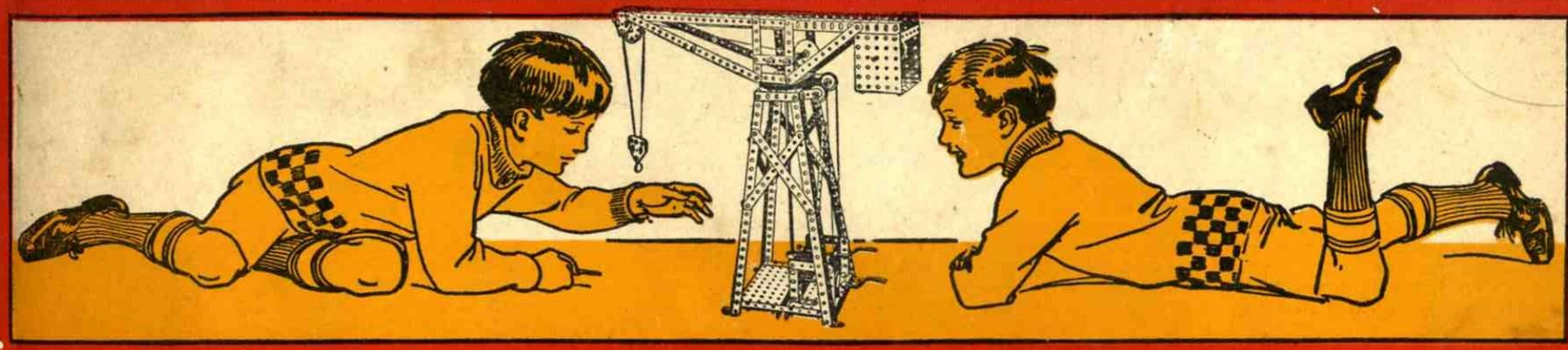


MECCANO

TRADE MARKS 296321, 501118, 76, 12633, 10274, 55/13476, 569/13, 884/25, 2913, 80, 124, 336, 4174, 91637, 83171, 157149, 32822, 200639, 209783, 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

HORNBY'S ORIGINAL SYSTEM—FIRST PATENTED 1901

INSTRUCTIONS

Price 1/-

FOR OUTFITS

00 to 2

No. 31.2

ENGLISH EDITION

2/731/10 (M)

MECCANO

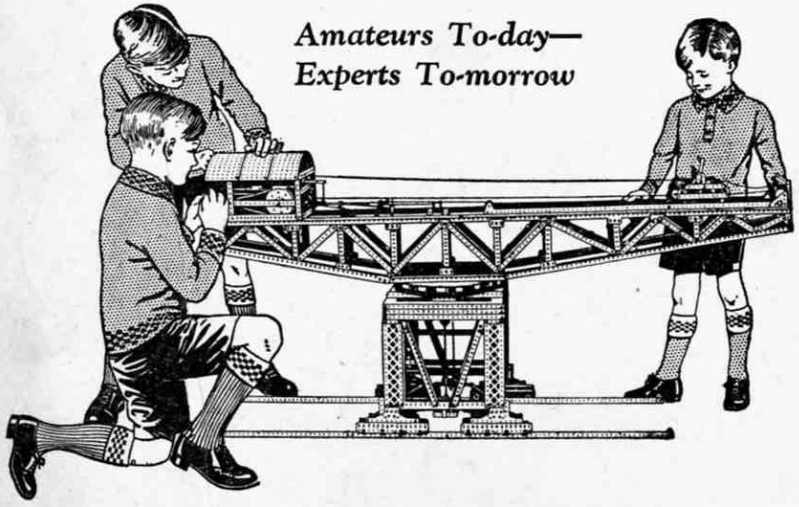
The Finest Hobby in the World for Boys

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.



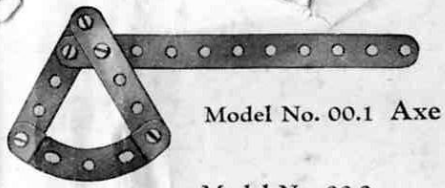
Model-Building with Meccano

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., Old Swan, Liverpool.

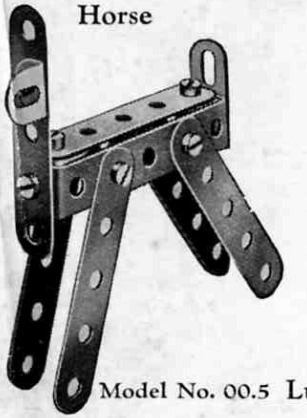
How to Build up Your Outfit

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.

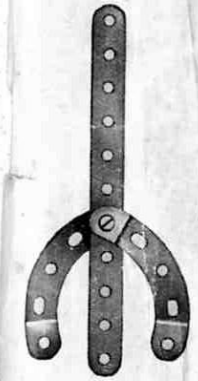


Model No. 00.1 **Axe**

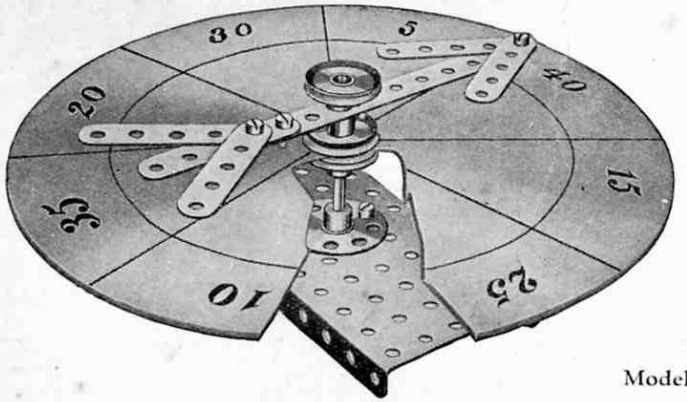
Model No. 00.3
Horse



Model No.
00.2
Fork



Model No. 00.6 **Roulette Wheel**

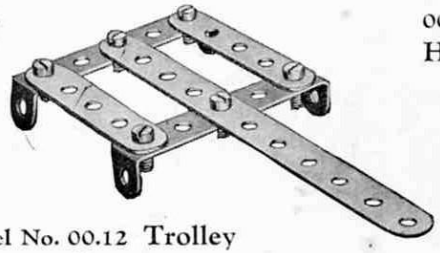


Cut out a circular piece of cardboard and mark as shown to form scoring board. This is clamped between two 1" Pulley Wheels. The pointer revolves freely on the upright spindle and is held in position by another 1" Pulley Wheel.

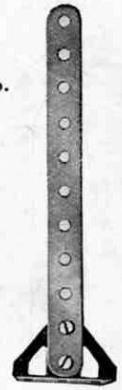
Model No.
00.9
Coat Hanger

Model No. 00.10
Roman Balance

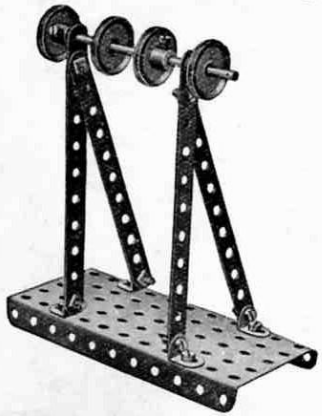
Model No. 00.11 **Grill**



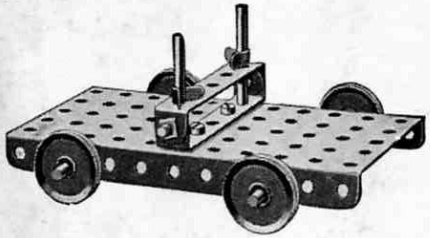
Model No.
00.13
Hoe



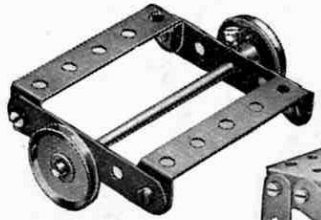
Model No. 00.7 **Pulley Shafting**



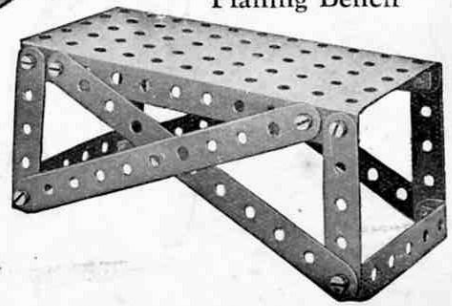
Model No. 00.5 **Lumber Truck**



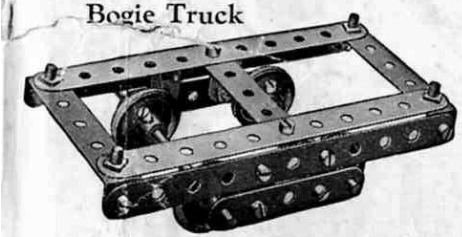
Model No. 00.12 **Trolley**



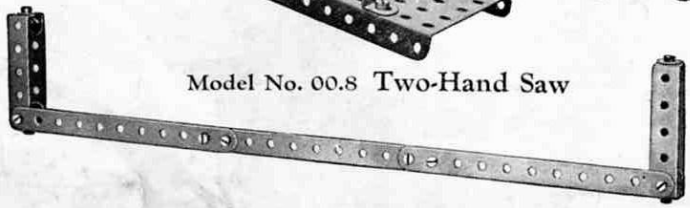
Model No. 00.14
Planing Bench



Model No. 00.4
Bogie Truck

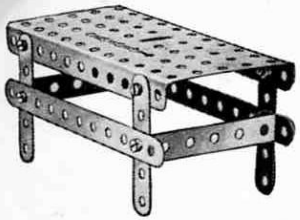


Model No. 00.8 **Two-Hand Saw**



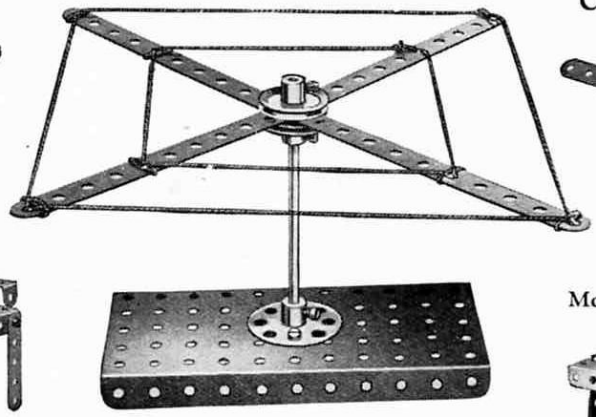
All these Models can be built with MECCANO Outfit No. 00

Model No. 00.15 Table



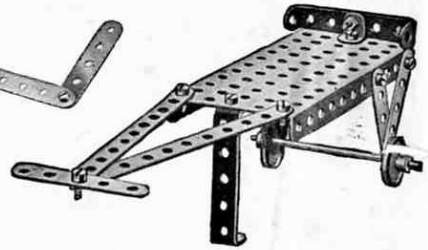
Model No. 00.17 Dividers

Model No. 00.22 Clothes Hanger



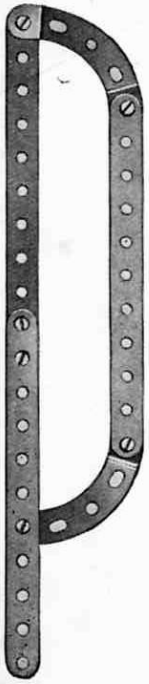
Model No. 00.26
Carpenter's Square

Model No. 00.27
Shipyard Bogie



Model No. 00.18
Bench

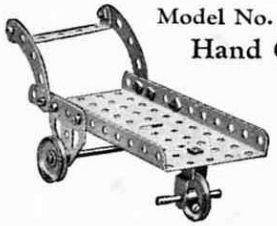
Model No. 00.16
Meat Saw



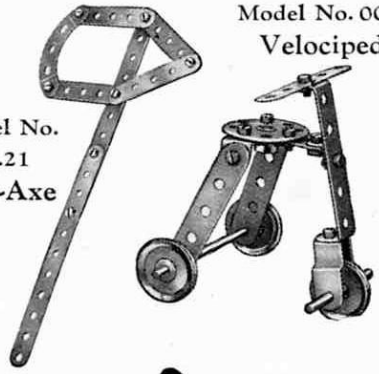
Model No. 00.28 Desk

Model No.
00.29
Farm Sight

Model No. 00.19
Hand Cart



Model No. 00.23
Velocipede



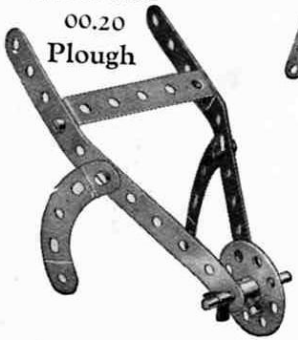
Model No.
00.21
Fire-Axe

Model No.
00.24
Ladder

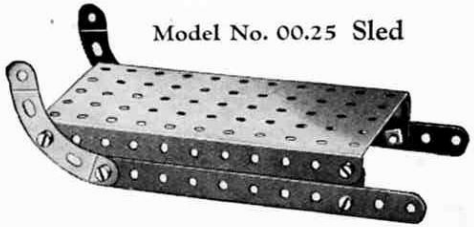
Model No.
00.30
Trowel

Model No. 00.32
Rifle with
Bayonet

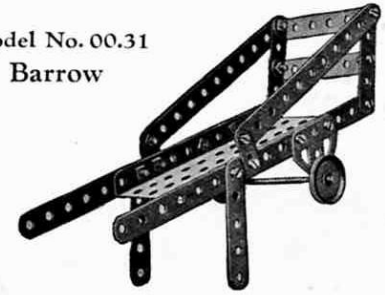
Model No.
00.20
Plough



Model No. 00.25 Sled



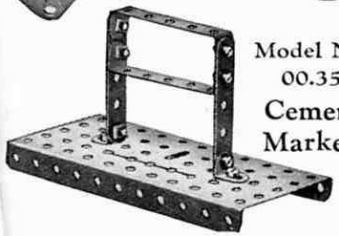
Model No. 00.31
Barrow



Model No. 00.33 Flat Truck

Model No. 00.34 Spade

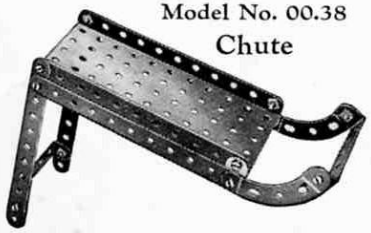
Model No. 00.35 Cement Marker



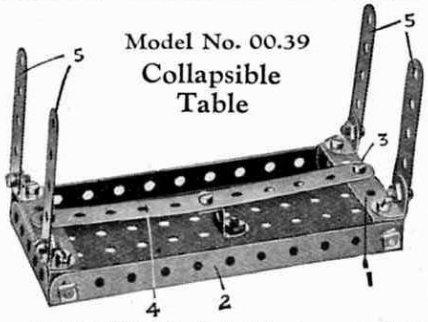
Model No. 00.36 Motor Boat

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 freeing the Double Angle Strips 1. The table is shown in the folded position in Fig. 00.39A.

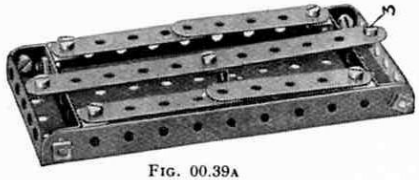
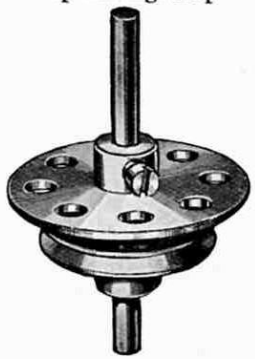


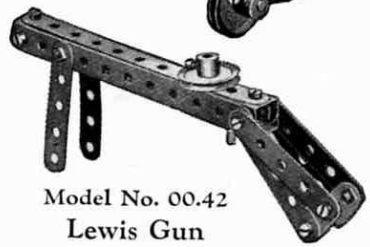
FIG. 00.39A

Model No. 00.40 Spinning Top

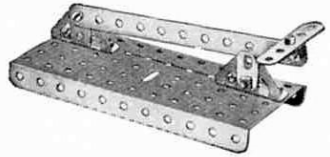


Model No. 00.41 Trolley

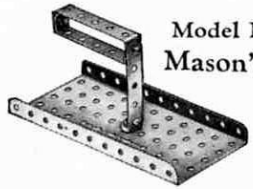
Model No. 00.42 Lewis Gun



Model No. 00.43 Switch

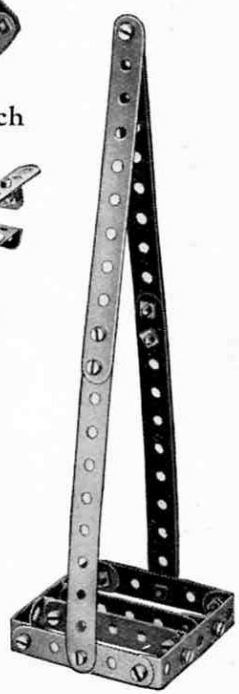


Model No. 00.44 Mason's Trowel



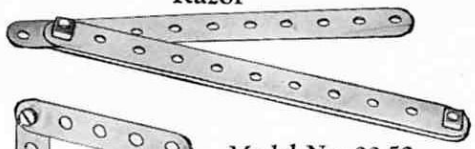
Model No. 00.45 Baggage Cart

Model No. 00.46 Potato Chopper

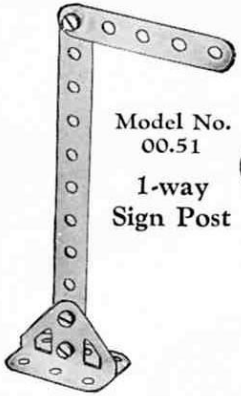


Model No. 00.47
Road Sign

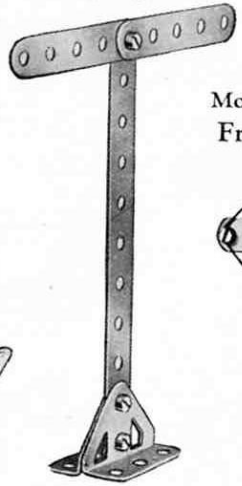
Model No. 00.50
Razor



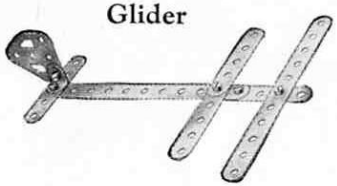
Model No. 00.51
1-way
Sign Post



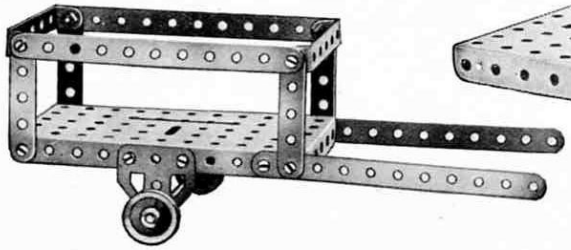
Model No. 00.52
2-way Sign Post



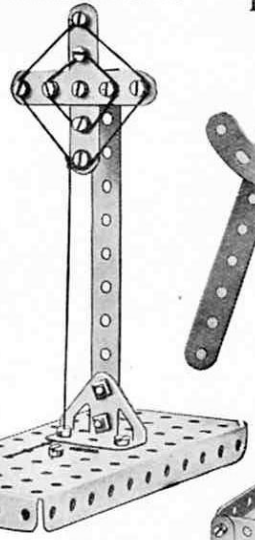
Model No. 00.48
Glider



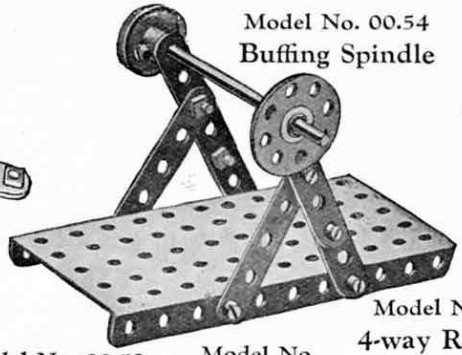
Model No. 00.49 Cart



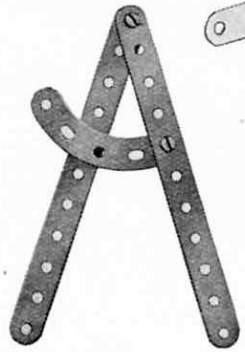
Model No. 00.53
Frame Aerial



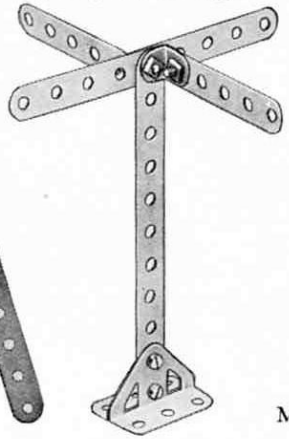
Model No. 00.54
Buffing Spindle



Model No. 00.55
Dividers



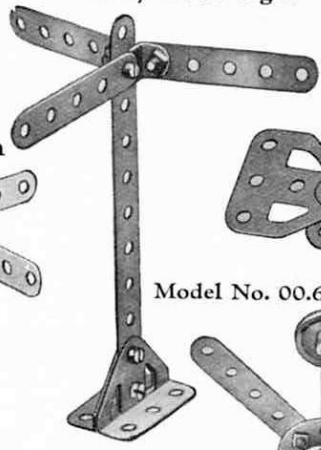
Model No. 00.56
4-way Road Sign



Model No. 00.57
Drinking Trough

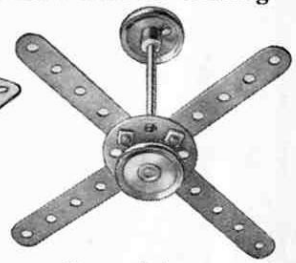
Model No. 00.58 Tweezers

Model No. 00.59
3-way Road Sign

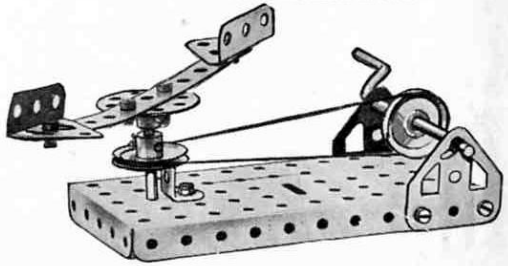


Model No. 00.60
Battle Axe

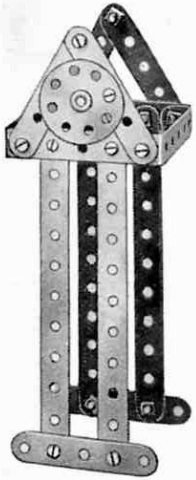
Model No. 00.61 Ceiling



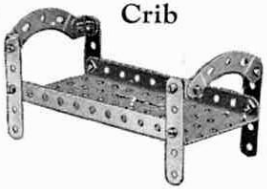
Model No. 00.62 Roundabout



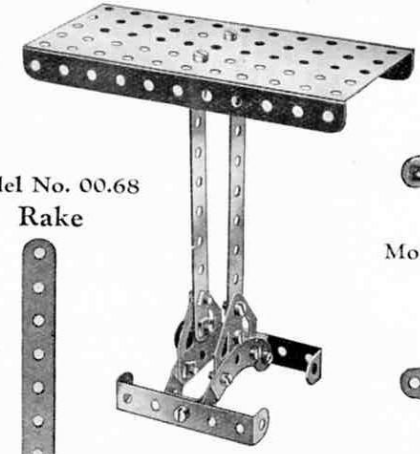
Model No. 00.63
Grandfather's Clock



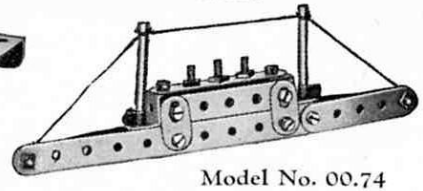
Model No. 00.66
Crib



Model No. 00.70 Table

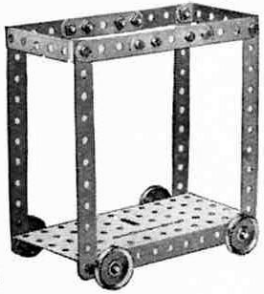


Model No. 00.72
Liner

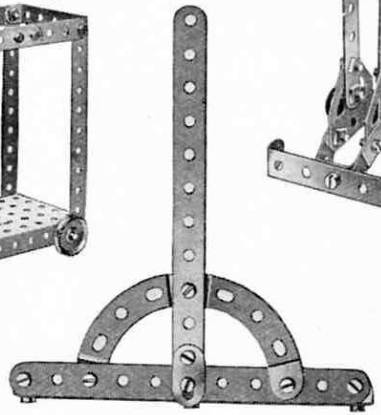


Model No. 00.75
Mail
Bag
Hanger

Model No. 00.67
Refreshment Wagon

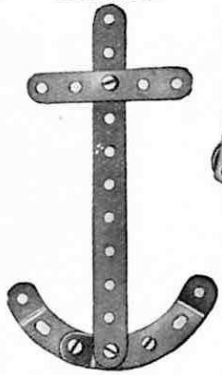


Model No. 00.68
Rake

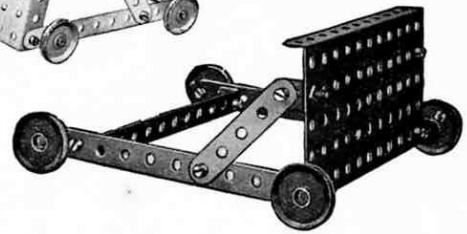


Model No. 00.74
Gravel Sifter

Model No. 00.73
Anchor

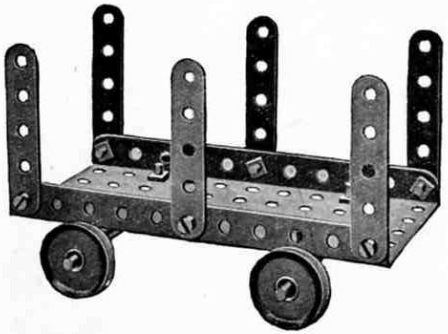


Model No. 00.76
Devil Wall



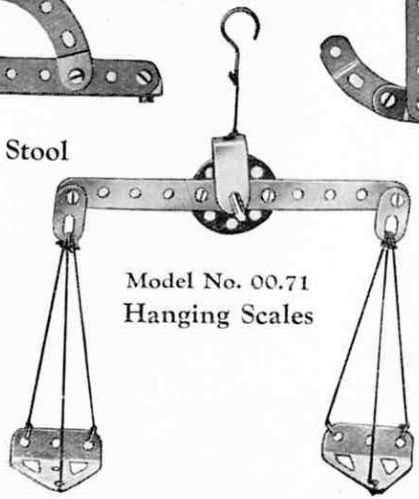
Model No. 00.64
Tin Opener

Model No. 00.65 Timber Truck

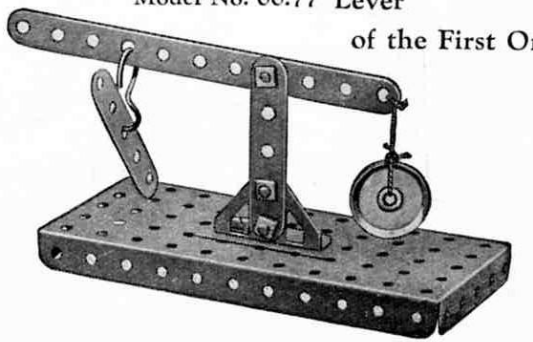


Model No. 00.69 Stool

Model No. 00.71
Hanging Scales



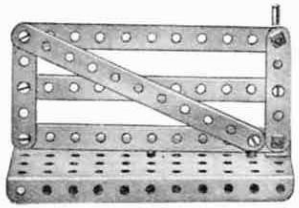
Model No. 00.77 Lever
of the First Order



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

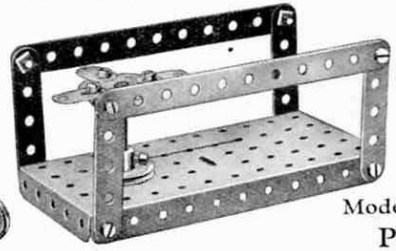
Model No. 00.78
Friction Grip Tongs

Model No. 00.80 Gate

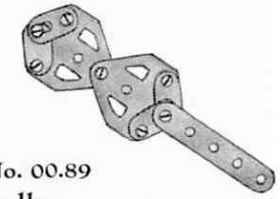


Model No. 00.85
Ladder on Wheels

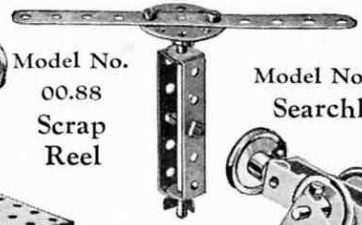
Model No. 00.87 Turnstile



Model No. 00.92
Violin



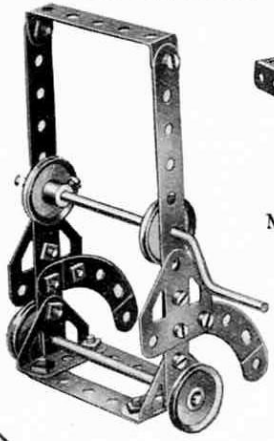
Model No. 00.89
Propeller



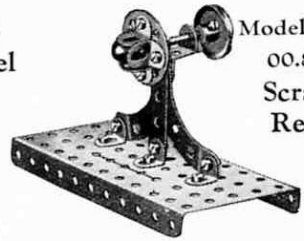
Model No. 00.81
Clothes Horse

Model No. 00.83
Birdcage and Stand

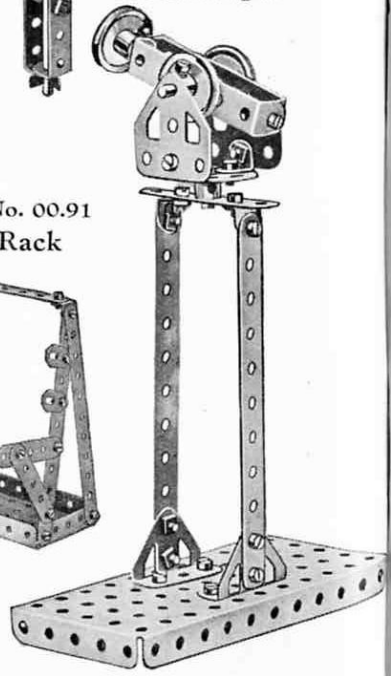
Model No. 00.86
Garden Hose Reel



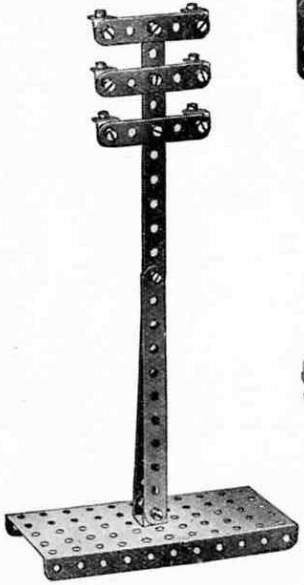
Model No. 00.88
Scrap Reel



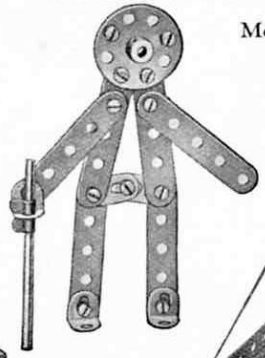
Model No. 00.93
Searchlight



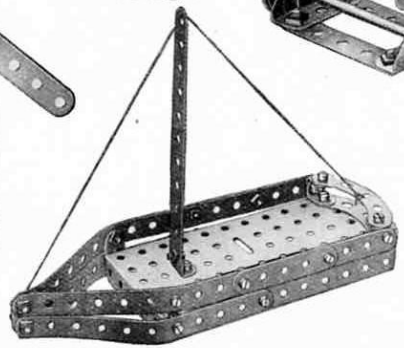
Model No. 00.79
Telegraph Pole



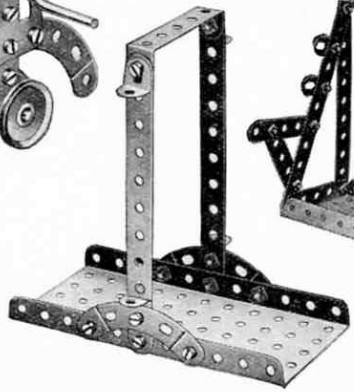
Model No. 00.82
Meccano Man



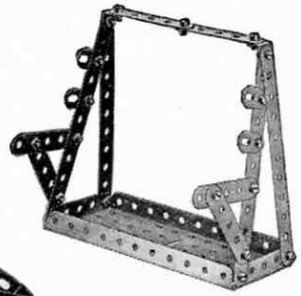
Model No. 00.84
Barge



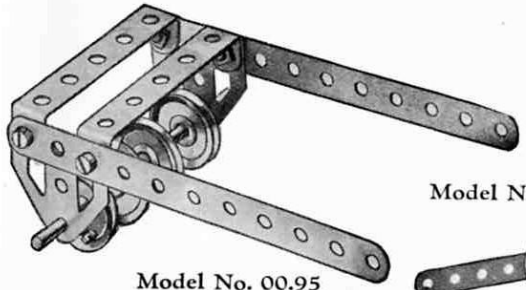
Model No. 00.90
Elevator Car



Model No. 00.91
Pen Rack

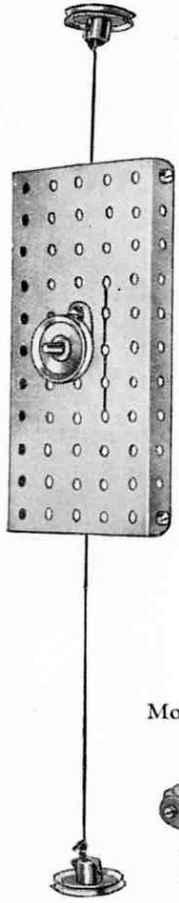


Model No. 00.94 Field Roller

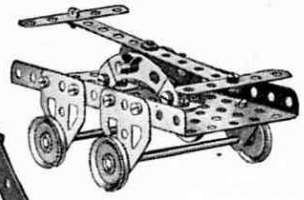


Model No. 00.100 Magic Plate

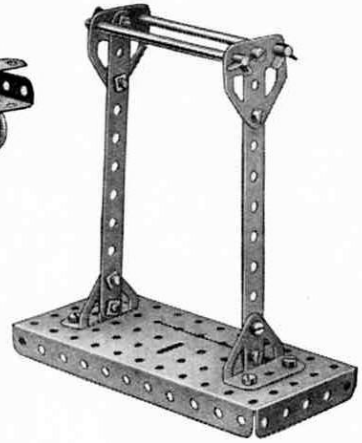
The cord is wound once round a 2" Axle Rod that is journalled in a Flat Bracket and a ½" Reversed Angle Bracket, which are bolted to the Plate. If the cord is held loosely the plate will drop, but as soon as the cord is tightened the plate becomes immovable.



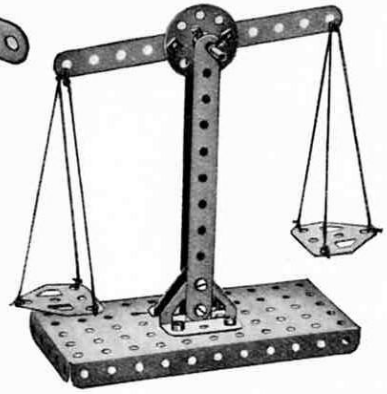
Model No. 00.101 Hand Car



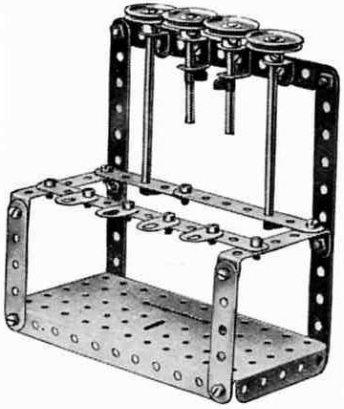
Model No. 00.104 Towel Horse



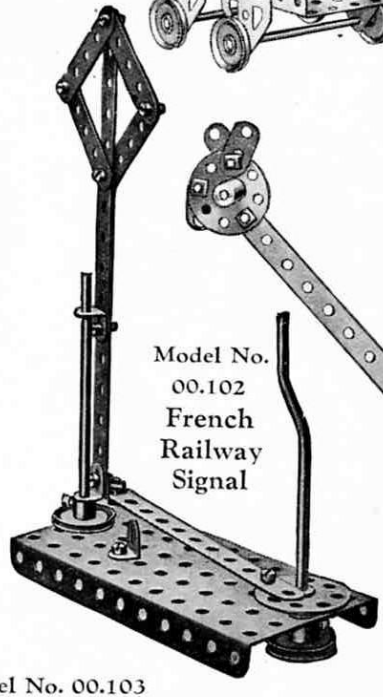
Model No. 00.97 Scales



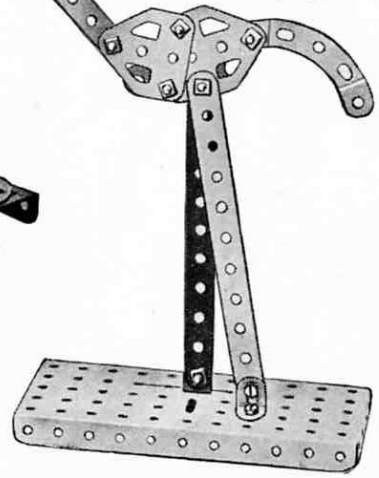
Model No. 00.95 Organ



Model No. 00.102 French Railway Signal

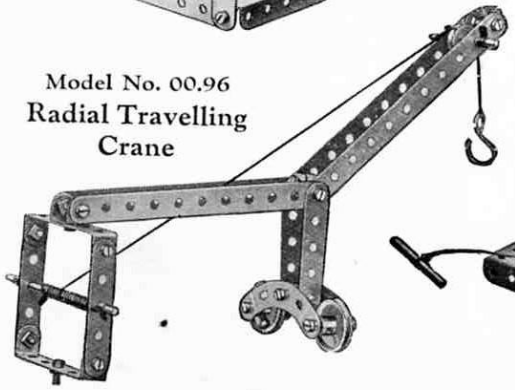


Model No. 00.105 Prehistoric Bird



Model No. 00.98 Book End

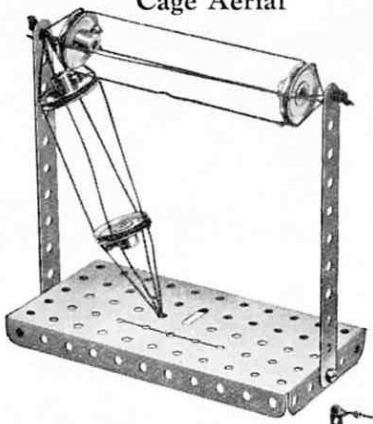
Model No. 00.96 Radial Travelling Crane



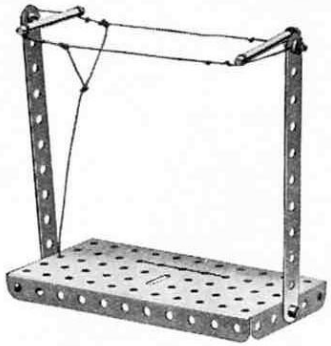
Model No. 00.99 Cheese Cutter

Model No. 00.103 Cannon

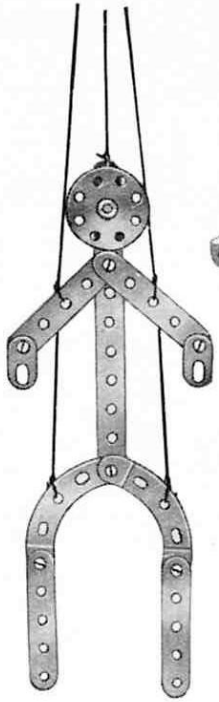
Model No. 00.106
Cage Aerial



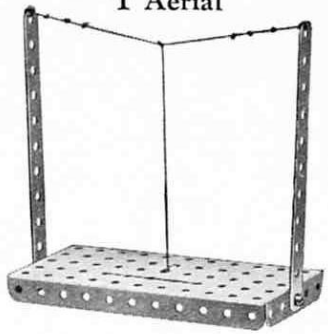
Model No. 00.108 Double Wire
L Aerial



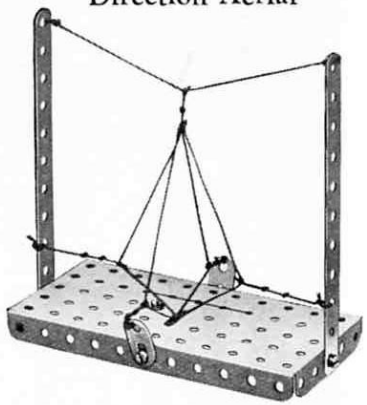
Model No. 00.110
Jumping Jack



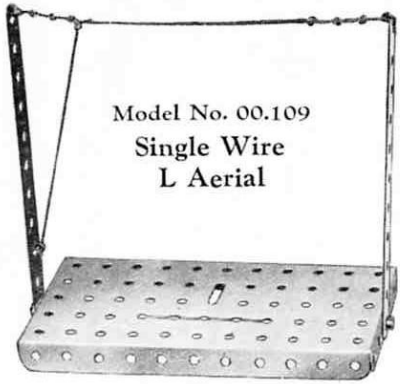
Model No. 00.112
Single Wire
T Aerial



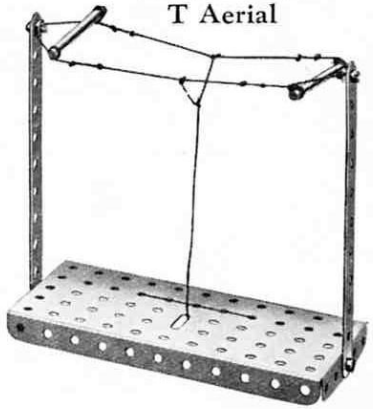
Model No. 00.114
Direction Aerial



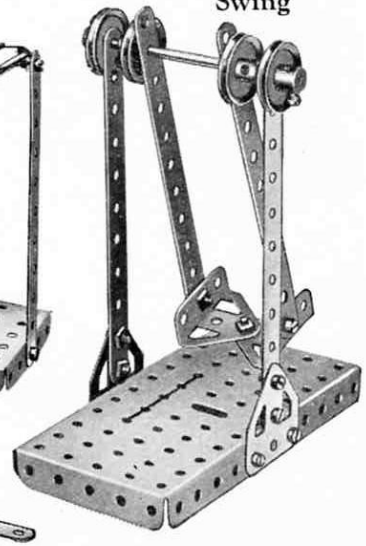
Model No. 00.109
Single Wire
L Aerial



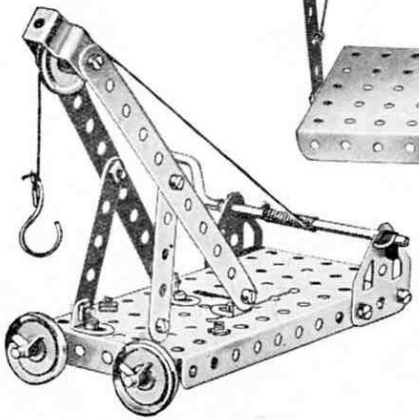
Model No. 00.113
Double Wire
T Aerial



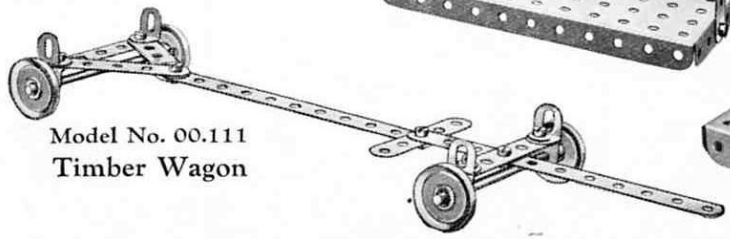
Model No. 00.115
Swing



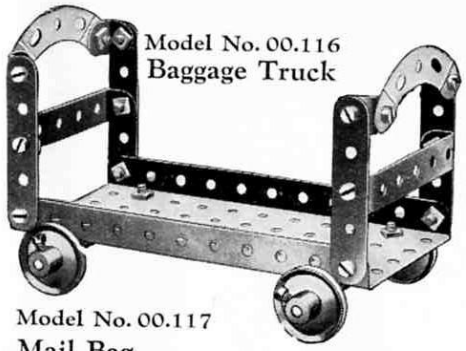
Model No. 00.107
Revolving Crane



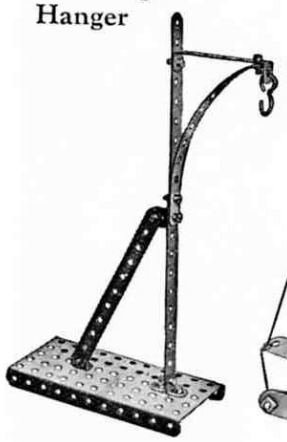
Model No. 00.111
Timber Wagon



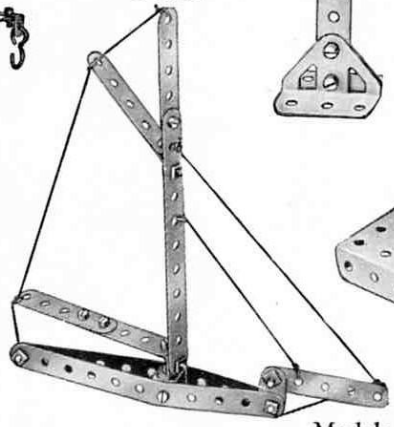
Model No. 00.116
Baggage Truck



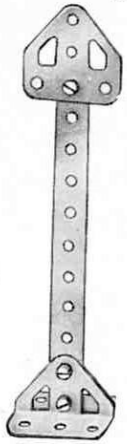
Model No. 00.117
Mail Bag
Hanger



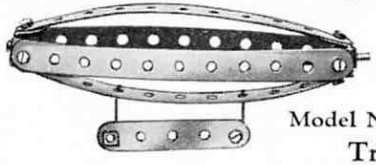
Model No. 00.118
Yacht



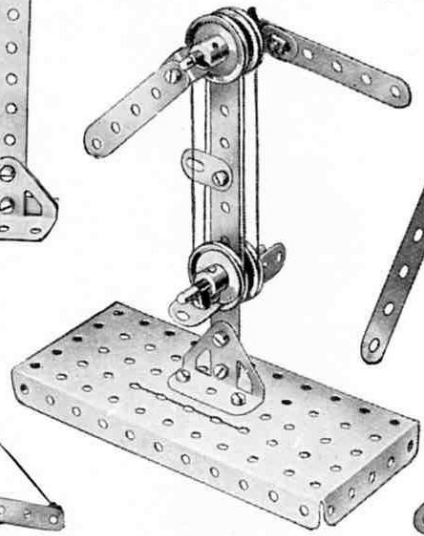
Model No. 00.119
Road Sign



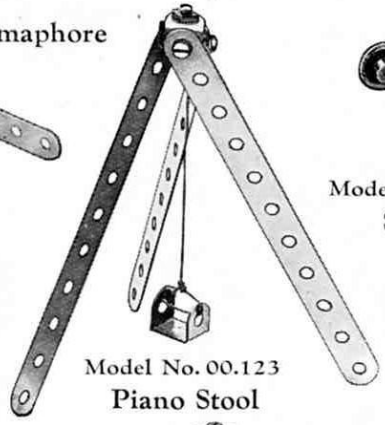
Model No. 00.120 Airship



Model No. 00.121 Semaphore

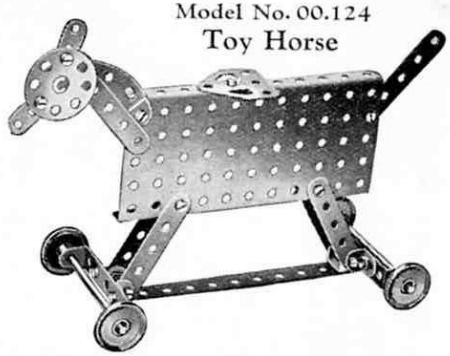


Model No. 00.122
Tripod

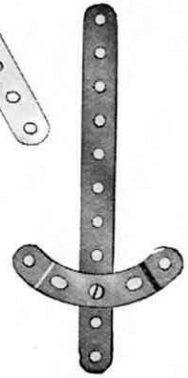


Model No. 00.123
Piano Stool

Model No. 00.124
Toy Horse

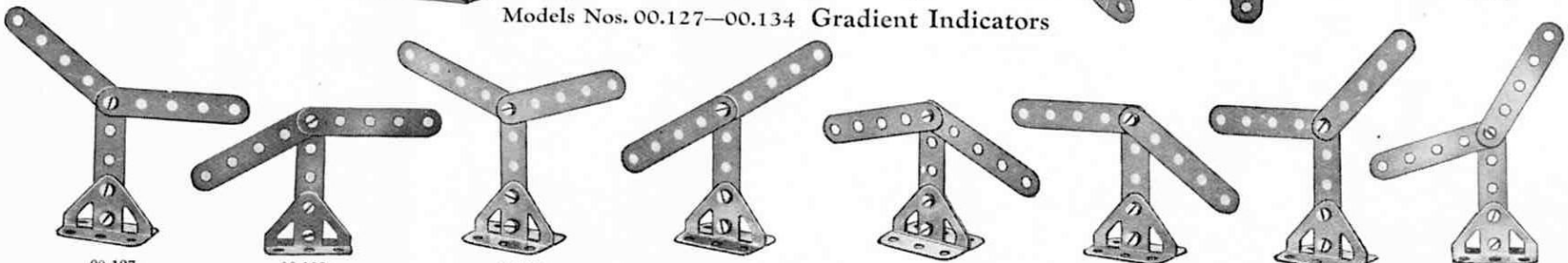


Model No. 00.125
Sword



Model No. 00.126
Umbrella Stand

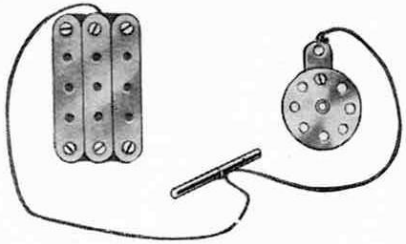
Models Nos. 00.127—00.134 Gradient Indicators



