stuff Leg Derrick	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
No. 6	7-Platform Scales	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
No. 7	8-Bagatelle Table	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
No. 8	9-Log Saw	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
No. 9	10-Horizontal Steam Engine	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
No. 10	11-Stone-sawing Machine	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
No. 11	12-Meccanograph	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
No. 12	13-New Grandfather Clock	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
No. 13	14A-New Loom	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
No. 14	15-Revolving Machine	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
No. 15	16-Revolving Crane	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
No. 16	17-Steam Shovel	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
No. 17	18-Electric Mobile Crane	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
No. 18	19-Transporter Bridge	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
No. 19	20-Traction Engine	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
No. 20	21-Vertical Log Saw	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
No. 21	22-Travelling Gantry Crane	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
No. 22	23-Hydraulic Crane	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
No. 23	24-Twin-elliptic Harmonograph	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
No. 24	25-Pontoon Crane	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
No. 25	26-Hammerhead Crane	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
No. 26	27-Breakdown Crane	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
No. 27	28-Warehouse	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
No. 28	29-Automatic Grabbing Crane	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
No. 29	30-Electric Derrick Crane	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4
No. 30	31-Howitzer Limber and Tractor	1	1	2	2	2	2	4	4	4	4	4	4	4	4	4	4	4

Full instructions for building a fine range of models are included with each Outfit.

Description.	Model No.	Description.	Model No.	Description.	Model No.
Acrobat on See-saw	1.56	Chair Back00.161; 1.148; 1.155	Fencers, The	Model No.
Aerial Flight	0.66; 1.89	" Deck ...	1.46	Fire Alarm ...	0.107
" Ropeway	0.99	" Go ...	0.136	" Engine, Manual	1.125
Aerial, Cage	00.106	" Invalid	1.21	" Escape	0.135
" Direction	00.114	" Revolving Office	0.153	" Flip-Flat	00.154
" Frame	00.53	Chase, A ...	0.65	Flower Pot Stand	1.115
" Single Wire L	00.109	Cheese Cutter	00.99	Fly Boats	00.172
" Double Wire L	00.108	Chess Church	0.16	Flying Machine	0.93; 1.54; 1.145
" Single Wire T	00.112	Chute ...	00.38	Footbridge	1.79
" Double Wire T	00.113	Clock ...	0.79	Foot Hammer	0.84
Aeroplane ...	0.20; 0.119; 1.29; 1.76; 1.144; 1.226	" Grandfather	00.63	Fork	1.154
Airship	00.120	" Clothes Drying Frame	00.159	Friction Grip Tongs	00.2
" Mooring Mast	00.168	" Hanger	00.22	" Frog	00.78; 1.41
Anchor	00.73; 0.105	Coal Cutter	1.160	Gallows	00.165
Angler	0.15	Coaster	1.132; 1.149	Gatunometer	0.08
Ape ...	0.33	Coast Guard	0.76	Gauging	0.34; 1.37
Arc Lamp	00.160; 1.43	Coat Hanger	00.9; 1.200	Garden Roller	00.167
Arch ...	00.123	Coco-nut Shty	1.147	" Hose Reel	00.86
Axe ...	00.1	Cot ... Wheels	0.26; 0.129	Gate ...	00.80; 1.80
" Battle ...	00.60	" on Wheels	1.87	Girdler, Bow	1.85
" Fire ...	00.21	Couch ...	0.130	Glider	00.48
Baboon	0.83	Cow and Milkmaid	0.47	Gong	1.90
Bacon Slewing Machine	0.52; 1.6	Crane	0.77	Goose	0.18
Bagatelle Table	1.06	" Breakdown	0.58	Governor, Centrifugal Engine	0.63; 1.22
Balista	1.96	" Derricking	0.115	" Inverted Centrifugal	1.68
Banjo	0.50	" Elevated	1.223	Gramophone	0.40; 1.126
Barge	00.84	" Grab	0.86	Grass Cutter	0.89
Barrow	0.31	" Jib	1.181	Gradient Indicators	00.127 to 00.134
" Coster's	0.69; 1.229	" Jib ...	0.6; 1.222	Gravel Sifter	00.74
Battleship	0.23; 0.142; 1.59	" Lorry	1.174	Gravity Conveyor	1.157
Bed ...	00.157	" Mobile	1.117	Grill	00.11
Bellows	1.116; 1.164	" Overhead	1.64	Gullotine	1.197
" Forge	1.230	" Patent Luffing	1.205	Gun, Anti-Aircraft	00.182; 1.118
Belt Gear 1.5; 1.14	1.15; 1.19; 1.20	" Radial Travelling	00.96	" Big	00.177
Bench	00.18; 0.144	" Revolving	00.107; 1.204	" Field, and Carriage	0.31
Bicycle	0.46; 1.135	" Hammerhead	1.172	" Lewis	00.42
Billiard Player	0.150	" Rotating	1.124	" Machine	0.108
Bridge and Stand	00.83	" Swivelling	0.135; 1.103; 1.216	" Old Stage	0.140
Blacksmith	00.179; 1.167	" Travelling	1.62; 1.63	" Quick Firing	1.99
Boat	1.170	" Crib	1.94; 1.134	Gymnast	0.24; 1.137
" Motor	00.36; 0.36	" Crocodile	00.66	" Revolving	1.228
" Rowing	0.91; 1.108	Crossbow	0.28	Gyroscope	1.180
" Sailing	00.155	Crosshead Demonstration Model	0.85	Hack Saw, Power	0.139
" Torpedo	0.38	Cum-bak	1.113	Hammer, Helve	1.208
Boat Steering Gear	1.179	Cutlery Basket	00.158	" Mechanical	1.33
Bogie Truck	00.4	" Rest	00.140	" Hammer	0.134
Book End	00.98	Dancer, The Meccano	1.162	Hatchet	1.24
Bow and Arrow	1.123	" Dancers, Eccentric	1.163	" H " Girder	0.130
Boxer	0.73	Desk ...	00.28	" H " Girder	0.88
Box Ball Alley	1.83	Devil Wall ...	00.76	Hoe	1.4
Box on Swing	1.104	Dignity and Impudence	1.213	Hoisting Block	0.13
Brake, Band	1.3; 1.127	Dinosaur	0.92	Hook's Coupling	1.206
Bridge	0.154	Disappearing Meccanitean	1.212	Horse	1.184
Double Draw	1.148	Dividers	00.17; 00.55	" and Cart	0.3
Bucking Broncho	0.32	Dog ...	00.139	" Prancing	1.203
Buffers	00.153	" Kennel	0.7	" Toy	0.133
Butter Churn	1.67	" Drill	1.195	" Horsman	00.124
Cable Railway	1.69	" Automatic	0.94	" Horsman's Fall	1.40
Camera	0.54	" Rock	1.201	Howitzer	0.74
Candle Shade	0.151	Drilling Machine	0.131	Hurdler	1.131
" Stick	1.70	Drinking Trough	0.125; 1.173	" Inclined Plane	0.60
Canon	00.103	Dump Car	00.57	Invalid, The	1.159
Car, Hand	00.101	Eiffel Tower	1.193	Inverted Truss	1.122
" Tandem	1.32	Electric Loco	0.94	Jockey Pulley	1.81
" Carpenter's Square	0.26	Elevator	1.49; 1.215		

INDEX TO MODELS (continued)