00.127 00.128 00.129 00.130 00.131 00.132 00.133 00 134

Model No. 00.135
Street Lamp

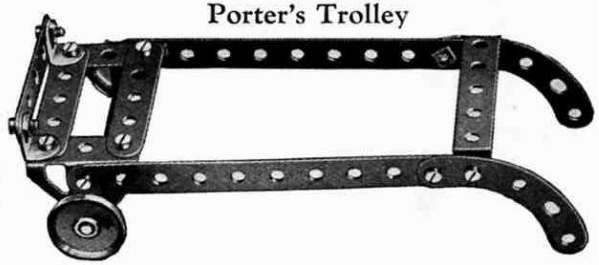
Model No. 00.137
Watch and Chain



Model No. 00.142
Track Gauge

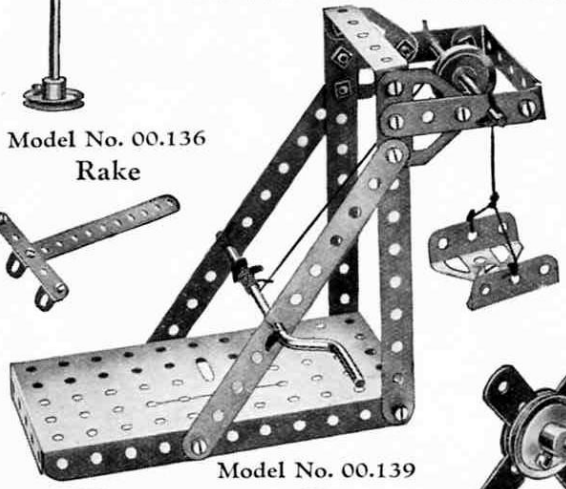
Model No. 00.143
Print Trimmer

Model No. 00.146
Porter's Trolley



Model No. 00.148
Step Ladder

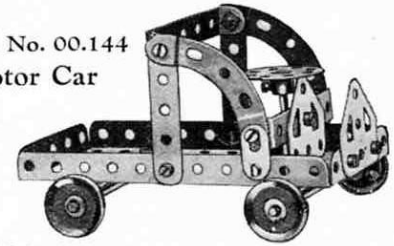
Model No. 00.138 Pit-Head Gear



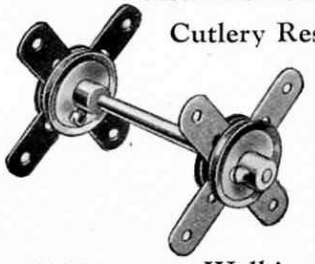
Model No. 00.147
Ostrich

Model No. 00.136
Rake

Model No. 00.144
Motor Car

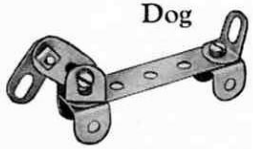


Model No. 00.140
Cutlery Rest



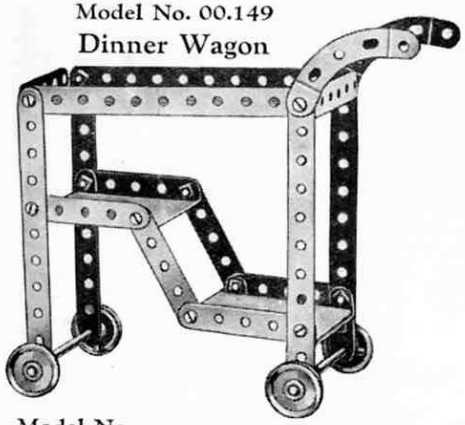
Model No. 00.145
Ice Yacht

Model No. 00.139
Dog

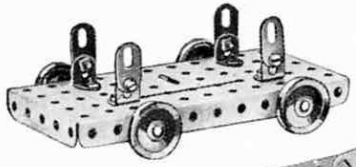


Model No. 00.141 Walking Stick

Model No. 00.149
Dinner Wagon



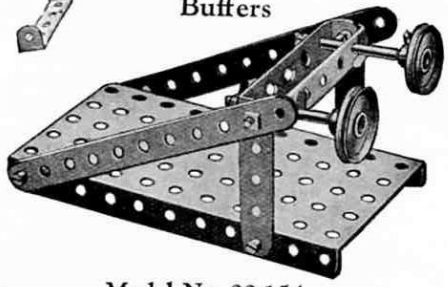
Model No. 00.152 Lumber Truck



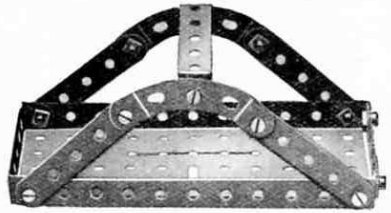
Model No. 00.156 Mono Rail

Model No.
00.157
Bed

Model No. 00.153
Buffers

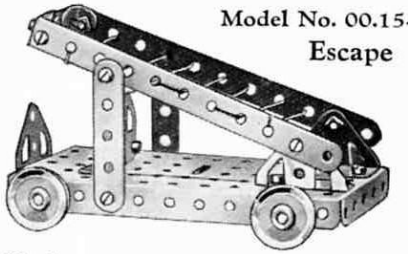


Model No. 00.158
Cutlery Basket

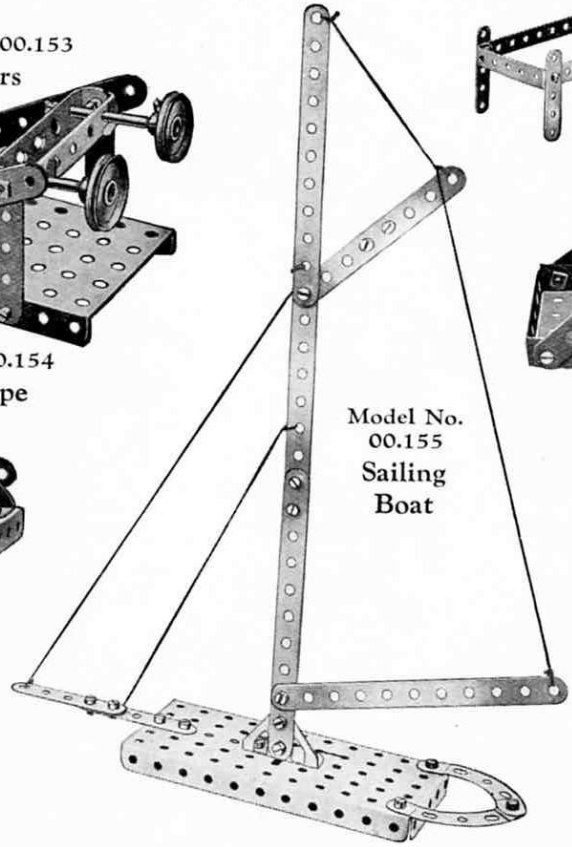


Model No.
00.150
Sawing
Horse

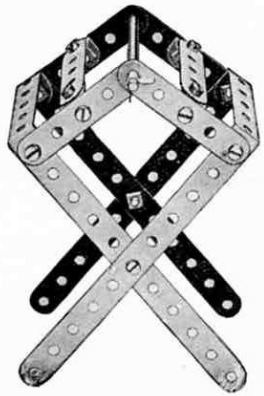
Model No. 00.154
Escape



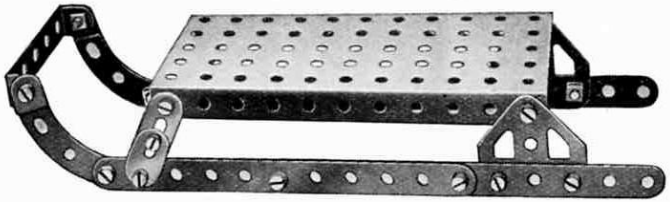
Model No.
00.155
Sailing
Boat



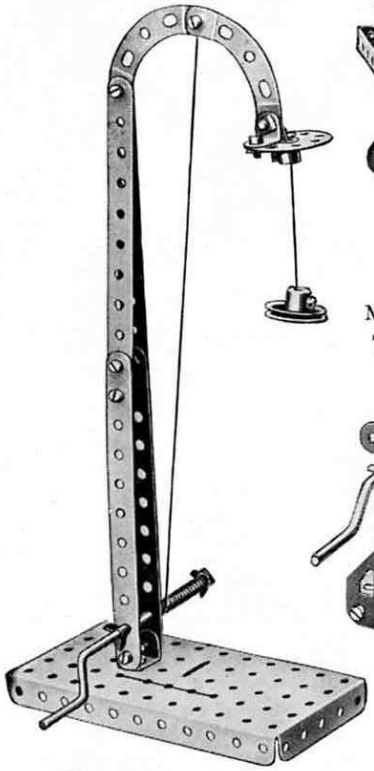
Model No. 00.159
Clothes Drying Frame



Model No. 00.151 Sledge

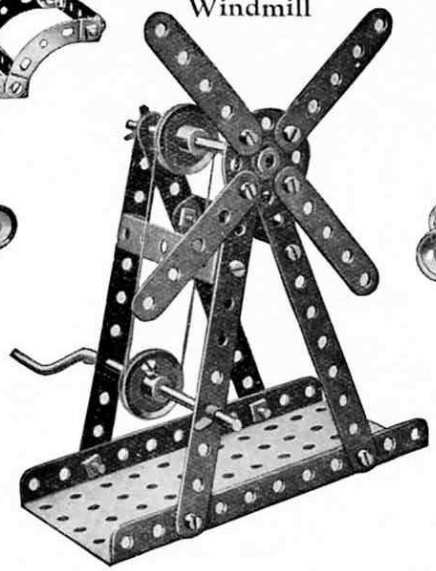


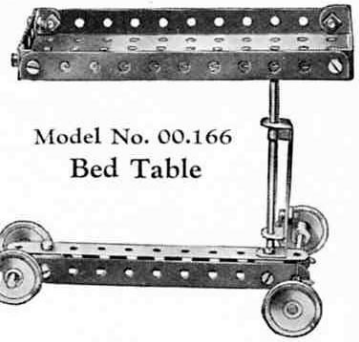
Model No. 00.160
Arc Lamp



Model No. 00.162
Tea Wagon

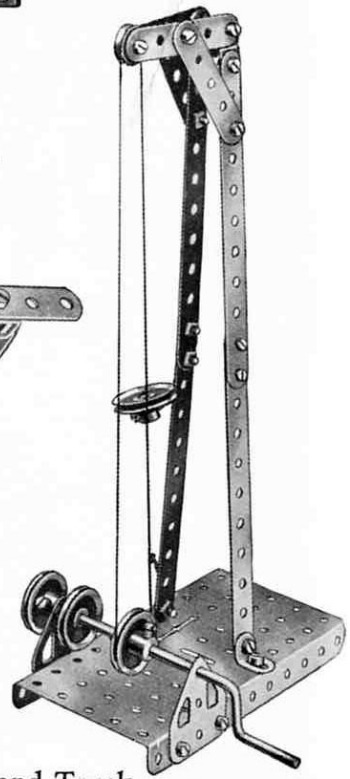
Model No. 00.164
Windmill



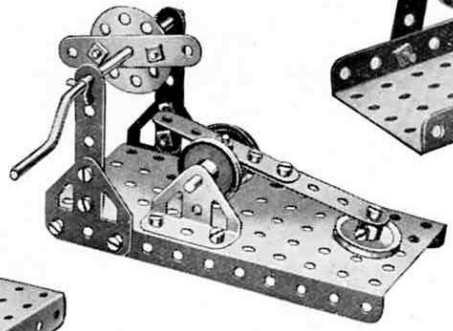


Model No. 00.166
Bed Table

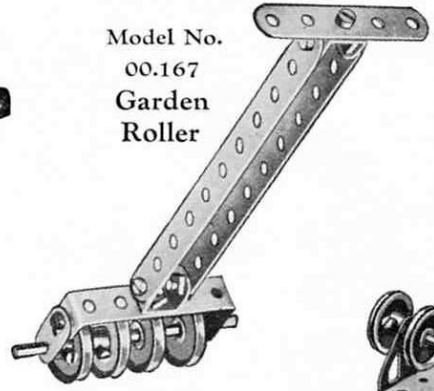
Model No. 00.168
Airship Mooring Mast



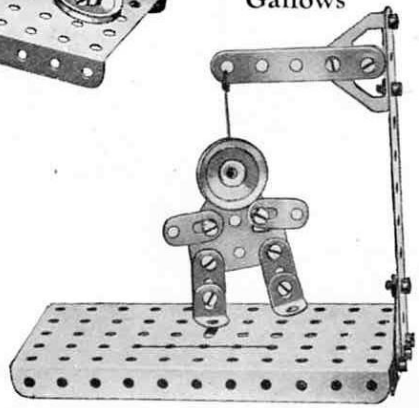
Model No. 00.163
Trip Hammer



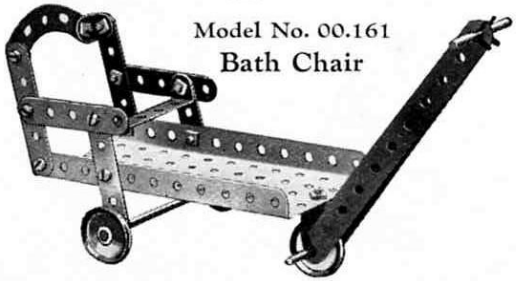
Model No. 00.167
Garden Roller



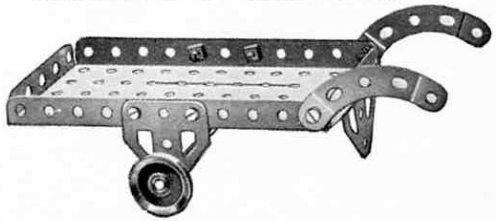
Model No. 00.165
Gallows



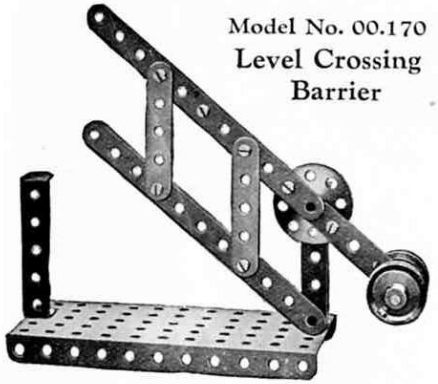
Model No. 00.161
Bath Chair



Model No. 00.169 Hand Truck

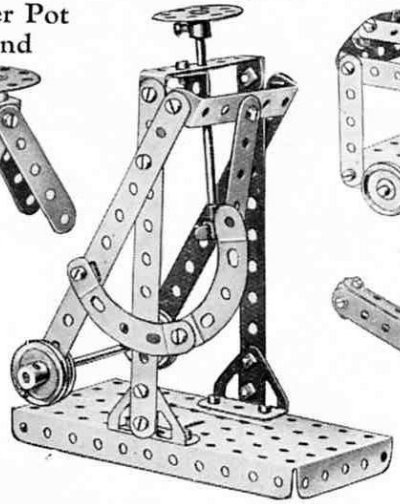


Model No. 00.170
Level Crossing Barrier

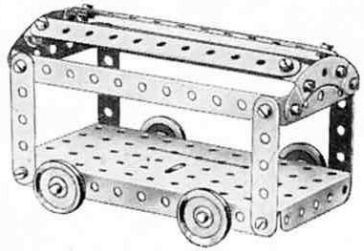


Model No. 00.172
Flower Pot Stand

Model No. 00.174
Letter Balance

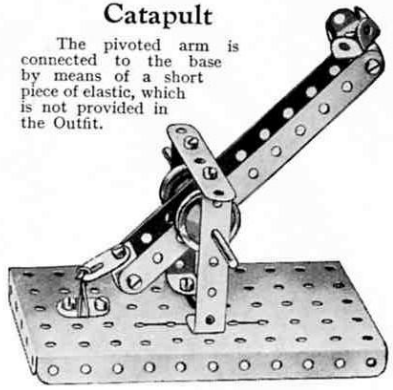


Model No. 00.176
Pullman Car



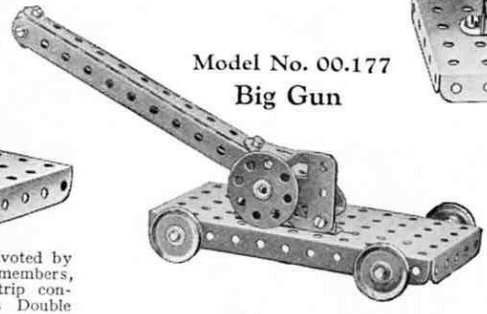
Model No. 00.178
Catapult

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

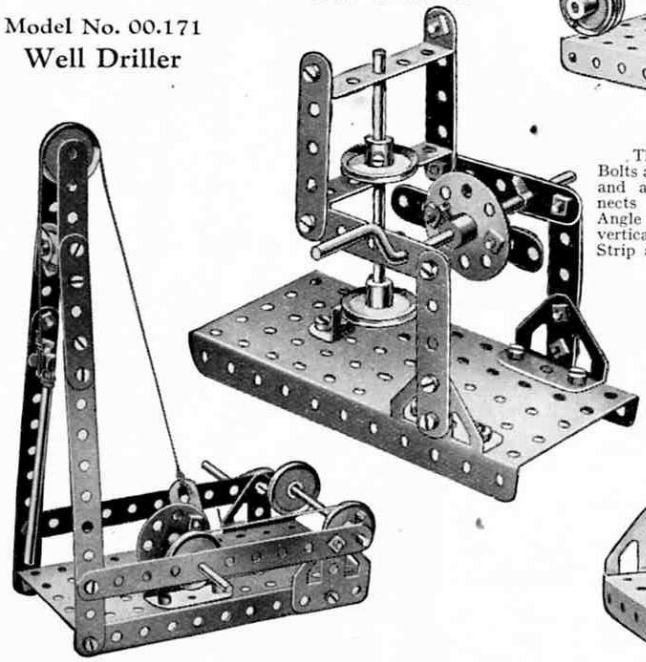


Model No. 00.173
Ore Crusher

Model No. 00.177
Big Gun

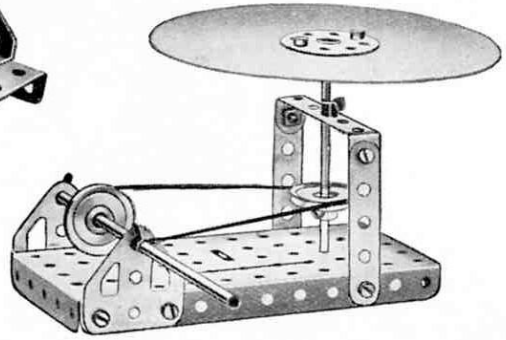


Model No. 00.171
Well Driller

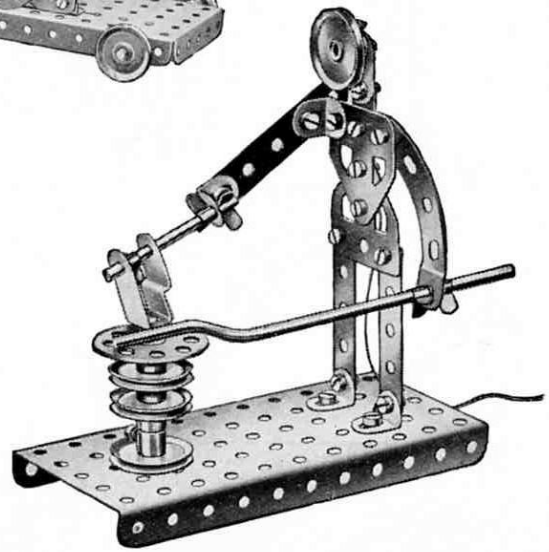


The weighted 5½" Strips are pivoted by Bolts and lock-nuts to the vertical members, and a 2½"×½" Double Angle Strip connects their upper ends. This Double Angle Strip is connected, in turn, to the vertical 3½" Axle Rod by means of a 2½" Strip and an Angle Bracket.

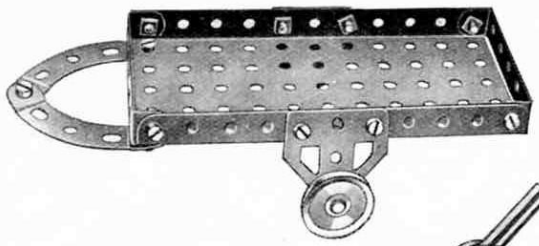
Model No. 00.175 **Joy Wheel**



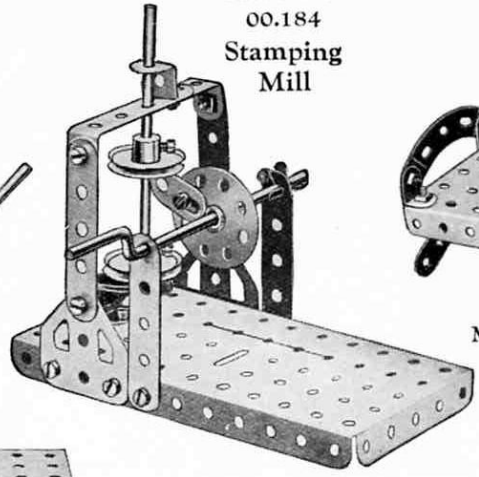
Model No. 00.179
Blacksmith



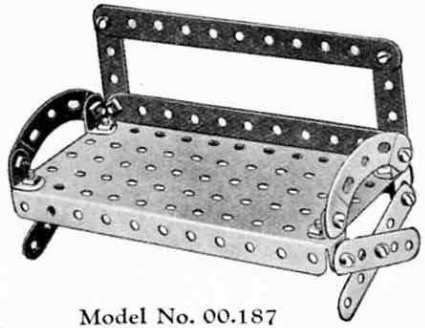
Model No. 00.180 **Hand Truck**



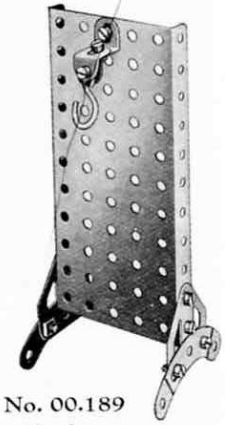
Model No. 00.184
Stamping Mill



Model No. 00.186
Garden Seat

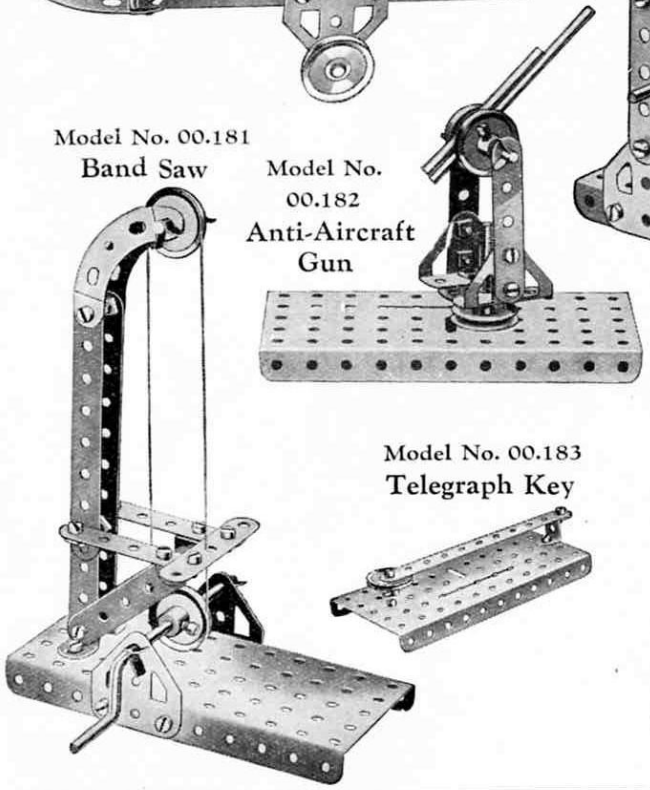


Model No. 00.188
Watch Stand

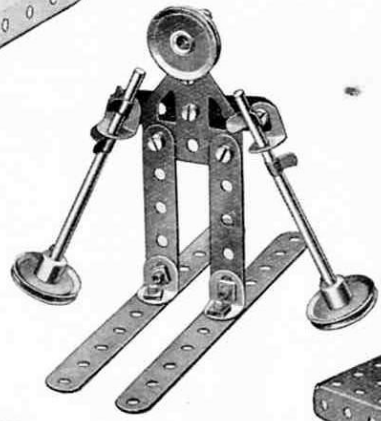


Model No. 00.181
Band Saw

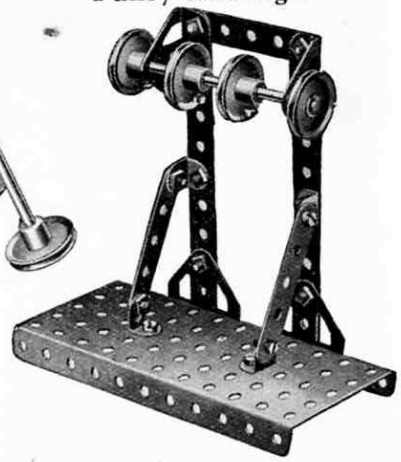
Model No. 00.182
Anti-Aircraft Gun



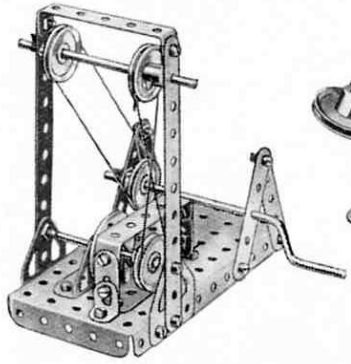
Model No. 00.187
Ski-Runner



Model No. 00.189
Pulley Shafting



Model No. 00.185
Circular Saw

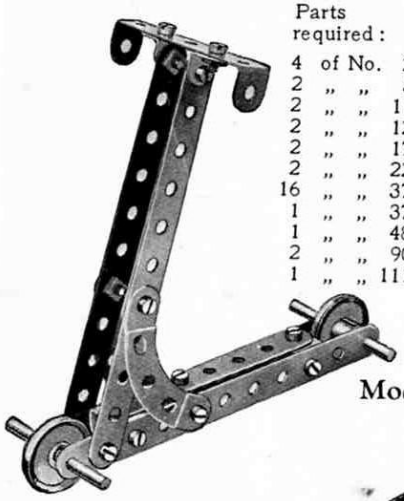


Model No. 00.183
Telegraph Key

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.

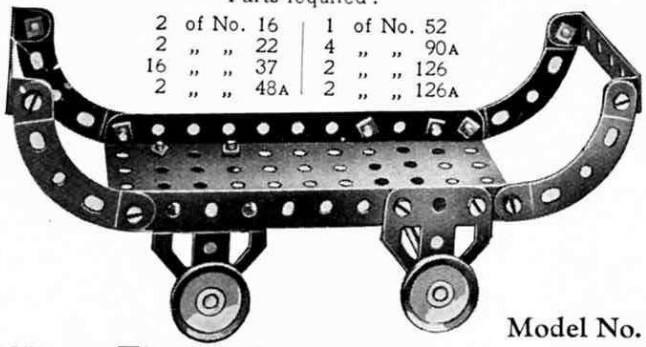
Model No. 0.1 Scooter



Parts required :

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

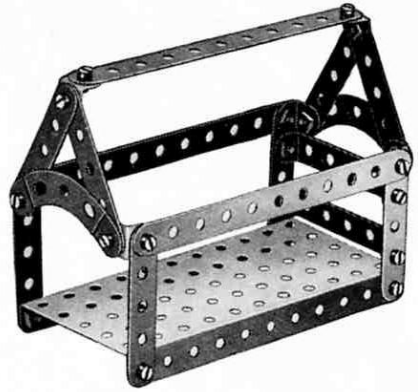
Model No. 0.4 Push Cart



Parts required :

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

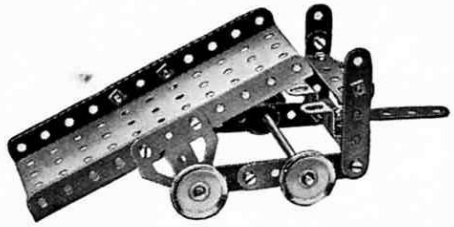
Model No. 0.7 Dog Kennel



Parts required :

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

Model No. 0.3 Tipping Cart

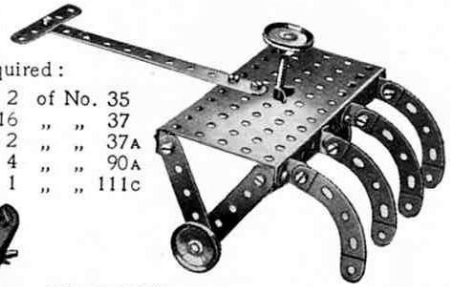


Parts required :

7	of No.	5	15	of No.	37
2	„ „	16	2	„ „	48A
4	„ „	22	1	„ „	52

1	of No.	90A
2	„ „	125
2	„ „	126A

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 :

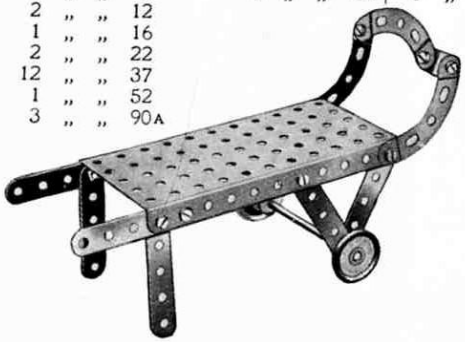
2	of No.	2	1	of No.	24
8	„ „	5	2	„ „	35
1	„ „	11	16	„ „	37
2	„ „	12	5	„ „	37A
1	„ „	16	1	„ „	40
1	„ „	19s	1	„ „	52
2	„ „	22	5	„ „	111c

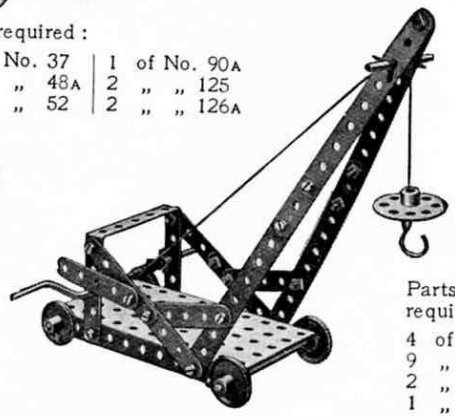
2 of No. 125

Model No. 0.2 Luggage Truck

Parts required :

2	of No.	2
6	„ „	5
2	„ „	12
1	„ „	16
2	„ „	22
12	„ „	37
1	„ „	52
3	„ „	90A

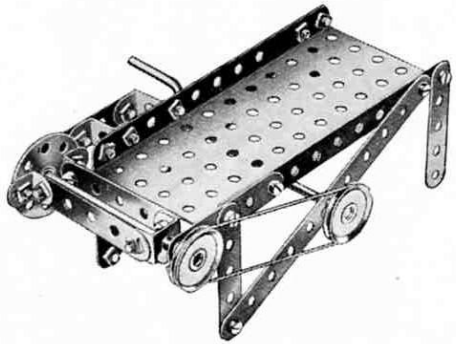




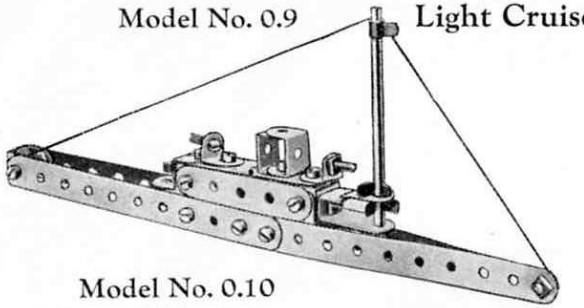
Model No. 0.6 Jib Crane

Parts required :

4	of No.	2
9	„ „	5
2	„ „	16
1	„ „	17
1	of No.	19s
4	„ „	22
1	„ „	23
1	„ „	24
4	„ „	35
16	„ „	37
1	„ „	37A
1	„ „	40
1	„ „	48A
1	„ „	52
1	„ „	57
1	„ „	111c



Model No. 0.9 Light Cruiser



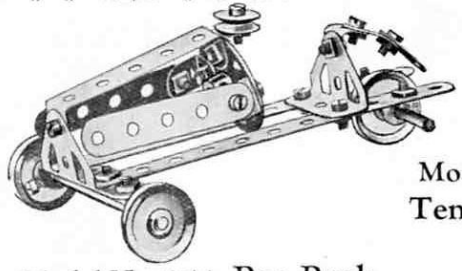
Parts required :

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

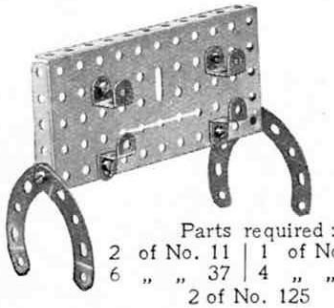
Model No. 0.10 Three-Wheel Auto

Parts required :

2	of No.	2	1	of No.	17	2	of No.	37A
3	„ „	5	3	„ „	22	1	„ „	48A
2	„ „	10	1	„ „	23	2	„ „	111c
8	„ „	12	1	„ „	24	2	„ „	126
1	„ „	16	16	„ „	37			



Model No. 0.11 Pen Rack

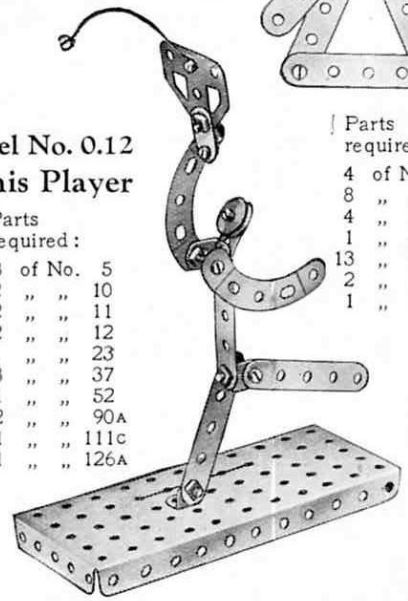


Parts required :

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

2 of No. 125

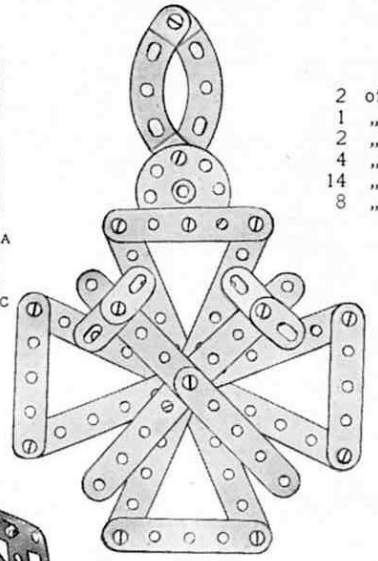
Model No. 0.12 Tennis Player



Parts required :

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

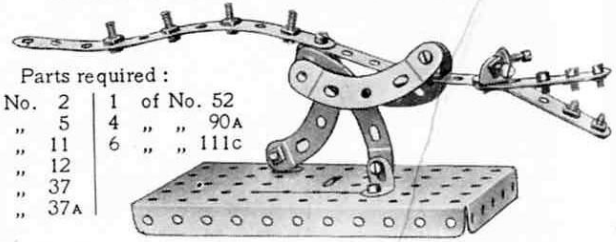
Model No. 0.13 Medal



Parts required :

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

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			

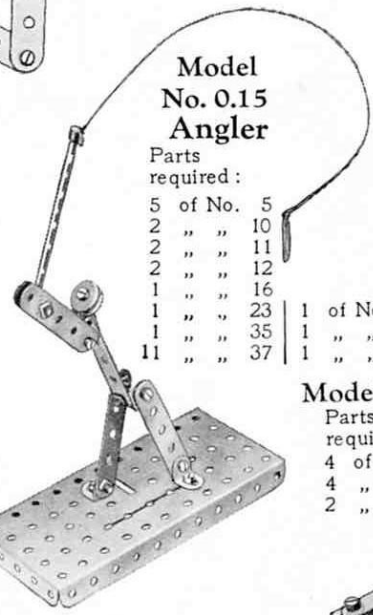
Model No. 0.16 Church

Parts required :

4	of No.	2	2	of No.	12	6	of No.	37A
8	„ „	5	1	„ „	24	4	„ „	48A
3	„ „	10	16	„ „	37	1	„ „	52

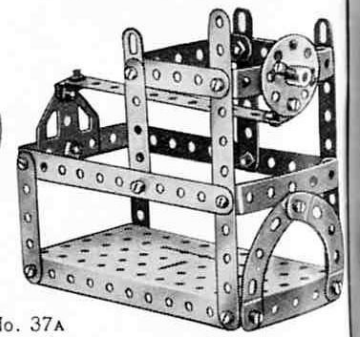
9	of No.	90A
6	„ „	111c
1	„ „	126A

Model No. 0.15 Angler



Parts required :

5	of No.	5	1	of No.	37A
2	„ „	10	1	„ „	52
2	„ „	11	1	„ „	111c
2	„ „	12			
1	„ „	16			
1	„ „	23			
1	„ „	35			
11	„ „	37			

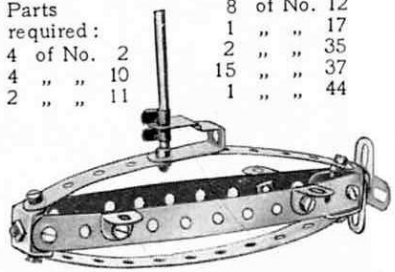


Model No. 0.17 Submarine

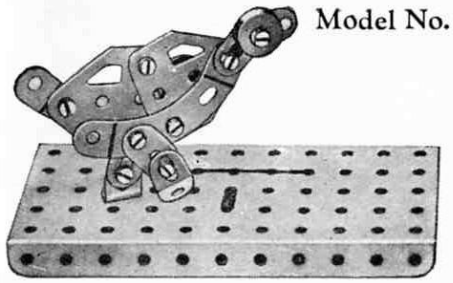
Parts required :

4	of No.	2
4	„ „	10
2	„ „	11

8	of No.	12
1	„ „	17
2	„ „	35
15	„ „	37
1	„ „	44



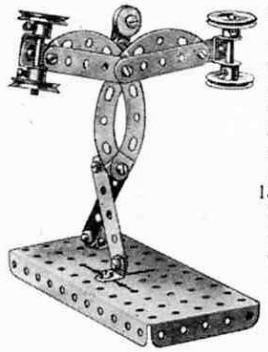
Model No. 0.18 Goose



Parts required :

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

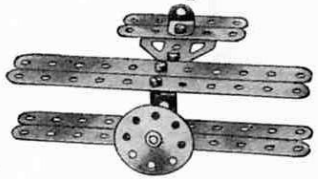
Model No. 0.19 Strong Man



Parts required :

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

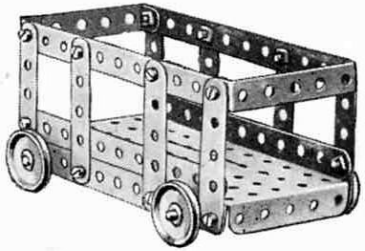
Model No. 0.20 Aeroplane



Parts required :

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

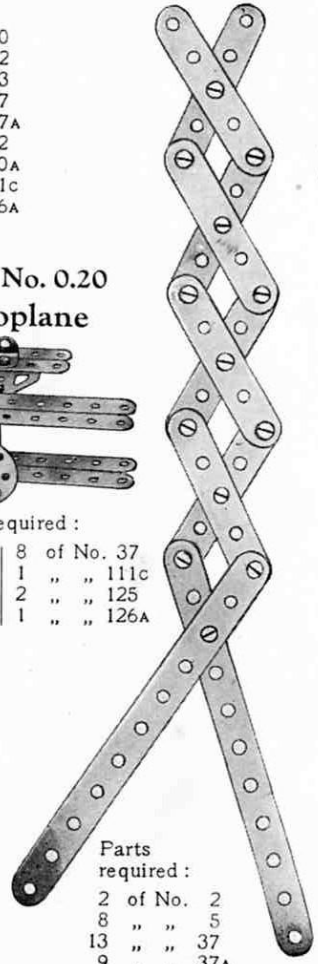
Model No. 0.21 Cattle Truck



Parts required :

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

Model No. 0.22 Lazy Tongs



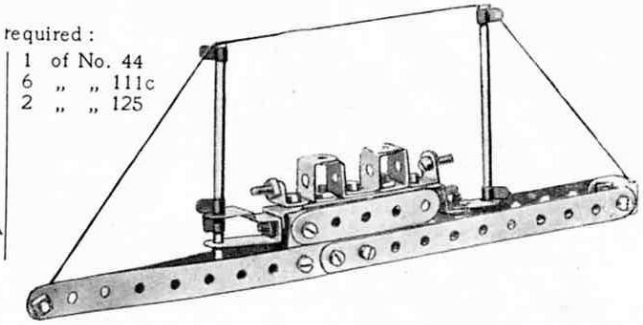
Parts required :

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

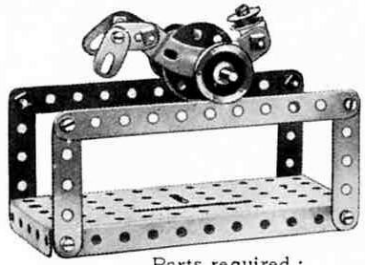
Model No. 0.23 Battleship

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. 0.24 Gymnast



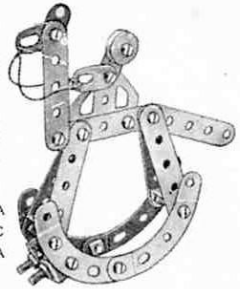
Parts required :

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 :

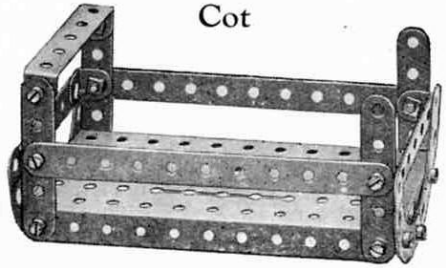
7	of No.	5
4	„ „	10
2	„ „	11
2	„ „	12
1	„ „	23
13	„ „	37
1	„ „	40
4	„ „	90A
3	„ „	111c
1	„ „	126A



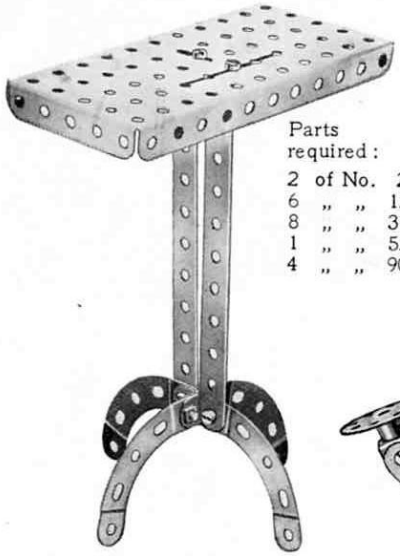
Model No. 0.26 Cot

Parts required :

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



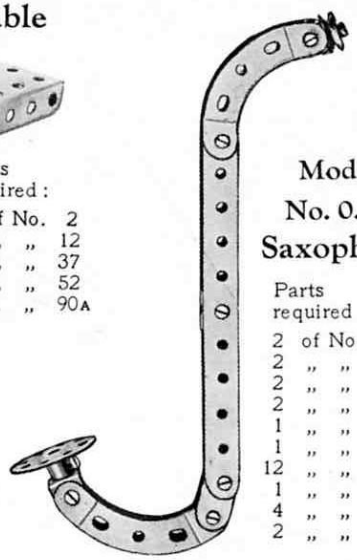
Model No. 0.27 Table



Parts required :

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

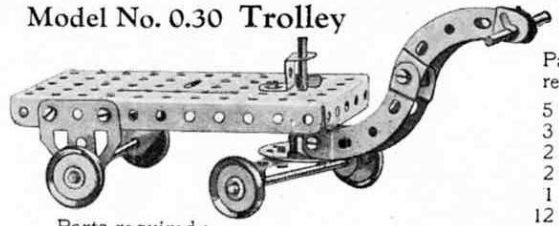
Model No. 0.29 Saxophone



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. 0.30 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

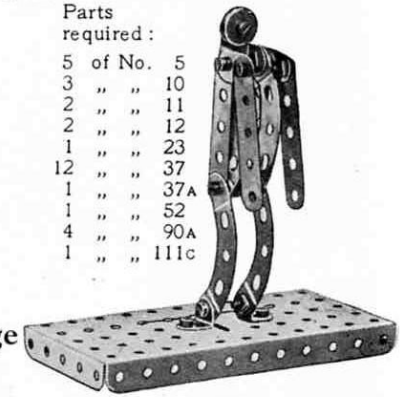
Parts required :

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

Model No. 0.33 Ape

Parts required :

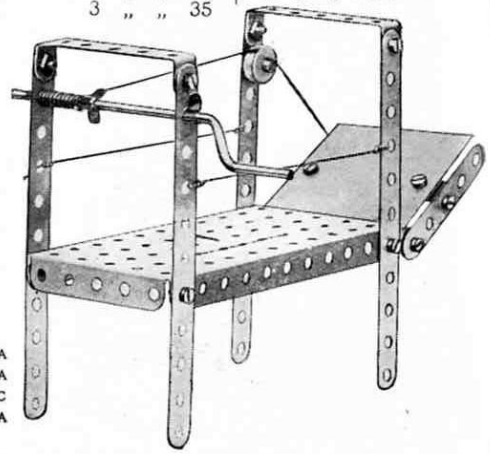
5	of No.	5
3	„ „	10
2	„ „	11
2	„ „	12
1	„ „	23
12	„ „	37
1	„ „	37A
1	„ „	52
4	„ „	90A
1	„ „	111c



Model No. 0.34 Gangway

Parts required

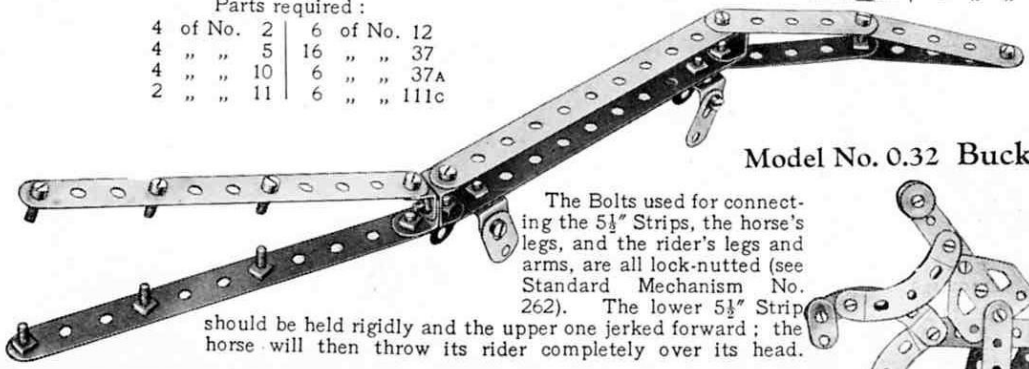
4	of No.	2	16	of No.	37	3	of No.	35
2	„ „	5	2	„ „	37A			
2	„ „	10	1	„ „	40			
2	„ „	12	2	„ „	48A			
1	„ „	19s	1	„ „	52			
1	„ „	23	1	„ „	111c			



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



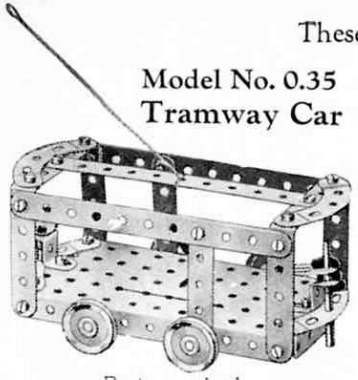
Model No. 0.32 Bucking Broncho

Parts required :

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

The Bolts used for connecting the 5½" Strips, the horse's legs, and the rider's legs and arms, are all lock-nutted (see Standard Mechanism No. 262). The lower 5½" Strip should be held rigidly and the upper one jerked forward ; the horse will then throw its rider completely over its head.

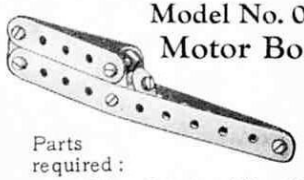
Model No. 0.35 Tramway Car



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

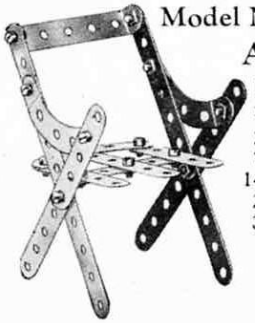
Model No. 0.36 Motor Boat



Parts required :

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

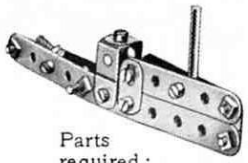
Model No. 0.37 Arm Chair



Parts required :

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

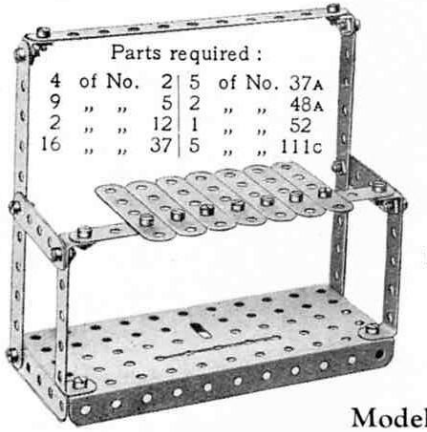
Model No. 0.38 Torpedo Boat



Parts required :

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

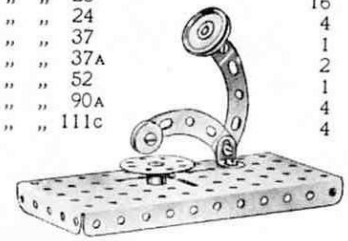
Model No. 0.39 Piano



Parts required :

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

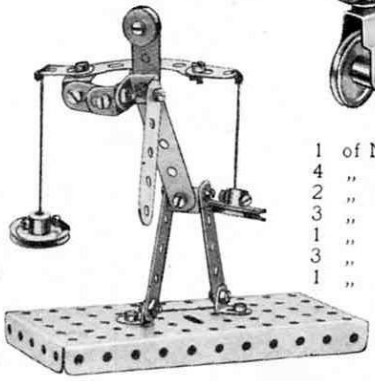
Model No. 0.40 Gramophone



Parts required :

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

Model No. 0.41 Milk Maid



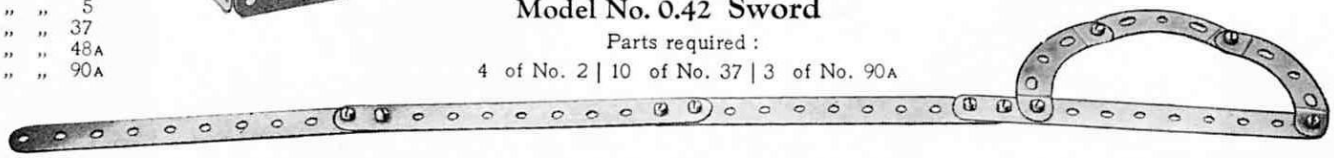
Parts required :

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

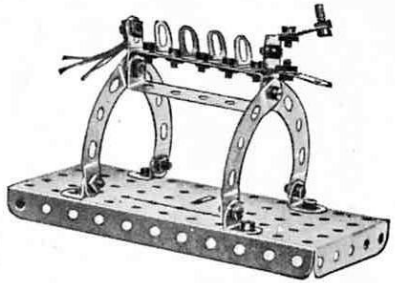
Model No. 0.42 Sword

Parts required :

4 of No. 2 | 10 of No. 37 | 3 of No. 90A



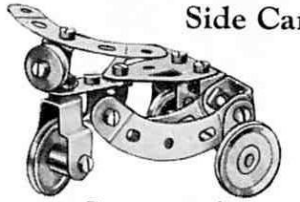
Model No. 0.43 Prehistoric Armadillo



Parts required :

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

Model No. 0.44 Motor Cycle and Side Car



Parts required :

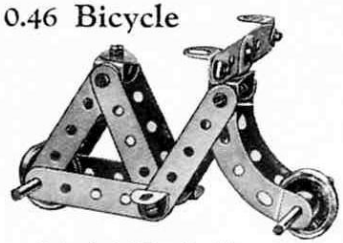
1	of No.	5	10	of No.	37
4	„ „	10	1	„ „	37A
2	„ „	11	1	„ „	44
3	„ „	12	3	„ „	90A
1	„ „	16	1	„ „	111c
3	„ „	22	1	„ „	125
1	„ „	23	1	„ „	126A

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

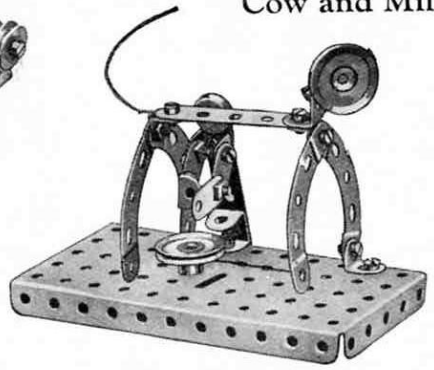
Model No. 0.46 Bicycle



Parts required :

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

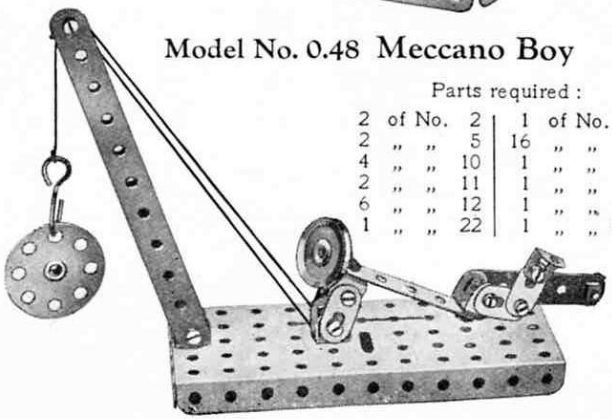
Model No. 0.47 Cow and Milkmaid



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

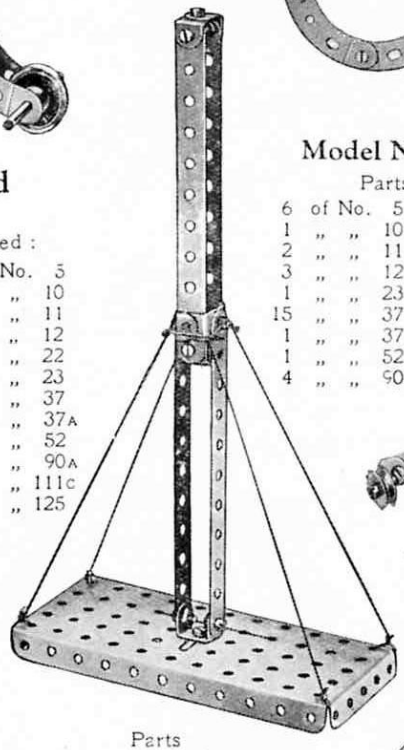
Model No. 0.48 Meccano Boy



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	„ „	57
1	„ „	22	1	„ „	111c

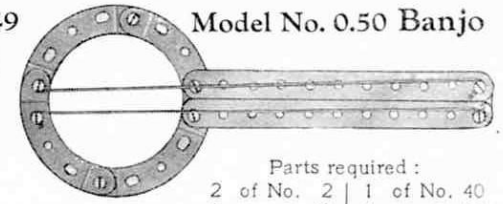
Model No. 0.49 Telescopic Mast



Parts required :

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

Model No. 0.50 Banjo



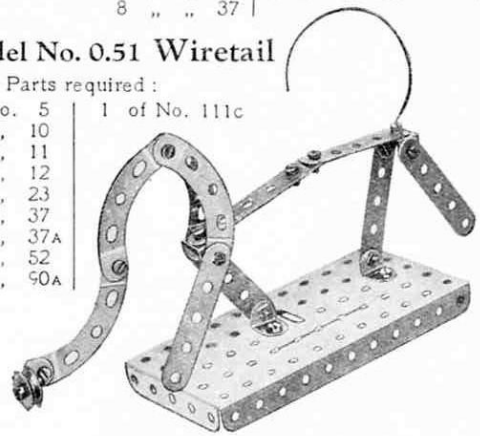
Parts required :

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

Model No. 0.51 Wiretail

Parts required :

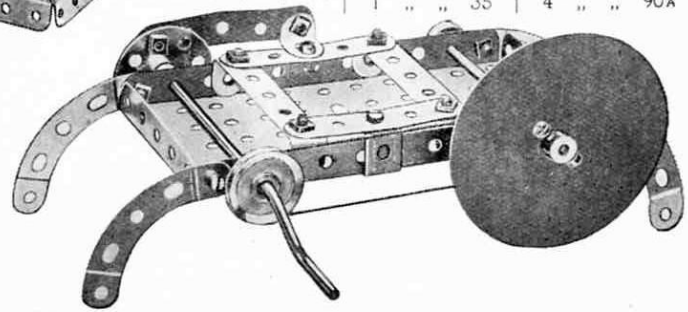
6	of No.	5	1	of No.	111c
1	„ „	10			
2	„ „	11			
3	„ „	12			
1	„ „	23			
15	„ „	37			
1	„ „	37A			
1	„ „	52			
4	„ „	90A			



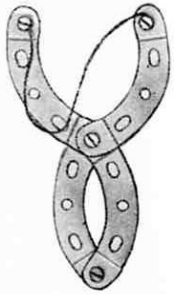
Model No. 0.52 Bacon Slicing Machine

Parts required :

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



Model No. 0.53 Catapult

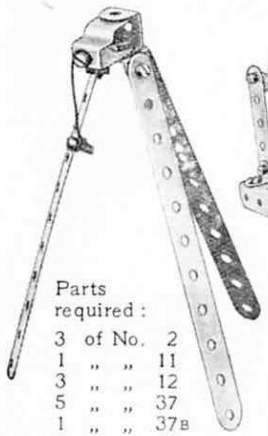


Parts required :

4	of No.	37
4	„ „	90A

Small piece of elastic.

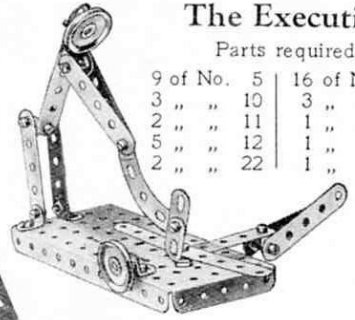
Model No. 0.54 Camera



Parts required :

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

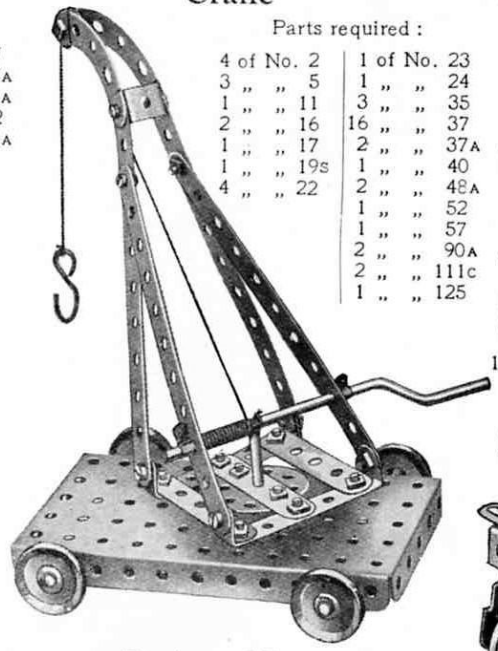
Model No. 0.56 The Execution



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

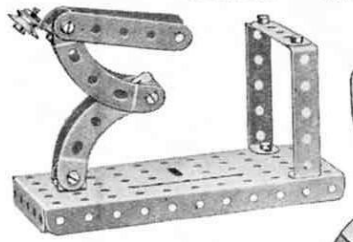
Model No. 0.58 Crane



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	„ „	57
			2	„ „	90A
			2	„ „	111c
			1	„ „	125

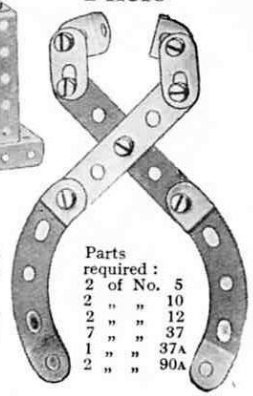
Model No. 0.60 Hurdler



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



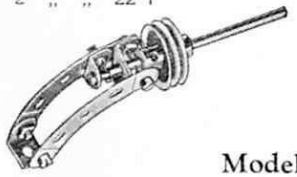
Parts required :

2	of No.	5
2	„ „	10
2	„ „	12
7	„ „	37
1	„ „	37A
2	„ „	90A

Model No. 0.57 Pistol

Parts required :

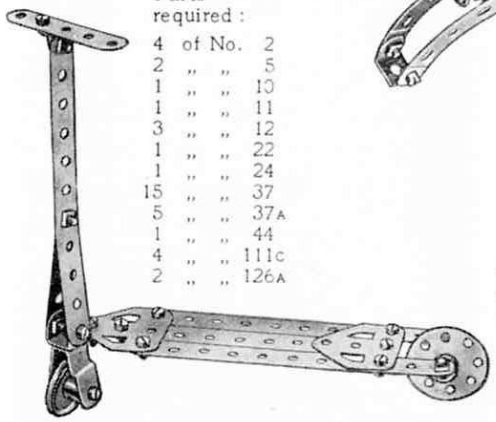
2	of No.	11	1	of No.	35
1	„ „	12	5	„ „	37
1	„ „	16	2	„ „	90A
2	„ „	22			



Model No. 0.55 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

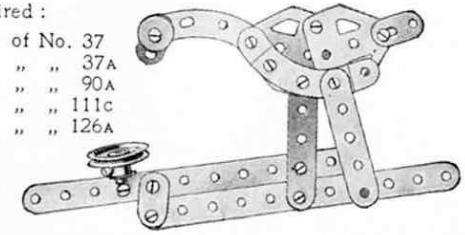


Model No. 0.59 Pecking Hen

By alternately pushing and pulling the lower of the 5½" Strips, the hen can be made to peck vigorously at the "bowl" (a 1" Pulley). The Bolts used for securing the 5½" 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. 0.61 Tricycle

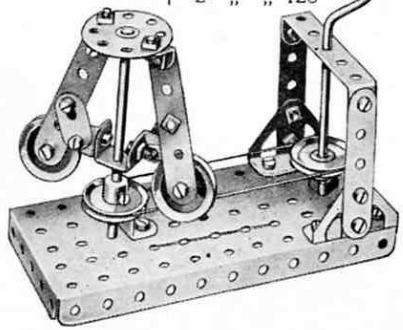
Parts required :

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

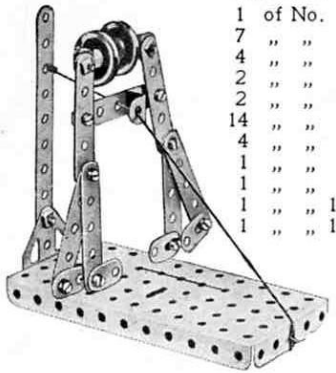
Model No. 0.63 Centrifugal Engine Governor

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



Model No. 0.64 Wrestlers



Parts required :

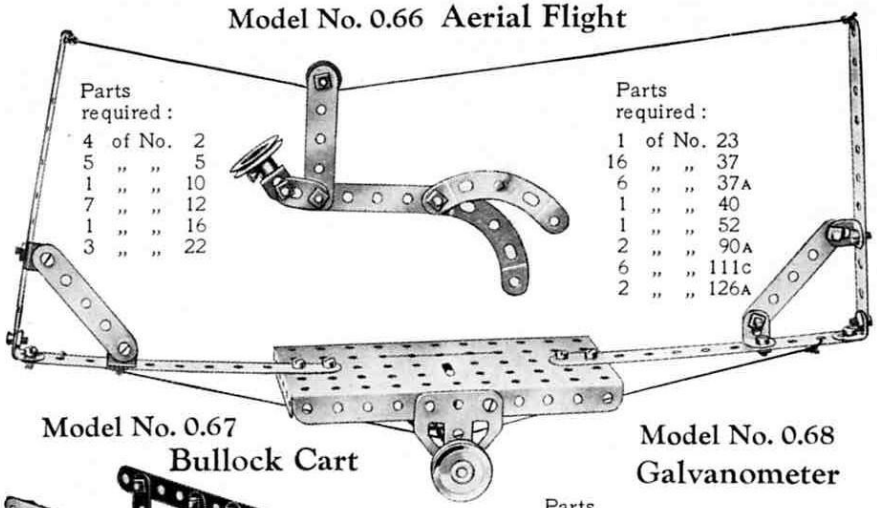
1	of No.	2	
7	„	„	5
4	„	„	10
2	„	„	12
2	„	„	22
14	„	„	37
4	„	„	37A
1	„	„	40
1	„	„	52
1	„	„	125
1	„	„	126A

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



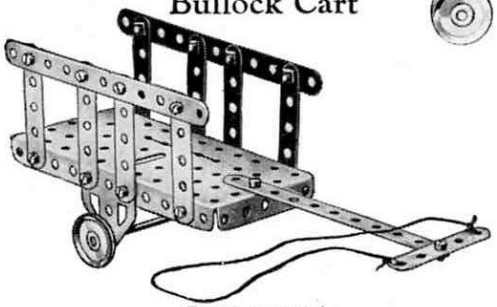
Parts required :

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	„	„	40
1	„	„	52
2	„	„	90A
6	„	„	111c
2	„	„	126A

Model No. 0.67 Bullock Cart



Parts required :

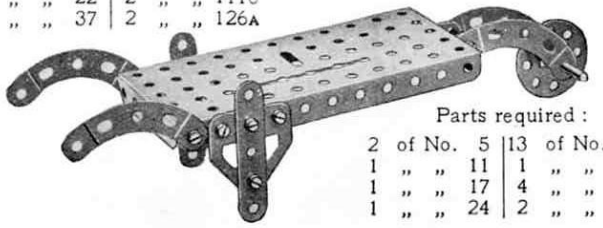
3	of No.	2	2	of No.	37A
9	„	„ 5	1	„	„ 40
1	„	„ 16	1	„	„ 52
2	„	„ 22	2	„	„ 111c
16	„	„ 37	2	„	„ 126A

Model No. 0.68 Galvanometer

Parts required :

1	of No.	12	
1	„	„	17
5	„	„	37
4	„	„	37A
1	„	„	40
1	„	„	52
4	„	„	90A
2	„	„	111c

Model No. 0.69 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. 0.70 The Missing Link

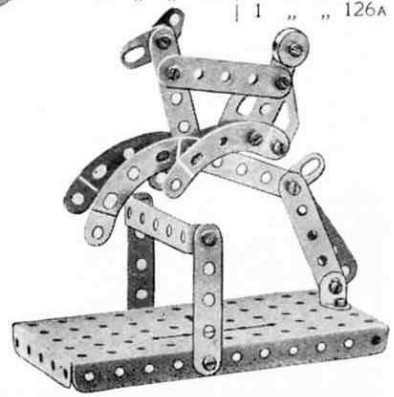
Parts required :

4	of No.	5	
4	„	„	10
8	„	„	12
1	„	„	24
16	„	„	37
6	„	„	37A
1	„	„	52
4	„	„	90A
6	„	„	111c

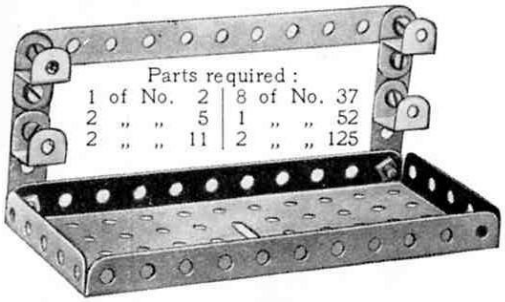
Model No. 0.71 Steeple-chaser

Parts required :

7	of No.	5	1	of No.	37A
4	„	„ 10	1	„	„ 48A
1	„	„ 12	1	„	„ 52
1	„	„ 23	4	„	„ 90A
13	„	„ 37	1	„	„ 111c
			1	„	„ 126A



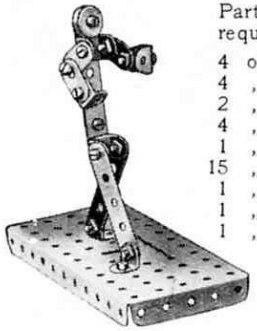
Model No. 0.72 Pen Rack



Parts required :

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

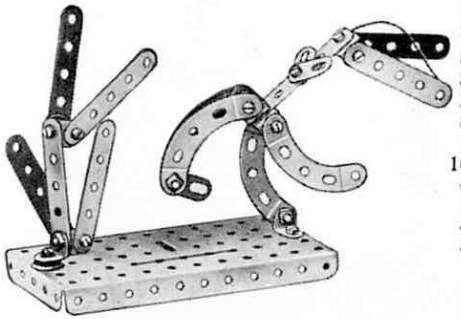
Model No. 0.73 Boxer



Parts required :

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

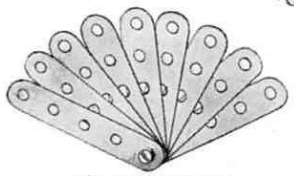
Model No. 0.74 Horseman's Fall



Parts required :

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

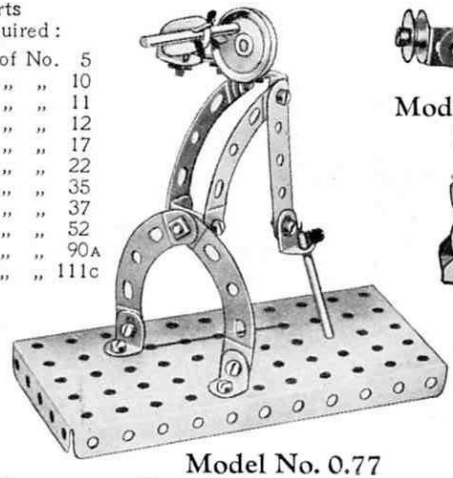
Model No. 0.75 Fan



Parts required :

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

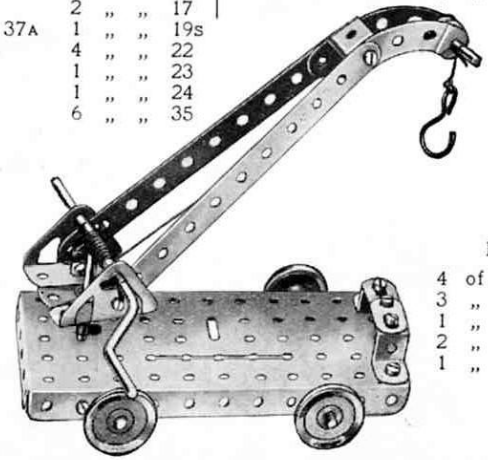
Model No. 0.76 Coast Guard



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		

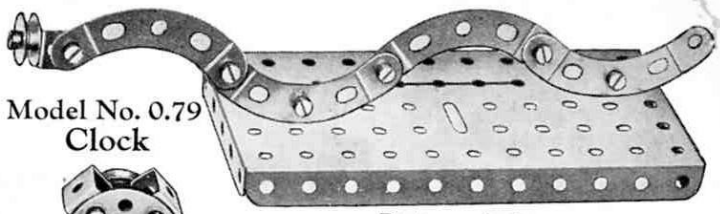
Model No. 0.77 Break-Down Crane



Parts required :

2	of No. 2	13	of No. 37	1	of No. 57
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. 0.78 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. 0.79 Clock

Parts required :

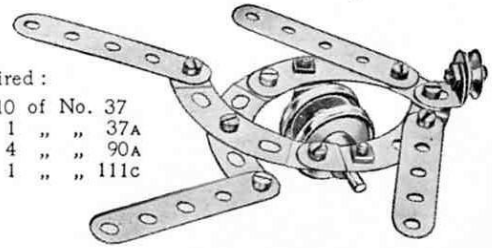
2	of No. 11		
2	„ „ 12		
1	„ „ 17		
1	„ „ 22		
1	„ „ 24		
5	„ „ 37		
1	„ „ 111c		
2	„ „ 126		

Model No. 0.80 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		

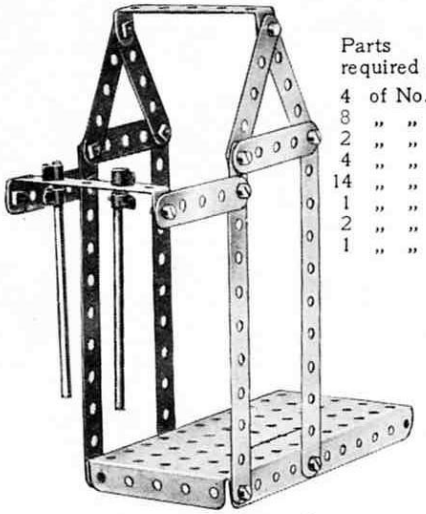
Model No. 0.81 Frog



Parts required :

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

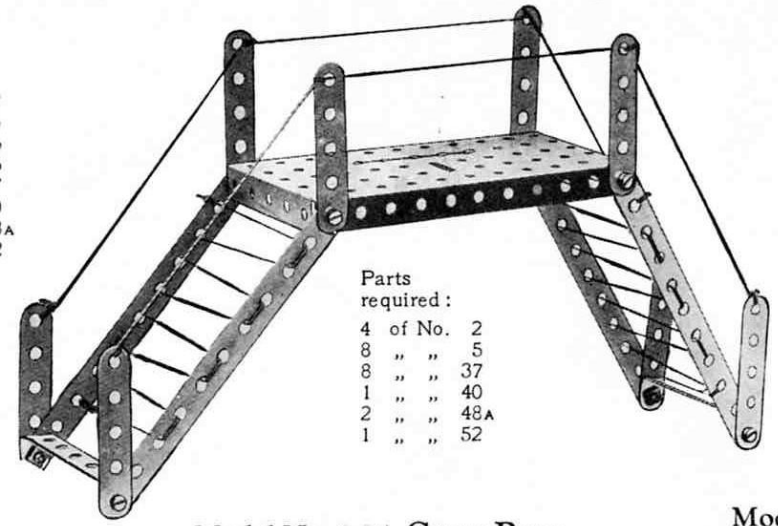
Model No. 0.82 Pneumatic Grain Elevator



Parts required :

4	of No.	2
8	„ „	5
2	„ „	16
4	„ „	35
14	„ „	37
1	„ „	40
2	„ „	48A
1	„ „	52

Model No. 0.84 Footbridge



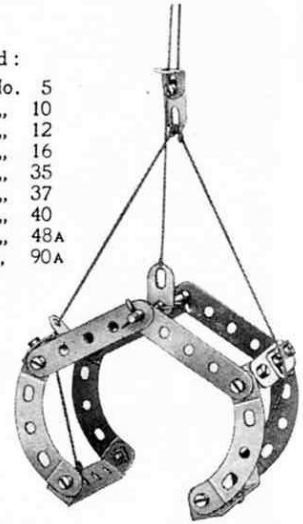
Parts required :

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

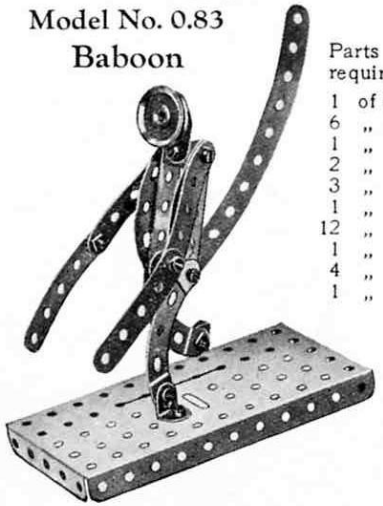
Model No. 0.86 Crane Grab

Parts required :

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



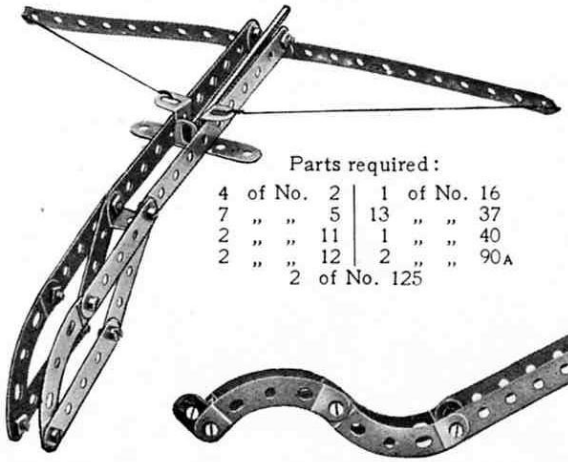
Model No. 0.83 Baboon



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 :

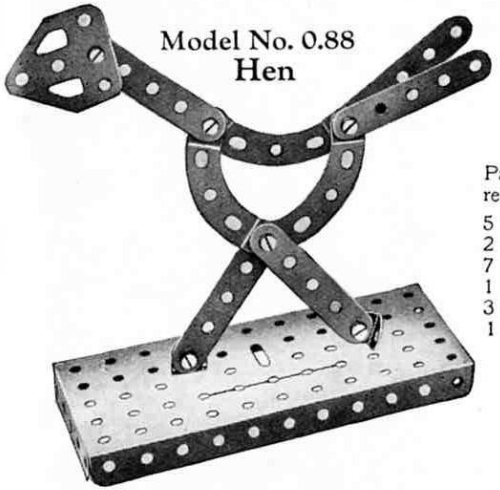
4	of No.	2	1	of No.	16
7	„ „	5	13	„ „	37
2	„ „	11	1	„ „	40
2	„ „	12	2	„ „	90A
	2	of No. 125			

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

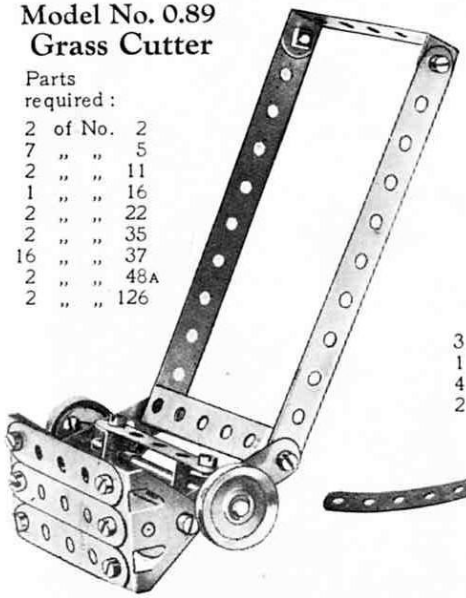
Model No. 0.88 Hen



Parts required :

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

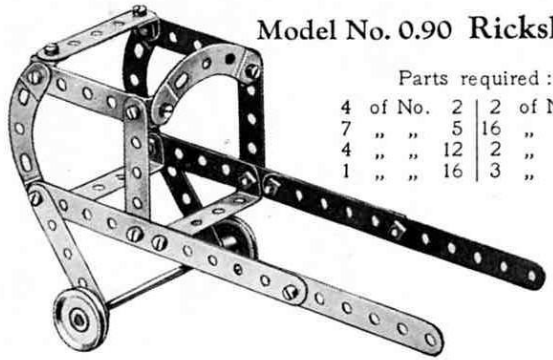
Model No. 0.89 Grass Cutter



Parts required :

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

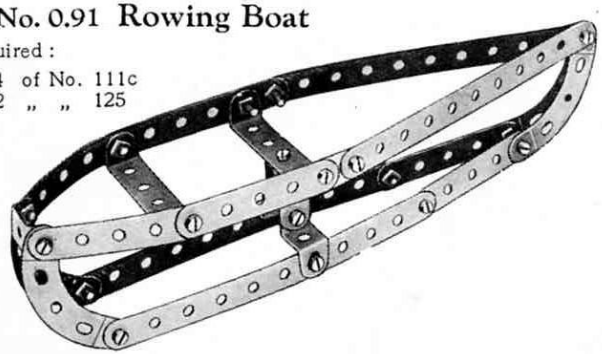
Model No. 0.90 Rickshaw



Parts required :

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

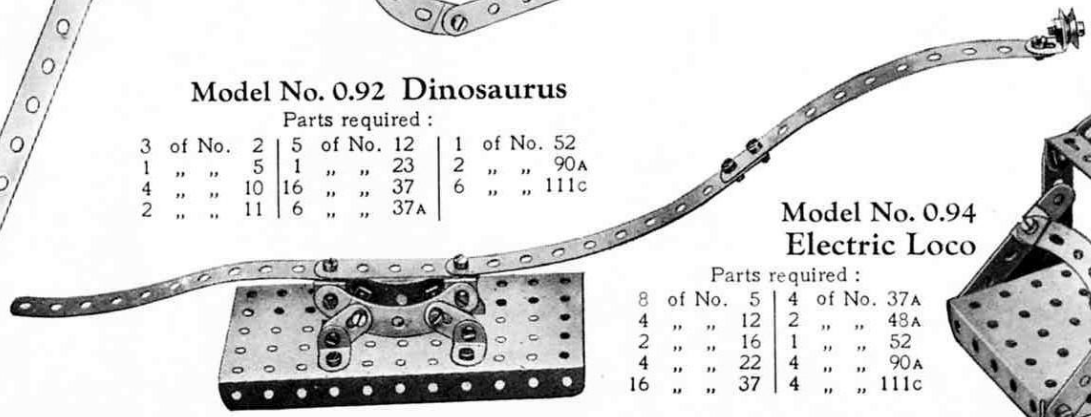
Model No. 0.91 Rowing Boat



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				

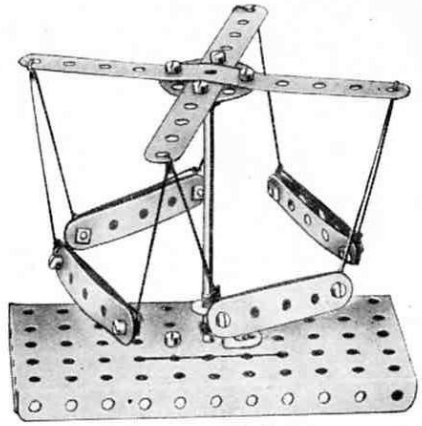
Model No. 0.92 Dinosaurus



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				

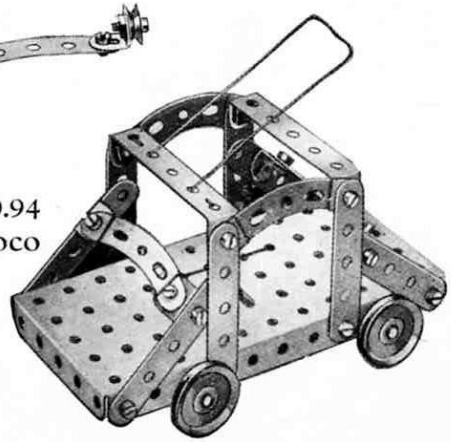
Model No. 0.93 Fly Boats



Parts required :

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

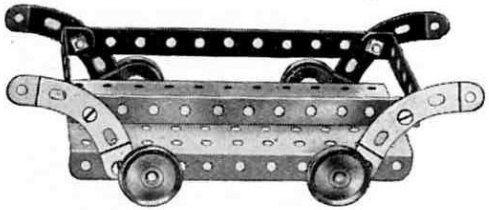
Model No. 0.94 Electric Loco



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

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

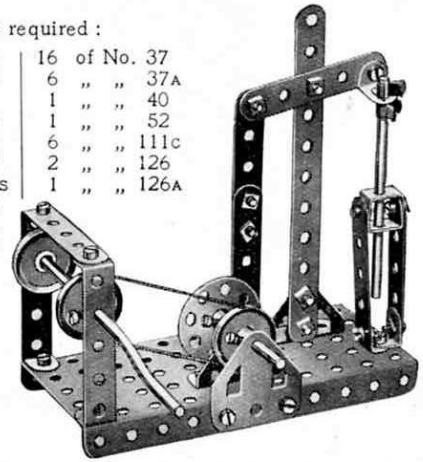
Parts required :

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

Model No. 0.98 Pump

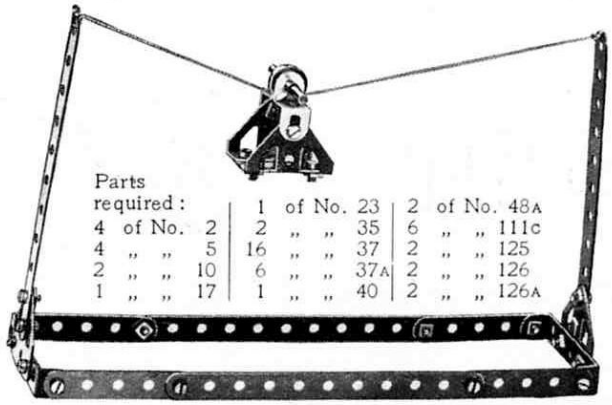
Parts required :

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
1	„	„ 19s	1	„	„ 126A
3	„	„ 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



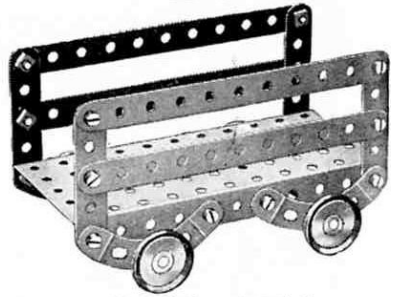
Parts required :

4	of No.	2	1	of No.	23	2	of No.	48A
4	„	„ 5	2	„	„ 35	6	„	„ 111c
2	„	„ 10	16	„	„ 37	2	„	„ 125
1	„	„ 17	6	„	„ 37A	2	„	„ 126
			1	„	„ 40	2	„	„ 126A

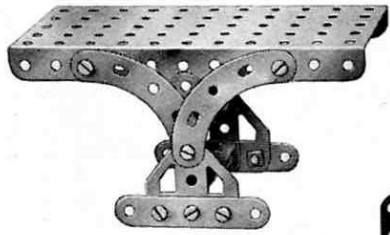
Model No. 0.100 Luggage Truck

Parts required :

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



Model No. 0.101 Drafting Table



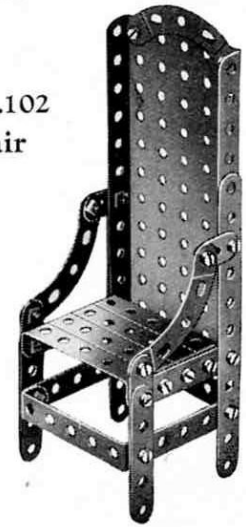
Parts required :

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

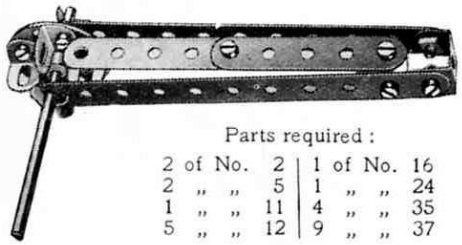
Model No. 0.102 Arm Chair

Parts required :

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



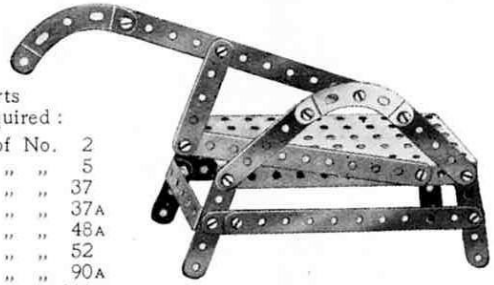
Model No. 0.103 Rattle



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
7	„ „	5
16	„ „	37
1	„ „	37A
2	„ „	48A
1	„ „	52
2	„ „	90A
1	„ „	111c

Model No. 0.105 Anchor

Parts required :

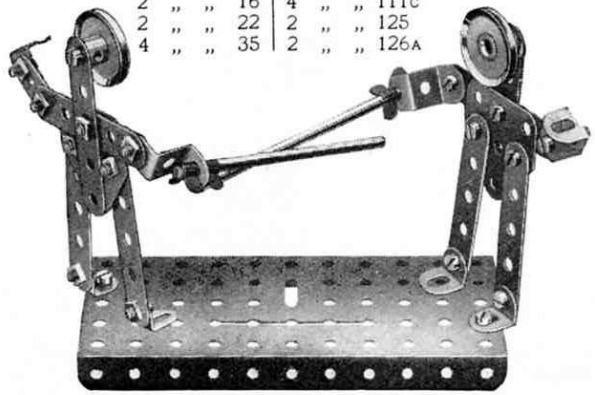
2	of No.	2	1	of No.	11
1	„ „	5	10	„ „	37
			1	„ „	57
			2	„ „	90A
			2	„ „	126A

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

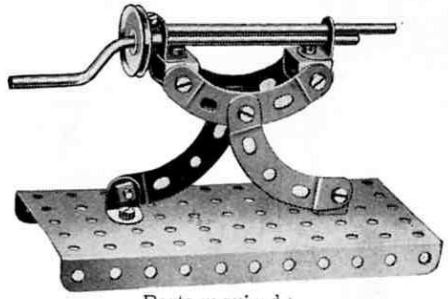
Model No. 0.107 The Fencers



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

Model No. 0.108 Machine Gun



Parts required :

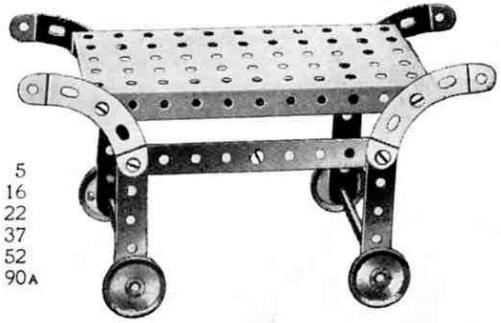
2	of No.	11	1	of No.	22
4	„ „	12	12	„ „	37
1	„ „	16	1	„ „	52
1	„ „	19s	4	„ „	90A

Model No. 0.109 Single Sheave Pulley Block

Parts required :

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

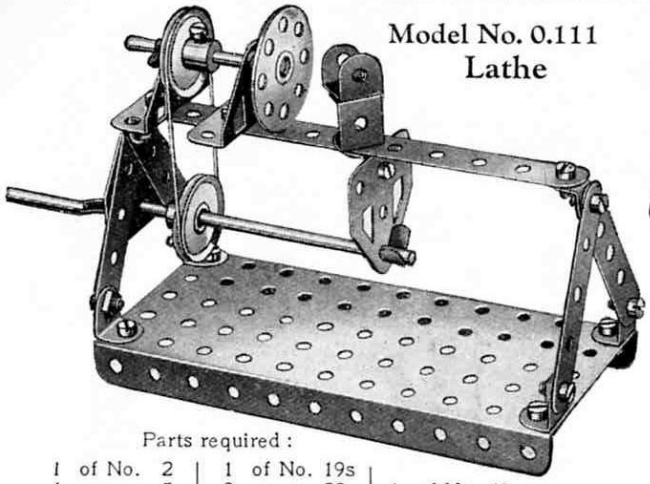
Model No. 0.110 Tea Wagon



Parts required :

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

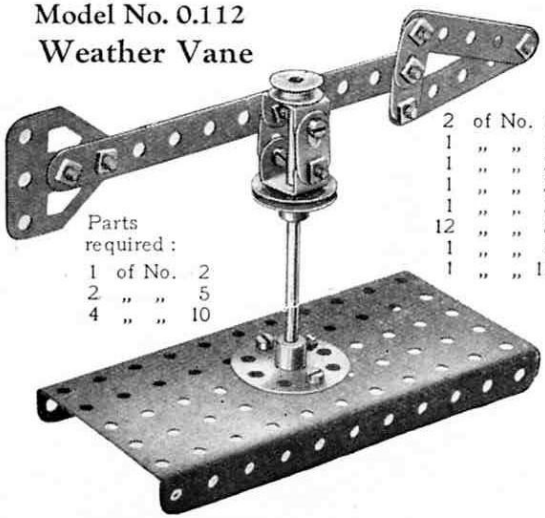
Model No. 0.111 Lathe



Parts required :

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

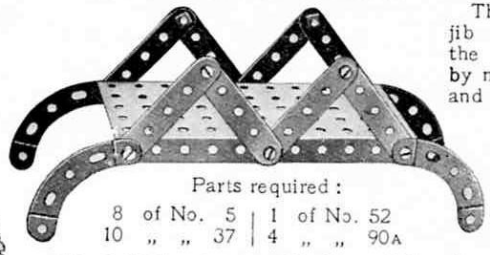
Model No. 0.112 Weather Vane



Parts required :

1	of No.	2
2	„	„ 5
4	„	„ 10
2	of No.	11
1	„	„ 16
1	„	„ 22
1	„	„ 23
1	„	„ 24
12	„	„ 37
1	„	„ 52
1	„	„ 126A

Model No. 0.113 Viaduct



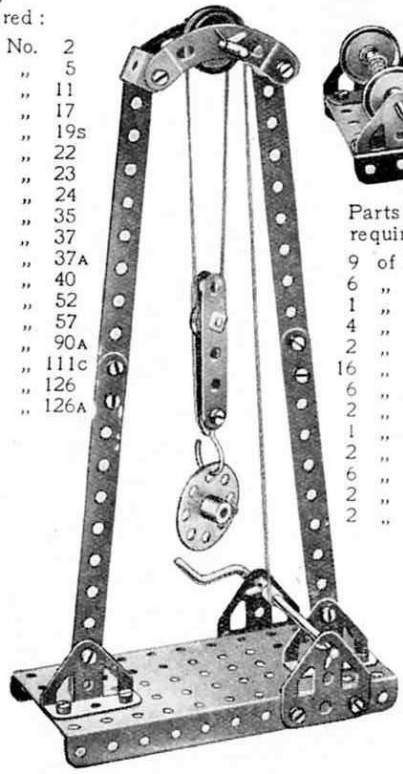
Parts required :

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

Model No. 0.114 Pulley Block

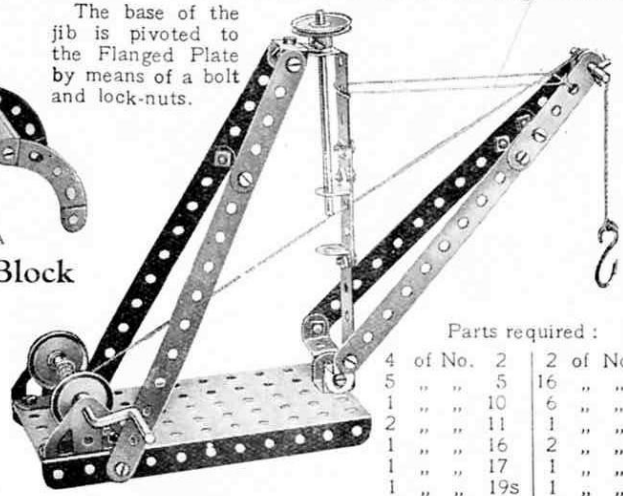
Parts required :

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	„	„ 57
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.



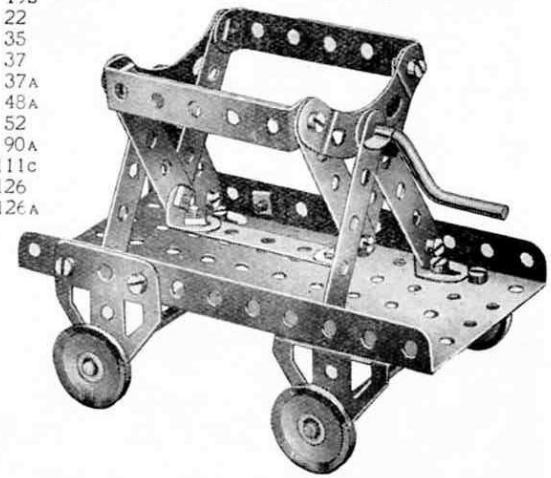
Parts required :

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

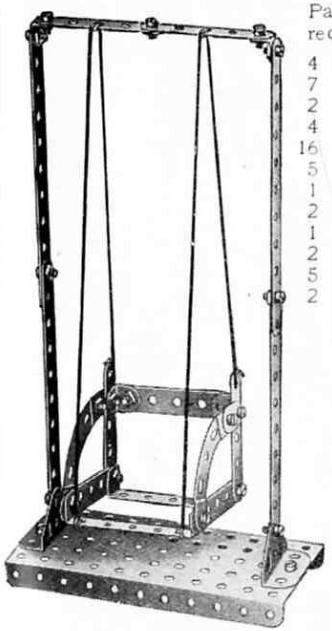
Parts required :

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



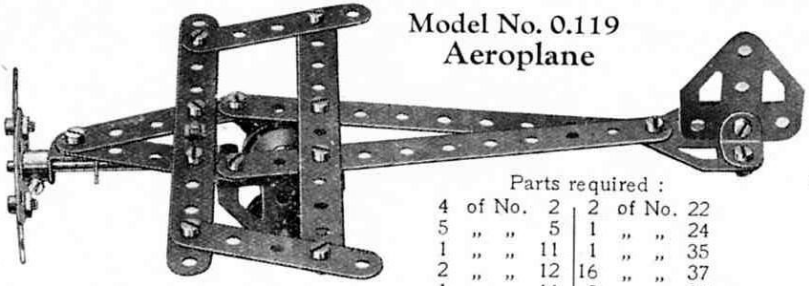
Model No. 0.117 Swing



Parts required :

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

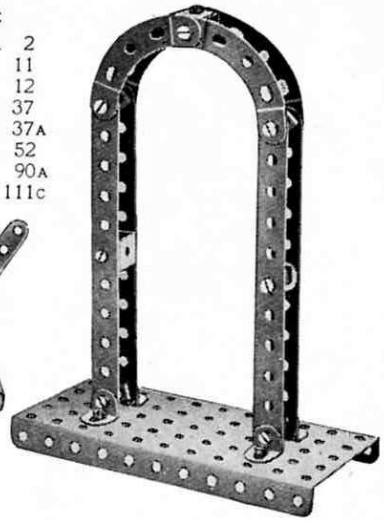
Model No. 0.119 Aeroplane



Parts required :

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

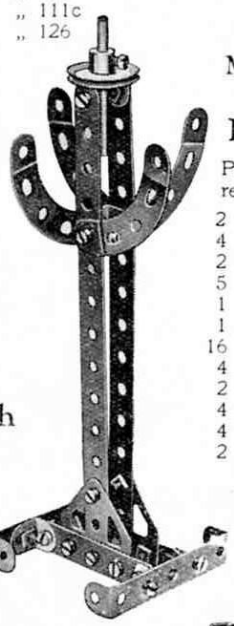
Model No. 0.123 Arch



Parts required :

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

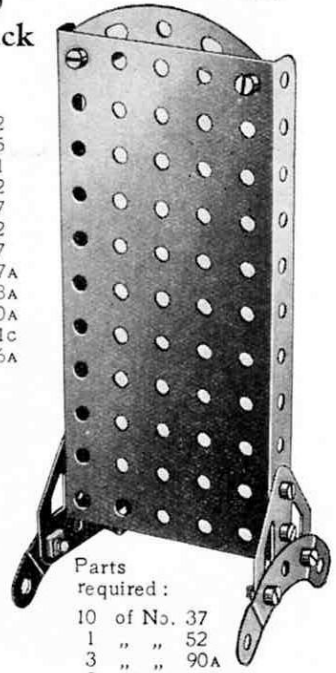
Model No. 0.120 Hat Rack



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

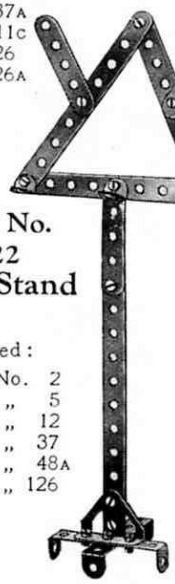
Model No. 0.121 Notice Board



Parts required :

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

Model No. 0.122 Music Stand



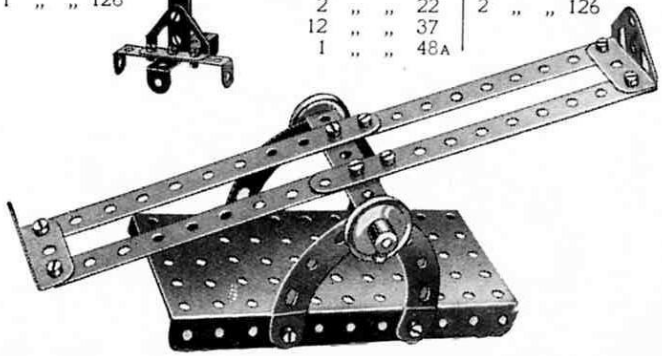
Parts required :

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

Model No. 0.124 See-Saw

Parts required :

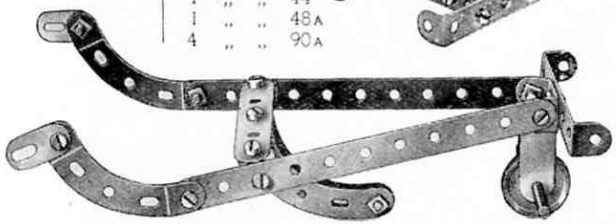
4	of No.	2
1	„ „	16
2	„ „	22
12	„ „	37
1	„ „	48A
1	of No.	52
4	„ „	90A
2	„ „	126



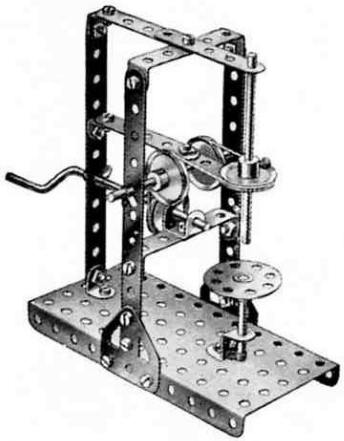
Model No. 0.118 Plough

Parts required :

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



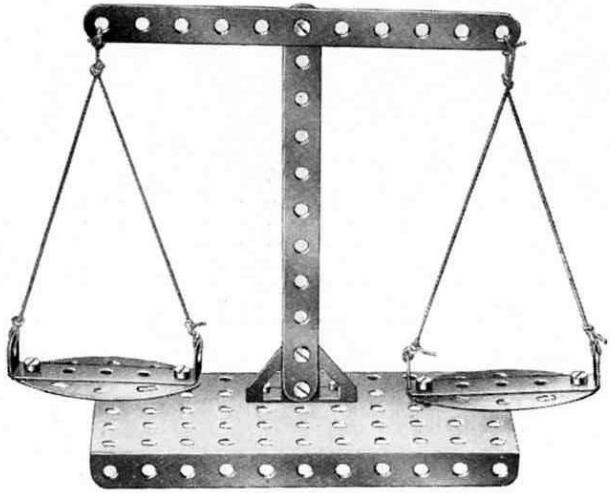
Model No. 0.125 Drilling Machine



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	„ „	126A

Model No. 0.127 Scales



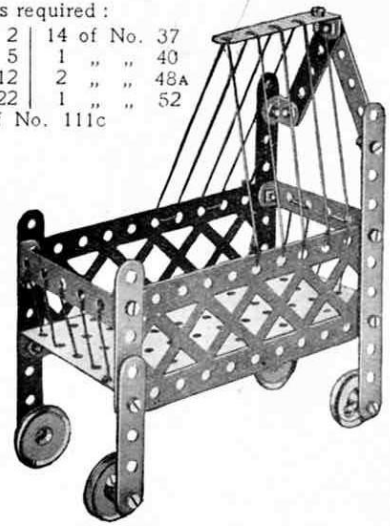
Parts required :

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 :

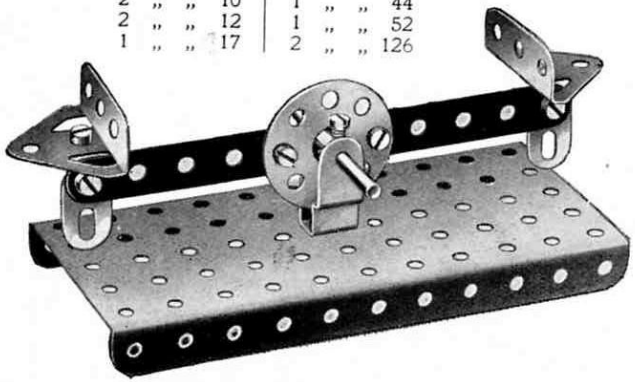
4	of No.	2	14	of No.	37
7	„ „	5	1	„ „	40
3	„ „	12	2	„ „	48A
4	„ „	22	1	„ „	52
			4	of No.	111c



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 Block

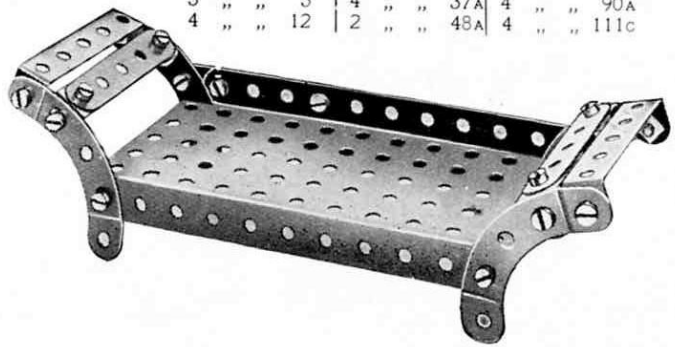
Parts required

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

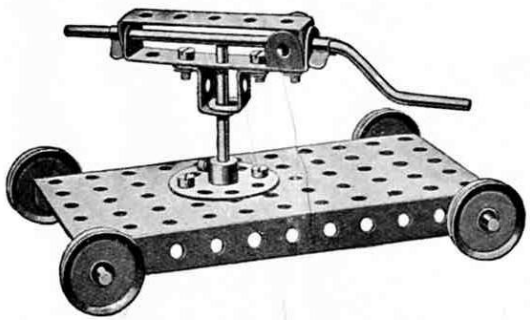
Model No. 0.130 Couch

Parts required :

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



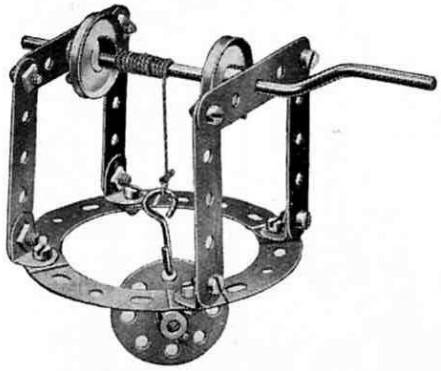
Model No. 0.131 Rock Drill



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. 0.132 Well Windlass



Parts required :

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

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

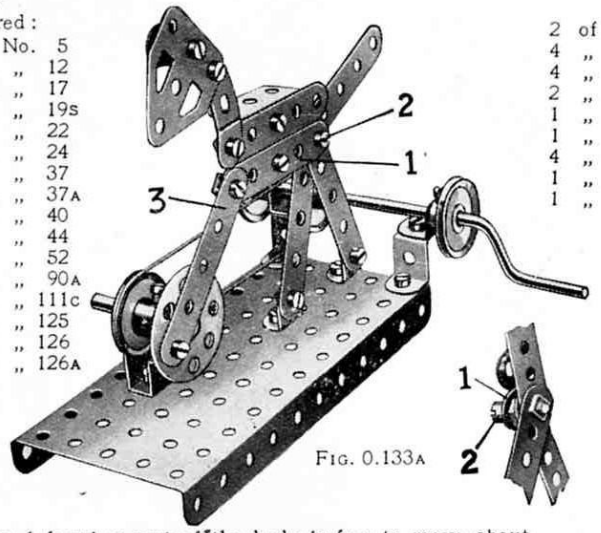
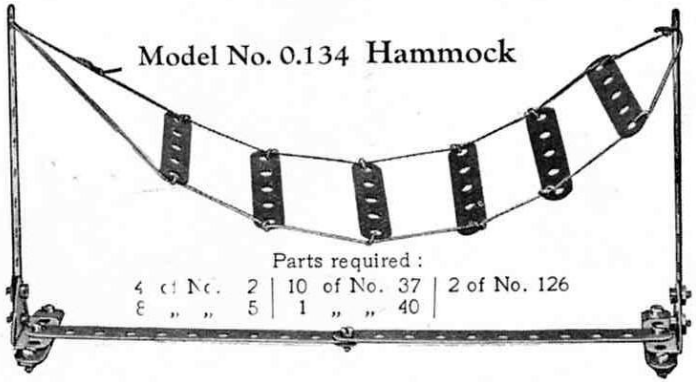


FIG. 0.133A

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 Fig. 0.133A. The Strip 3 is free to move at each end about pivots formed from Bolts and Nuts.