Description.	Model No.	Description.	Model No.	Description.	Model No.
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" Bench ...	0.143	" Horse ...	0.5; 1.219	" Drafting ...	0.101
" Lawn Mower ...	1.31	" Large ...	0.5; 1.219	" Tapping Valve Demonstration ...	1.156
" Lazy Tong ...	0.22; 1.38	Rat Trap ...	0.187	Model ...	00.183
Letter Balance ...	00.174; 1.22	Rattle ...	0.103	Telegraph Key ...	00.79
Level Crossing Barrier ...	00.77	Razor ...	00.50	Pole ...	1.143
Lever of the First Order ...	00.170	Rickshaw ...	0.90	Telescope ...	0.49; 1.210
" " Second ...	1.7	Rifle with Bayonet ...	00.32	Telescopic Mast ...	1.182
" " Third ...	1.8	Road Sign ...	00.47; 0.119	Talpher Span ...	0.12
Light Cruiser ...	0.9	Rocking Horse ...	0.25	Tennis Player ...	1.28
Liner ...	00.72	Roller, Field ...	00.10	Three Wheel Auto ...	0.10
Locomotive ...	1.60; 1.138	Roman Balance ...	00.6	Ticca Gharry ...	1.97
Loom, Hand ...	1.209	Roulette Wheel ...	00.62; 1.92	Timber Drag ...	00.64
Lorry, Motor ...	1.57; 1.211	Roundabout ...	1.218	Tin Opener ...	1.188
Loud Speaker ...	0.45	Safety Catch for Winding Gear ...	00.181; 1.66	Top ...	1.194
Luggage Cart ...	1.48	Saw, Band ...	00.185; 1.139	Top Spinning ...	00.40
Machine for tracing a locus ...	1.71	" Circular ...	00.16	Towel Horse ...	00.104
Magic Plate ...	00.75; 00.117	" Meat ...	00.8	Track Gauge ...	00.142
Mail Bag Hanger ...	1.72	" Mechanical ...	00.150	Tractor, Motor ...	0.35
Man and Boy ...	1.220	" Two-hand ...	1.34	Tramway Car ...	1.140
" Climbing Pole ...	1.133	Sawing Horse ...	0.29	Treadle Grindstone ...	1.105; 1.175
Master and Student ...	0.48	Saxophone ...	0.97; 0.128; 1.127; 1.101; 1.155	Triangle of Forces ...	0.61
Meccano Boy ...	00.82	Scales ...	0.1; 0.55; 1.95	Tricycle, Revolving ...	1.198
" Man ...	1.119	Scarfier ...	00.88	Trip Hammer ...	00.162
Meccanograph ...	1.142	Scooter ...	00.93	Trolley ...	00.122
Mechanical Gong ...	0.41	Scrap Reel ...	00.186	Porter's ...	0.41; 0.30; 0.95
Metal ...	0.13	Searchlight ...	1.52	Trowel ...	00.146
Milk Maid ...	0.70	Seat, Garden ...	1.144	Truck ...	00.30
Missing Link, The ...	00.156	See-Saw ...	0.124; 1.51	" Baggage ...	00.44
Mono Rail ...	00.144; 1.176	" Actuating ...	1.198	" Cattle ...	1.77
Motor Car ...	1.174	" Revolving ...	1.45	" Flat ...	0.21
" Racing ...	0.44	Selsmograph ...	1.221	" Hand ...	0.33
" Cycle and Sidecar ...	1.151	Semaphore ...	00.121	" Lumber ...	00.169; 00.180
" Cyclist and Pillon Rider ...	1.78	Set-Square, 45° ...	1.12	" Luggage ...	00.5; 00.152
Mountain Transport ...	1.130	Set-Square, 60° ...	1.13	" Motor ...	0.2; 0.100; 1.136
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Music Stand ...	0.121	Ship's Lamp ...	1.61	" with Sides ...	00.65
Notice Board ...	00.173	Shipyard Bogie ...	0.27	Truss, Compound Triangulated ...	1.25
Ore Crusher ...	00.95	Shovel, Mechanical ...	1.58	" Howe ...	1.10
Organ ...	00.147	Signal ...	1.75	Triangulated ...	1.11
Ostrich ...	00.149	" Automatic ...	1.902	Try-your-strength Machine ...	1.168
Pantograph ...	0.59	" French Railway ...	00.102	Turnstile ...	00.87
Parallel Bars ...	0.91 0.11	" Junction ...	0.141	Tweezers ...	00.58
Pecking Hen ...	0.72; 0.96; 1.44	Sign Post, one-way ...	00.51	Umbrella Stand ...	00.126
Pen Rack ...	1.153	" three-way ...	00.52	Van, Motor ...	1.171
Piano ...	0.39	" four-way ...	00.59	Velocipede ...	00.23
Pile Driver ...	1.98	Ski-Runner ...	00.187	Viaduct ...	0.113
Pistol ...	0.57	Sned ...	00.25; 00.151; 0.138	Violin ...	00.92
Piston Connection, Double Action ...	0.138	Snake ...	0.78	" and Bow ...	1.111
Planing Bench ...	00.14	Spade ...	00.34	Wagon, Dinner ...	00.149; 1.27
Plasterer's Hawk ...	00.37	Spindle, Buffing ...	00.84	" Refreshment ...	00.169; 0.110
Pliers ...	0.62	Spinning Buttons ...	1.217	" Tea ...	00.67
Pneumatic Grain Elevator ...	0.82	Stamp, Drop ...	1.166	" Timber ...	00.11
Portal ...	0.106	Stamping Machine ...	1.50	" Tip ...	1.28
Potato Chopper ...	00.46	Steaming Machine ...	1.128	" Tower ...	1.88; 1.114; 1.101
Potter's Wheel ...	1.47	Steamer, Paddle ...	00.184	Walking Man ...	0.97
Prehistoric Animal ...	0.152	Steeple Chaser ...	1.120	" Stick ...	00.141
" Armadillo ...	0.43	Stone Sawing Machine ...	1.224	Watch and Chain ...	00.137
Print Trimmer ...	00.105; 0.14	Stool ...	00.69	" Stand ...	00.188
Propeller ...	00.143	Street Lamp ...	00.123	Weather Vane ...	0.112; 1.110
Pulley Block ...	0.114; 1.16; 1.17; 1.18	Strong Man ...	00.135	Well Driller ...	00.171
" Single Sheave ...	0.109; 0.128	Submarine ...	0.19	Windlass ...	0.182
" Shafting ...	00.7; 00.189	Sudden Appearance, A ...	1.53	Windlass Chinese ...	1.152
Pullman Car ...	00.176	Sulky ...	1.192	Windmill ...	00.104; 0.80
Pump ...	0.98	Swing ...	00.145	Wire Rope Maker ...	1.199
" Double Action ...	1.86	Switch ...	00.115; 0.117	Wiretail ...	0.51
" Windmill ...	1.177	Switchback ...	0.87	Wrestlers ...	0.64 1.109
Punching Bag Stand ...	0.137	Sword ...	00.125; 0.42	Yacht ...	00.118
" Machine ...	0.147; 1.100	Table ...	00.15; 00.70; 0.27	" Ice ...	00.145
Quick Delivery Chute ...	1.141	" Bed ...	00.166; 1.158	" Sand ...	1.39 1.82
" Return Device ...	1.107				