Model No. 0.134 Hammock



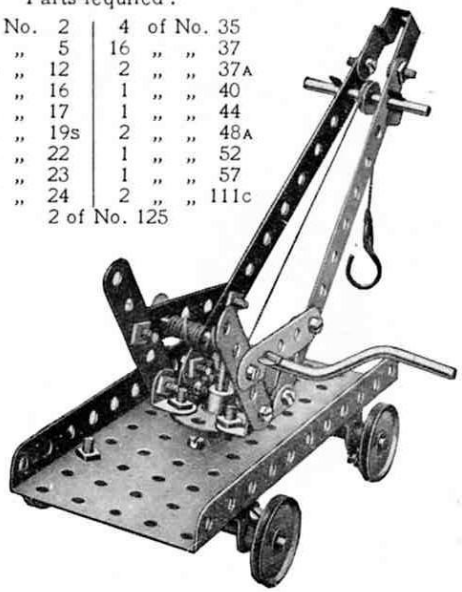
Parts required :

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

Model No. 0.135 Swivelling Crane

Parts required :

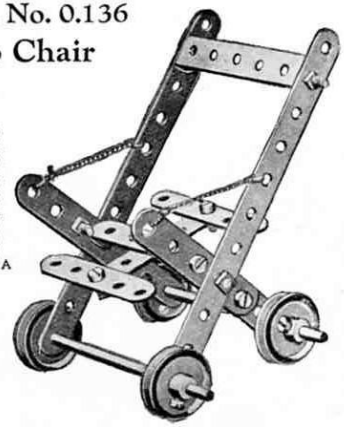
2	of No. 2	4	of No. 35		
4	„ „ 5	16	„ „ 37		
4	„ „ 12	2	„ „ 37A		
2	„ „ 16	1	„ „ 40		
1	„ „ 17	1	„ „ 44		
1	„ „ 19s	2	„ „ 48A		
4	„ „ 22	1	„ „ 52		
1	„ „ 23	1	„ „ 57		
1	„ „ 24	2	„ „ 111c		
		2	of No. 125		

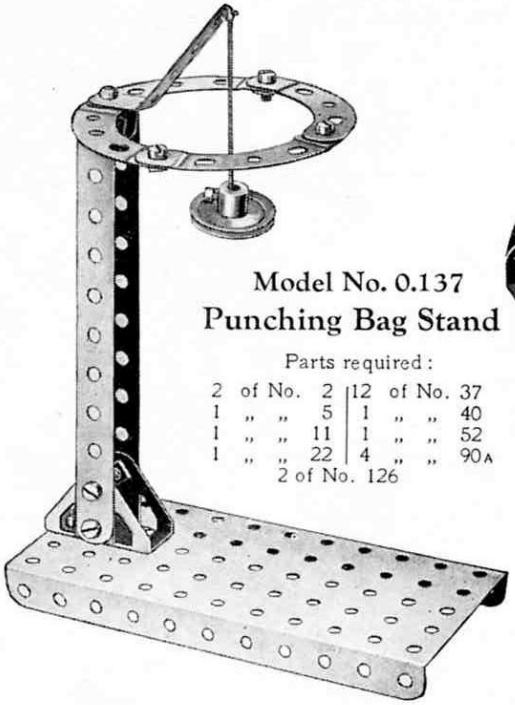


Model No. 0.136 Go Chair

Parts required :

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



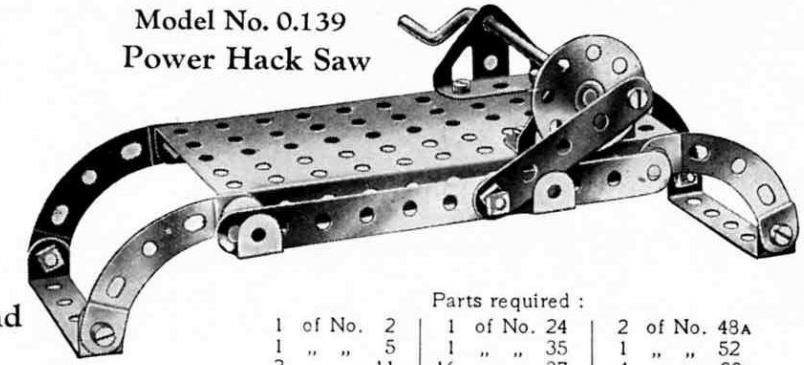


Model No. 0.137 Punching Bag Stand

Parts required:

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

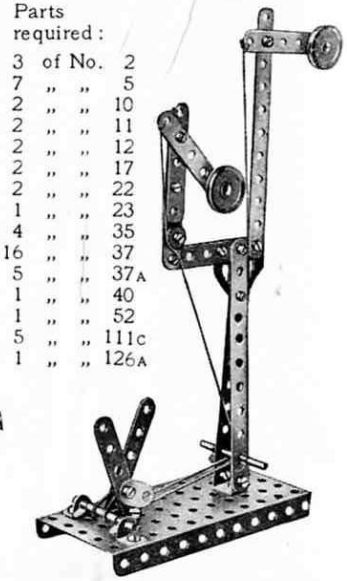
2 of No. 126



Model No. 0.139 Power Hack Saw

Parts required:

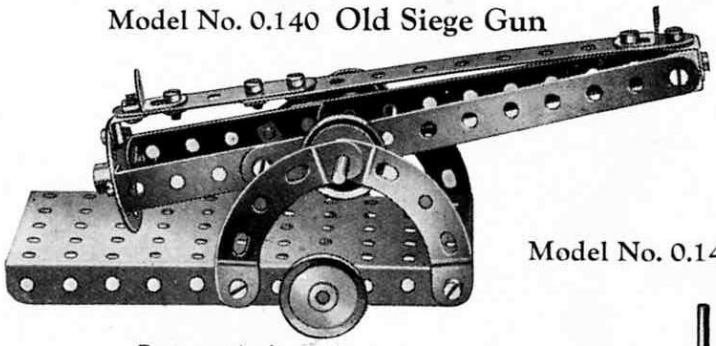
1	of No.	2	1	of No.	24	2	of No.	48A
1	„	„ 5	1	„	„ 35	1	„	„ 52
2	„	„ 11	16	„	„ 37	4	„	„ 90A
1	„	„ 19s	2	„	„ 37A	2	„	„ 126



Model No. 0.141 Junction Signal

Parts required:

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

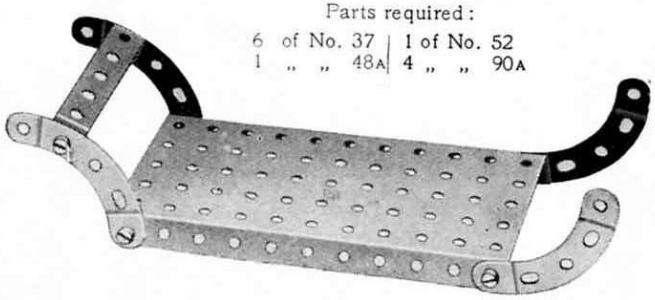


Model No. 0.140 Old Siege Gun

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

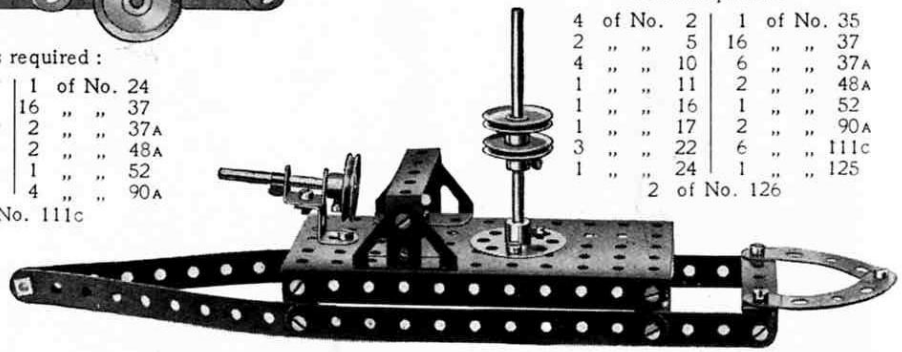
2 of No. 111c



Model No. 0.138 Sled

Parts required:

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



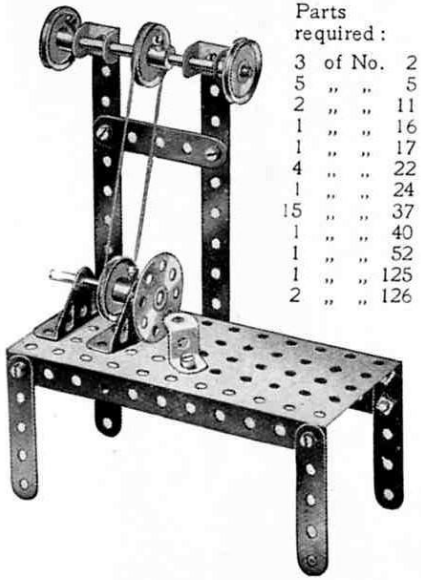
Model No. 0.142 Battleship

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

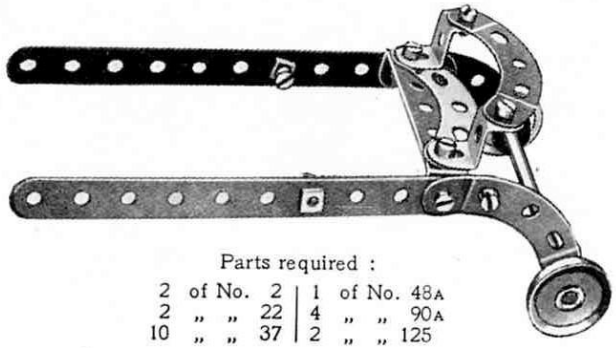
Model No. 0.143 Bench Lathe



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

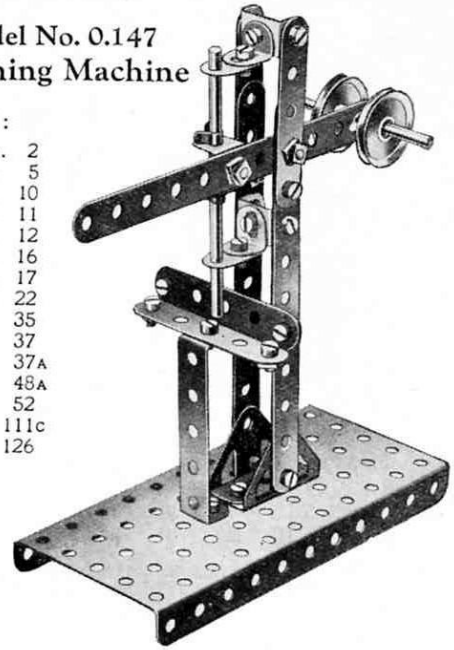
Model No. 0.145 Sulkey



Parts required :

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

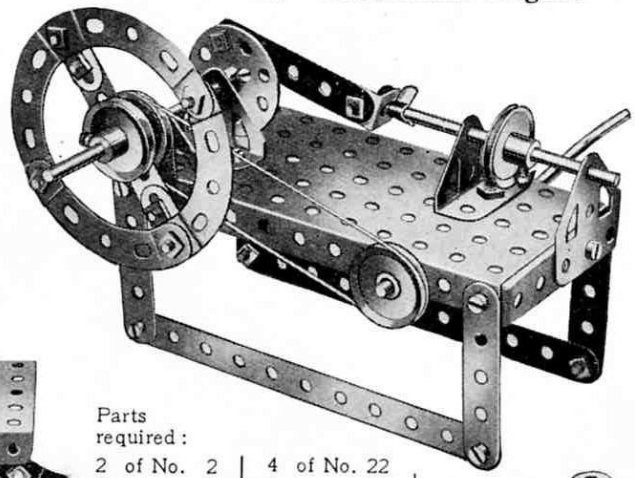
Model No. 0.147 Punching Machine



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



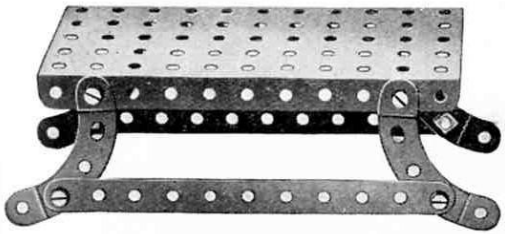
Parts required :

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. 0.144 Bench

Parts required :

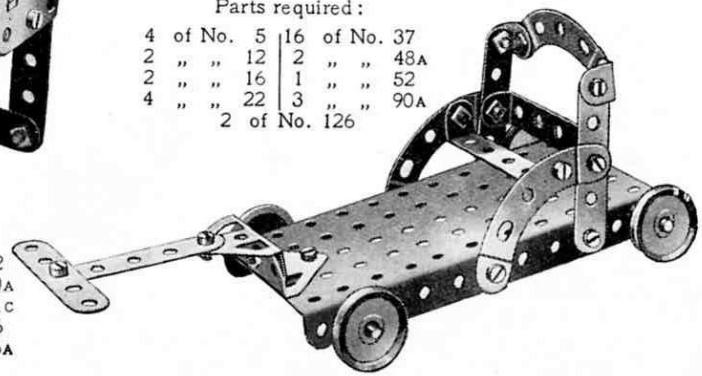
2	of No.	2	1	of No.	52
8	„ „	37	4	„ „	90A



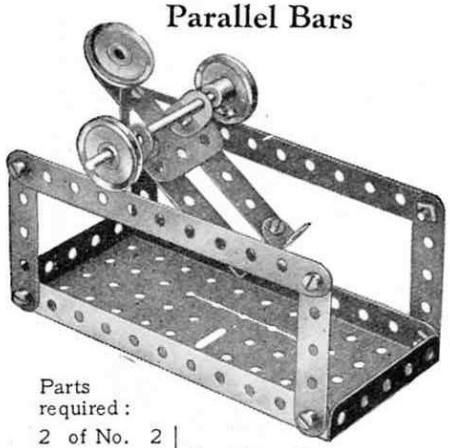
Model No. 0.148 Bath Chair

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		



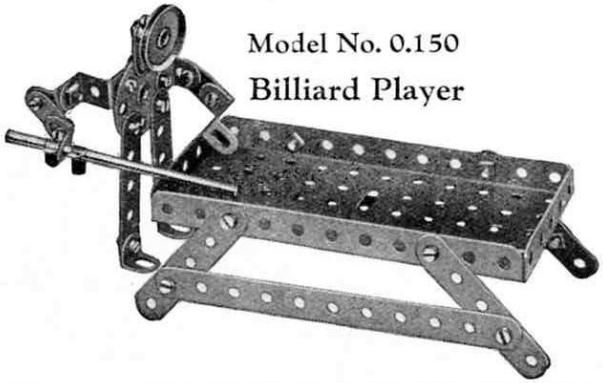
Model No. 0.149 Parallel Bars



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. 0.150 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. 0.151 Candle Shade

Parts required :

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

Model No. 0.152 Prehistoric Animal

Parts required :

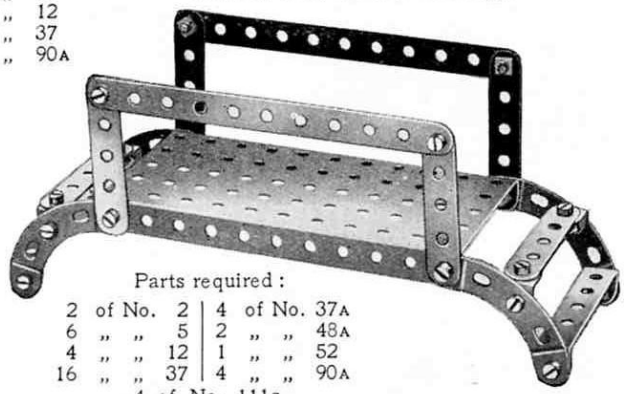
4	of No.	2
2	„	„ 5
5	„	„ 10
2	„	„ 11
6	„	„ 12
14	„	„ 37
4	„	„ 90A

Model No. 0.153 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



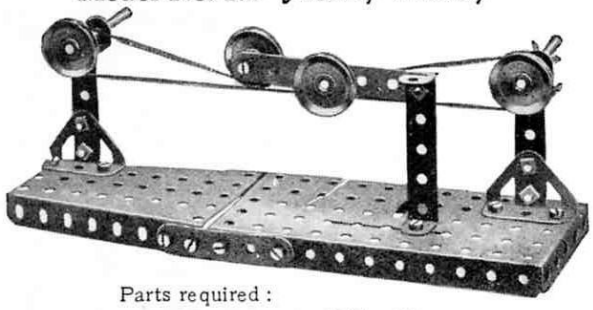
Parts required :

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. 0 (or No. 00 and No. 00A). The next models are a little more advanced, requiring extra parts to construct them. The necessary parts are all contained in a No. 0A Accessory Outfit, the price of which may be obtained from any Meccano dealer.

Model No. 1.1 Jockey Pulley

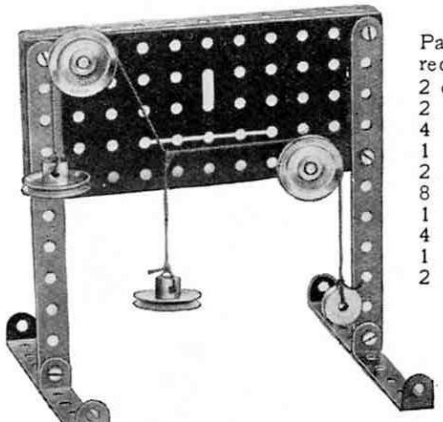


Parts required :

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 3½" 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 :

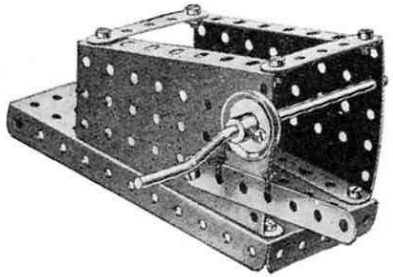
2 of No.	2
2 „ „	18A
4 „ „	22
1 „ „	23
2 „ „	35
8 „ „	37
1 „ „	40
4 „ „	48A
1 „ „	52
2 „ „	125

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.

Parts required :

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

Model No. 1.3 Band Brake



Parts required :

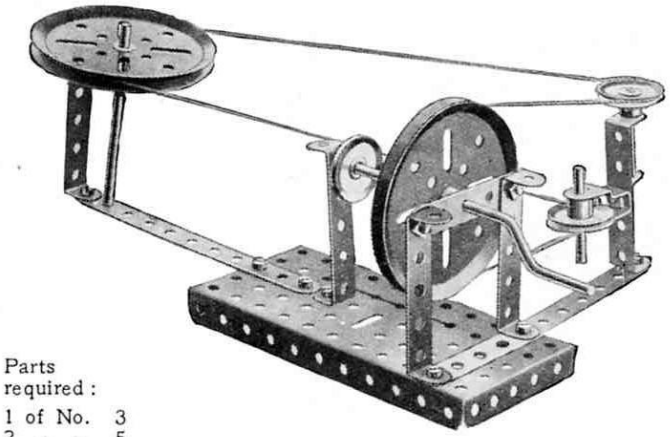
1 of No.	3
2 „ „	5
1 „ „	19S
1 „ „	22
1 „ „	35
9 „ „	37
1 „ „	37A
1 „ „	40
1 „ „	52
2 „ „	54

Model No. 1.4 "H" Girder

Parts required :

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

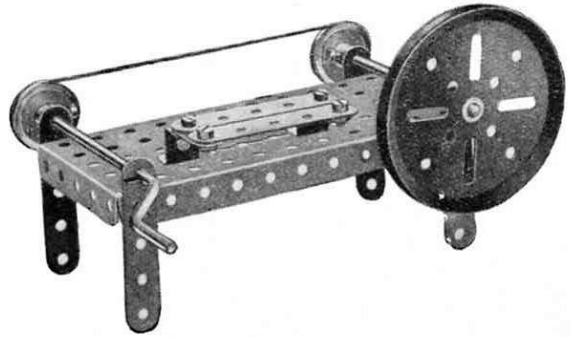
Model No. 1.5 Belt Gear Right-angle Drive Transmission



Model No. 1.6 Bacon Slicer

Parts required :

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

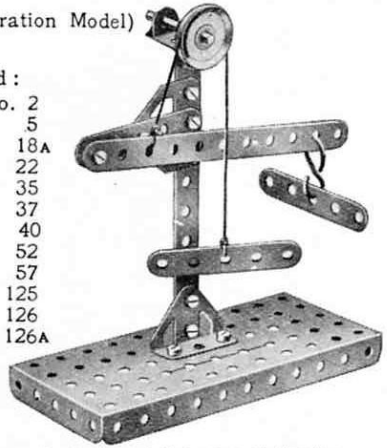


Model No. 1.7 Lever of the Second Order

(Demonstration Model)

Parts required :

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



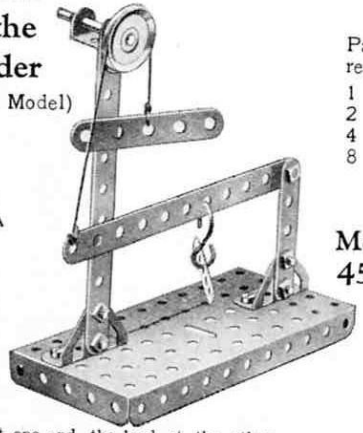
The fulcrum is at one end, the power at the other and the load lies between the two.

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	„ „	57
1	„ „	125
2	„ „	126

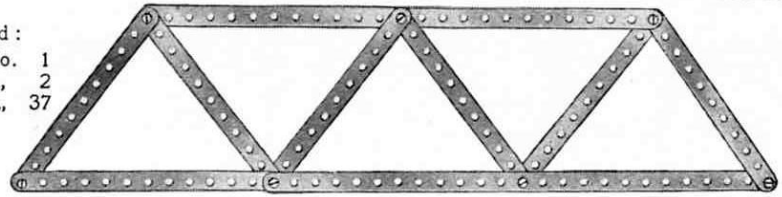


The fulcrum is at one end, the load at the other and the power lies between the two.

Model No. 1.9 Compound Triangulated Truss

Parts required :

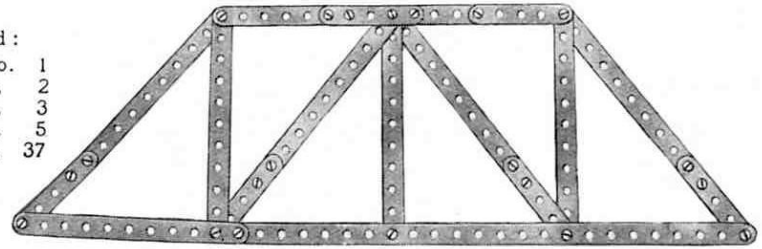
2	of No.	1
7	„ „	2
7	„ „	37



Model No. 1.10 Howe Truss

Parts required :

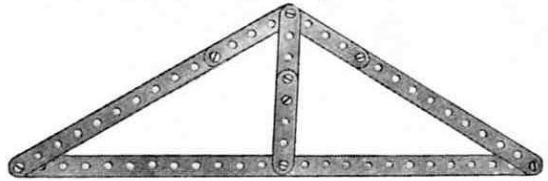
1	of No.	1
8	„ „	2
1	„ „	3
7	„ „	5
21	„ „	37



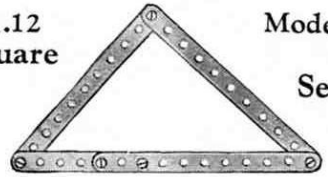
Model No. 1.11 Triangulated Truss

Parts required :

1	of No.	1
2	„ „	2
4	„ „	5
8	„ „	37



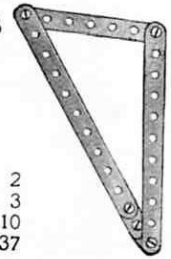
Model No. 1.12 45° Set-Square



Parts required :

3	of No.	2	1	of No.	3
5	of No.	37			

Model No. 1.13 60° Set-Square

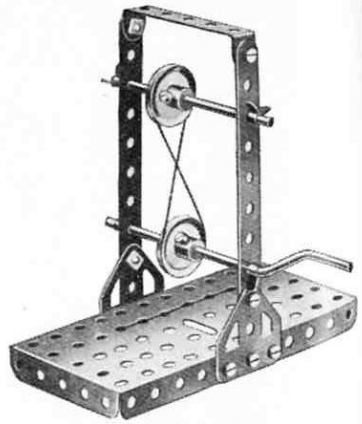


Parts required :

2	of No.	2
1	„ „	3
2	„ „	10
5	„ „	37

Model No. 1.14 Belt Gear

For Reversing Motion of Driven Shaft



Parts required :

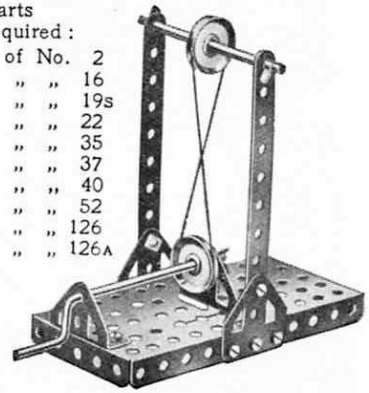
2	of No.	2	10	of No.	37
1	„ „	16	1	„ „	40
1	„ „	19s	1	„ „	48A
2	„ „	22	1	„ „	52
4	„ „	35	2	„ „	126A

Model No. 1.15 Belt Gear

For Driving Shafts at Right Angles

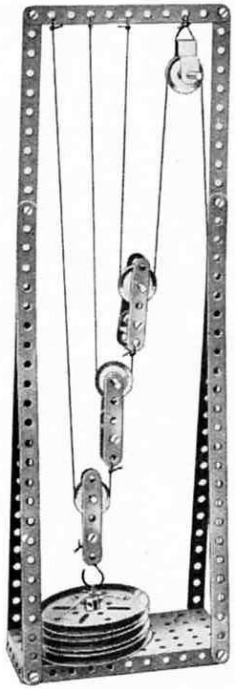
Parts required :

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



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	„	„	57

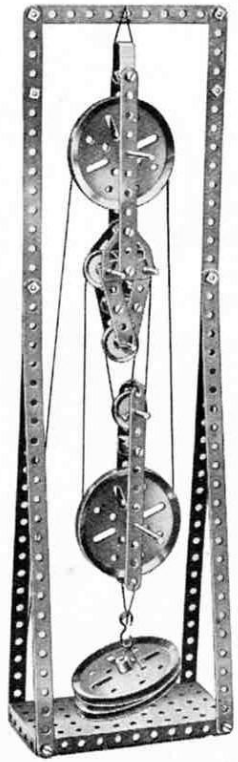
Model No. 1.17 Pulley Block

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

Parts required:

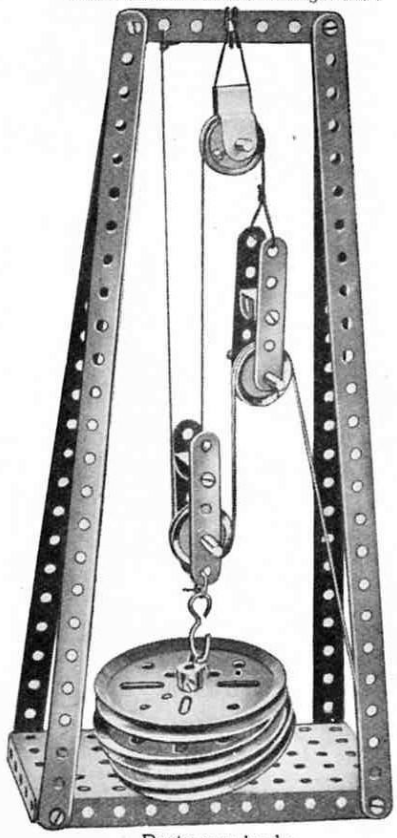
4	of	No.	1	4	of	No.	19B
7	„	„	2	4	„	„	22
6	„	„	5	6	„	„	35
2	„	„	10	22	„	„	37
2	„	„	12	1	„	„	40
2	„	„	16	1	„	„	44
2	„	„	17	1	„	„	52
2	„	„	18A	1	„	„	57

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

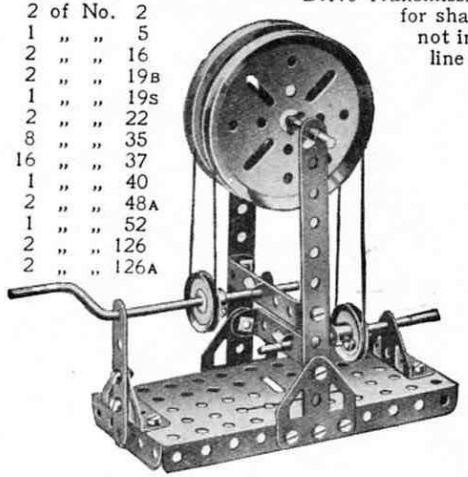
1 of No. 27

Model No. 1.19 Belt Gear

Parts required:

2	of	No.	2
1	„	„	5
2	„	„	16
2	„	„	19B
1	„	„	19S
2	„	„	22
8	„	„	35
16	„	„	37
1	„	„	40
2	„	„	48A
1	„	„	52
2	„	„	126
2	„	„	126A

Drive Transmission for shafts not in line

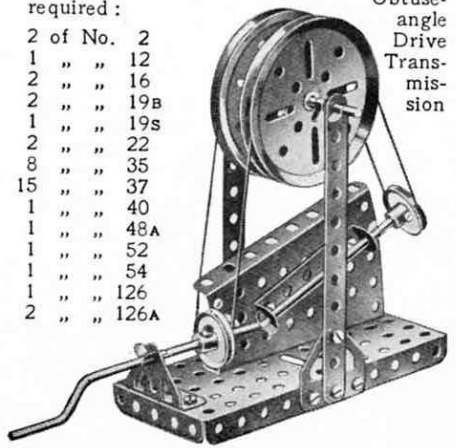


Model No. 1.20 Belt Gear

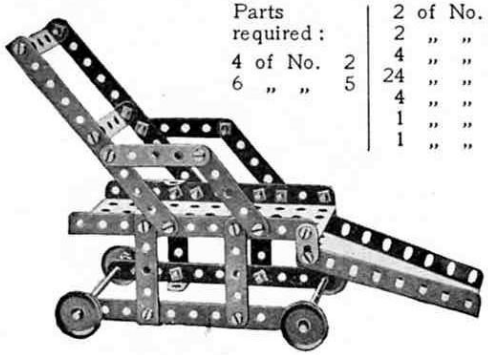
Parts required:

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

Obtuse-angle Drive Transmission



Model No. 1.21 Invalid Chair



Parts required:

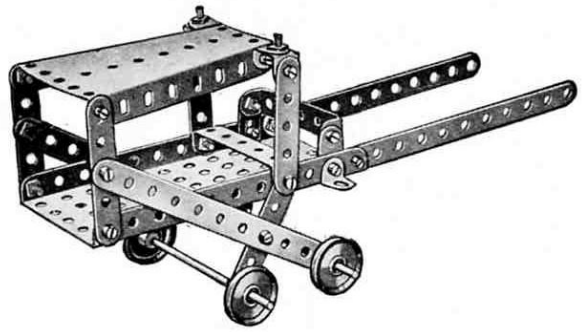
4	of No.	2	
6	„ „	5	
2	of No.	10	
2	„ „	16	
4	„ „	22	
24	„ „	37	
4	„ „	48A	
1	„ „	52	
1	„ „	54	

Model No. 1.22 Letter Balance

Parts required:

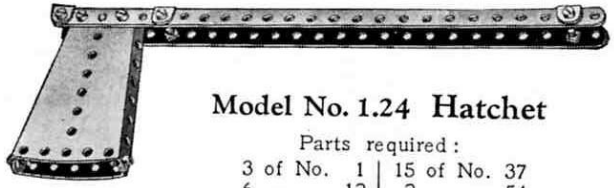
6	of No.	2	4	of No.	22	2	of No.	48A
3	„ „	5	1	„ „	24	1	„ „	52
1	„ „	10	26	„ „	37	2	„ „	111c
1	„ „	12	4	„ „	37A	2	„ „	126
2	„ „	18A	2	„ „	38	2	„ „	126A
1	„ „	19B	1	„ „	44			

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

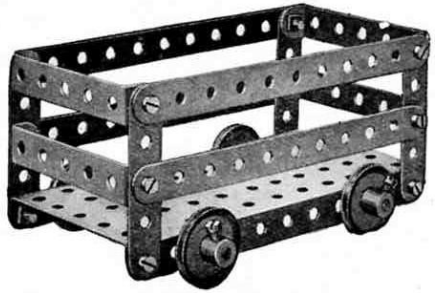
Parts required:

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

Model No. 1.25 Truck with Sides

Parts required:

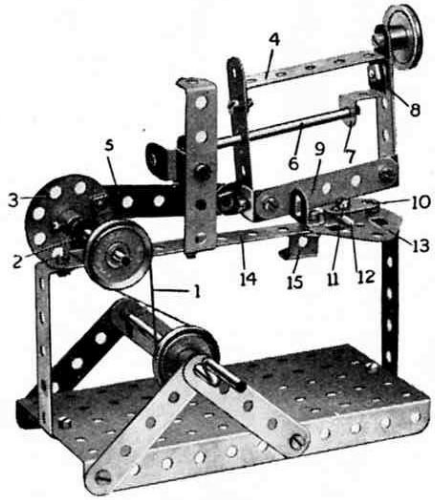
4	of No.	2
4	„ „	5
2	„ „	16
4	„ „	22
12	„ „	37
4	„ „	48A
1	„ „	52



Model No. 1.26 Mechanical Saw

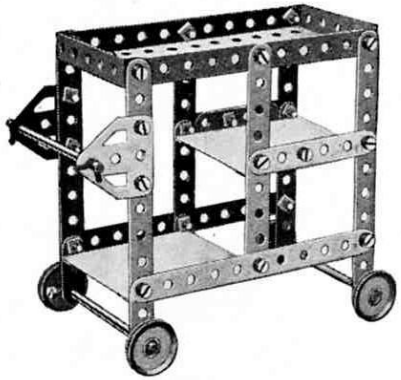
Parts required:

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



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 2½" 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 3½" 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 5½" Strip 14, which are spaced apart for the purpose by Washers 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

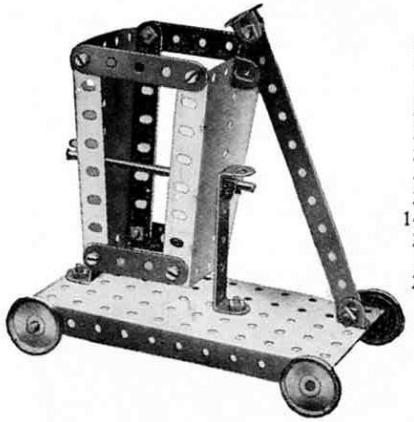


Parts required :

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.

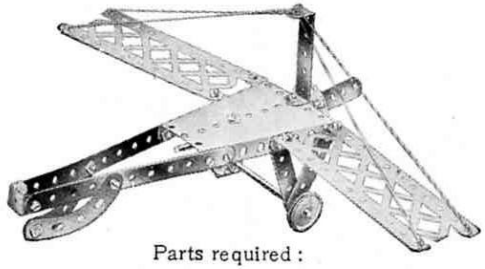
Model No. 1.28 Tip Wagon



Parts required :

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

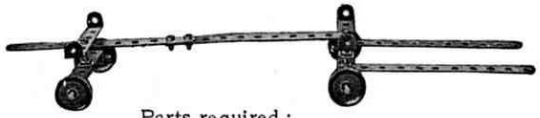
Model No. 1.29 Aeroplane



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		

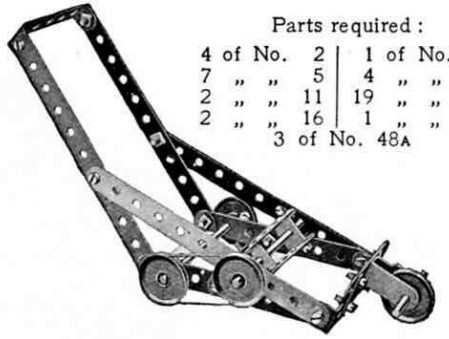
Model No. 1.30 Timber Drag



Parts required :

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

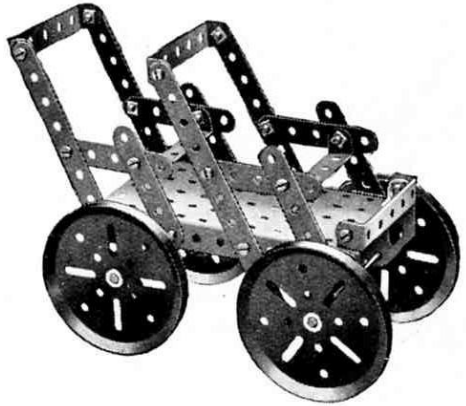
Model No. 1.31 Lawn Mower



Parts required :

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

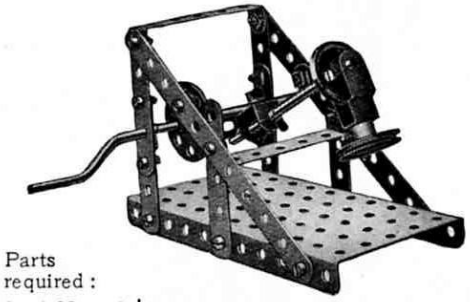
Model No. 1.32 Tandem Car



Parts required :

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

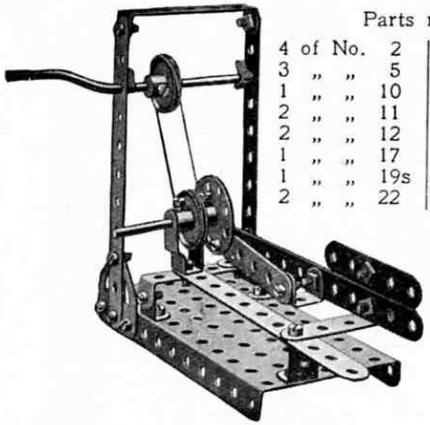
Model No. 1.33 Mechanical Hammer



Parts required :

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

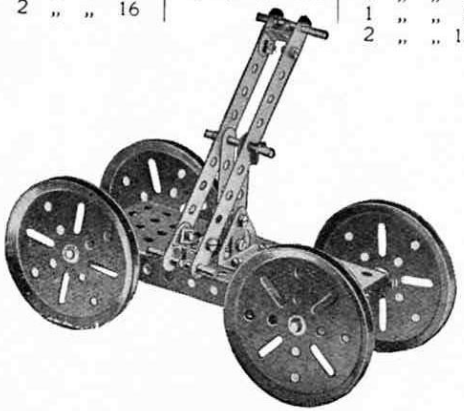
Model No. 1.34 Sawing Machine



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

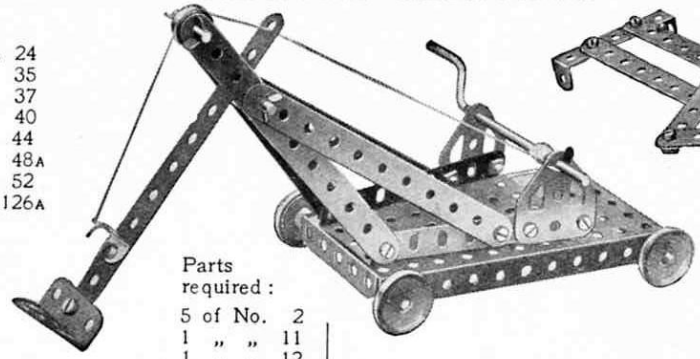
Model No. 1.35 Manual Fire Engine



Parts required :

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

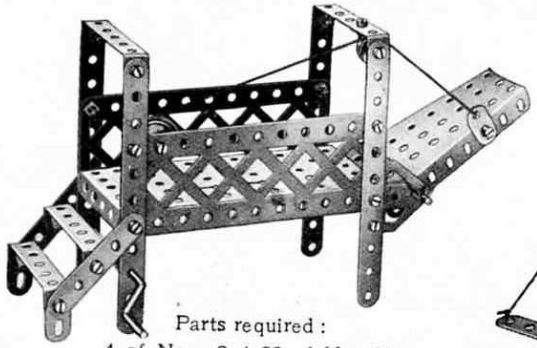
Model No. 1.36 Steam Shovel



Parts required :

5	of No.	2	6	of No.	35	1	of No.	52
1	„ „	11	12	„ „	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						

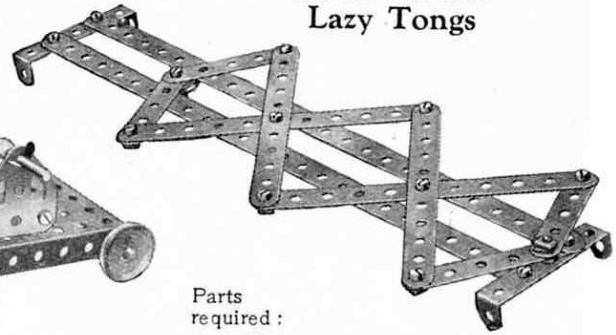
Model No. 1.37 Gangway



Parts required :

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

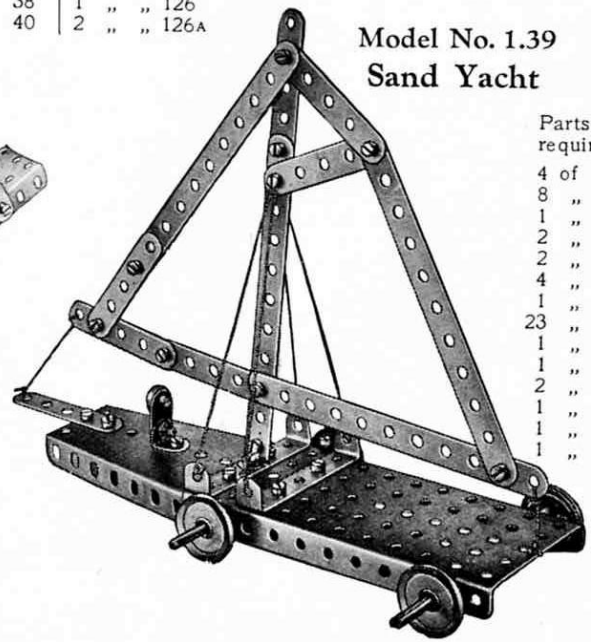
Model No. 1.38 Lazy Tongs



Parts required :

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

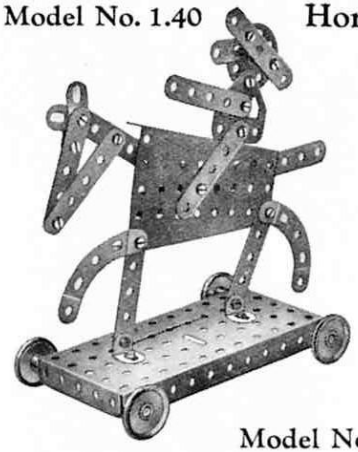
Model No. 1.39 Sand Yacht



Parts required :

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

Model No. 1.40 Horseman

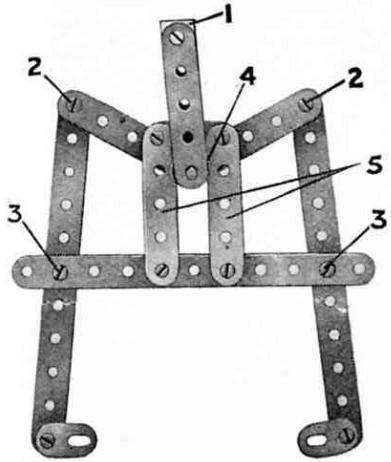


Parts required :

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. 1.41 Friction Grip Tongs

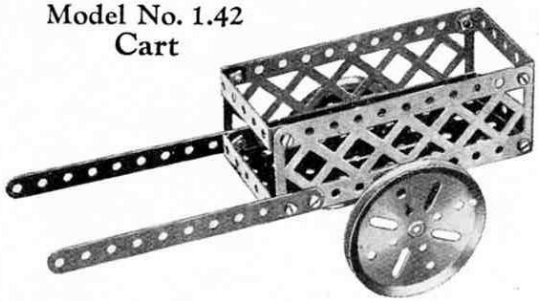
The hoisting cord is attached to the Double Bracket 1. The joints 2, 3 are lock-nutted, so that when the grip is raised the ½" loose Pulley Wheel 4 slides upward between the 2½" Strips 5, and the grip closes upon the block of wood or other material placed between its jaws.