Patents and Designs
Great Britain

250,378	671,484
253,236	671,485
323,234	671,534
356,567	671,790
365,701	680,416
366,921	682,308
368,975	682,209
369,337	

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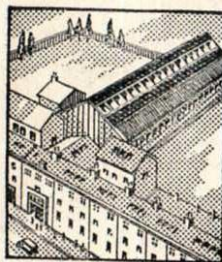
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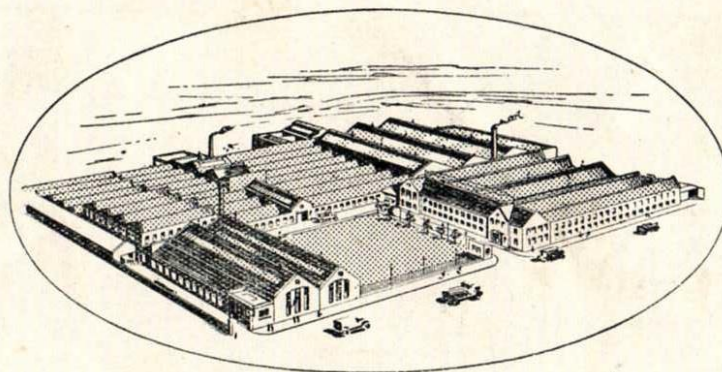
Patents and Designs
Great Britain

682,934	733,541
683,011	733,542
698,054	740,413
718,404	740,723
718,731	767,865
777,900	

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Meccano (France Ltd.,
78-80, Rue Rébeval,
Paris, XIXe.