Parts required :

3	of No.	2
8	„ „	5
4	„ „	10
1	„ „	11
1	„ „	23
2	„ „	35
12	„ „	37

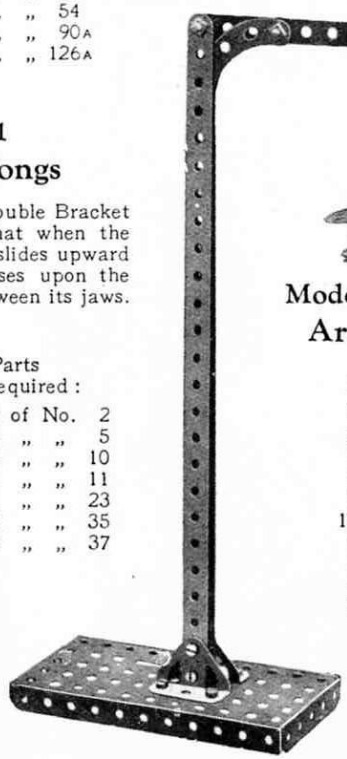
Model No. 1.42 Cart



Parts required :

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

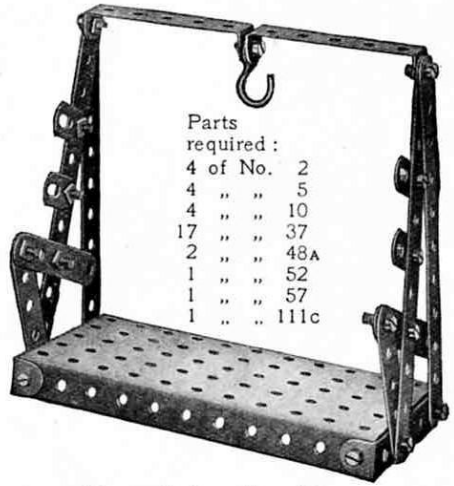
Model No. 1.43 Arc Lamp



Parts required :

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

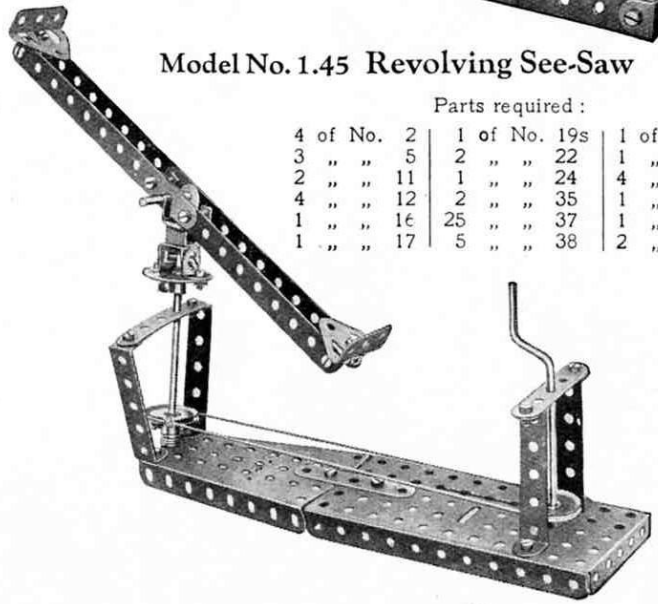
Model No. 1.44 Pen Rack



Parts required :

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

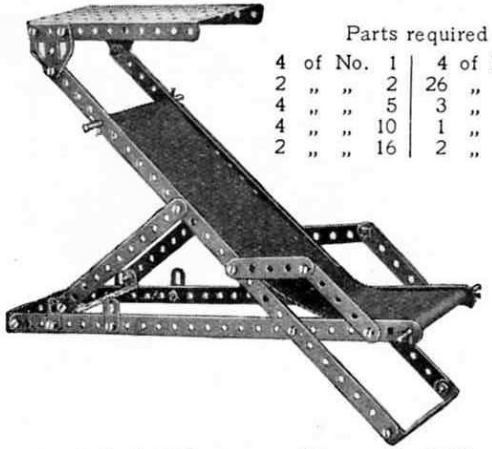
Model No. 1.45 Revolving See-Saw



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

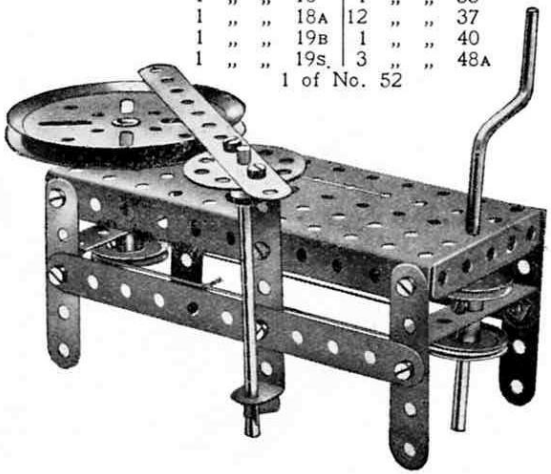
Model No. 1.46 Deck Chair



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

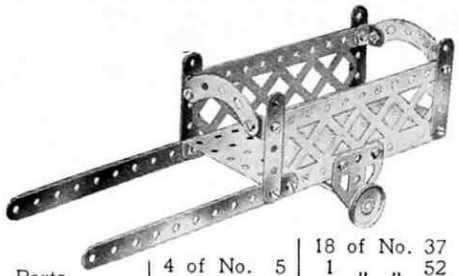
Model No. 1.47 Potter's Wheel



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	of	No.	52

Model No. 1.48 Luggage Cart

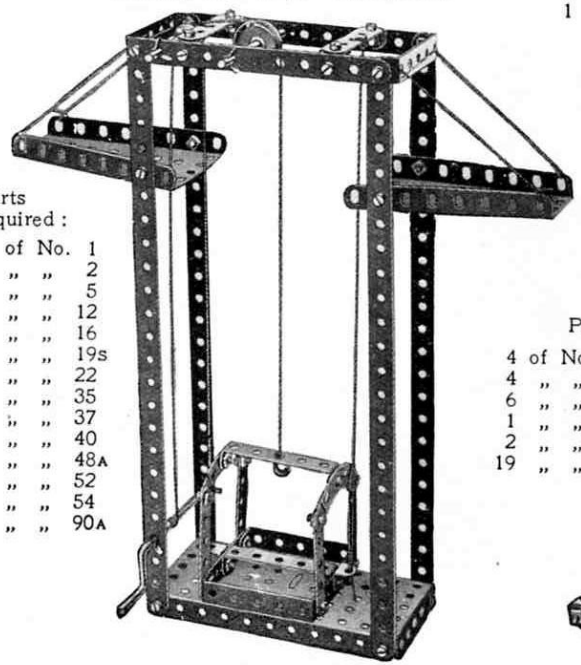


Parts required :

2 of No. 2

4	of	No.	5	18	of	No.	37
4	„	„	12	1	„	„	52
1	„	„	16	2	„	„	90A
2	„	„	22	2	„	„	100
				2	„	„	126A

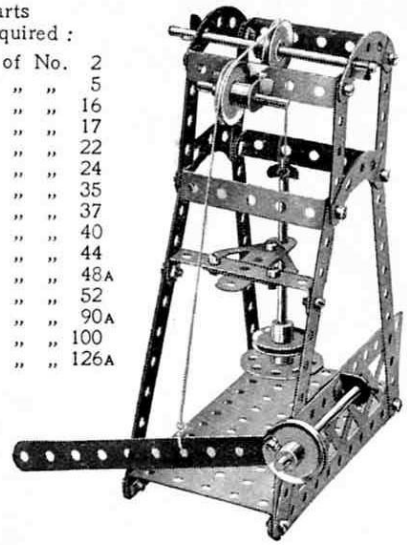
Model No. 1.49 Elevator



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

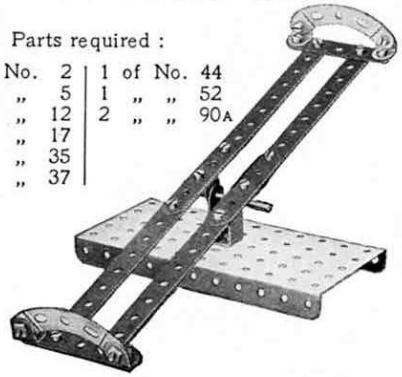
Model No. 1.50 Mechanical Stamp



Parts required :

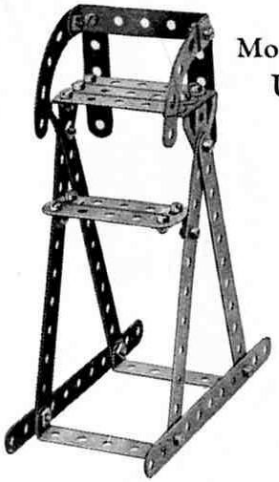
5	of	No.	2
5	„	„	5
3	„	„	16
1	„	„	17
4	„	„	22
1	„	„	24
6	„	„	35
20	„	„	37
1	„	„	40
1	„	„	44
6	„	„	48A
1	„	„	52
4	„	„	90A
1	„	„	100
1	„	„	126A

Model No. 1.51 See-Saw



Parts required :

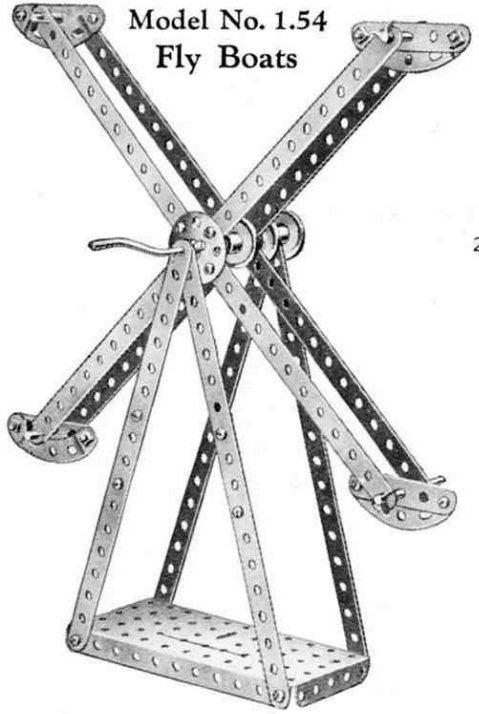
4	of	No.	2	1	of	No.	44
4	„	„	5	1	„	„	52
6	„	„	12	2	„	„	90A
1	„	„	17				
2	„	„	35				
19	„	„	37				



Model No. 1.52 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

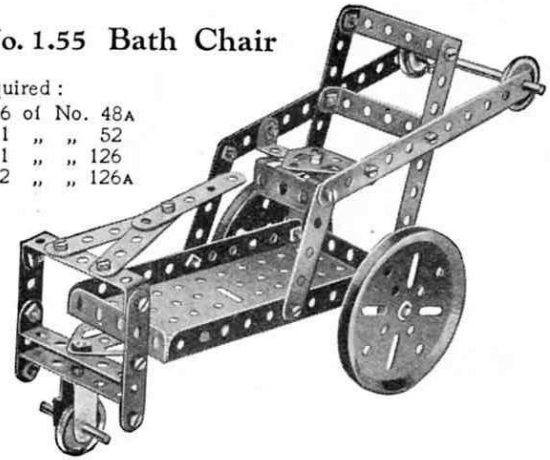
Parts required :

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

Model No. 1.55 Bath Chair

Parts required :

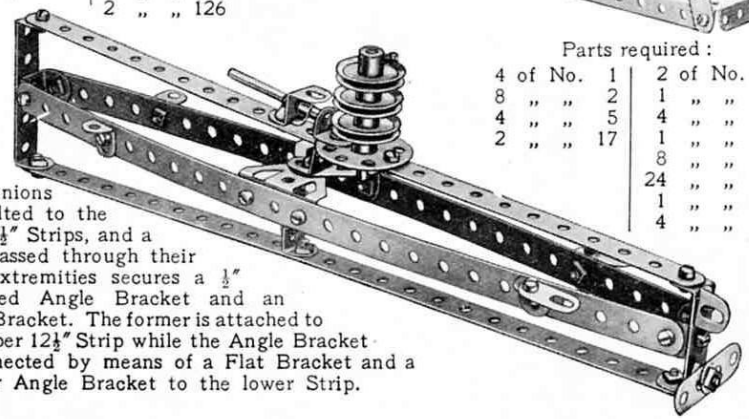
4	of No.	2
7	„ „	5
2	„ „	16
1	„ „	18A
2	„ „	19B
3	„ „	22
24	„ „	37
1	„ „	37A
1	„ „	44
6	of No.	48A
1	„ „	52
1	„ „	126
2	„ „	126A



Model No. 1.53 Submarine

Parts required :

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



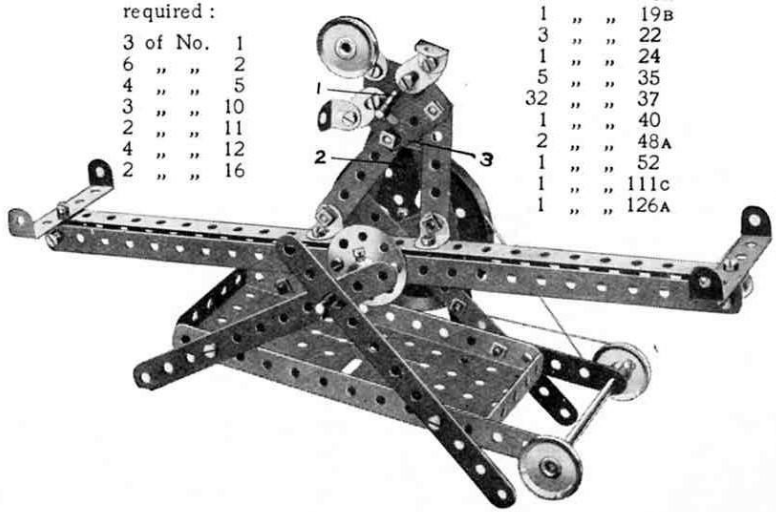
Trunnions are bolted to the side 12½" Strips, and a Bolt passed through their inner extremities secures a ½" Reversed Angle Bracket and an Angle Bracket. The former is attached to the upper 12½" Strip while the Angle Bracket is connected by means of a Flat Bracket and a further Angle Bracket to the lower Strip.

Model No. 1.56 Acrobat on See-Saw

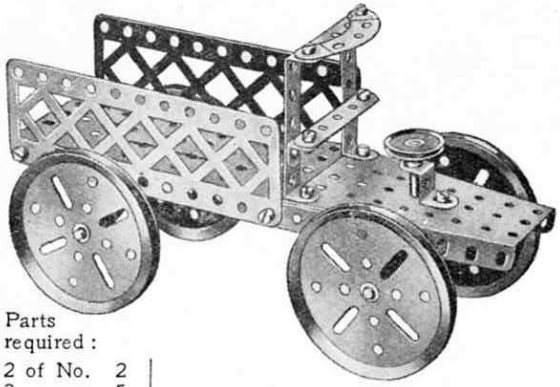
The 1" Rod 1 is journalled in the end holes of two 5½" Strips 2 and in the Flat Trunnion 3 which joins them. It is held in position by two Spring Clips, placed on either side of the 5½" Strips 2.

Parts required :

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



Model No. 1.57 Motor Lorry



Parts required :

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

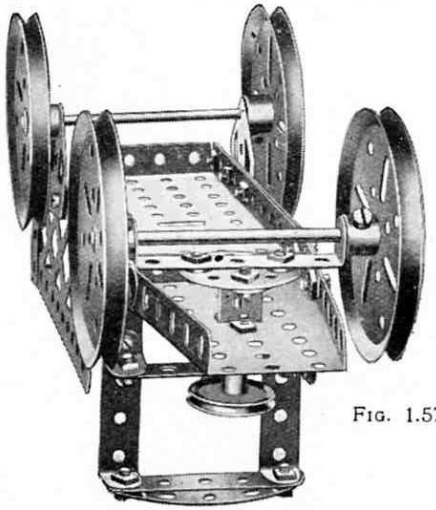
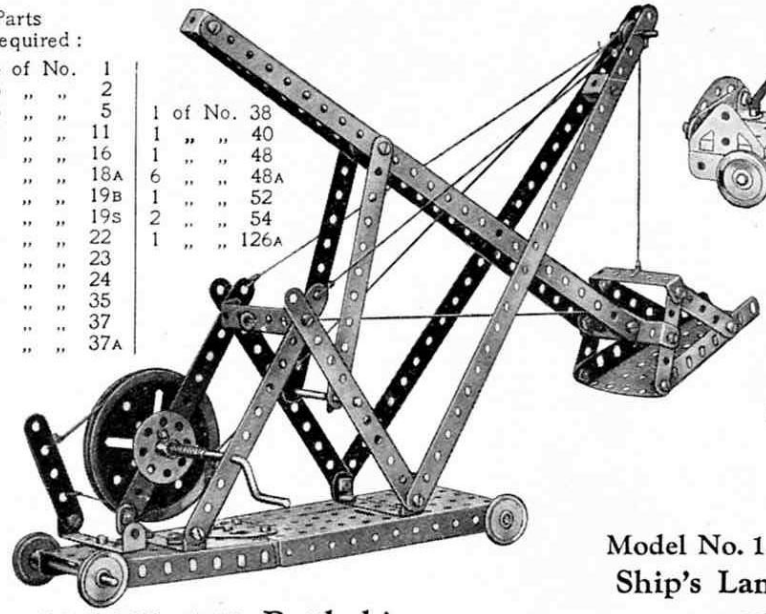


FIG. 1.57A

Model No. 1.58 Mechanical Shovel

Parts required :

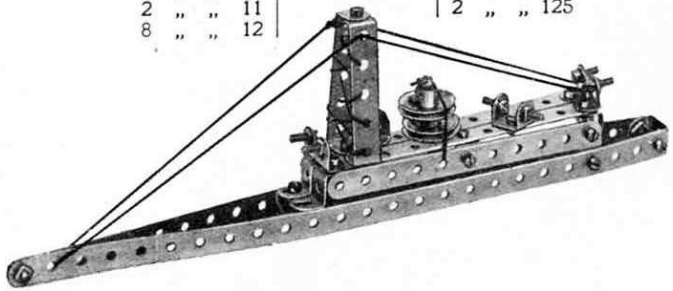
4	of No.	1	1	of No.	38			
6	„ „	2	1	„ „	40			
5	„ „	5	1	„ „	48			
2	„ „	11	6	„ „	48A			
3	„ „	16	1	„ „	52			
1	„ „	18A	2	„ „	54			
1	„ „	19B	1	„ „	126A			
1	„ „	19S						
4	„ „	22						
1	„ „	23						
1	„ „	24						
6	„ „	35						
35	„ „	37						
1	„ „	37A						



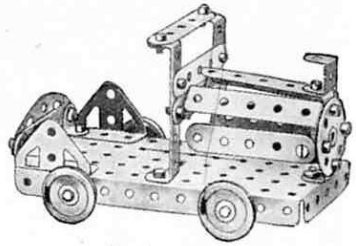
Model No. 1.59 Battleship

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				2	„ „	125
8	„ „	12						



Model No. 1.60 Locomotive



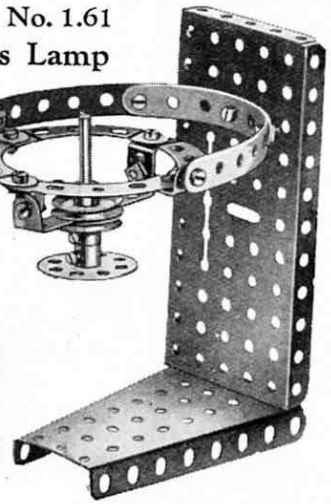
Parts required :

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

Model No. 1.61 Ship's Lamp

Parts required :

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

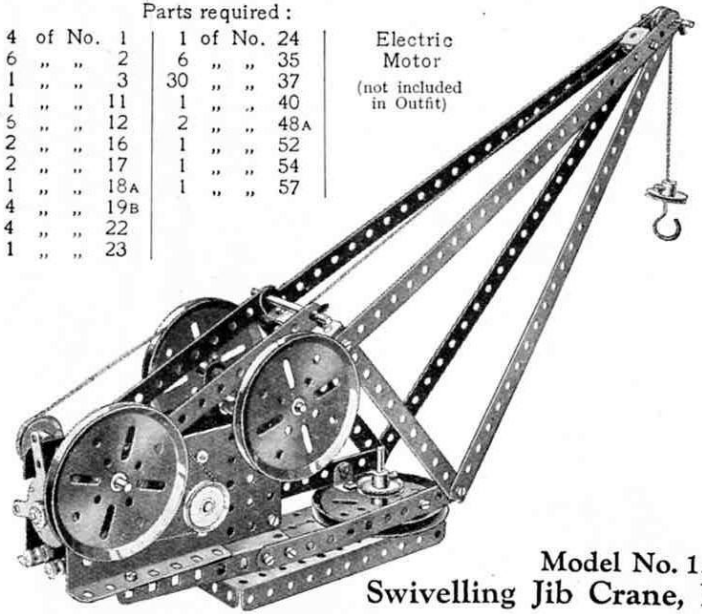


Model No. 1.62 Swivelling Jib Crane, Electric

Parts required :

4	of	No.	1	1	of	No.	24
6	„	„	2	6	„	„	35
1	„	„	3	30	„	„	37
1	„	„	11	1	„	„	40
5	„	„	12	2	„	„	48A
2	„	„	16	1	„	„	52
2	„	„	17	1	„	„	54
1	„	„	18A	1	„	„	57
4	„	„	19B				
4	„	„	22				
1	„	„	23				

Electric Motor (not included in Outfit)



Model No. 1.64 Overhead Crane

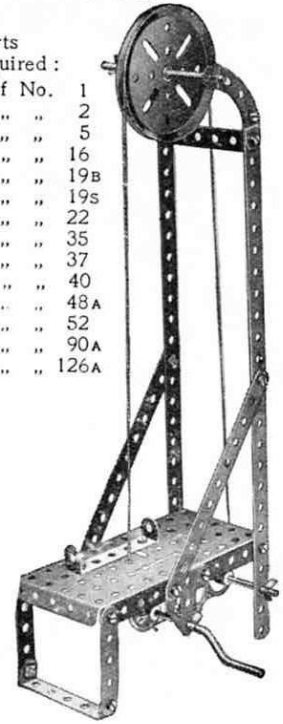
Parts required :

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

Model No. 1.66 Band Saw

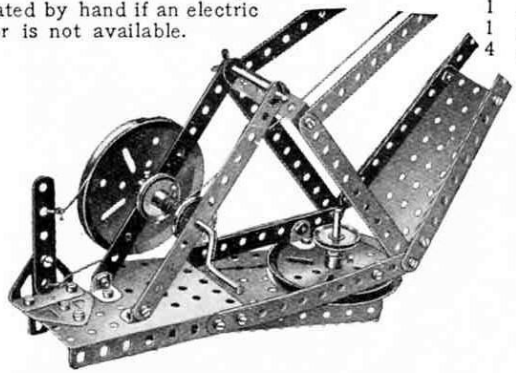
Parts required :

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



Model No. 1.63 Swivelling Jib Crane, Hand Operated

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.



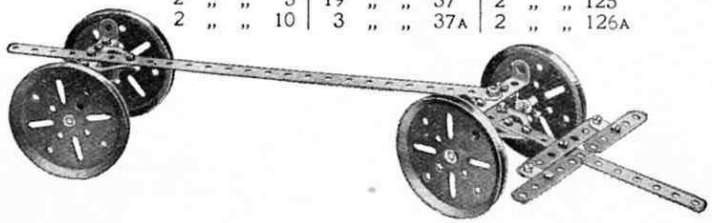
Parts required :

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

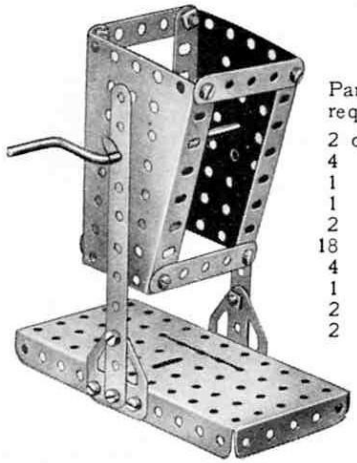
Model No. 1.65 Timber Drag

Parts required :

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



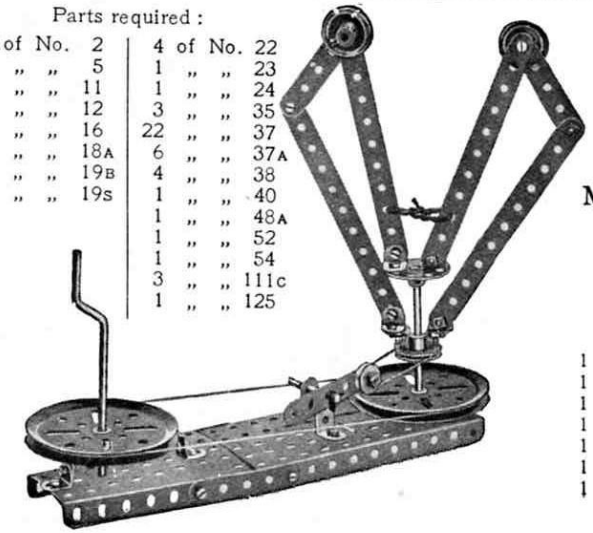
Model No. 1.67 Butter Churn



Parts required :

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

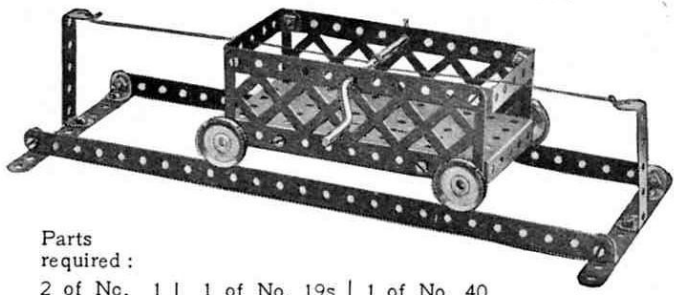
Model No. 1.68 Inverted Centrifugal Governor



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

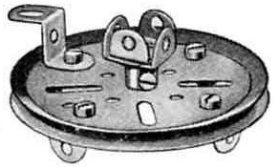
Model No. 1.69 Cable Railway



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

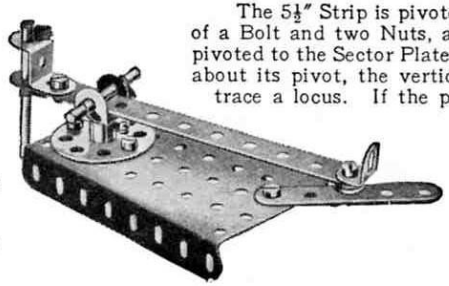
Model No. 1.70 Candle Stick



Parts required :

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

Model No. 1.71 Machine for Tracing a Locus

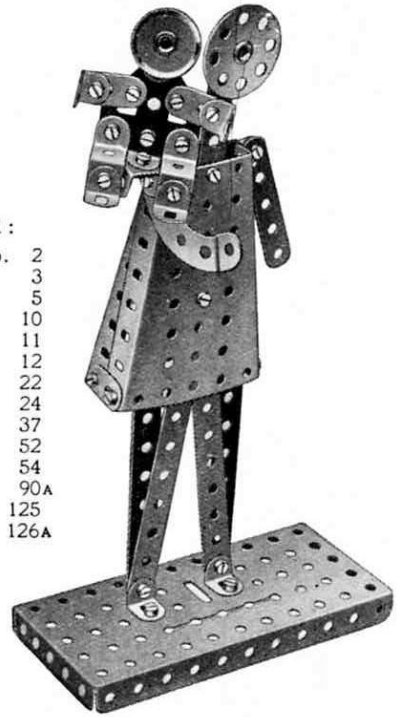


Parts required :

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

The 5½″ Strip is pivoted to the 2½″ Strip by means of a Bolt and two Nuts, and the 2½″ Strip is similarly pivoted to the Sector Plate. By revolving the 2½″ Strip about its pivot, the vertical 1½″ Rod can be made to trace a locus. If the positions of the 1½″ Rod and the 5½″ 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.

Model No. 1.72 Man and Boy



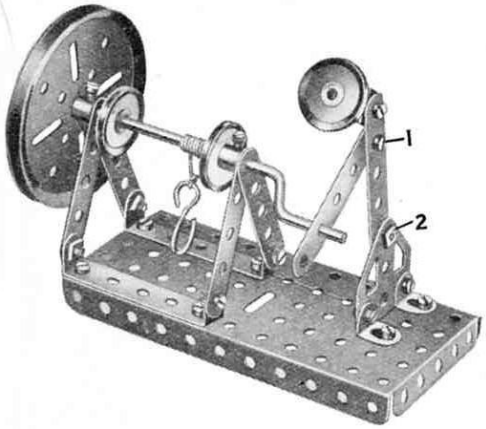
Parts required :

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

Model No. 1.73 Windlass

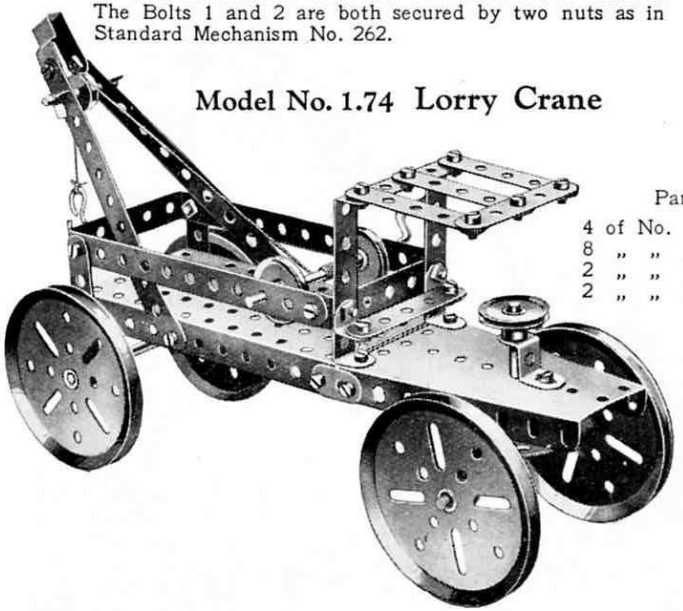
Parts required :

6	of	No.	5
3	„	„	12
1	„	„	19B
1	„	„	19S
3	„	„	22
15	„	„	37
4	„	„	37A
1	„	„	40
2	„	„	48A
1	„	„	52
1	„	„	57
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



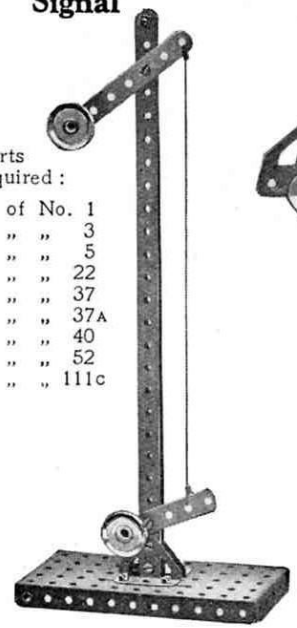
Parts required :

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	„	„	57
				2	„	„	125

Model No. 1.75 Signal

Parts required :

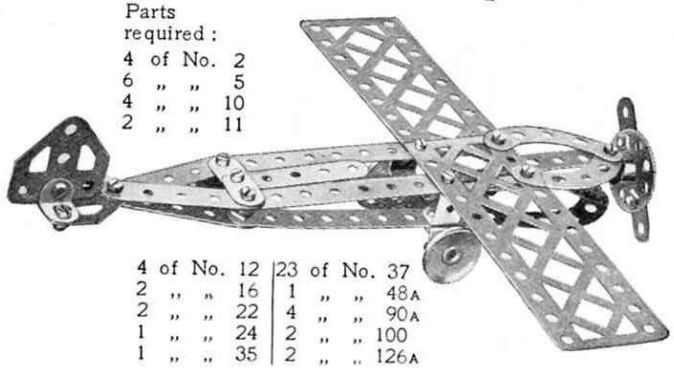
2	of	No.	1
1	„	„	3
1	„	„	5
2	„	„	22
11	„	„	37
2	„	„	37A
1	„	„	40
1	„	„	52
2	„	„	111c



Model No. 1.76 Aeroplane

Parts required :

4	of	No.	2
6	„	„	5
4	„	„	10
2	„	„	11

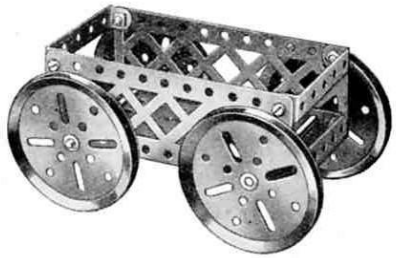


4	of	No.	12	23	of	No.	37
2	„	„	16	1	„	„	48A
2	„	„	22	4	„	„	90A
1	„	„	24	2	„	„	100
1	„	„	35	2	„	„	126A

Model No. 1.77 Truck

Parts required :

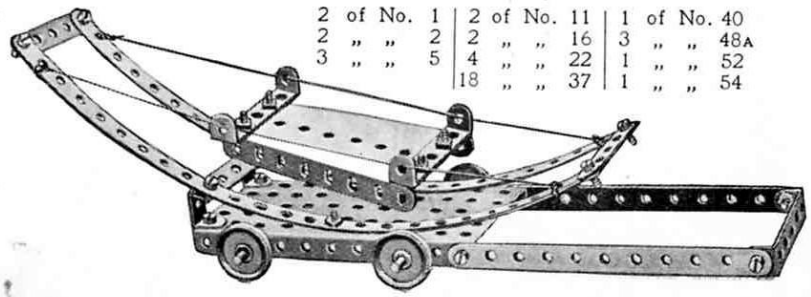
2	of	No.	16
4	„	„	19B
8	„	„	37
2	„	„	48A
1	„	„	52
2	„	„	100



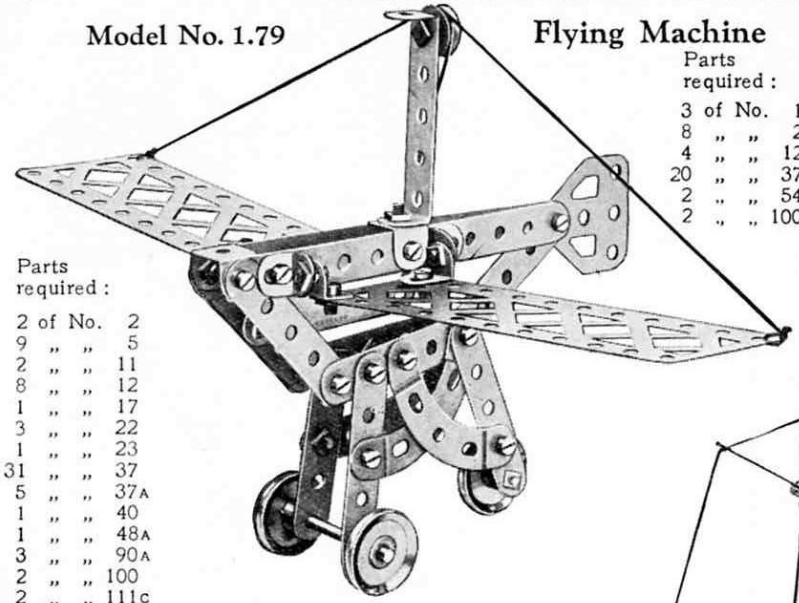
Model No. 1.78 Mountain Transport

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



Model No. 1.79 Flying Machine



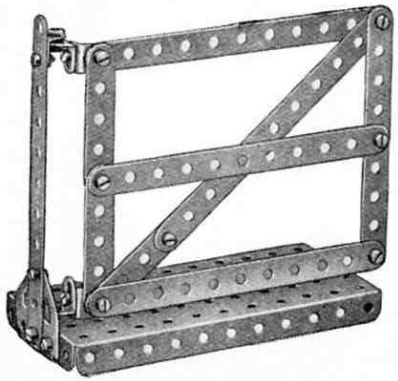
Parts required :

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

Parts required :

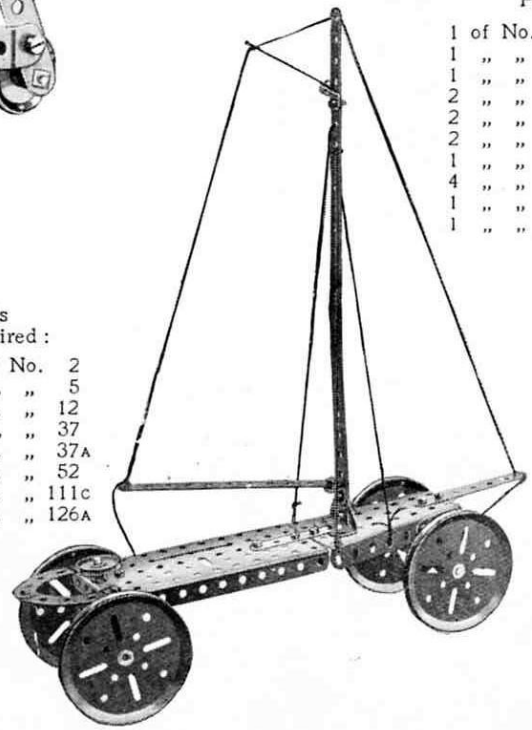
2	of	No.	2
9	„	„	5
2	„	„	11
8	„	„	12
1	„	„	17
3	„	„	22
1	„	„	23
31	„	„	37
5	„	„	37A
1	„	„	40
1	„	„	48A
3	„	„	90A
2	„	„	100
2	„	„	111c
1	„	„	126A

Model No. 1.80 Gate

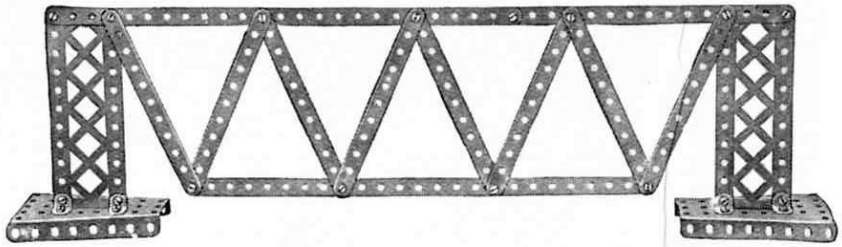


Parts required :

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



Model No. 1.81 Inverted Truss

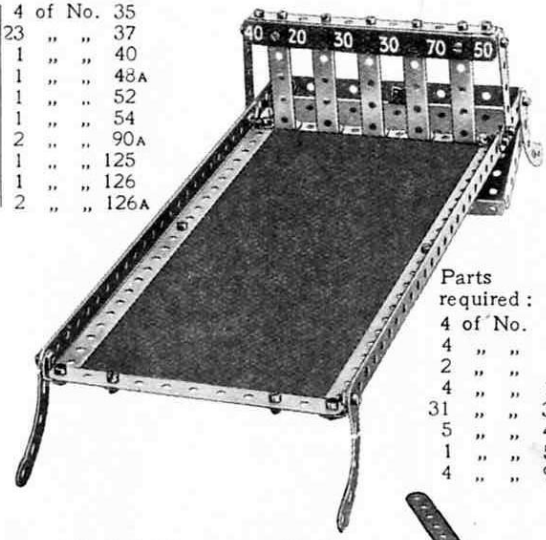


Model No. 1.82 Sand Yacht

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
1	„	„	3	1	„	„	12
				6	of	No.	37

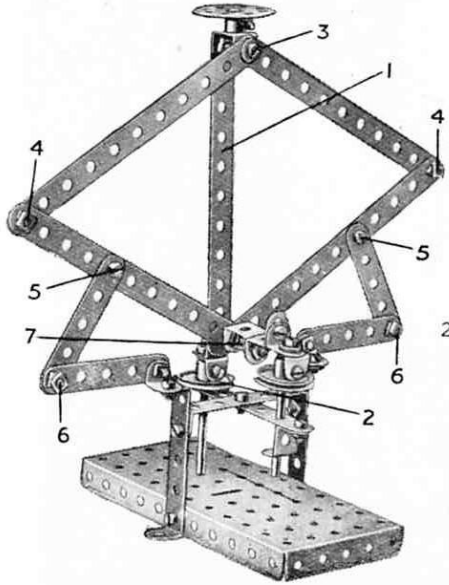
Model No. 1.85 Bow Girder

Parts required :

2 of No.	1	6 of No.	37
4 „ „	12	1 „ „	40
2 of No.	54		

Model No. 1.86 Double-Action Pump

The 5½″ 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.



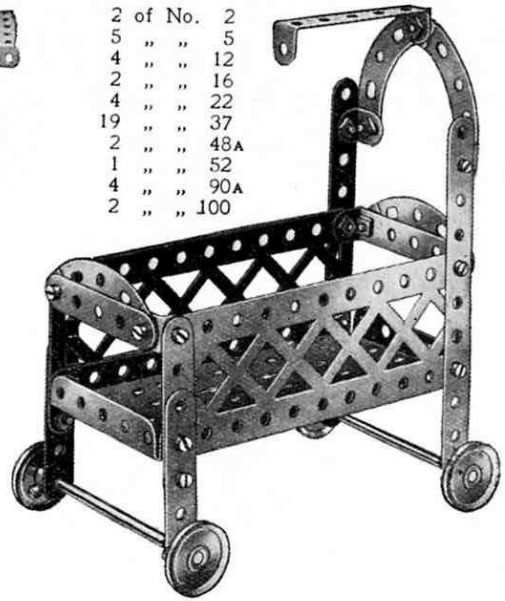
Parts required :

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 :

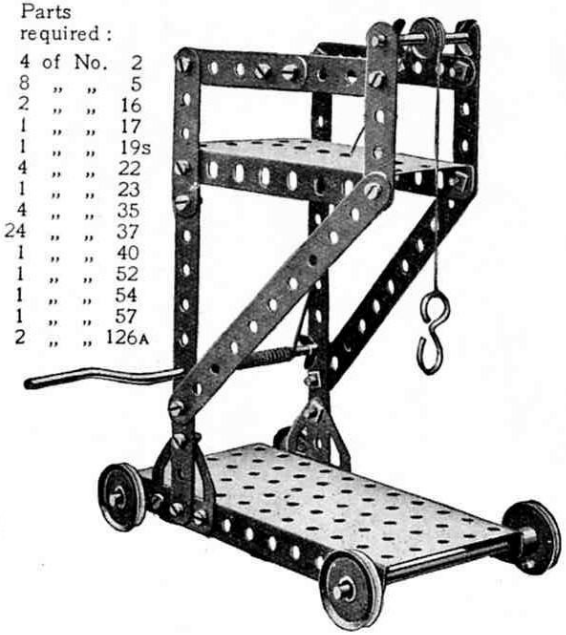
2	of No.		2
5	„	„	5
4	„	„	12
2	„	„	16
4	„	„	22
19	„	„	37
2	„	„	48A
1	„	„	52
4	„	„	90A
2	„	„	100



Model No. 1.88 Tower Wagon

Parts required :

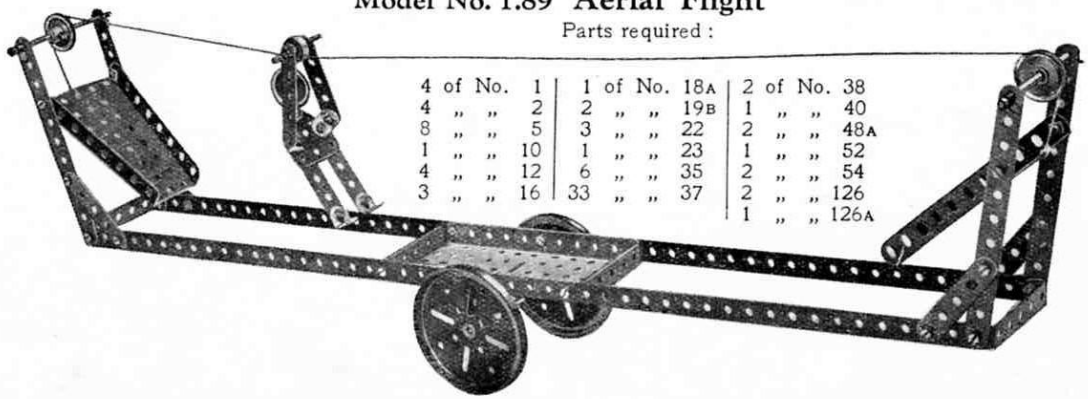
4	of No.		2
8	„	„	5
2	„	„	16
1	„	„	17
1	„	„	19S
4	„	„	22
1	„	„	23
4	„	„	35
24	„	„	37
1	„	„	40
1	„	„	52
1	„	„	54
1	„	„	57
2	„	„	126A



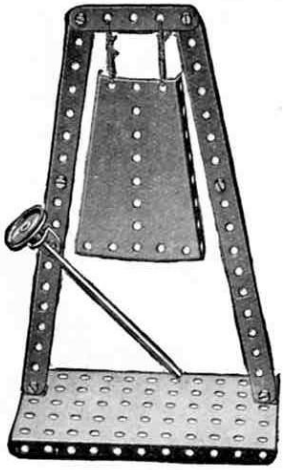
Model No. 1.89 Aerial Flight

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



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

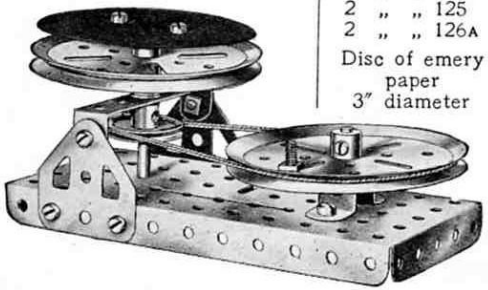
1 of No. 54

Model No. 1.91 Emery Wheel

Parts required :

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

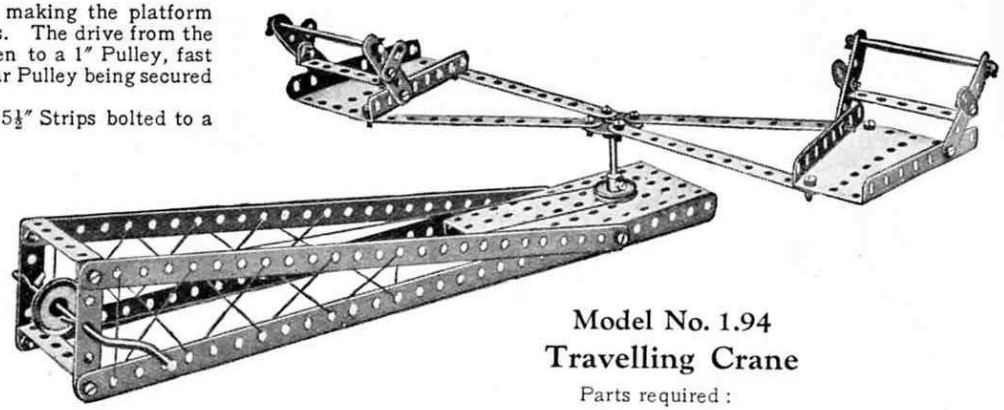
The arms are formed of four 5½″ Strips bolted to a Bush Wheel fast on the 2″ Rod.

Parts required :

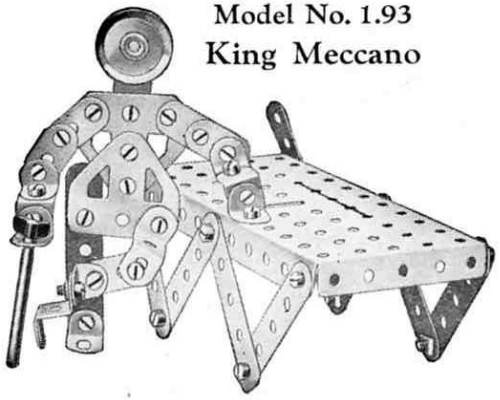
4	of No.	1	3	of No.	22
4	„ „	2	1	„ „	24
6	„ „	5	6	„ „	35
4	„ „	10	22	„ „	37
2	„ „	16	1	„ „	40
1	„ „	17	4	„ „	48A
1	„ „	19s	1	„ „	52

2 of No. 54

Model No. 1.92 Roundabout



Model No. 1.93 King Meccano



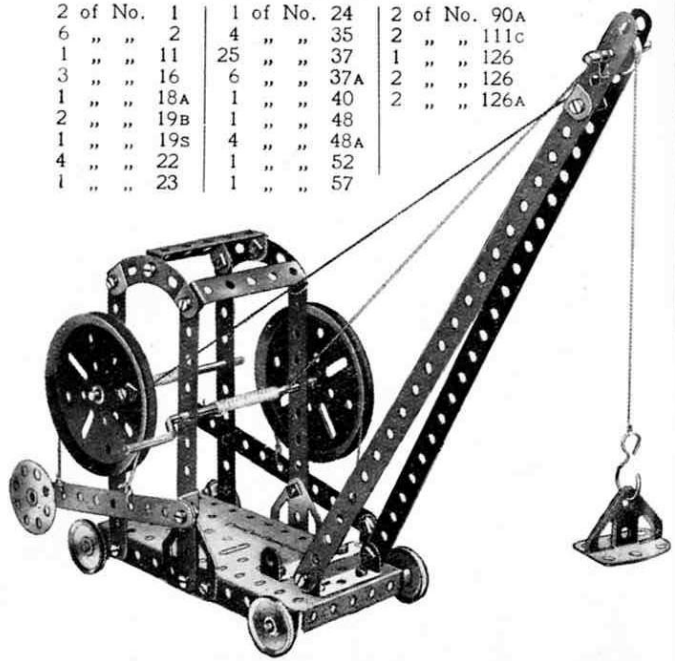
Parts required :

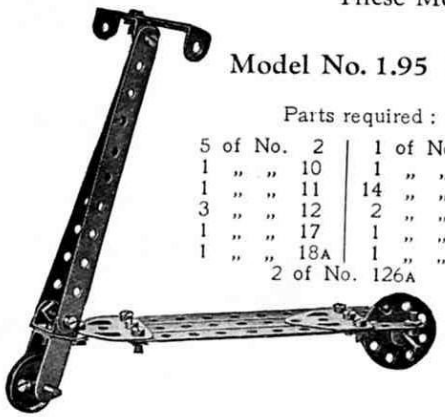
1	of No.	3	1	of No.	35
9	„ „	5	30	„ „	37
5	„ „	10	1	„ „	52
8	„ „	12	1	„ „	111c
1	„ „	17	2	„ „	125
1	„ „	22	2	„ „	126A

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	„ „	126
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	„ „	57			





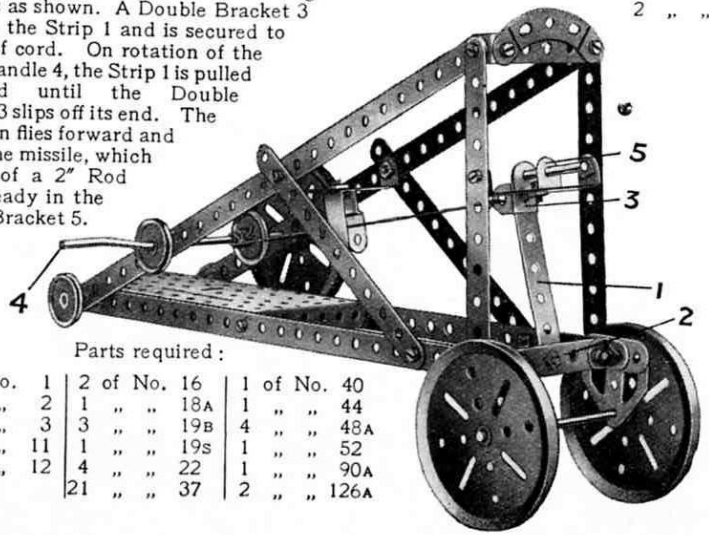
Model No. 1.95 Scooter

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 3½″ 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.

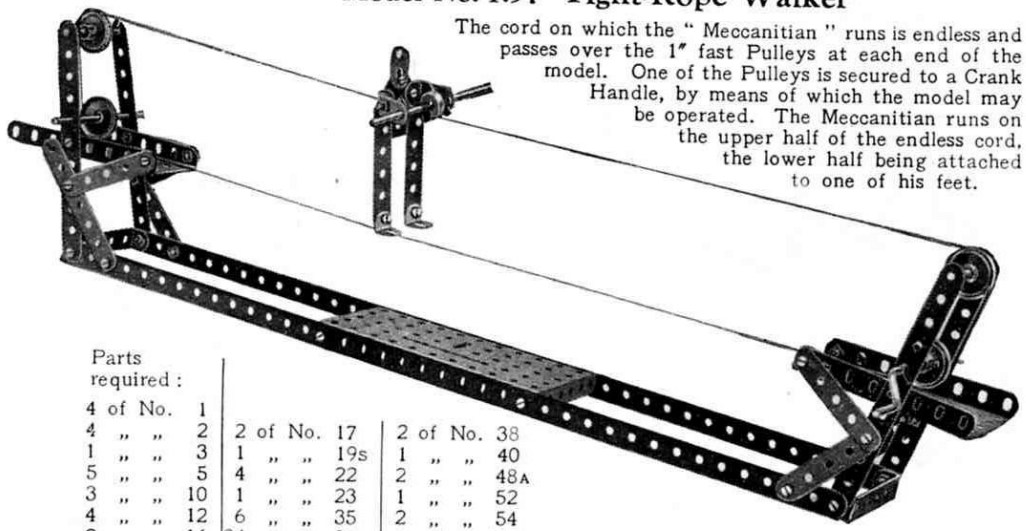


Parts required :

4	of No.	1	2	of No.	16	1	of No.	40
4	„ „	2	1	„ „	18A	1	„ „	44
1	„ „	3	3	„ „	19B	4	„ „	48A
2	„ „	11	1	„ „	19S	1	„ „	52
2	„ „	12	4	„ „	22	1	„ „	90A
			21	„ „	37	2	„ „	126A

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.



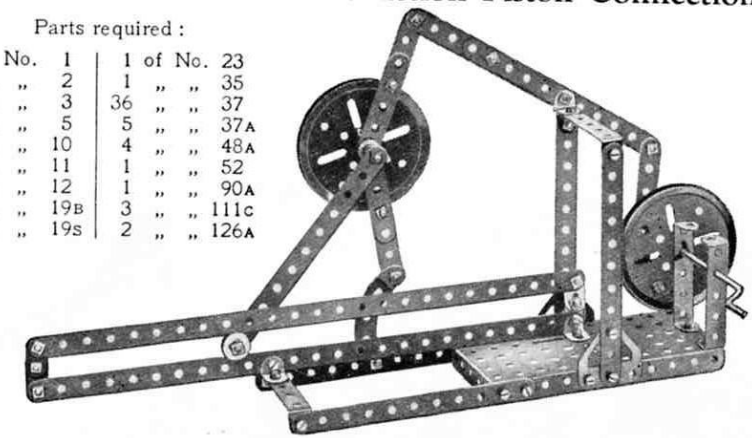
Parts required :

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

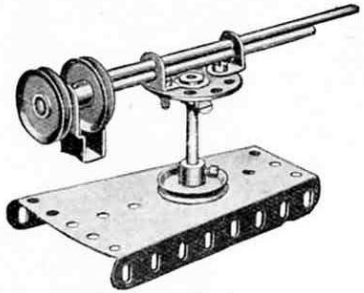
Model No. 1.98 Double-Action Piston Connection

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	„ „	111C			
1	„ „	19S	2	„ „	126A			



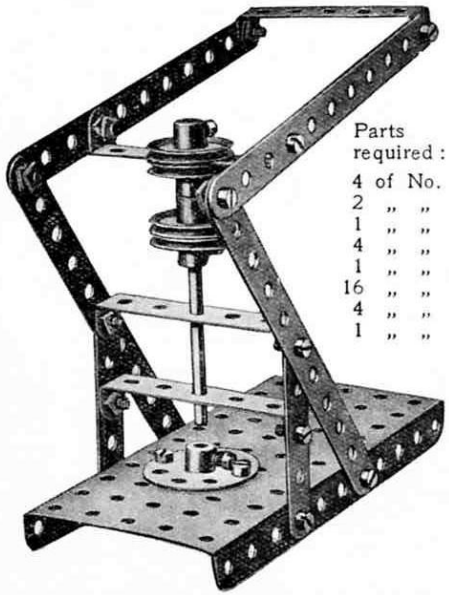
Model No. 1.99 Quick-Firing Gun



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



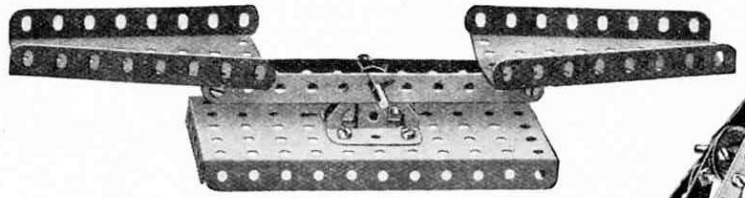
Parts required :

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

Model No. 1.101 Scales

Parts required :

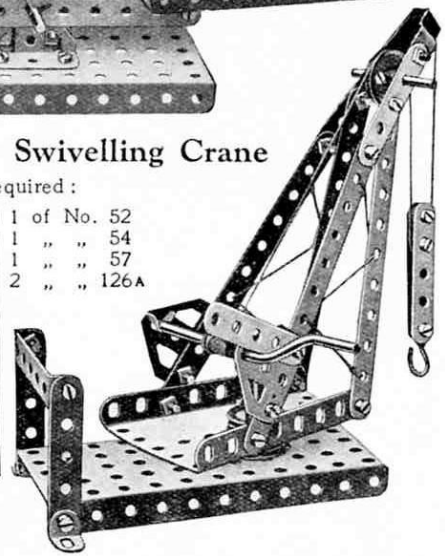
2	of No.	2
2	„ „	11
1	„ „	18A
2	„ „	35
8	„ „	37
1	„ „	52
2	„ „	54
2	„ „	126



Model No. 1.103 Swivelling Crane

Parts required :

4	of No.	2	1	of No.	52
7	„ „	5	1	„ „	54
2	„ „	12	1	„ „	57
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. 1.102 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			

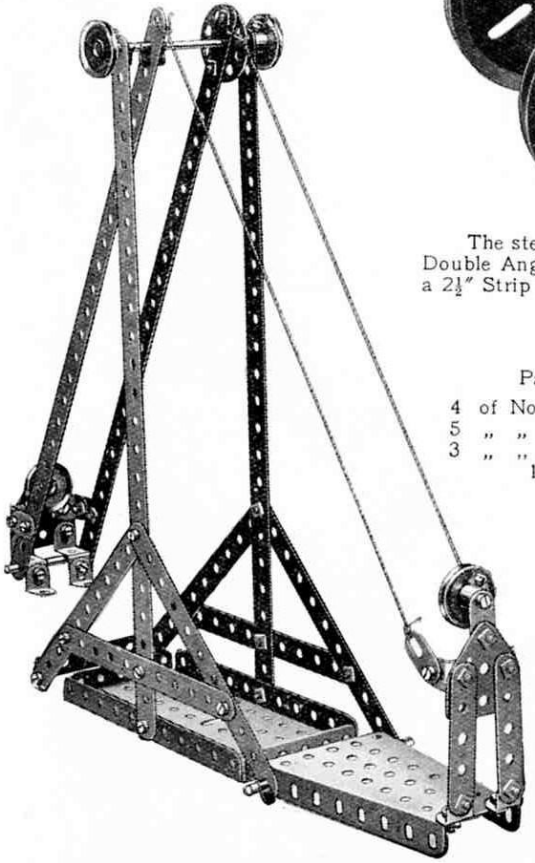
The trolley is operated by means of a cord that is wound round the 1½" Axle Rod carrying the Bush Wheel, both ends of the cord being secured to the trolley. The bucket is suspended from a cord that winds on to the Crank Handle, and it is tipped by lowering it until a short cord that is attached to the bottom of the bucket and to the trolley, becomes taut. Further lowering causes the bucket to swing over.

Model No. 1.104 Boy on Swing

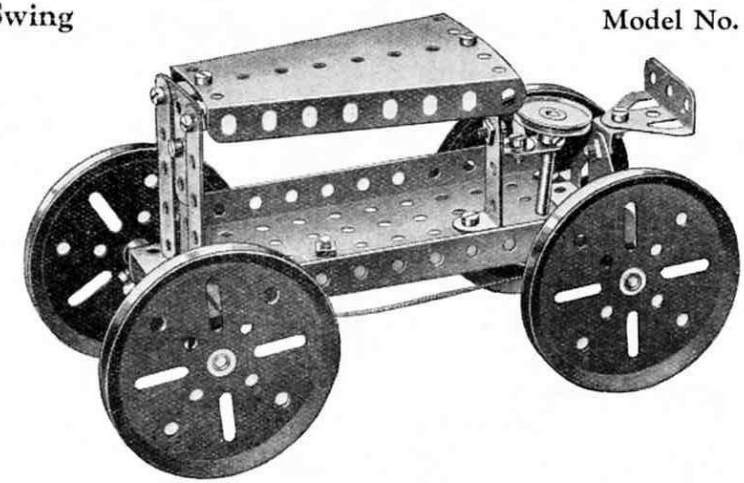
Parts required :

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

2 of No. 126A



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 2½" × ½" Double Angle Strip 1, which is mounted pivotally by a Bolt and two Nuts (S.M. 262) to a 2½" Strip 2 secured to the 5½" × 2½" Flanged Plate.

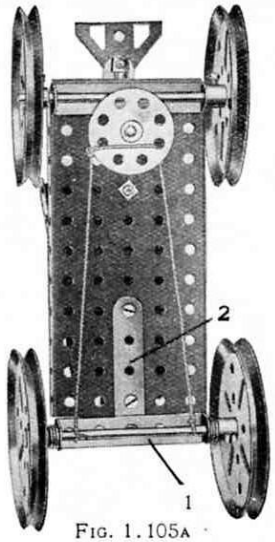


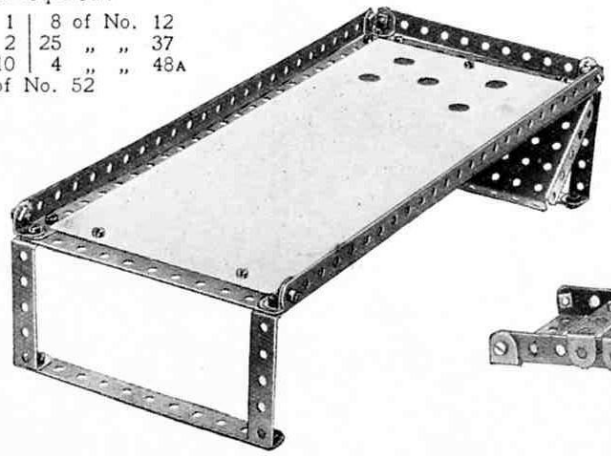
FIG. 1.105A

Model No. 1.106 Bagatelle Table

Parts required :

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

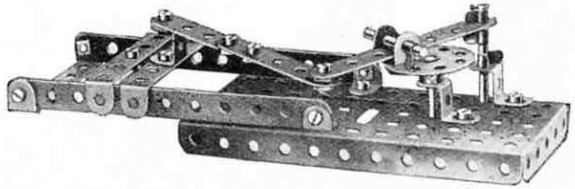
1 of No. 52



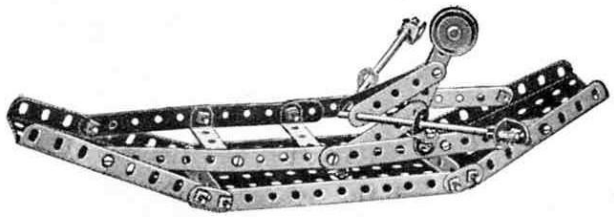
Model No. 1.107 Quick Return Device

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



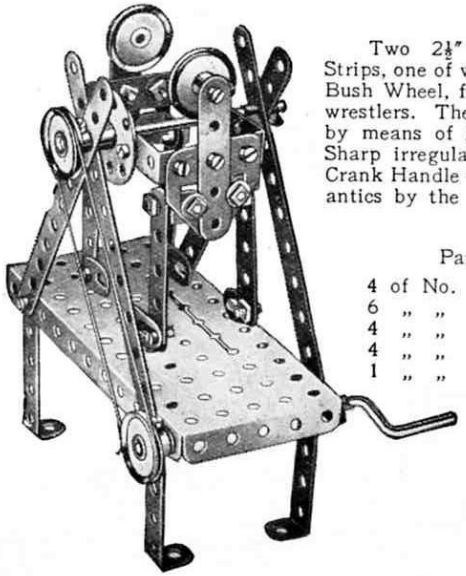
Model No. 1.108 Rowing Boat



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.

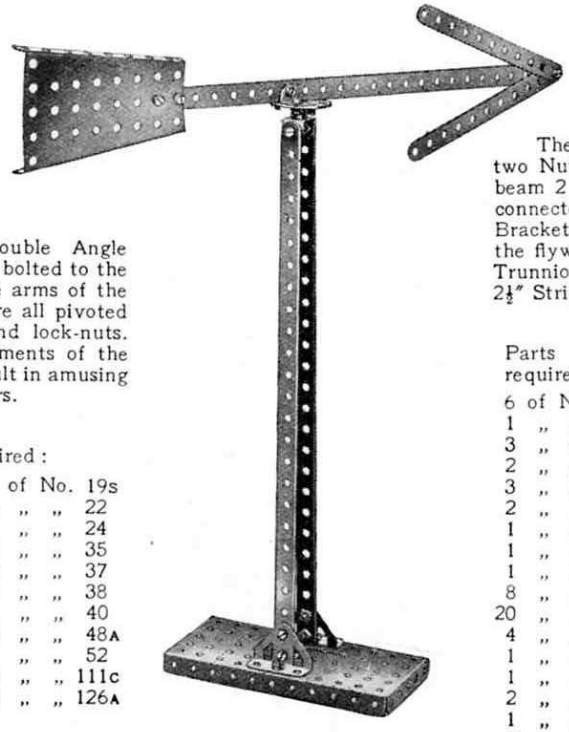
Parts required :

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

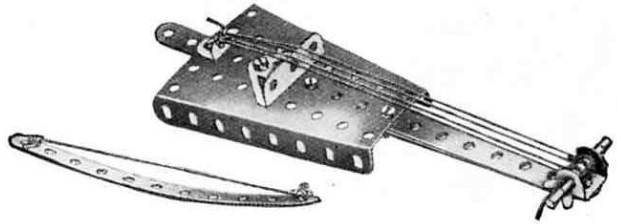
Model No. 1.110 Weather Vane

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 :

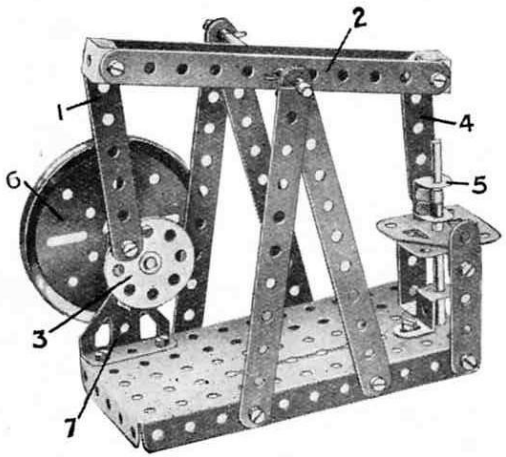
4	of No.	2	1	of No.	12	1	of No.	40
1	„ „	5	1	„ „	18A	1	„ „	54
1	„ „	11	2	„ „	35	1	„ „	126
			5	„ „	37			

Model No. 1.112 Beam Engine

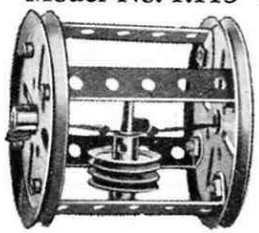
The connecting Strip 1 is attached pivotally by a Bolt and two Nuts (Standard Mechanism No. 262) to one end of the beam 2 and to the Bush Wheel 3. The Strip 4 is similarly connected to the other end of the beam 2 and to the Double Bracket 5 attached to the piston rod. The short rod carrying the flywheel 6 is journalled 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
1	„ „	3
3	„ „	5
2	„ „	11
3	„ „	12
2	„ „	16
1	„ „	17
1	„ „	19B
1	„ „	24
8	„ „	35
20	„ „	37
4	„ „	37A
1	„ „	48
1	„ „	52
2	„ „	125
1	„ „	126
2	„ „	126A



Model No. 1.113 Cum Bak

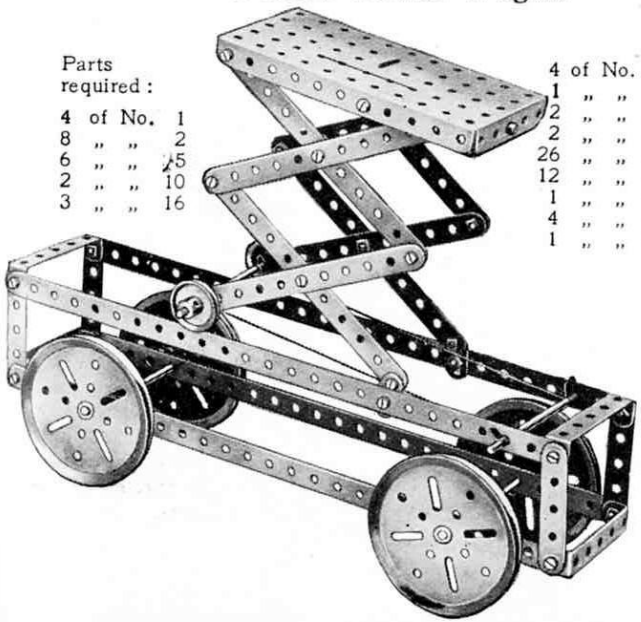


Parts required :

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.

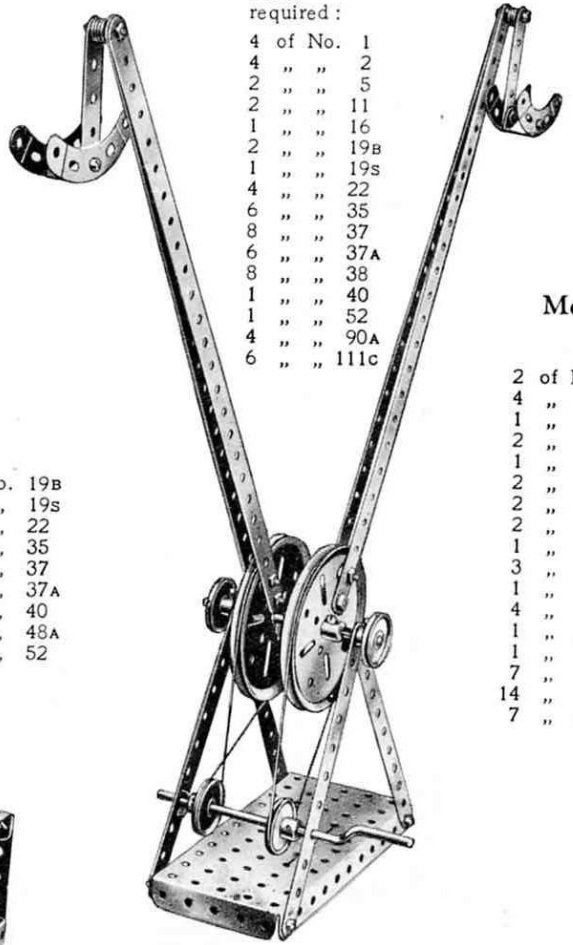
Model No. 1.114 Tower Wagon



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

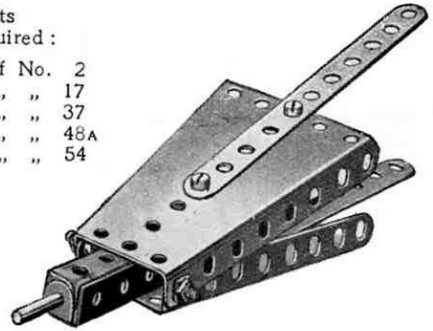
Model No. 1.115 Flip Flap



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



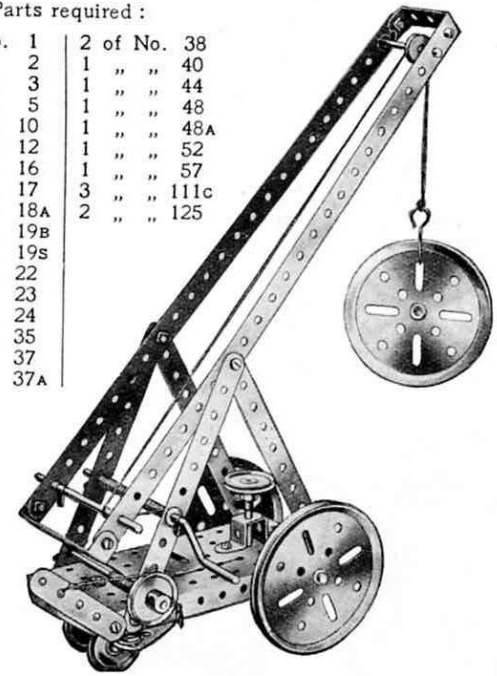
Parts required :

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

Model No. 1.117 Mobile Crane

Parts required :

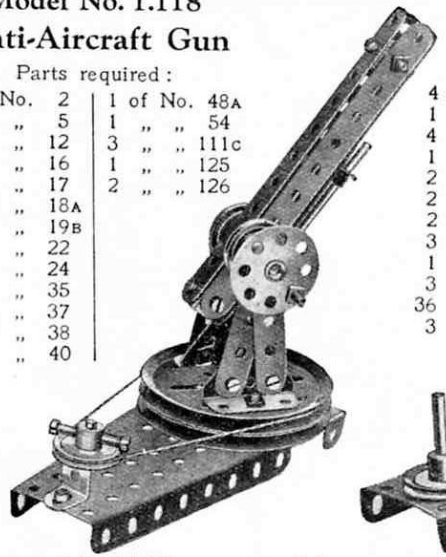
2	of	No.	1
4	„	„	2
1	„	„	3
2	„	„	5
1	„	„	10
2	„	„	12
2	„	„	16
2	„	„	17
1	„	„	18A
3	„	„	19B
1	„	„	19S
4	„	„	22
1	„	„	23
1	„	„	24
7	„	„	35
14	„	„	37
7	„	„	37A
2	of	No.	38
1	„	„	40
1	„	„	44
1	„	„	48
1	„	„	48A
1	„	„	52
1	„	„	57
3	„	„	111C
2	„	„	125



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			

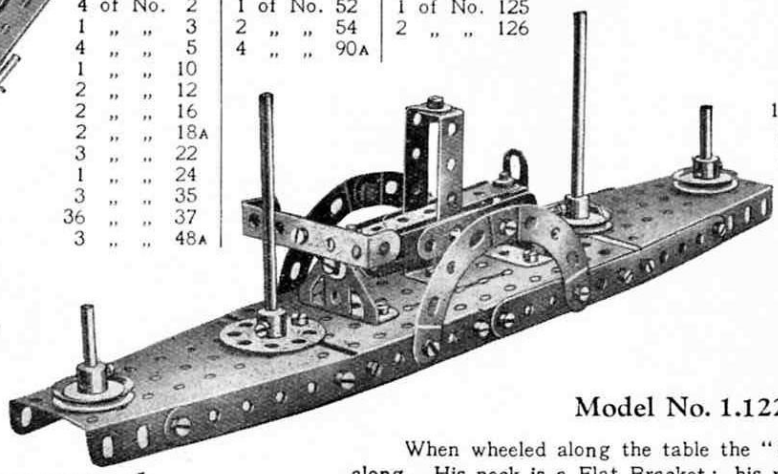


Model No. 1.120 Paddle Steamer

Parts required :

4	of No.	2	1	of No.	52
1	„ „	3	2	„ „	54
4	„ „	5	4	„ „	90A
1	„ „	10			
2	„ „	12			
2	„ „	16			
2	„ „	18A			
3	„ „	22			
1	„ „	24			
3	„ „	35			
36	„ „	37			
3	„ „	48A			

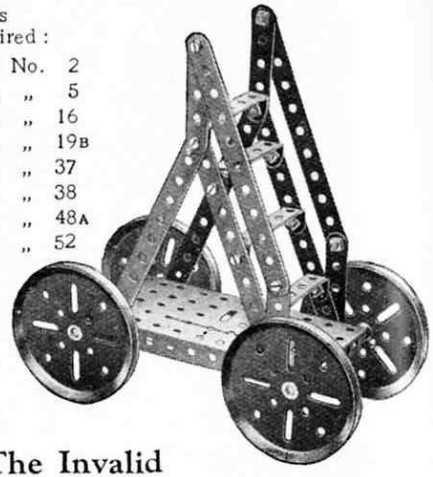
1	of No.	125
2	„ „	126



Model No. 1.121 Ladder on Wheels

Parts required :

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

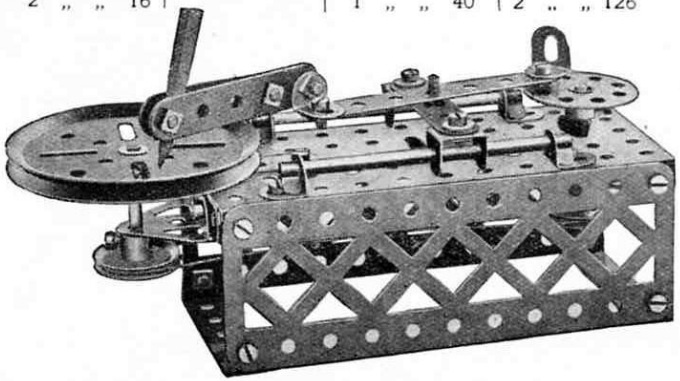


Model No. 1.119 Meccanograph

Parts required :

1	of No.	3	2	of No.	17	5	of No.	35
4	„ „	5	1	„ „	19B	21	„ „	37
2	„ „	11	2	„ „	22	2	„ „	37A
6	„ „	12	1	„ „	24	2	„ „	38
2	„ „	16				1	„ „	40

2	of No.	48A
1	„ „	52
2	„ „	100
3	„ „	111C
2	„ „	126

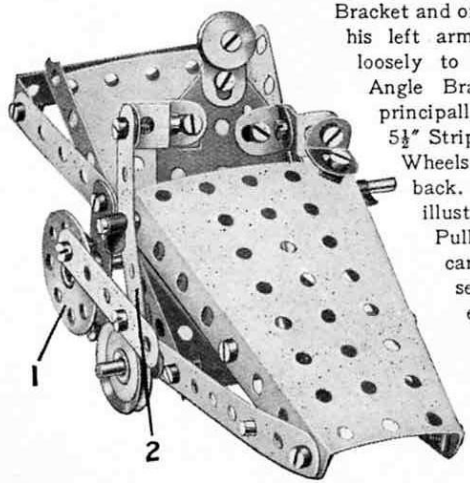


Model No. 1.122 The Invalid

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 ½" 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 5½" 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 2½" Strip is pivoted at one end to this Bush Wheel and at the other end to a second 2½" Strip 2, which, rocking about an axle journalled through its centre hole, is again pivoted to the invalid's hands.

Parts required :

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



Model No. 1.123 Bow and Arrow

Parts required :

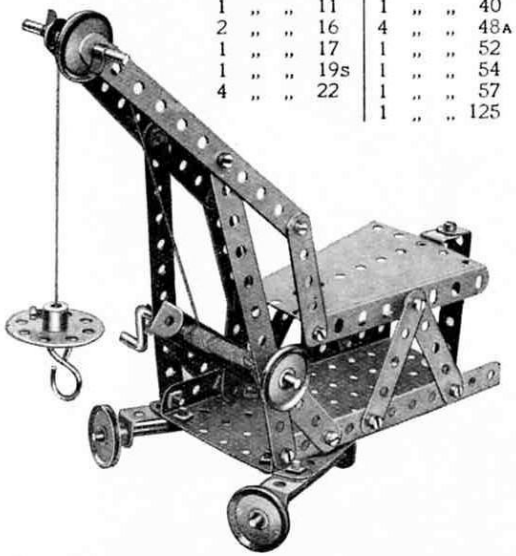
1 of No. 1 | 1 of No. 16
1 of No. 40

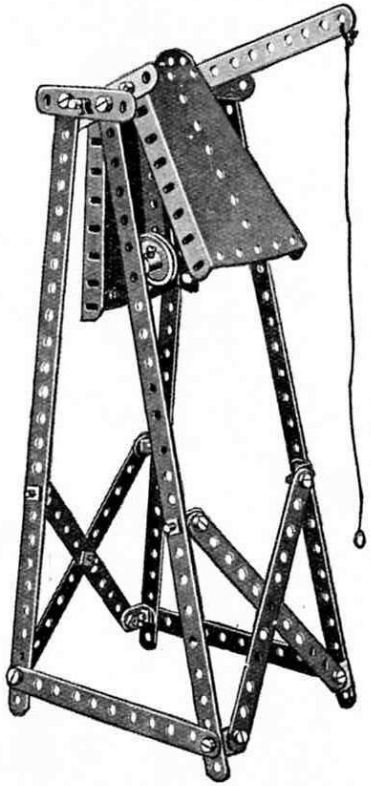
Model No. 1.124 Rotating Crane

The running wheels of this crane are journalled 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 5½" Strips and is connected by 2½" 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 Strip mounted on the Crank Handle and connected pivotally to the plate by means of a 2½" 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	„	„ 57
			1	„	„ 125





Model No. 1.125 Fire Alarm

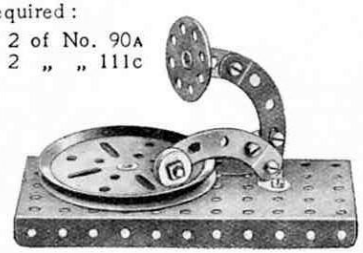
Parts required :

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. 1.126 Gramophone

Parts required :

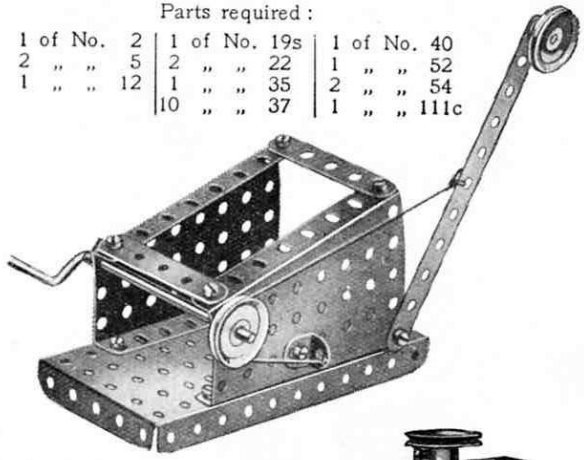
2	of	No. 10	2	of	No. 90A
1	„	„ 12	2	„	„ 111c
1	„	„ 19B			
1	„	„ 23			
1	„	„ 24			
6	„	„ 37			
1	„	„ 38			
1	„	„ 52			



Model No. 1.127 Band Brake

Parts required :

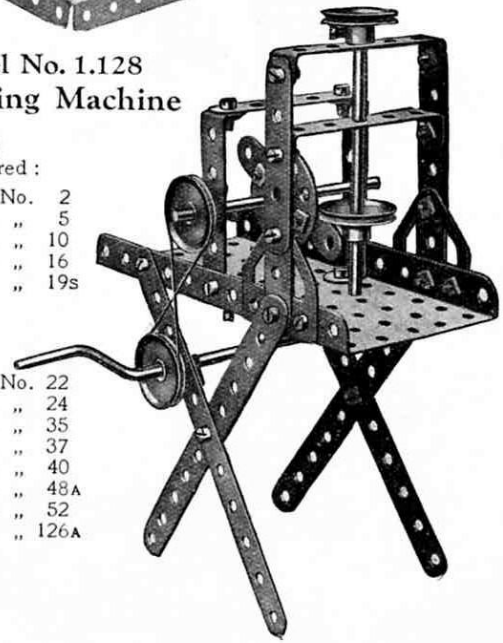
1	of	No. 2	1	of	No. 19s	1	of	No. 40
2	„	„ 5	2	„	„ 22	1	„	„ 52
1	„	„ 12	1	„	„ 35	2	„	„ 54
			10	„	„ 37	1	„	„ 111c



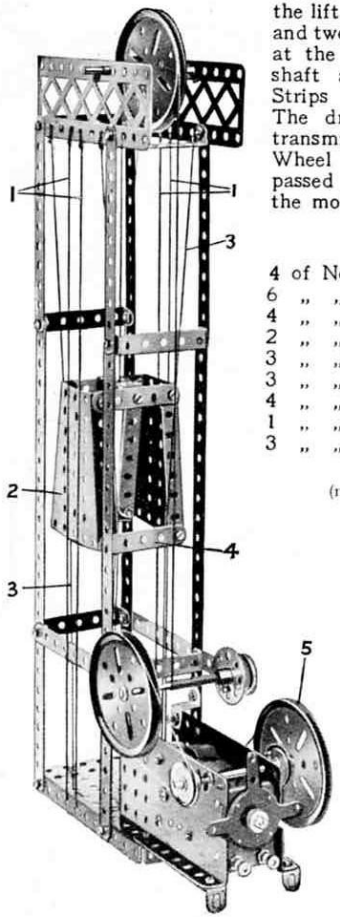
Model No. 1.128 Stamping Machine

Parts required :

4	of	No. 2	4	of	No. 22
5	„	„ 5	1	„	„ 24
2	„	„ 10	2	„	„ 35
2	„	„ 16	22	„	„ 37
1	„	„ 19s	1	„	„ 40
			4	„	„ 48A
			1	„	„ 52
			2	„	„ 126A



Model No. 1.129 Electric Elevator



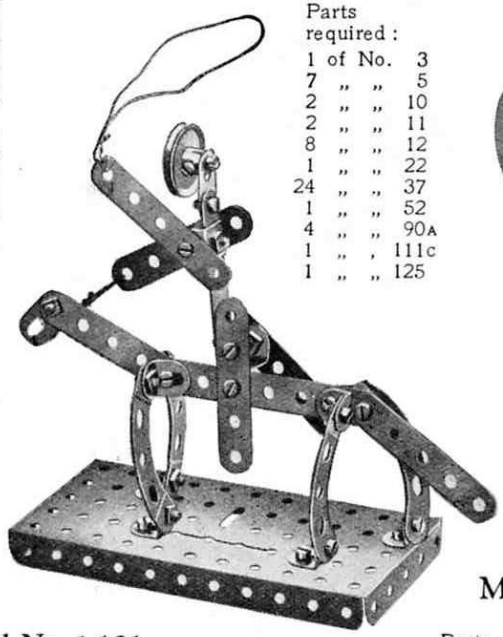
Two pairs of cords 1 are stretched tightly on each side of the lift shaft to guide the cage 2 and two other cords 3 are secured at the top and bottom of the shaft and passed behind 2½" Strips 4 bolted to the cage. The drive from the motor is transmitted to the 3" Pulley Wheel 5 by means of a cord passed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

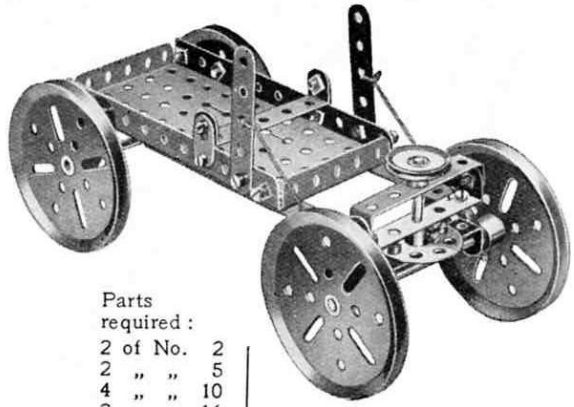
Model No. 1.130 Mounted Cowboy



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

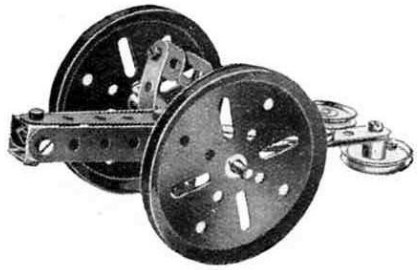
Model No. 1.132 Coaster



Parts required :

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

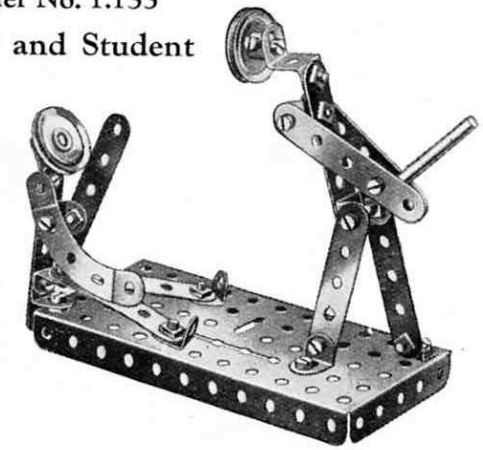
Model No. 1.131 Howitzer



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

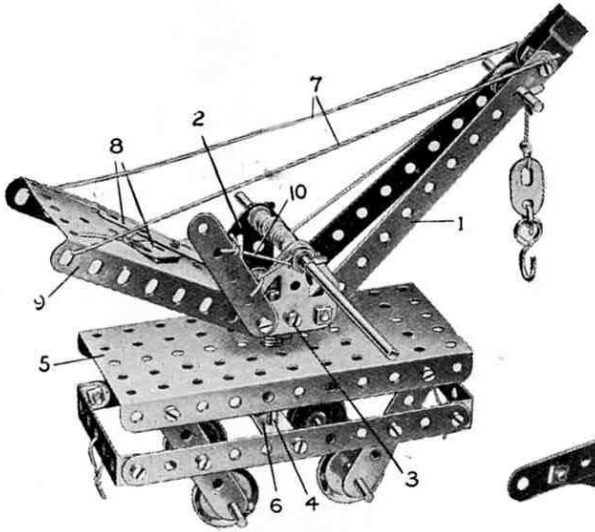


Parts required :

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 at 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.

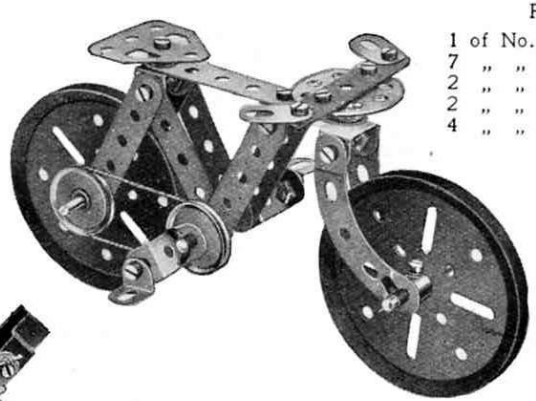


Parts required :

4	of	No.	2	1	of	No.	19s
7	„	„	5	4	„	„	22
1	„	„	10	1	„	„	23
2	„	„	12	1	„	„	24
2	„	„	16	5	„	„	35
2	„	„	17	27	„	„	37
				6	„	„	38

1	of	No.	40
1	„	„	44
3	„	„	48A
1	„	„	52
1	„	„	54
1	„	„	57
2	„	„	126A

Model No. 1.135 Bicycle



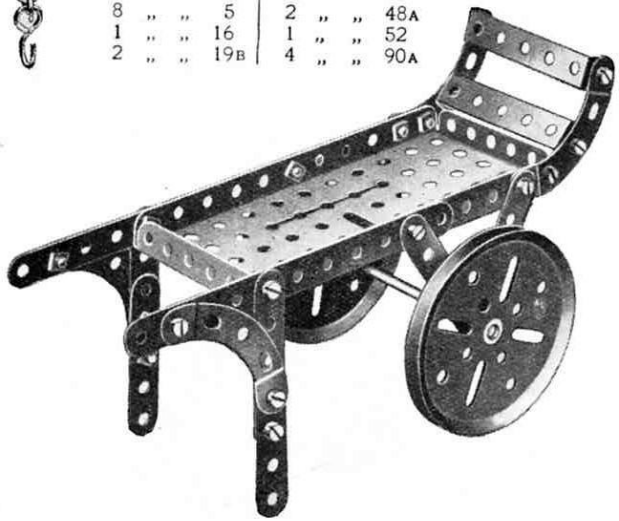
Parts required :

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

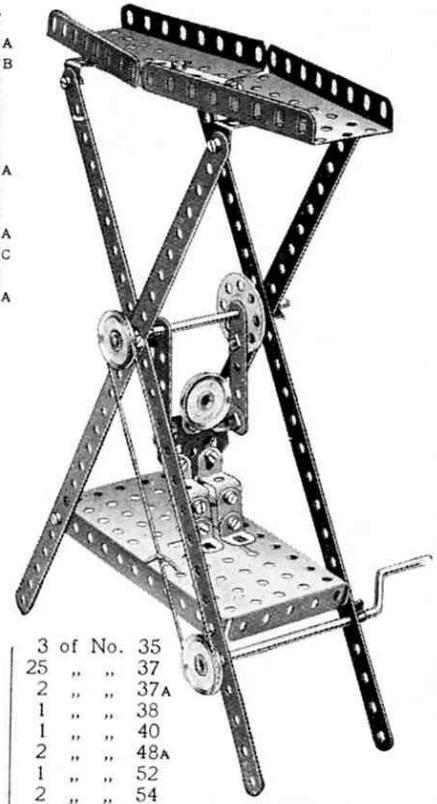
Model No. 1.136 Luggage Truck

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

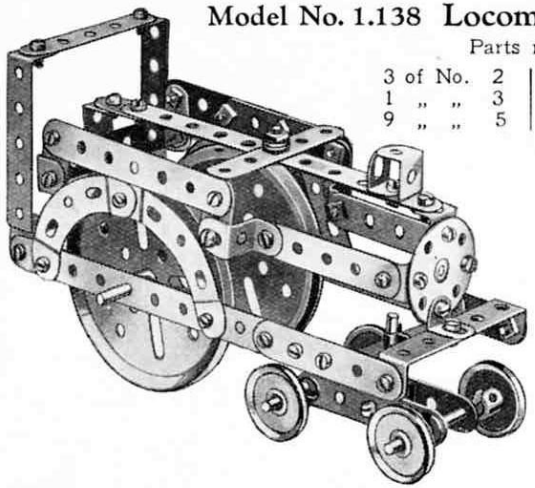


Parts required :

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

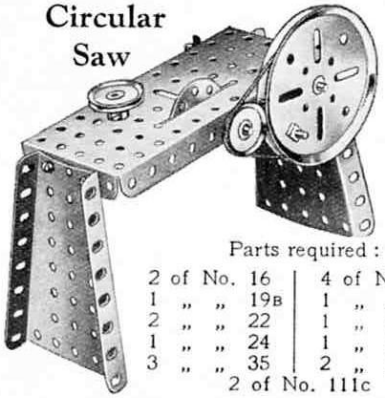


Parts required :

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 1½″ Rod journalled in a Double Bracket, which is secured in the centre of the bogie, and in a 2½″ × ½″ 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.

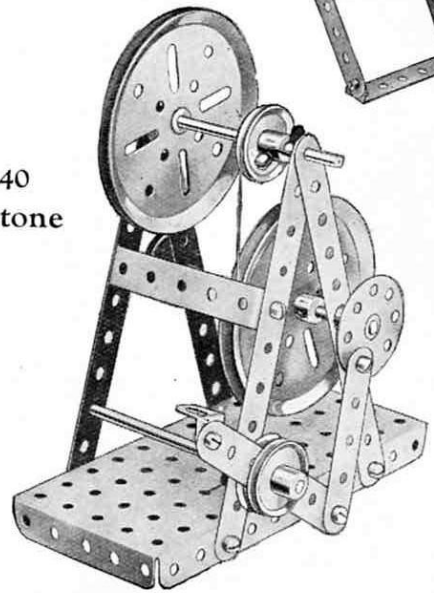
Model No. 1.139 Circular Saw



Parts required :

2	of No.	16	4	of No.	37
1	„ „	19B	1	„ „	37A
2	„ „	22	1	„ „	40
1	„ „	24	1	„ „	52
3	„ „	35	2	„ „	54
			2	of No.	111c

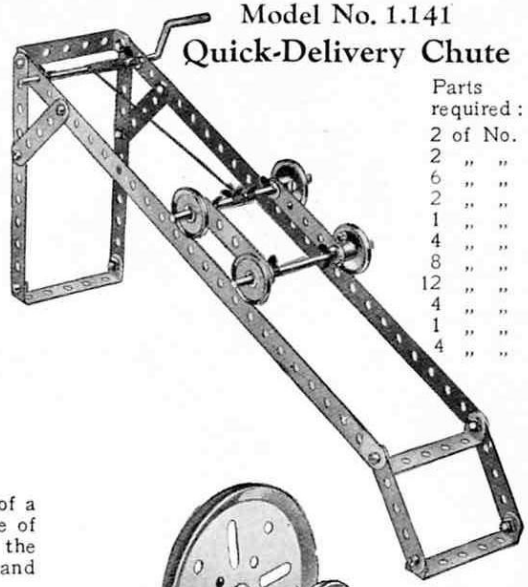
Model No. 1.140 Treadle Grindstone



Parts required :

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

Model No. 1.141 Quick-Delivery Chute

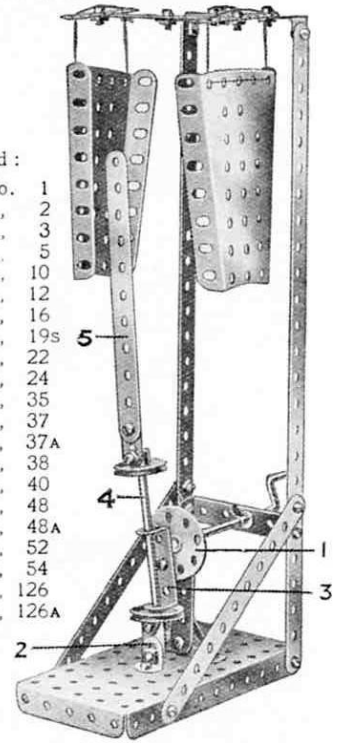


Parts required :

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

Model No. 1.142 Mechanical Gong

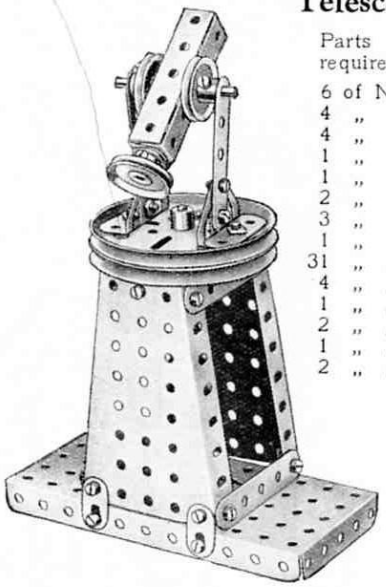
A Flat Bracket is connected pivotally to the base at 2 and is clamped rigidly to a 1″ Pulley Wheel secured to the Rod 4. The latter passes through the 1½″ Double Angle Strip 3 and carries at its upper end another Pulley to which is rigidly secured the striking arm 5. The Double Angle Strip 3 is pivoted to the Bush Wheel 1.



Parts required :

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

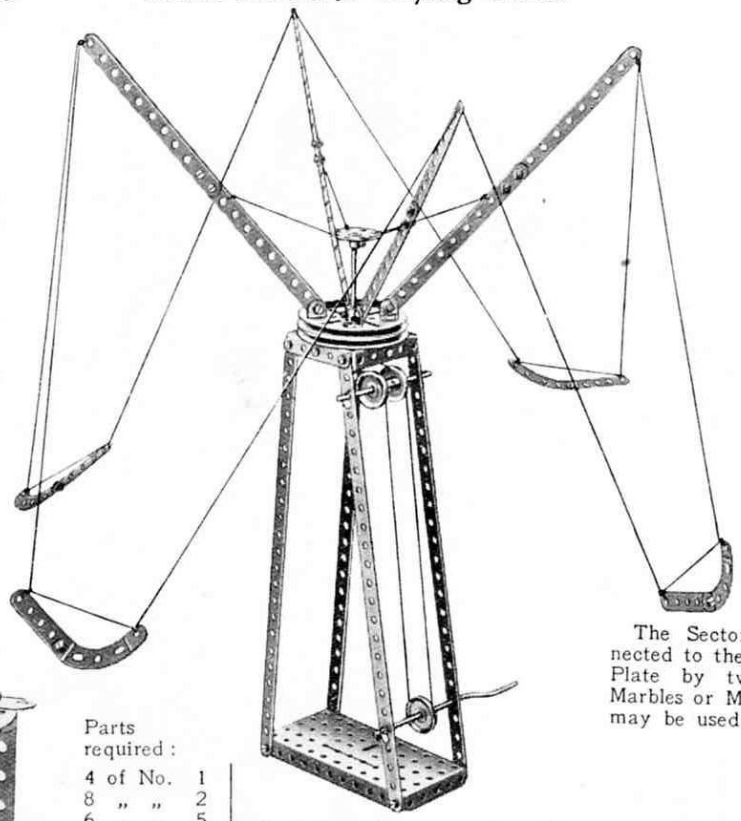
Model No. 1.143 Telescope



Parts 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

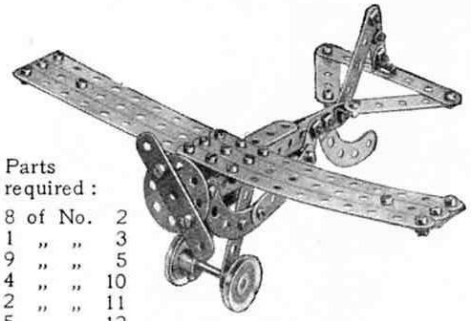
Model No. 1.145 Flying Boats



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

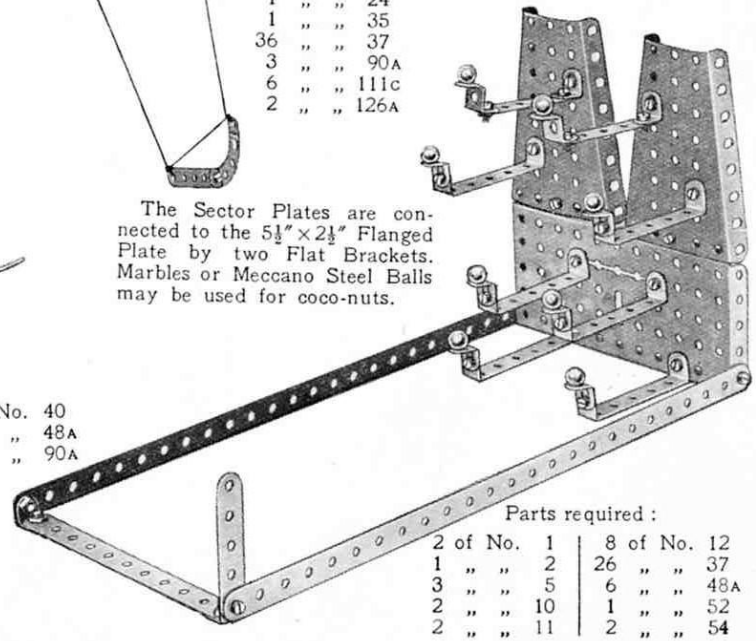
Model No. 1.146 Aeroplane



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

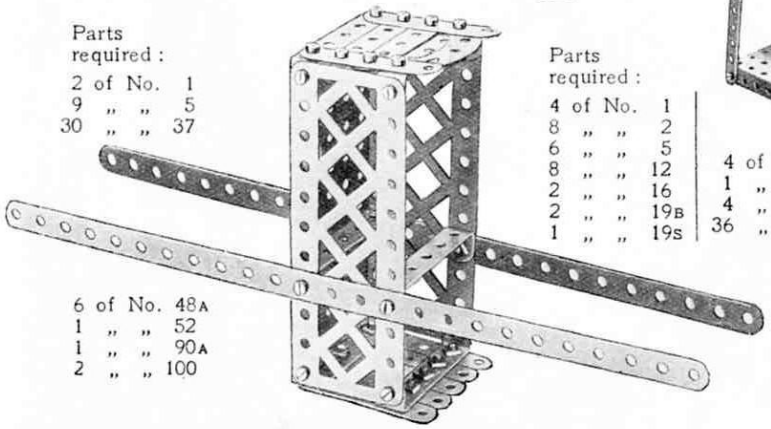


The Sector Plates are connected to the $5\frac{1}{2}'' \times 2\frac{1}{2}''$ Flanged Plate by two Flat Brackets. Marbles or Meccano Steel Balls may be used for coco-nuts.

Parts required :

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

Model No. 1.144 Sedan Chair



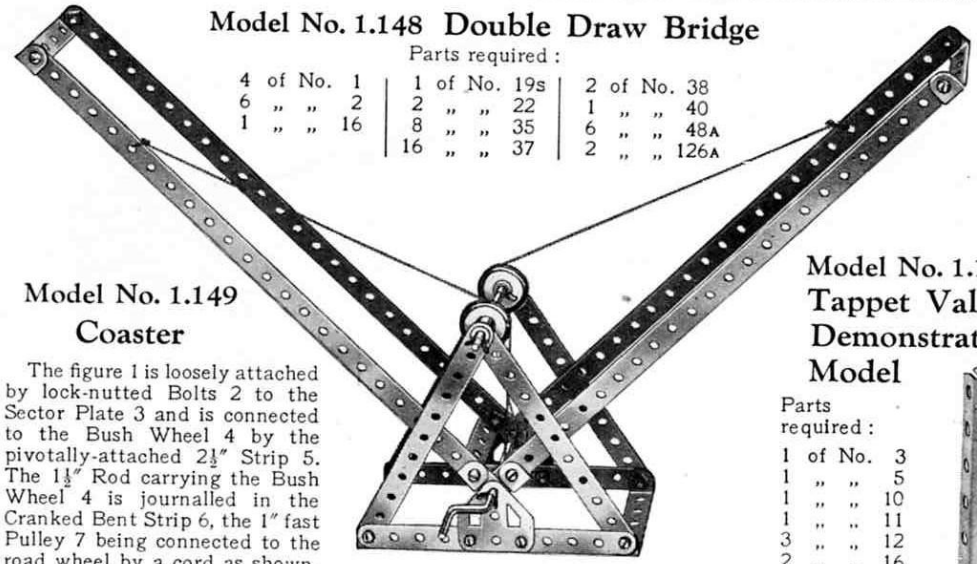
Parts required :

2	of No.	1
9	„ „	5
30	„ „	37
6	of No.	48A
1	„ „	52
1	„ „	90A
2	„ „	100

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

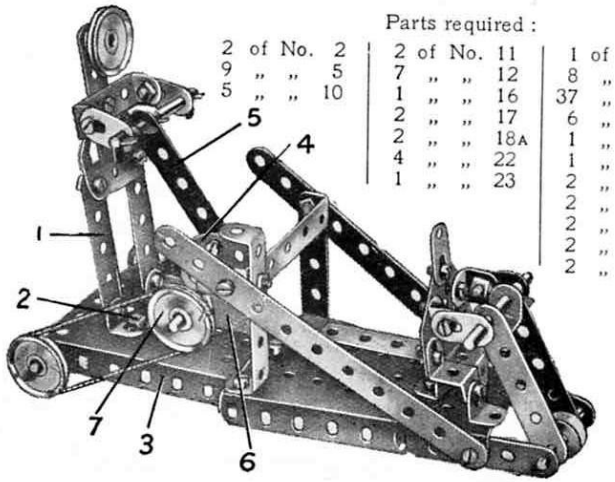


Model No. 1.149 Coaster

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 2½" Strip 5. The 1½" Rod carrying the Bush Wheel 4 is journalled in the Cranked Bent Strip 6, the 1" fast Pulley 7 being connected to the road wheel by a cord as shown.

Parts required :

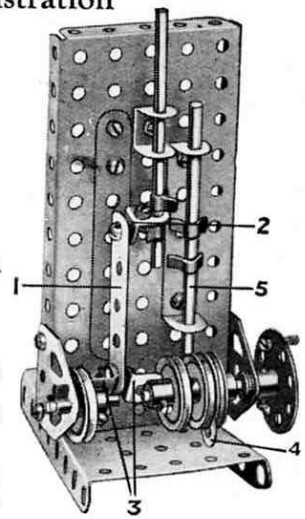
2	of	No. 2	2	of	No. 11	1	of	No. 24
9	„	„ 5	7	„	„ 12	8	„	„ 35
5	„	„ 10	1	„	„ 16	37	„	„ 37
			2	„	„ 17	6	„	„ 37A
			2	„	„ 18A	1	„	„ 40
			4	„	„ 22	1	„	„ 48
			1	„	„ 23	2	„	„ 48A
						2	„	„ 54
						2	„	„ 111c
						2	„	„ 125
						2	„	„ 126A



Model No. 1.150 Tappet Valve Demonstration Model

Parts required :

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

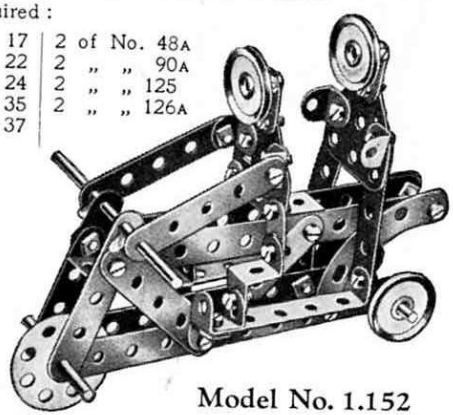


The upper end of the Strip 1 is connected pivotally by a Bolt and two Nuts to the crosshead bracket 2. The crankshaft is built up as follows : Two Angle Brackets 3 are each secured rigidly to the boss of a Pulley Wheel and are connected to each other by a ⅜" Bolt carrying three Nuts. The Nuts are screwed 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 :

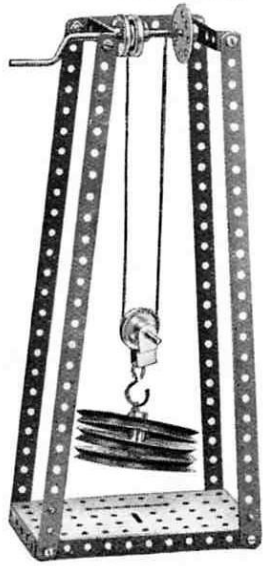
4	of	No. 2	2	of	No. 17	2	of	No. 48A
9	„	„ 5	4	„	„ 22	2	„	„ 90A
4	„	„ 10	1	„	„ 24	2	„	„ 125
2	„	„ 11	2	„	„ 35	2	„	„ 126A
8	„	„ 12	30	„	„ 37			
1	„	„ 16						



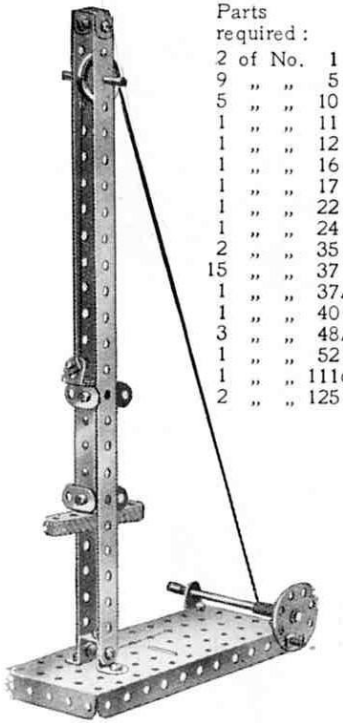
Model No. 1.152 Chinese Windlass

Parts required :

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



Model No. 1.153 Pile Driver



Parts required :

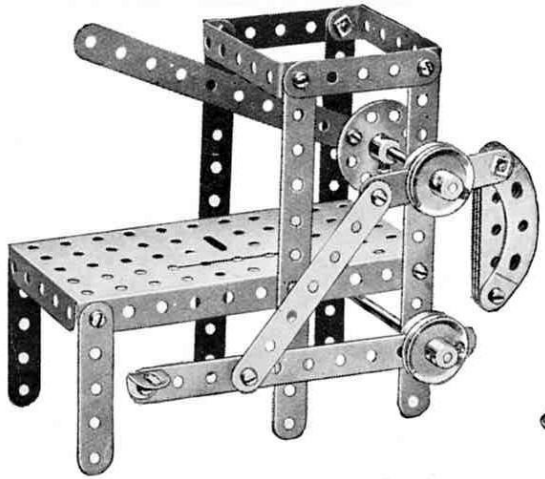
2	of	No.	1
9	„	„	5
5	„	„	10
1	„	„	11
1	„	„	12
1	„	„	16
1	„	„	17
1	„	„	22
1	„	„	24
2	„	„	35
15	„	„	37
1	„	„	37A
1	„	„	40
3	„	„	48A
1	„	„	52
1	„	„	111c
2	„	„	125

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.

Model No. 1.154 Foot Hammer

Parts required :

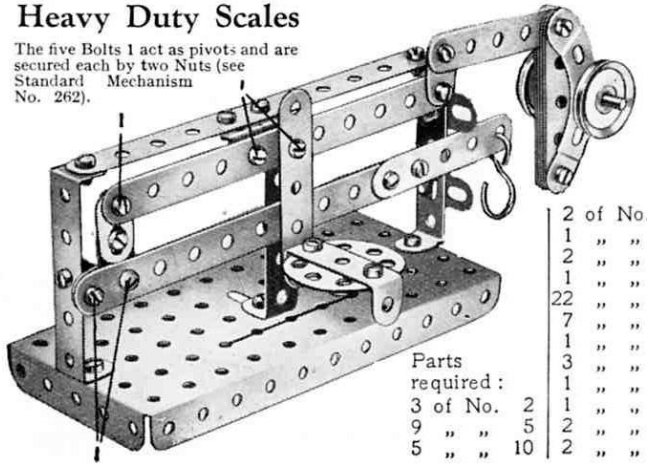
6	of	No.	2
1	„	„	3
9	„	„	5
1	„	„	12
2	„	„	16
4	„	„	22
1	„	„	24
2	„	„	35
15	„	„	37
4	„	„	37A
2	„	„	38
2	„	„	48A
1	„	„	52
4	„	„	90A
2	„	„	111c



The treadle lever is connected pivotally to a 3½" Strip by a Bolt and two Nuts. The upper end of this Strip is similarly connected to a 2½" 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).



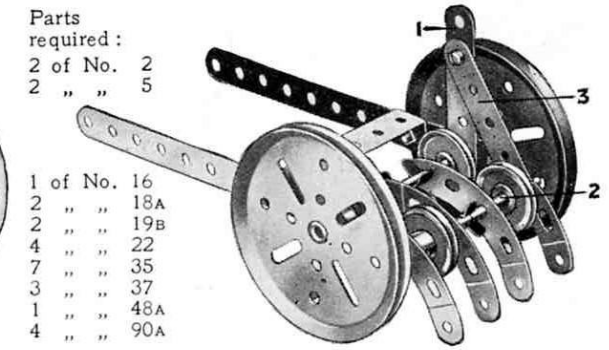
Parts required :

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	„	„	57
2	„	„	90A
2	„	„	111c

Model No. 1.156 Horse Rake

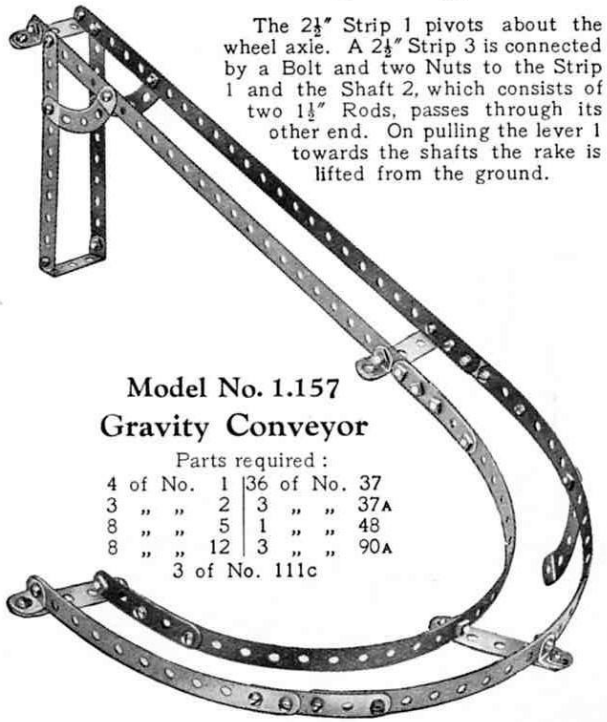
Parts required :

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 2½" Strip 1 pivots about the wheel axle. A 2½" Strip 3 is connected by a Bolt and two Nuts to the Strip 1 and the Shaft 2, which consists of two 1½" 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

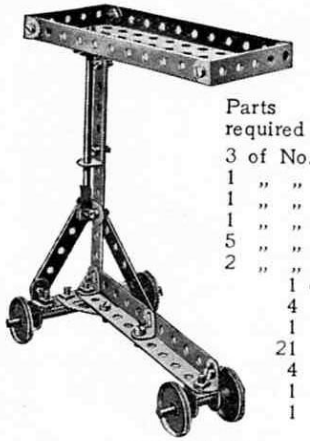


Parts required :

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. 1.158 Bed Table



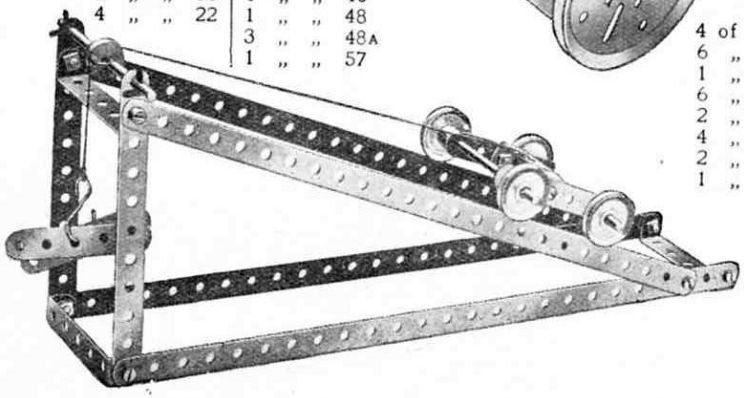
Parts required :

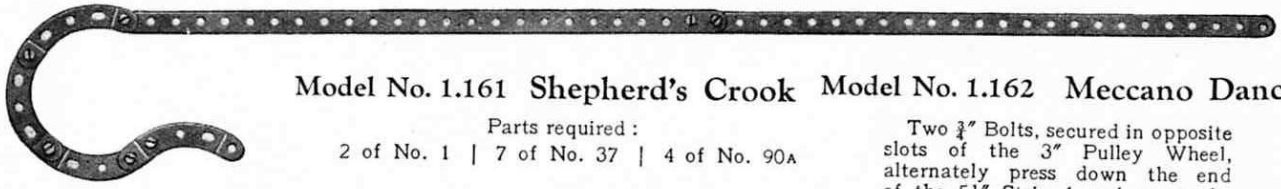
3	of No.	2	
1	„ „	3	
1	„ „	5	
1	„ „	11	
5	„ „	12	
2	„ „	16	
1	of No.	17	
4	„ „	22	
1	„ „	24	
21	„ „	37	
4	„ „	48A	
1	„ „	52	
1	„ „	126A	

Model No. 1.159 Inclined Plane

Parts required :

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



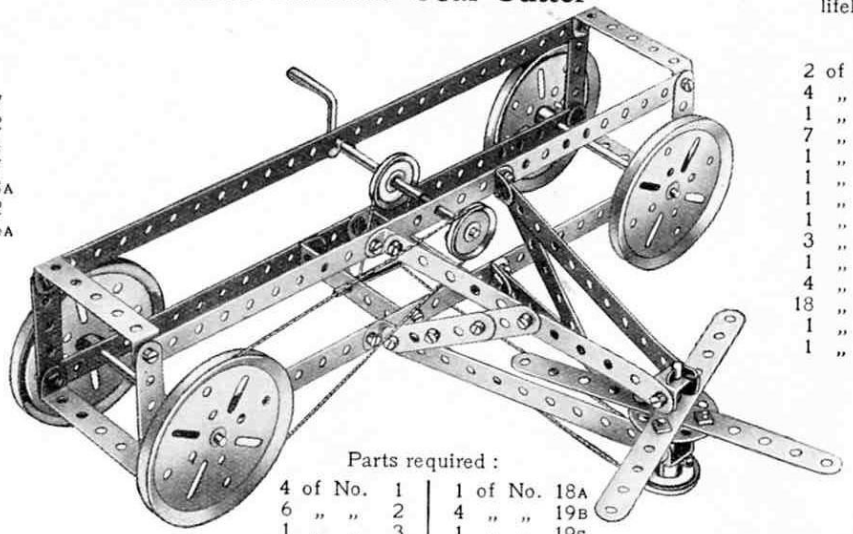


Model No. 1.161 Shepherd's Crook

Parts required :

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

Model No. 1.160 Coal Cutter



Parts required :

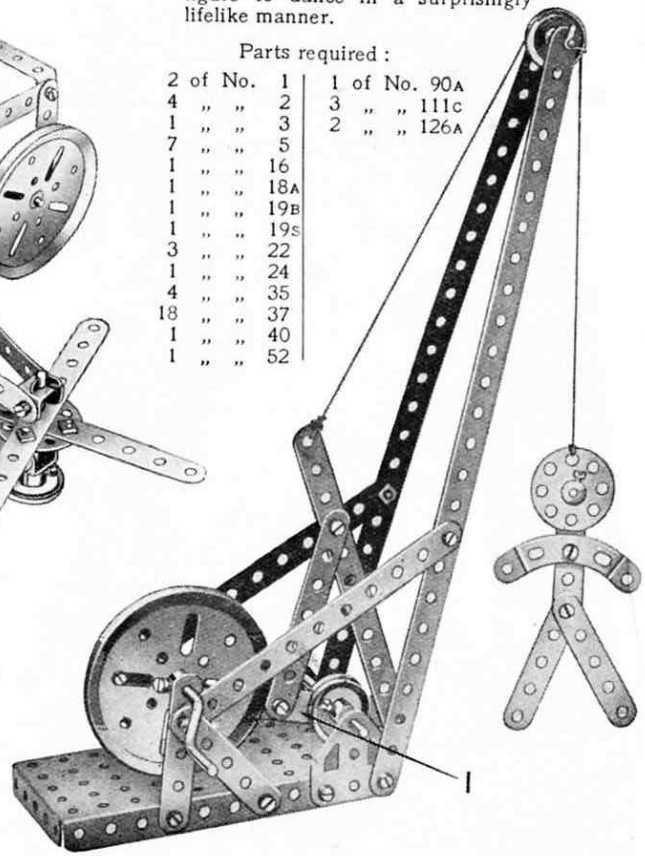
4	of No.	1	1	of No.	18A
6	„ „	2	4	„ „	19B
1	„ „	3	1	„ „	19S
6	„ „	5	3	„ „	22
2	„ „	11	1	„ „	24
4	„ „	12	5	„ „	35
2	„ „	16	32	„ „	37
1	„ „	17	1	„ „	40
			6	of No.	48A

Model No. 1.162 Meccano Dancer

Two ¾″ Bolts, secured in opposite slots of the 3″ Pulley Wheel, alternately press down the end of the 5½″ Strip 1 and cause the figure to dance in a surprisingly lifelike manner.

Parts required :

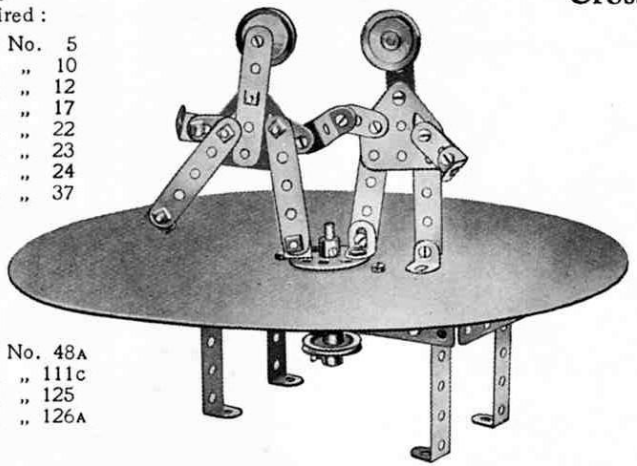
2	of No.	1	1	of No.	90A
4	„ „	2	3	„ „	111C
1	„ „	3	2	„ „	126A
7	„ „	5			
1	„ „	16			
1	„ „	18A			
1	„ „	19B			
1	„ „	19S			
3	„ „	22			
1	„ „	24			
4	„ „	35			
18	„ „	37			
1	„ „	40			
1	„ „	52			



Model No. 1.163 Eccentric Dancers

Parts required :

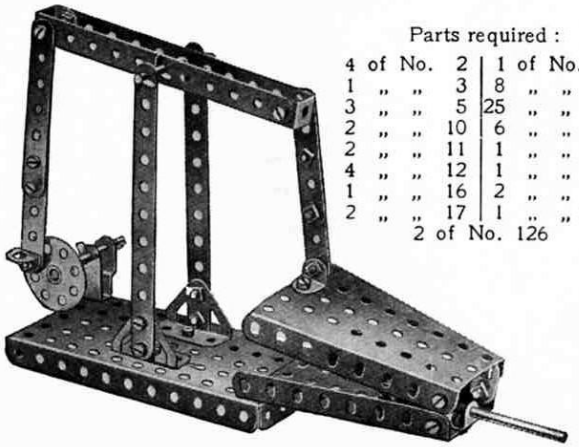
6	of No.	5
4	„ „	10
6	„ „	12
1	„ „	17
4	„ „	22
1	„ „	23
1	„ „	24
20	„ „	37
4	of No.	48A
2	„ „	111c
1	„ „	125
2	„ „	126A



Model No. 1.164 Bellows

Parts required :

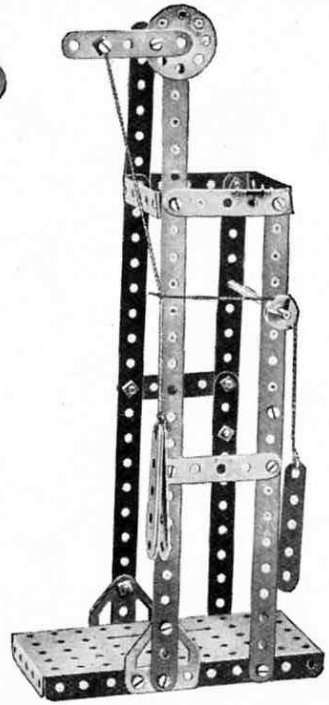
4	of No.	2	1	of No.	24
1	„ „	3	8	„ „	35
3	„ „	5	25	„ „	37
2	„ „	10	6	„ „	37A
2	„ „	11	1	„ „	44
4	„ „	12	1	„ „	52
1	„ „	16	2	„ „	54
2	„ „	17	1	„ „	111c
			2	of No.	126



Model No. 1.165 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

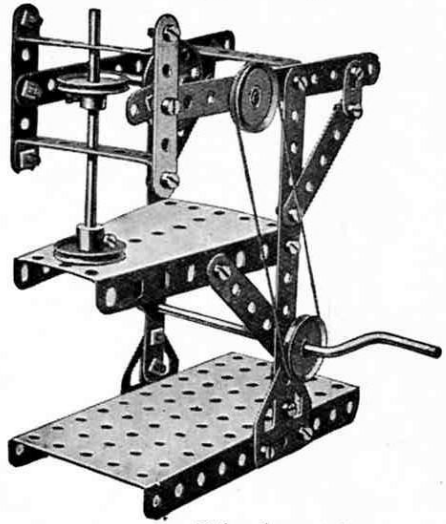


This is an apparatus for determining the forces that act at the crosshead of a reciprocating engine. The upper inclined length of cord represents the connecting rod and the lower, or vertical portion, the piston rod. The pull on the third cord indicates the pressure exerted on the slide bars of the engine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

Model No. 1.166 Drop Stamp

Parts required :

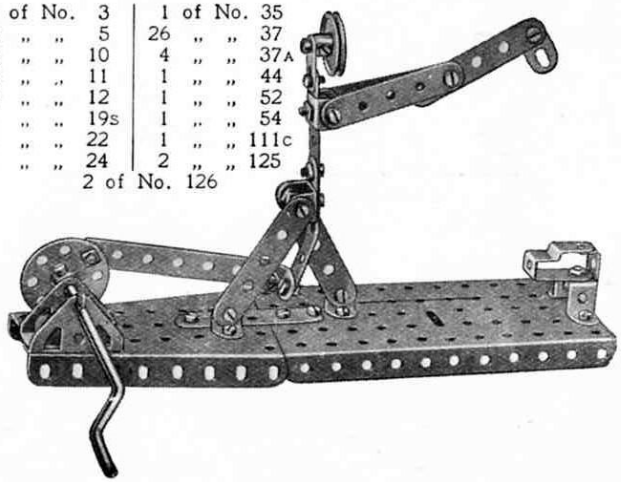
4	of No.	2
6	„ „	5
3	„ „	10
2	„ „	16
1	„ „	19s
4	„ „	22
1	„ „	24
2	„ „	35
27	„ „	37
1	„ „	40
3	„ „	48A
1	„ „	52
1	„ „	54
2	„ „	126A

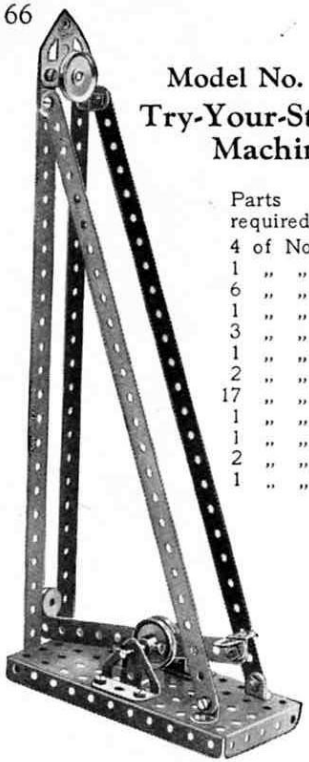


Model No. 1.167 Blacksmith

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





Model No. 1.168
Try-Your-Strength Machine

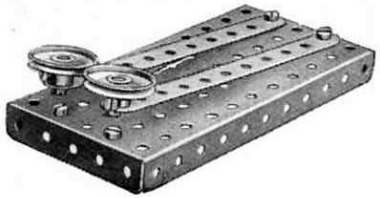
Parts required :

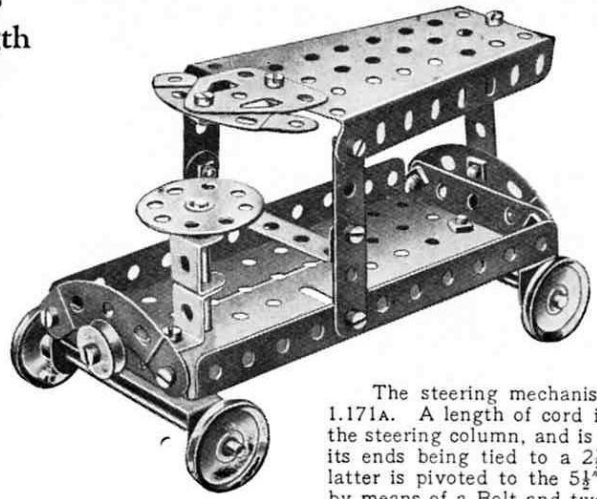
4	of	No.	1
1	„	„	2
6	„	„	12
1	„	„	17
3	„	„	22
1	„	„	23
2	„	„	35
17	„	„	37
1	„	„	52
1	„	„	111c
2	„	„	126
1	„	„	126A

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. 1.171 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 2½″ × ½″ Double Angle Strip. The latter is pivoted to the 5½″ × 2½″ Flanged Plate of the lorry by means of a Bolt and two Nuts (see Standard Mechanisms Manual. Detail No. 262).

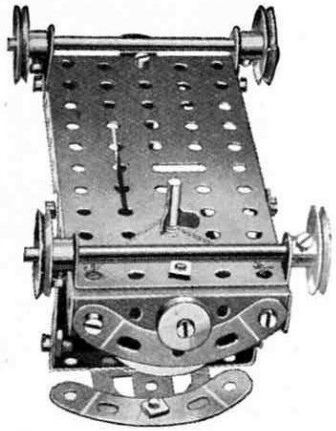
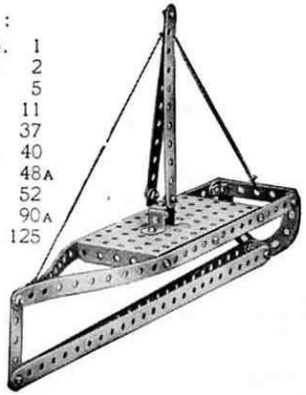


FIG. 1.171A

Model No. 1.170 Boat

Parts required :

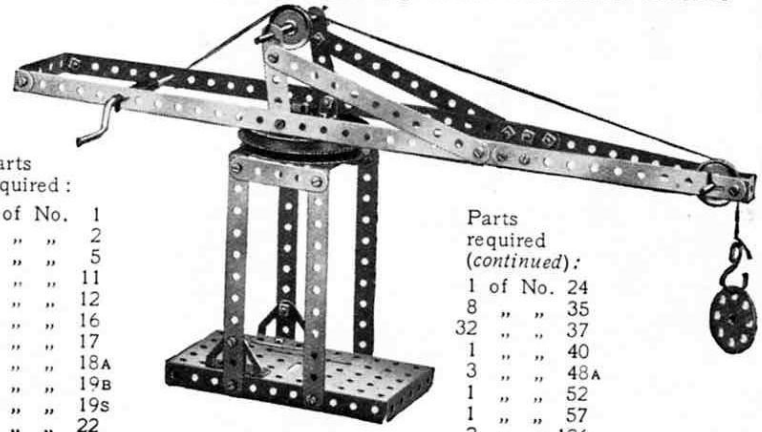
4	of	No.	1
2	„	„	2
1	„	„	5
2	„	„	11
21	„	„	37
1	„	„	40
1	„	„	48A
1	„	„	52
2	„	„	90A
2	„	„	125



Model No. 1.172 Revolving Hammerhead Crane

Parts required :

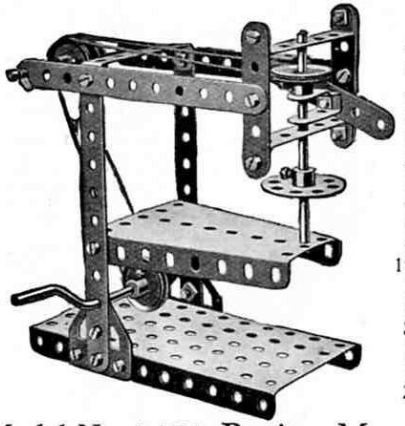
2	of	No.	1
8	„	„	2
4	„	„	5
1	„	„	11
2	„	„	12
1	„	„	16
1	„	„	17
1	„	„	18A
2	„	„	19B
1	„	„	19S
2	„	„	22



Parts required *(continued)* :

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

Model No. 1.173 Drilling Machine



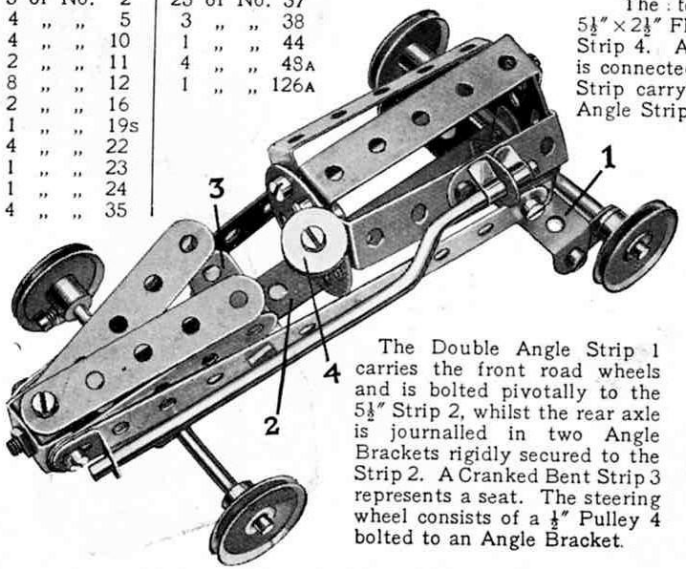
Parts required :

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. 1.174 Racing Motor Car

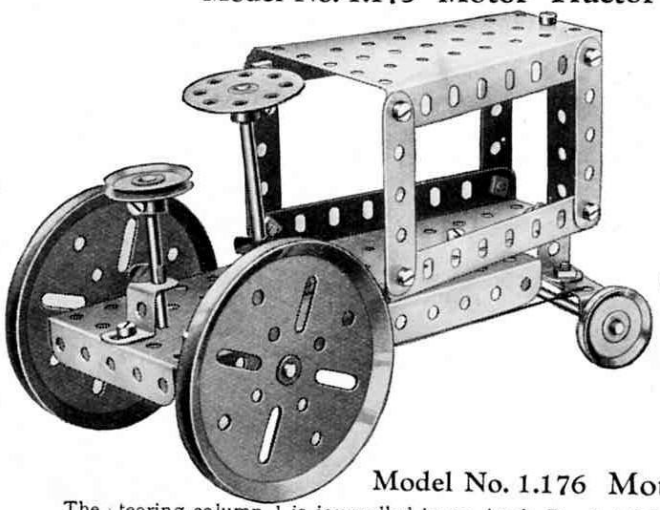
Parts required :

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



The Double Angle Strip 1 carries the front road wheels and is bolted pivotally to the 5½" Strip 2, whilst the rear axle is journalled in two Angle Brackets rigidly secured to the Strip 2. A Cranked Bent Strip 3 represents a seat. The steering wheel consists of a ½" Pulley 4 bolted to an Angle Bracket.

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
6	„	„	37
11	„	„	37A
1	„	„	40
2	„	„	48A
1	„	„	52
2	„	„	54
2	„	„	125

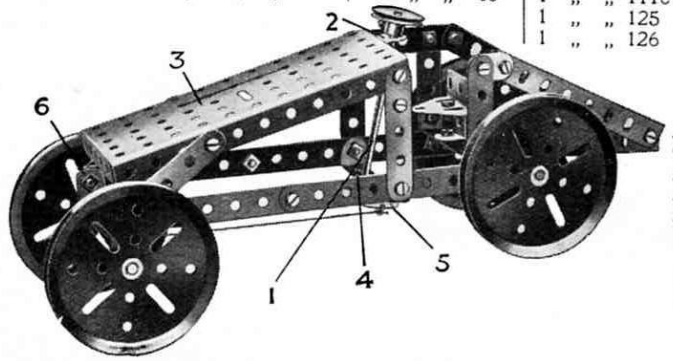
Model No. 1.176 Motor Car

The steering column 1 is journalled in an Angle Bracket 2 bolted to the 5½" × 2½" Flanged Plate 3, and in the second hole of the 2½" × ½" 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 2½" × ½" 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).

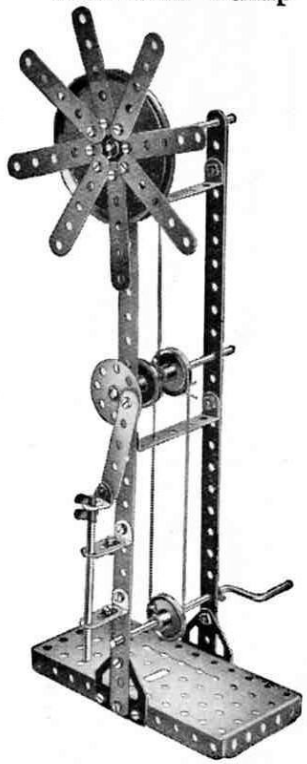
Parts required :

4	of	No.	2	3	of	No.	16	25	of	No.	37
7	„	„	5	4	„	„	19B	2	„	„	37A
1	„	„	10	1	„	„	22	4	„	„	38
1	„	„	11	1	„	„	24	1	„	„	40

4	of	No.	48A
1	„	„	52
2	„	„	54
1	„	„	111c
1	„	„	125
1	„	„	126



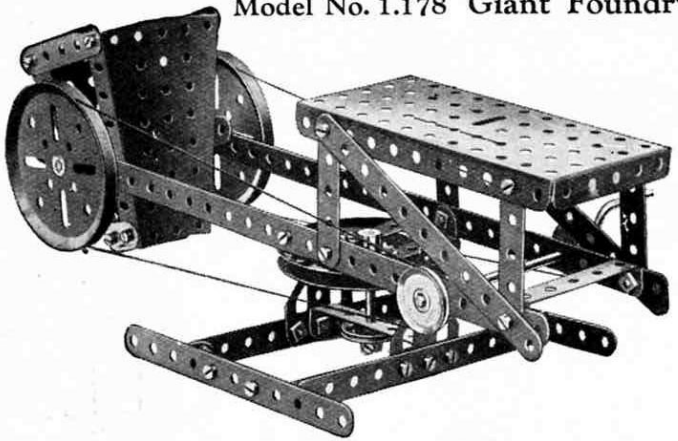
Model No. 1.177 Windmill Pump



Parts required :

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

Model No. 1.178 Giant Foundry Ladle



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

The ladle pivots about a 3½" Axle Rod carrying a 3" Pulley at each end in addition to a Bush Wheel and a 2½" 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.

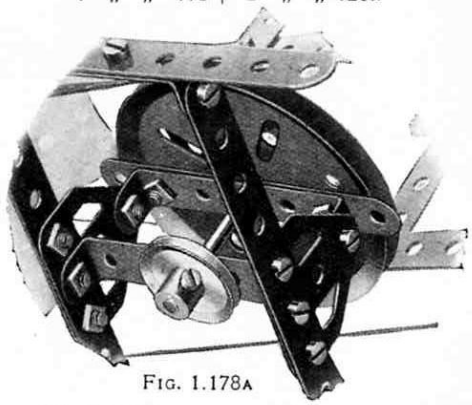


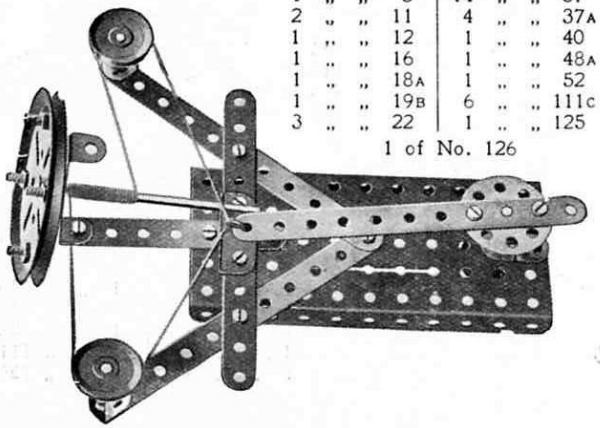
FIG. 1.178A

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

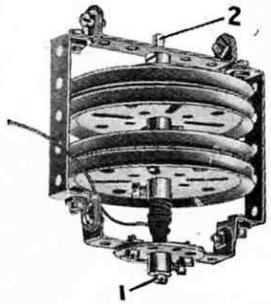


Model No. 1.180 Gyroscope

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.

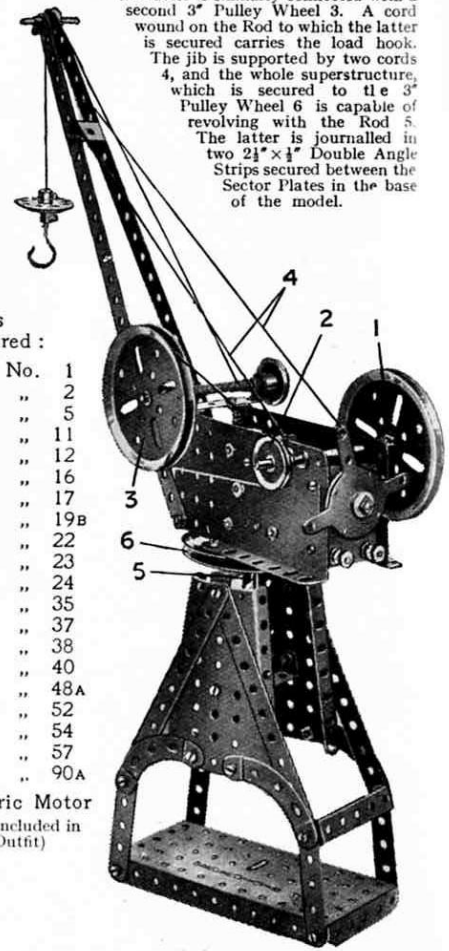
Parts required :

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 2½" × ½" Double Angle Strips secured between the Sector Plates in the base of the model.



Parts required :

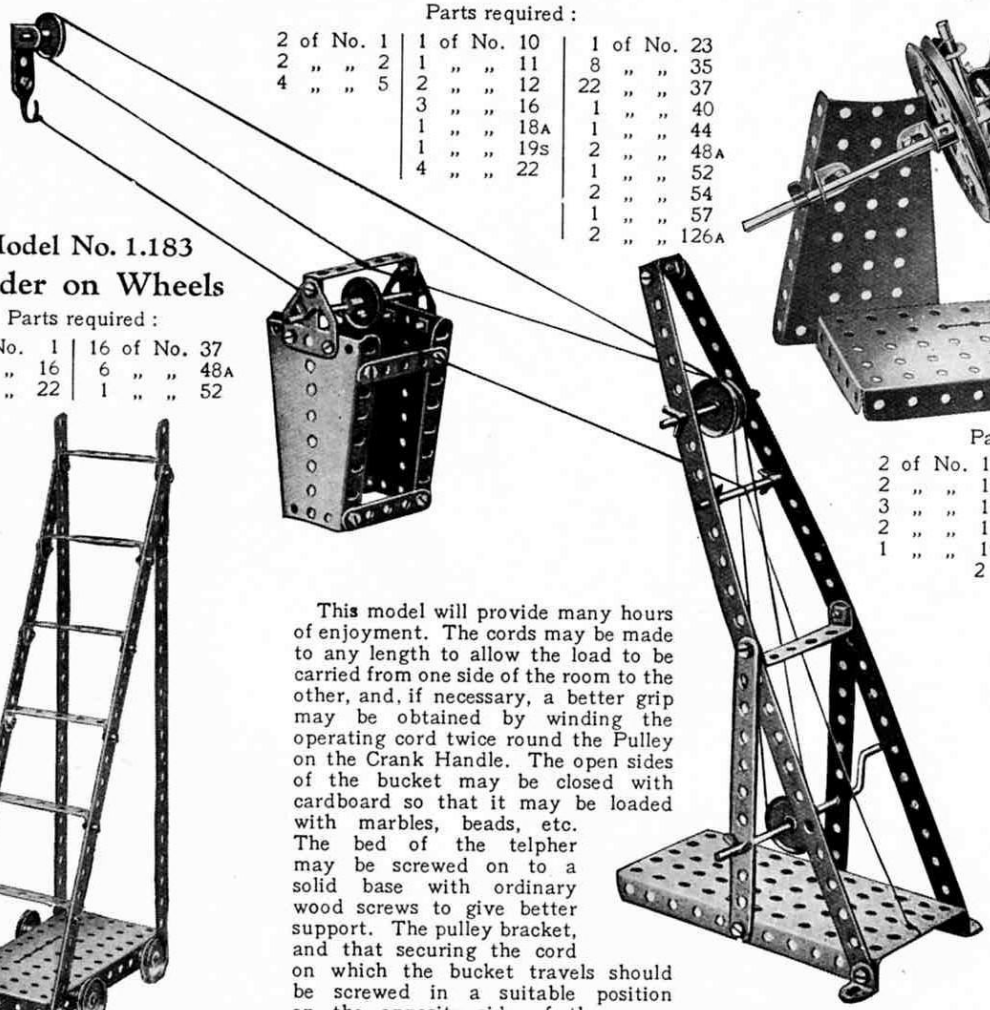
2	of	No.	1
4	„	„	2
4	„	„	5
1	„	„	11
2	„	„	12
3	„	„	16
1	„	„	17
3	„	„	19B
4	„	„	22
1	„	„	23
1	„	„	24
5	„	„	35
26	„	„	37
2	„	„	38
1	„	„	40
5	„	„	48A
1	„	„	52
2	„	„	54
1	„	„	57
4	„	„	90A

Electric Motor
(not included in Outfit)

Model No. 1.182 Telpher 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	„ „ 57
				2	„ „ 126A



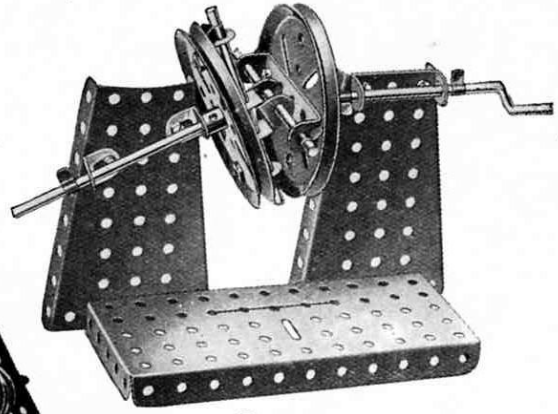
Model No. 1.183 Ladder on Wheels

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 telpher 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



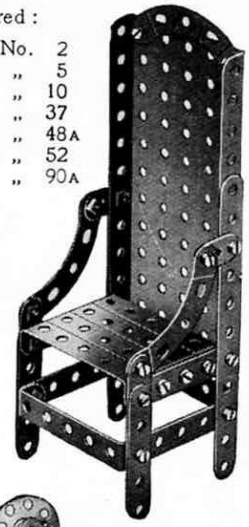
Parts required :

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 :

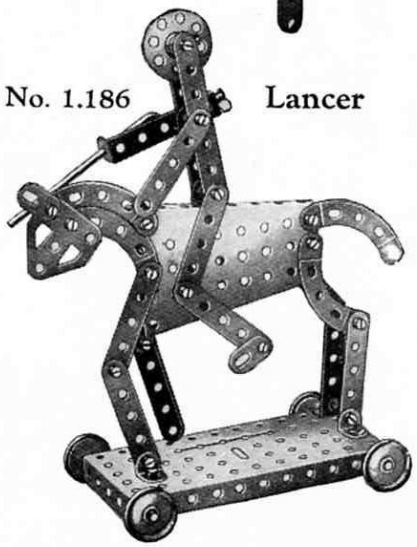
2	of No. 2		
8	„ „ 5		
2	„ „ 10		
22	„ „ 37		
6	„ „ 48A		
1	„ „ 52		
3	„ „ 90A		



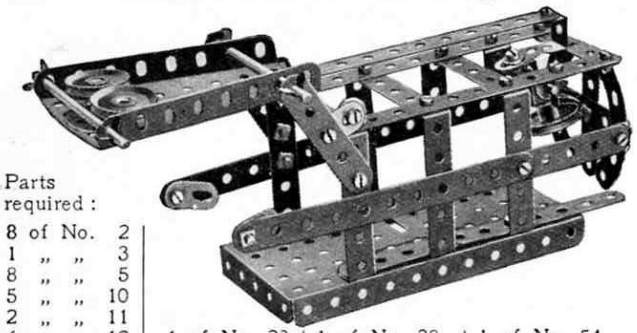
Model No. 1.186 Lancer

Parts required :

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



Model No. 1.187 Rat Trap



Parts required :

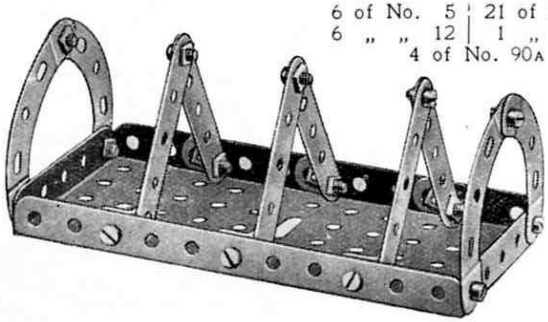
8	of No. 2	1	of No. 23	1	of No. 38	1	of No. 54
1	„ „ 3	1	„ „ 24	1	„ „ 48	2	„ „ 90A
8	„ „ 5	8	„ „ 35	6	„ „ 48A	3	„ „ 111c
5	„ „ 10	31	„ „ 37	1	„ „ 52		
2	„ „ 11						
6	„ „ 12						
2	„ „ 16						
1	„ „ 17						
3	„ „ 22						

The " bait " consists of a 1" fast Pulley and a ½" loose Pulley suspended by means of a cord from a Double Bracket. The latter is bolted to a 1½" × ½" Double Angle Strip that is free to turn on a 2" Rod journalled in a pair of Angle Brackets. A Flat Bracket bolted to the Double Bracket engages a second Double Bracket on the end of a 5½" 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 5½" Strips that are bolted to the trap by their extreme ends and act as springs.

Model No. 1.188 Toast Rack

Parts required :

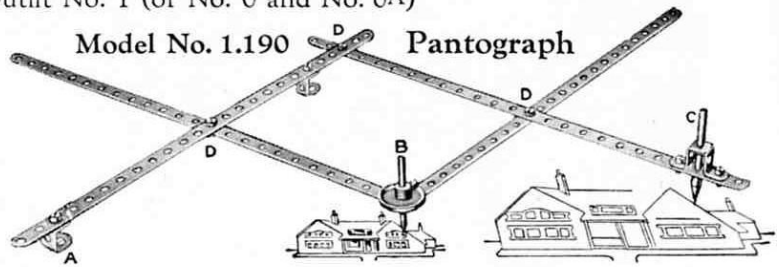
6	of No. 5	21	of No. 37
6	„ „ 12	1	„ „ 52
	4 of No. 90A		



Parts required :

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

Model No. 1.190 Pantograph

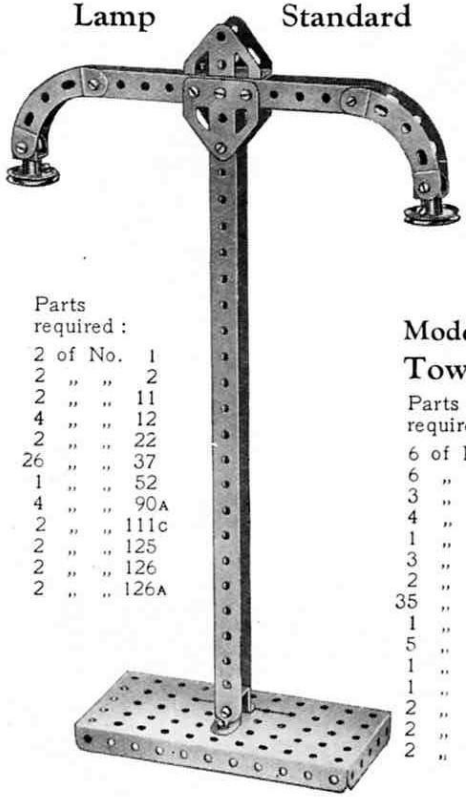


Most boys have heard of the Pantograph but not many have had an opportunity of seeing its principles demonstrated. It is an instrument for copying plans, etc., on the same or on a reduced or enlarged scale.

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 12½" Strips.

Model No. 1.189 Lamp Standard



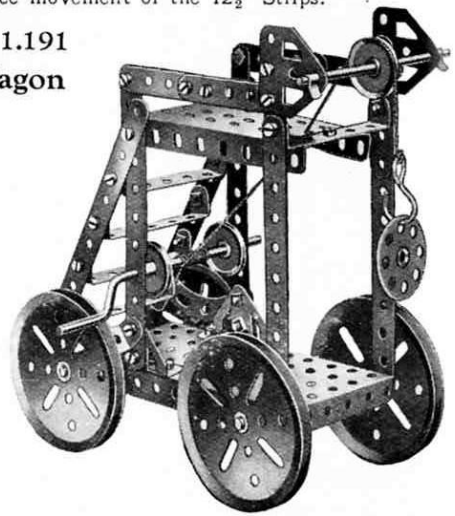
Parts required :

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

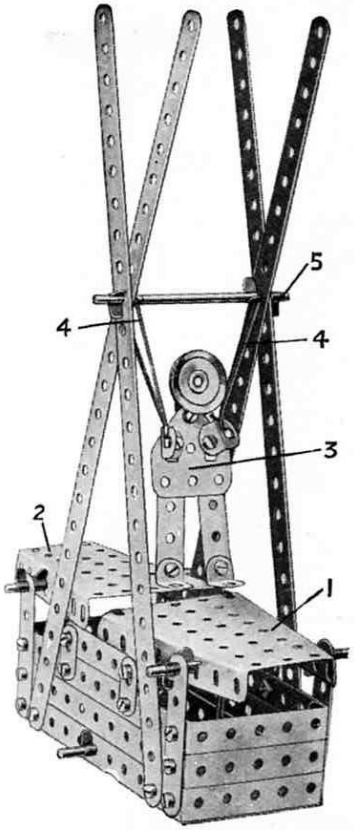
Model No. 1.191 Tower Wagon

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	„ „ 57
2	„ „ 90A
2	„ „ 126
2	„ „ 126A



Model No. 1.192 A Sudden Appearance



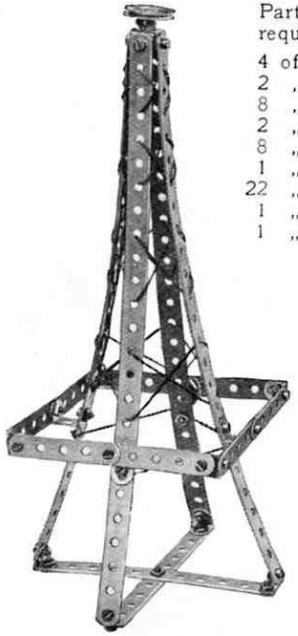
The Sector Plate 1, forming the lid, is carried pivotally on an axle rod that passes through its sides three holes from the end, and the rear Sector Plate 2 is pivoted in a similar manner, excepting that the rod in this case passes through the fourth hole from the end. Pieces of thin elastic are tied 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 3½" 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

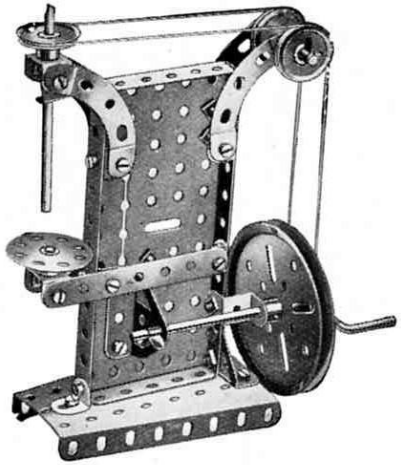
Model No. 1.193 Eiffel Tower



Parts required :

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

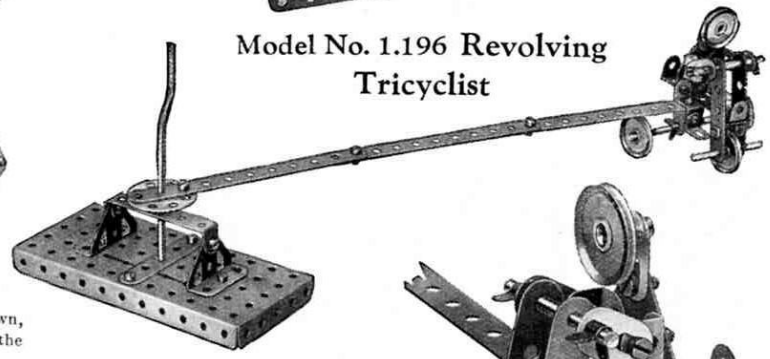
Model No. 1.195 Drill



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

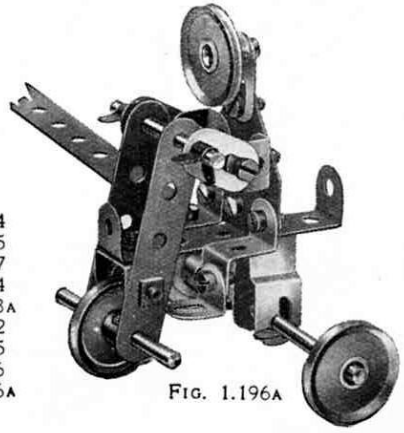
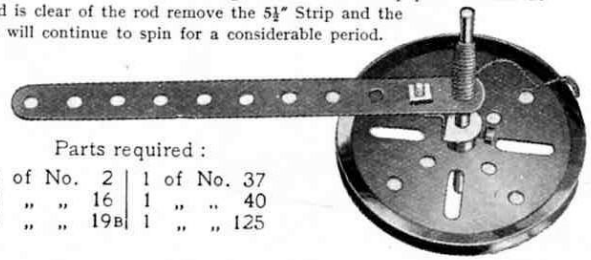


FIG. 1.196A

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.



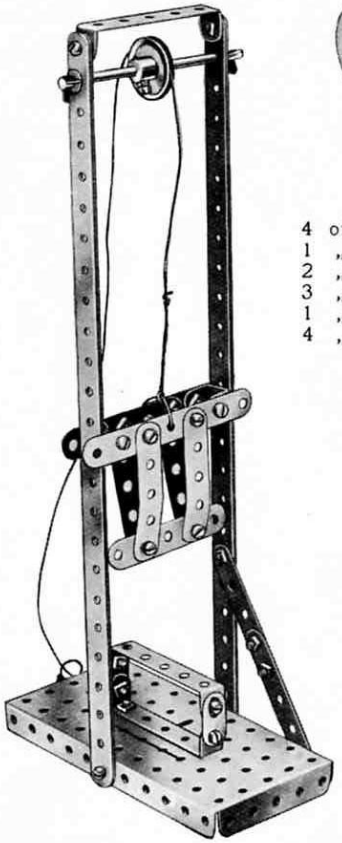
Parts required :

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

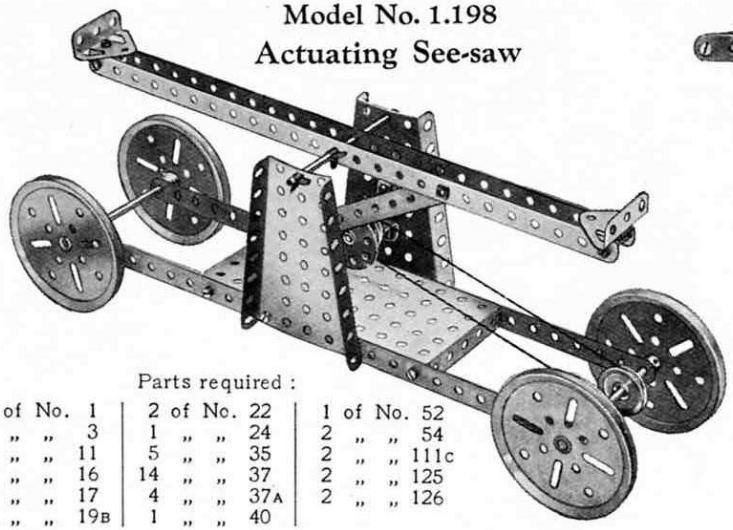
Model No. 1.197 Guillotine

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

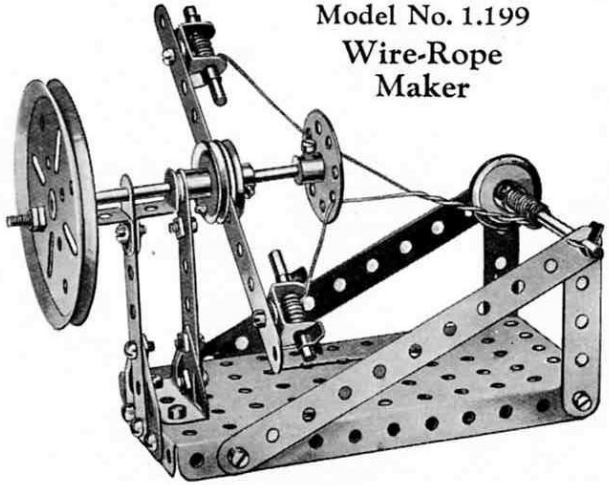


Parts required :

4	of	No.	1	2	of	No.	22
1	„	„	3	1	„	„	24
2	„	„	11	5	„	„	35
3	„	„	16	14	„	„	37
1	„	„	17	4	„	„	37A
4	„	„	19B	1	„	„	40

1	of	No.	52
2	„	„	54
2	„	„	111C
2	„	„	125
2	„	„	126

Model No. 1.199 Wire-Rope Maker



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

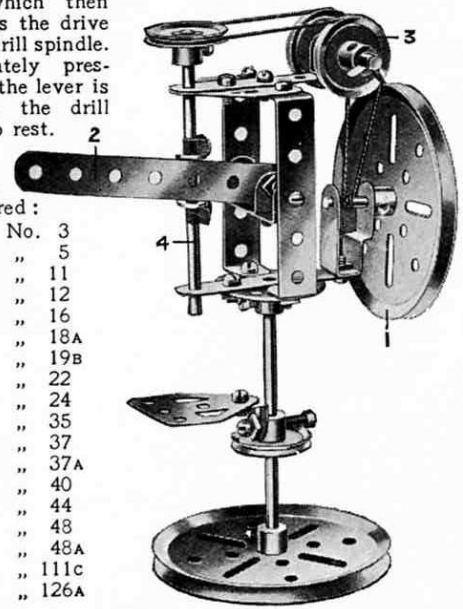
Model No. 1.200 Coat Hanger

Parts required :

1	of	No.	1	2	of	No.	5	1	of	No.	57
2	„	„	2	6	„	„	37				

Model No. 1.201 Automatic Drill

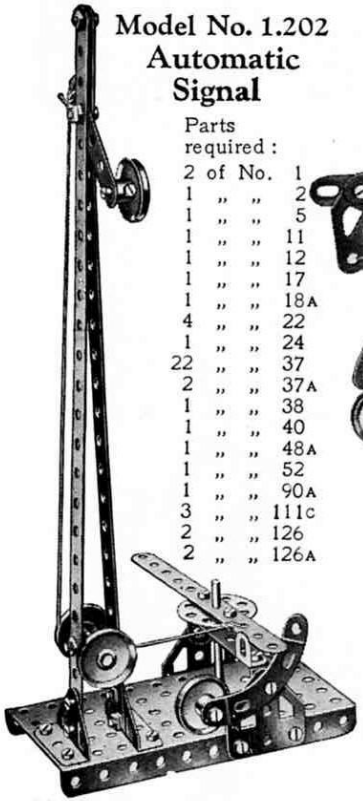
Cord is passed round the Pulley on the drill spindle 4 and thence over the Pulleys 3 and round the shaft of the Pulley 1. The lever 2 (a 3½" Strip) is pivoted by a Bolt and two Nuts at its inner end to an Angle Bracket, and the latter is bolted to a 1½" × ½" Double Angle Strip which, in turn, is bolted between the vertical 2½" 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

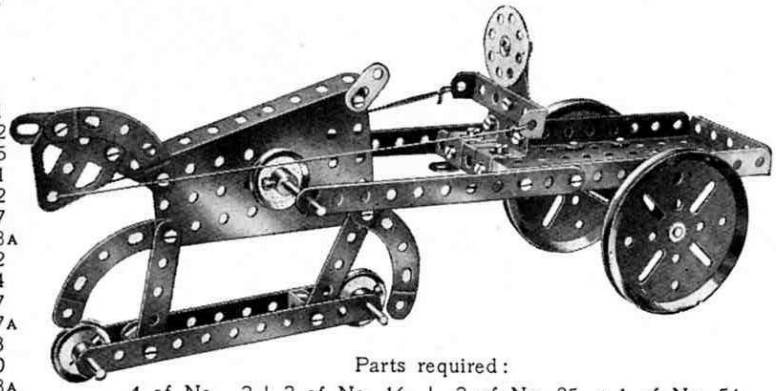


Parts required :

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 5½" 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 5½" Strip, and by means of the cord shown, raises the arm to indicate " danger." The Curved Strip moves to allow the end of the 5½" 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
3	„ „	5
3	„ „	10
2	„ „	11
2	„ „	12
2	of No.	16
2	„ „	18A
2	„ „	19B
4	„ „	22
1	„ „	24
2	of No.	35
26	„ „	37
1	„ „	40
1	„ „	48A
1	„ „	52
1	of No.	54
3	„ „	90A
1	„ „	111c
2	„ „	125
2	„ „	126
2	„ „	126A

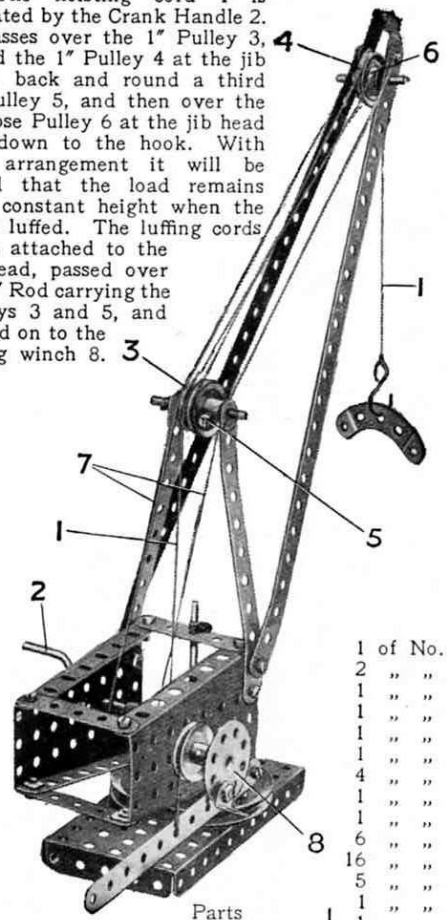
Model No. 1.204 Revolving Crane

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	„ „	57
2	„ „	90A
2	„ „	125
2	„ „	126

Model No. 1.205 Patent Luffing Crane

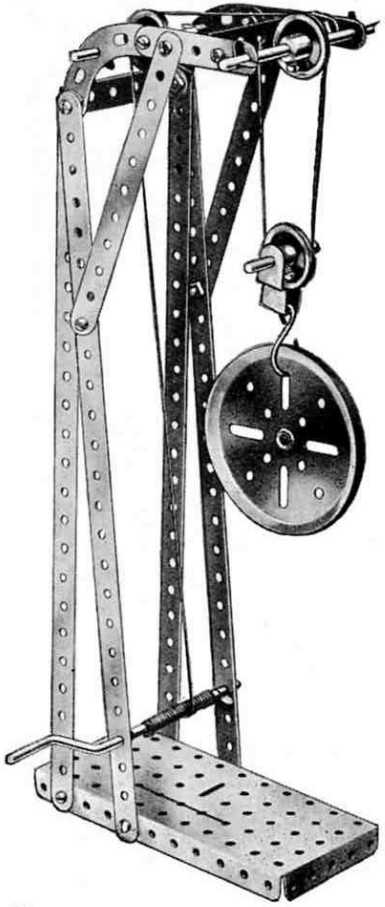
The hoisting cord 1 is operated by the Crank Handle 2. It passes over the 1" Pulley 3, round the 1" Pulley 4 at the jib head, back and round a third 1" Pulley 5, and then over the ½" loose Pulley 6 at the jib head and down to the hook. With this arrangement it will be found that the load remains at a 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
3	„ „	2
4	„ „	5
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	„ „	57
2	„ „	111c

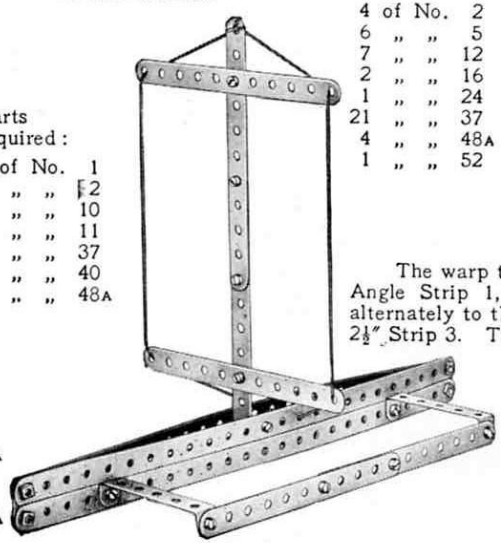
Model No. 1.206 Hoisting Block



Parts required :

1	of	No.	1	1	of	No.	18A
1	„	„	19B	1	„	„	19S
2	„	„	22	1	„	„	35
1	„	„	37	2	„	„	40
1	„	„	44	2	„	„	48A
1	„	„	52	1	„	„	57
2	„	„	90A				

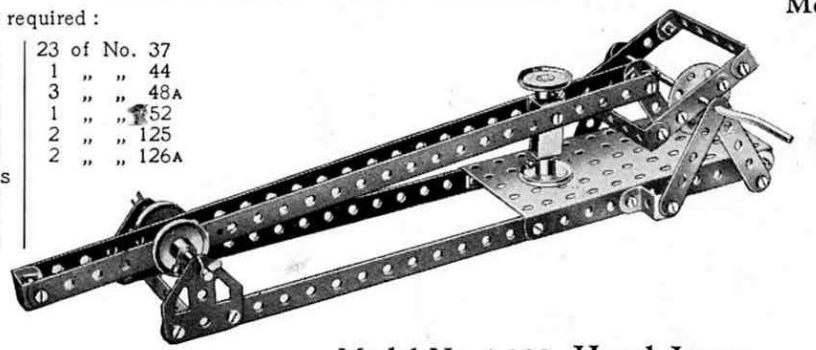
Model No. 1.207 Catamaran



Parts required :

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

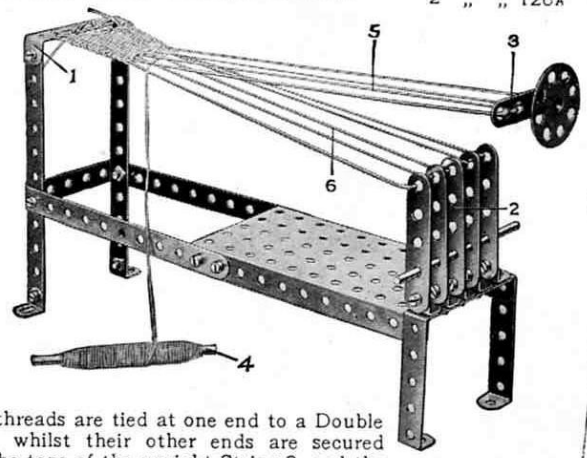
Model No. 1.208 Helve Hammer



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

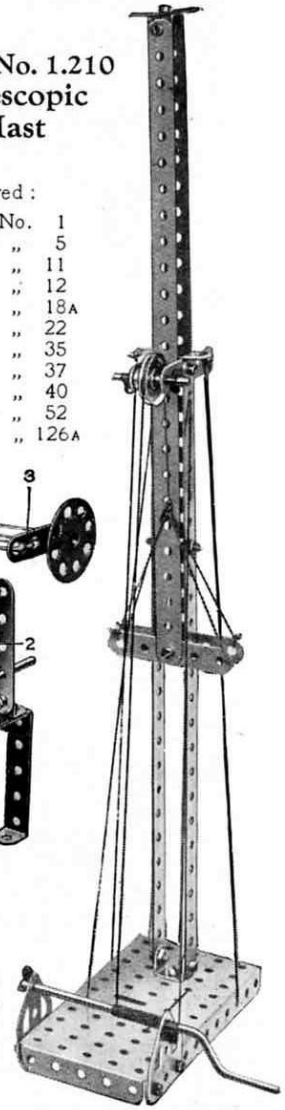


Parts required :

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

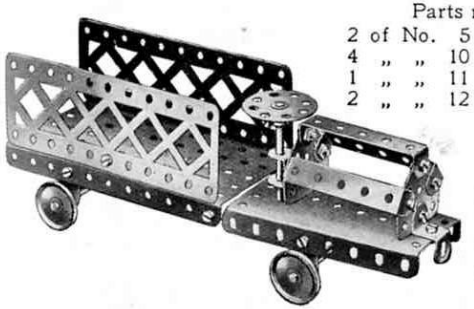
Model No. 1.210 Telescopic Mast



Parts required :

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

Model No. 1.211 Motor Lorry

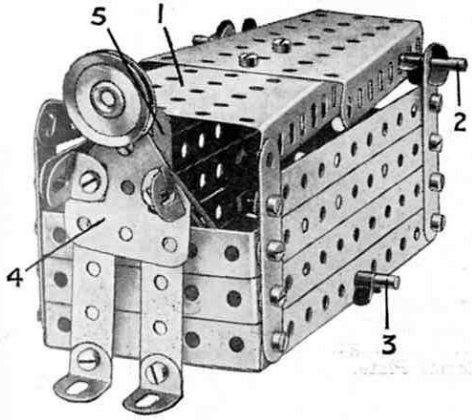


Parts required :

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 5½" × 2½" Flanged Plate ; three 5½" Strips bolted to upright 2½" Strips form each side and each end consists of three 2½" × ½" 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.

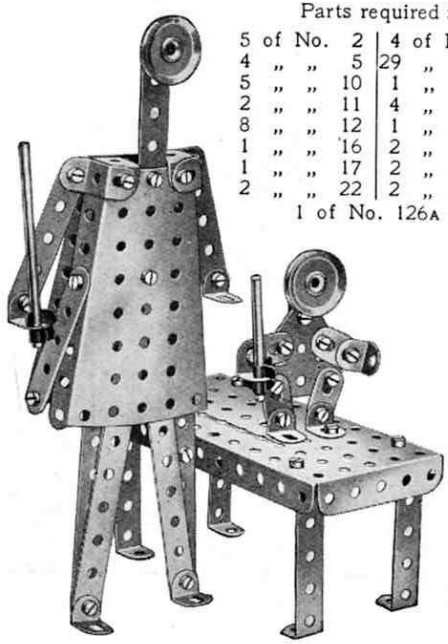


Parts required :

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 Impudence



Parts required :

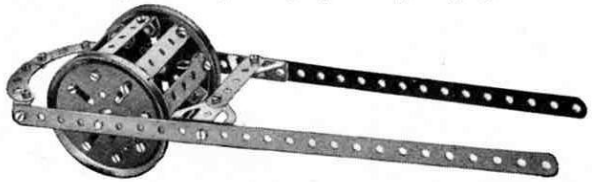
5	of	No.	2	4	of	No.	35
4	„	„	5	29	„	„	37
5	„	„	10	1	„	„	48
2	„	„	11	4	„	„	48A
8	„	„	12	1	„	„	52
1	„	„	16	2	„	„	54
1	„	„	17	2	„	„	111c
2	„	„	22	2	„	„	125

1 of No. 126A

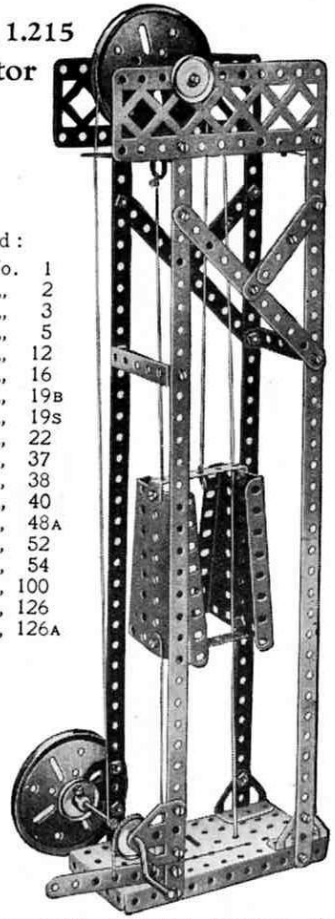
Model No. 1.214 Field Roller

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

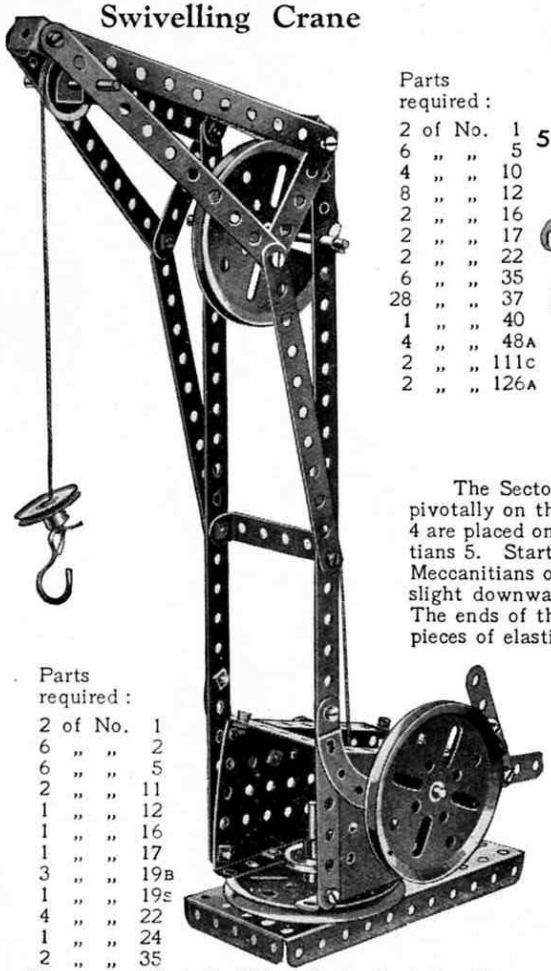


Parts required :

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.

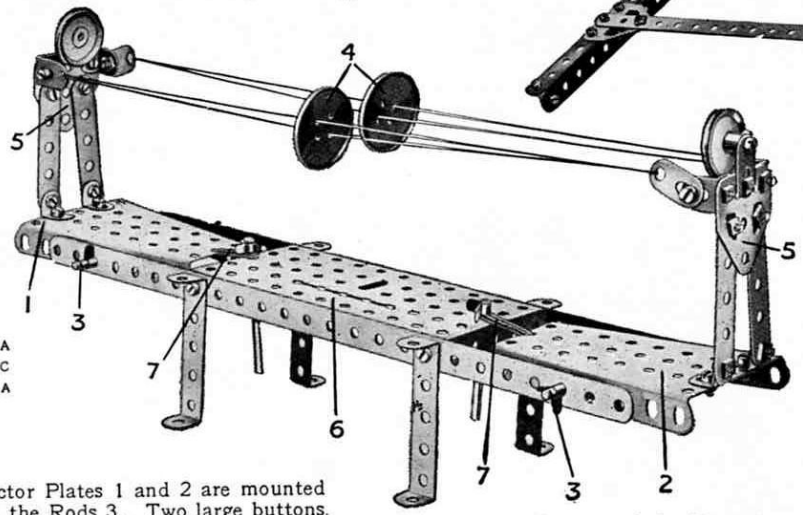
Model No. 1.216 Swivelling Crane



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.	57
2	„ „	90A
1	„ „	111C

Model No. 1.217 Spinning Buttons



Parts required :

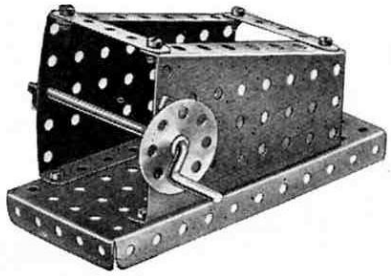
2	of No.	1
6	„ „	5
4	„ „	10
8	„ „	12
2	„ „	16
2	„ „	17
2	„ „	22
6	„ „	35
28	„ „	37
1	„ „	40
4	„ „	48A
2	„ „	111C
2	„ „	126A

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 Meccanitians 5. Start the model as follows : twist the threads a little with your fingers, pull the Meccanitians 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

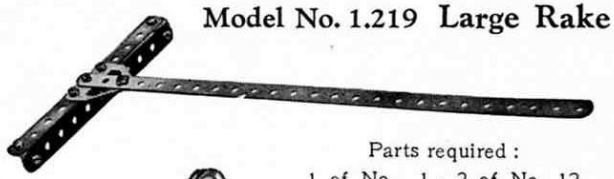
Parts required :

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



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 ⅜" Bolt projecting from the Sector Plate.

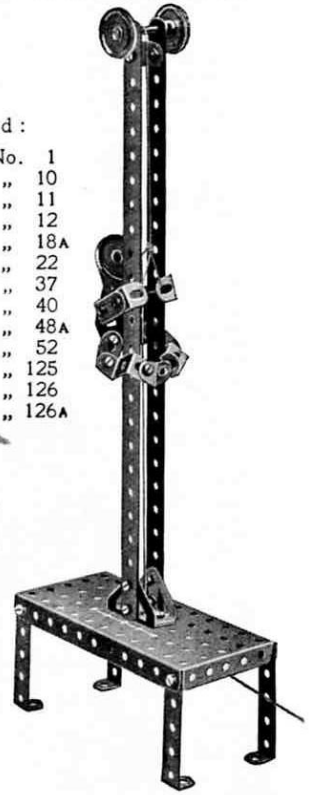
Model No. 1.219 Large Rake



Parts required :

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

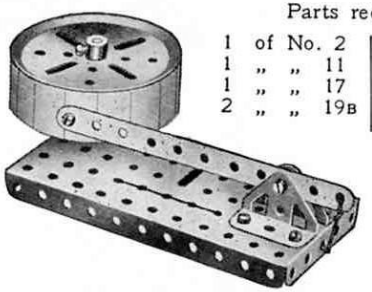
Model No. 1.220 Man Climbing Pole



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

Model No. 1.221 Seismograph

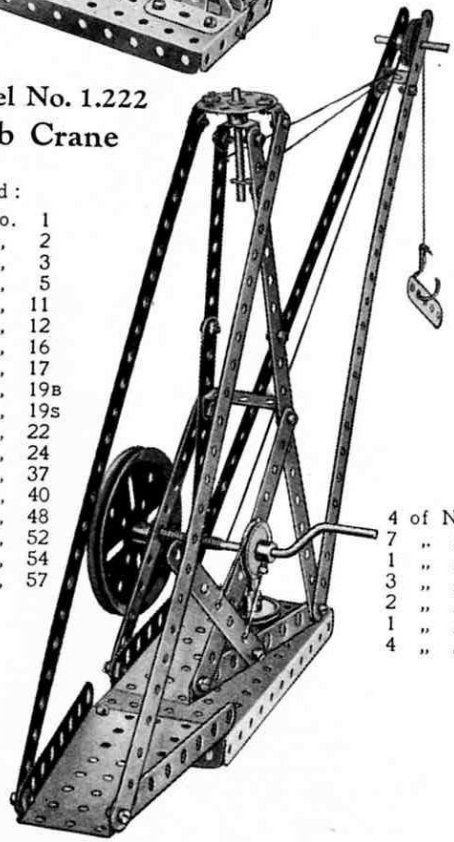


Parts required :

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

and a short length of elastic

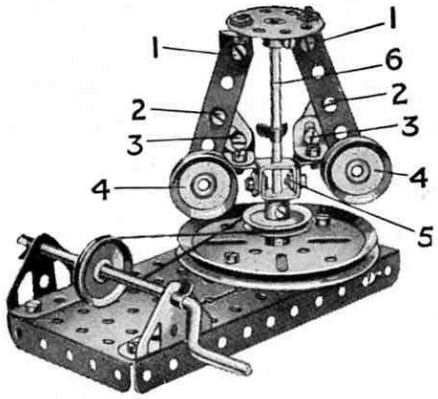
Model No. 1.222 Jib Crane



Parts 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	„	„	57

Model No. 1.223 Centrifugal Governor

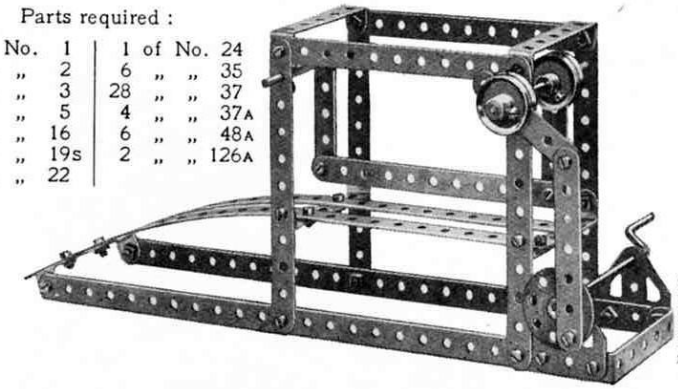


Parts required :

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	„	„	37A
4	„	„	38
1	„	„	40
2	„	„	111c
2	„	„	126

The 3″ Pulley Wheel is bolted to the 5½″ × 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.

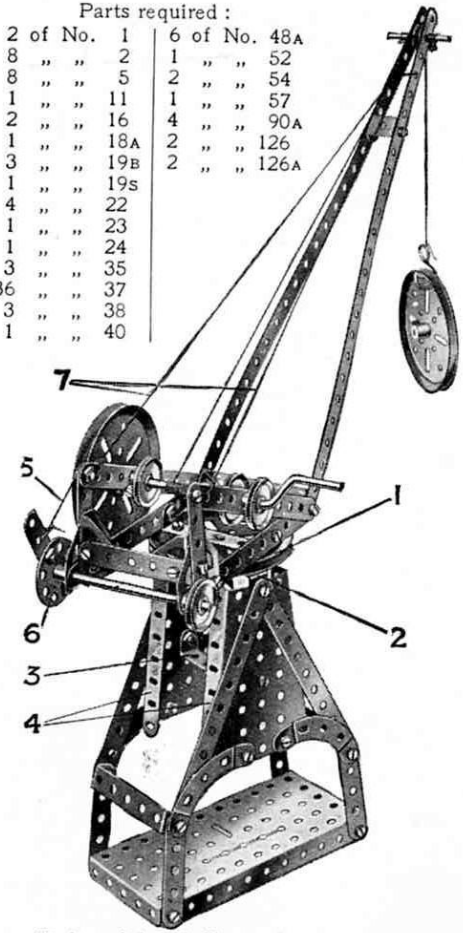
Model No. 1.224 Stone-Sawing Machine



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

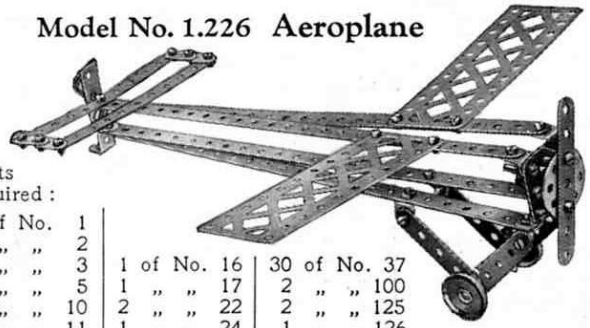


Parts required :

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

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 journalled 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.

Model No. 1.226 Aeroplane



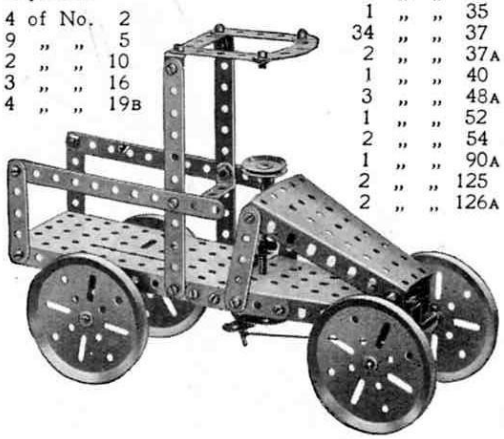
Parts required :

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

Model No. 1.227 Motor Truck

Parts required :

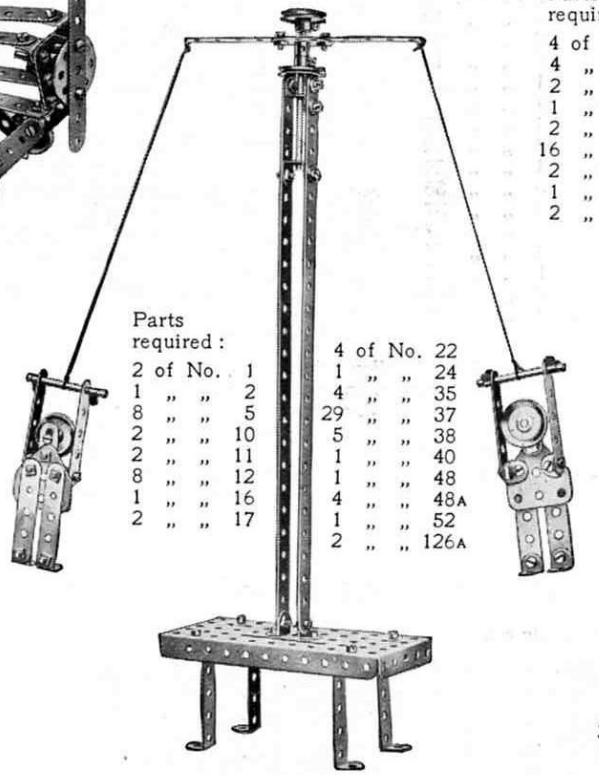
4	of No.	2	1	of No.	22
9	„ „	5	1	„ „	24
2	„ „	10	1	„ „	35
3	„ „	16	34	„ „	37
4	„ „	19B	2	„ „	37A
			1	„ „	40
			3	„ „	48A
			1	„ „	52
			2	„ „	54
			1	„ „	90A
			2	„ „	125
			2	„ „	126A



Model No. 1.228 Revolving Gymnasts

Parts required :

2	of No.	1	4	of No.	22
1	„ „	2	1	„ „	24
8	„ „	5	4	„ „	35
2	„ „	10	29	„ „	37
2	„ „	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

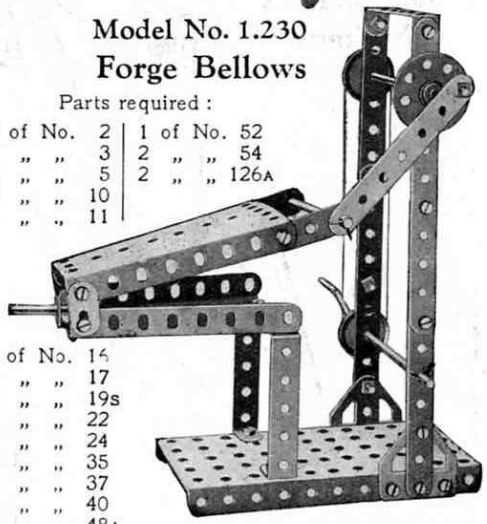
Parts required :

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 :

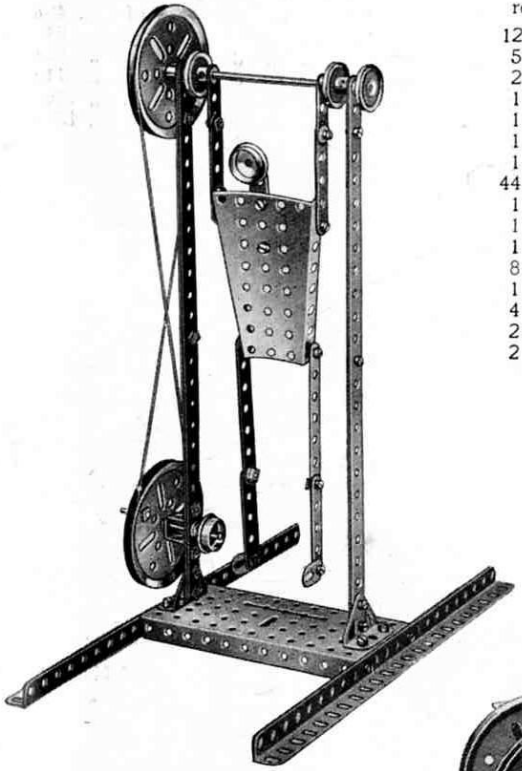
4	of No.	2	1	of No.	52
1	„ „	3	2	„ „	54
2	„ „	5	2	„ „	126A
2	„ „	10			
1	„ „	11			
2	of No.	16			
1	„ „	17			
1	„ „	19S			
2	„ „	22			
1	„ „	24			
5	„ „	35			
25	„ „	37			
1	„ „	40			
3	„ „	48A			



HOW TO CONTINUE

This completes our examples of models that may be made with MECCANO Outfit No. 1 (or No. 0 and No. 0A). 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.

Model No. 2.1 Acrobat



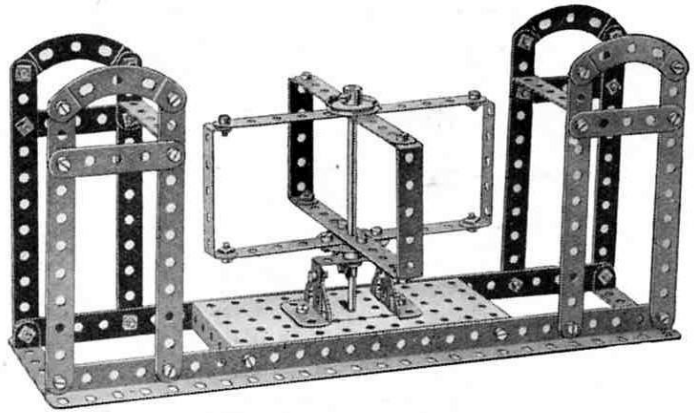
Parts required :

4	of	No.	1	28	of	No.	37
2	„	„	3	6	„	„	37A
5	„	„	5	5	„	„	38
2	„	„	8	1	„	„	40
2	„	„	10	1	„	„	45
1	„	„	15	1	„	„	52
2	„	„	19B	1	„	„	54
2	„	„	20B	2	„	„	62
3	„	„	22	1	„	„	115
				2	of	No.	126

Model No. 2.2 Turnstile

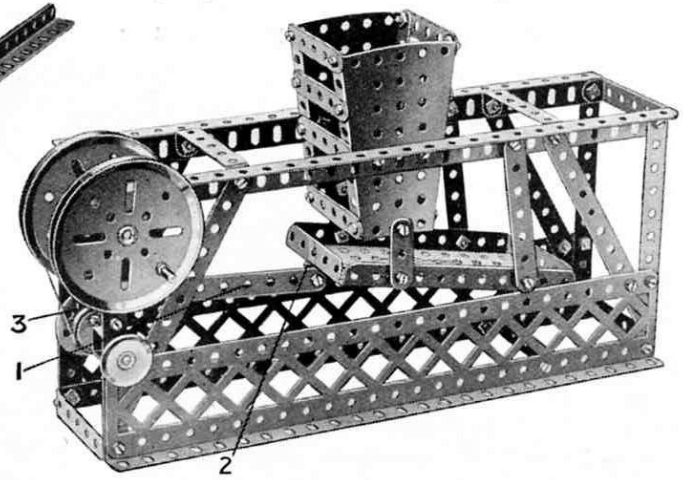
Parts required :

12	of	No.	2
5	„	„	5
2	„	„	8
1	„	„	15A
1	„	„	22
1	„	„	24
1	„	„	35
44	„	„	37
1	„	„	38
1	„	„	40
1	„	„	48
8	„	„	48A
1	„	„	52
4	„	„	90A
2	„	„	99
2	„	„	126



Model No. 2.3 Coal Sifter

The 5½" Strip 1 is pivoted to the Angle Bracket 2 by a bolt and two Nuts. The Angle Bracket in turn is bolted to the Flanged Plate, which is suspended in such a way that it is free to swing to and fro. The other end of the 5½" Strip is pivoted to the Bush Wheel 3.



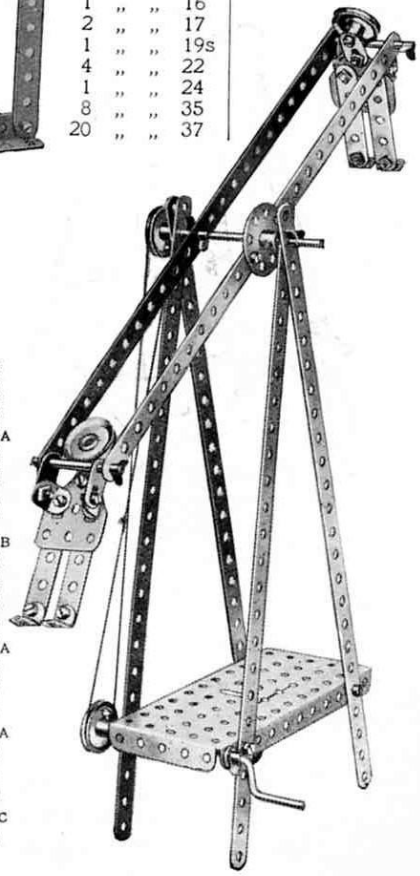
Parts required :

9	of	No.	2
2	„	„	3
8	„	„	5
2	„	„	6A
4	„	„	8
1	„	„	12
1	„	„	16
1	„	„	17
2	„	„	19B
2	„	„	22
1	„	„	24
2	„	„	35
54	„	„	37
6	„	„	37A
8	„	„	38
1	„	„	40
1	„	„	45
6	„	„	48A
1	„	„	52
2	„	„	54
2	„	„	99
6	„	„	111C
1	„	„	115

Model No. 2.4 Revolving Meccanitians

Parts required :

6	of	No.	1	1	of	No.	38
4	„	„	5	1	„	„	52
6	„	„	10	2	„	„	111C
8	„	„	12	2	„	„	126A
1	„	„	16				
2	„	„	17				
1	„	„	19S				
4	„	„	22				
1	„	„	24				
8	„	„	35				
20	„	„	37				



Model No. 2.5 Easel

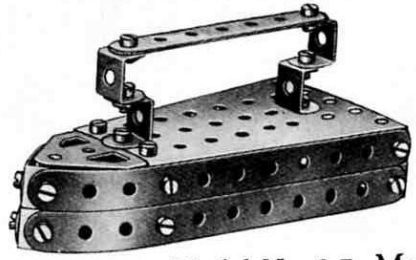
Parts required :

5	of	No.	1
3	„	„	2
2	„	„	3
3	„	„	5
4	„	„	12
2	„	„	12A
1	„	„	15A
2	„	„	22
19	„	„	37
4	„	„	38
1	„	„	40

Model No. 2.6 Smoothing Iron

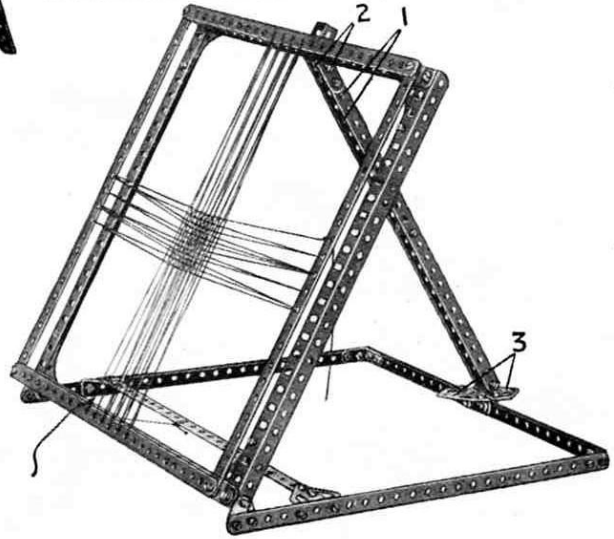
Parts required :

4	of	No.	2
2	„	„	3
6	„	„	10
4	„	„	11
2	„	„	12
20	of	No.	37
2	„	„	38
1	„	„	48A
2	„	„	54
1	„	„	126A



Model No. 2.7 Mat Frame

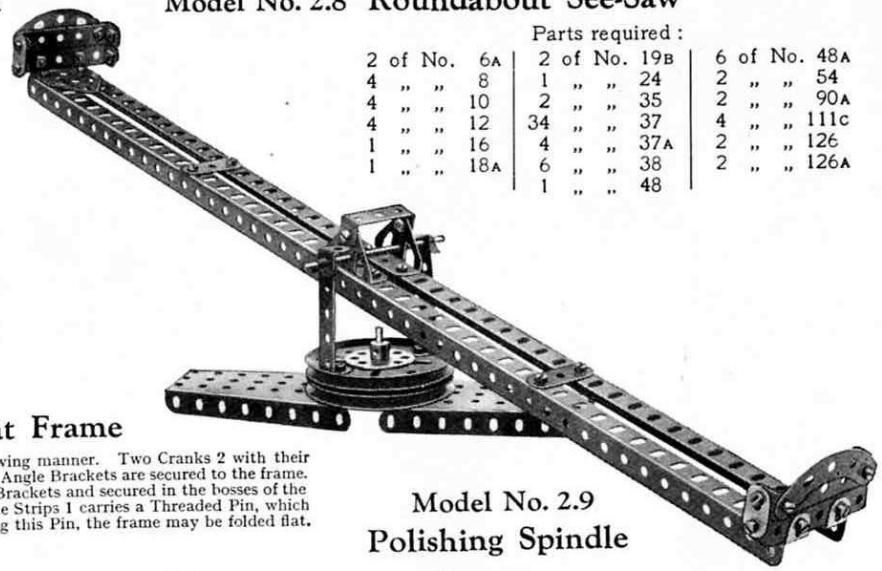
The Strips 1 are hinged to the frame in the following manner. Two Cranks 2 with their bosses facing inward are bolted to the Strips 1 and two Angle Brackets are secured to the frame. A Rod is then pushed through the holes in the Angle Brackets and secured in the bosses of the Cranks. A Double Bracket fastened to the ends of the Strips 1 carries a Threaded Pin, which fits in the holes in the Flat Trunnions 3. By removing this Pin, the frame may be folded flat.



Parts required :

10	of	No.	1
4	„	„	8
4	„	„	10
3	„	„	11
6	„	„	12
2	„	„	12A
1	„	„	18A
54	„	„	37
2	„	„	37A
2	„	„	38
1	„	„	45
2	„	„	62
4	„	„	90A
2	„	„	111c
1	„	„	115
4	„	„	125
2	„	„	126
2	„	„	126A

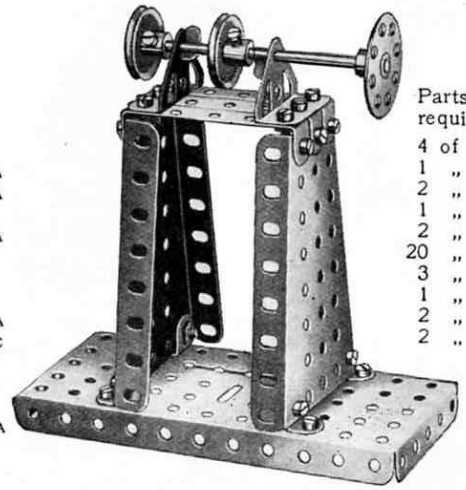
Model No. 2.8 Roundabout See-Saw



Parts required :

2	of	No.	6A
4	„	„	8
4	„	„	10
4	„	„	12
1	„	„	16
1	„	„	18A
2	of	No.	19B
1	„	„	24
2	„	„	35
34	„	„	37
4	„	„	37A
6	„	„	38
1	„	„	48
6	of	No.	48A
2	„	„	54
2	„	„	90A
4	„	„	111c
2	„	„	126
2	„	„	126A

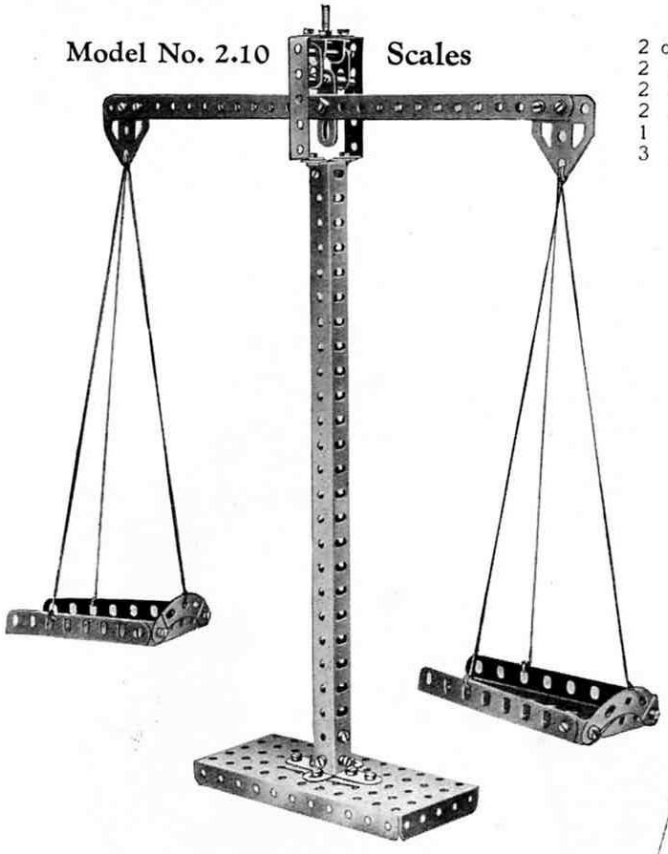
Model No. 2.9 Polishing Spindle



Parts required :

4	of	No.	12
1	„	„	16
2	„	„	22
1	„	„	24
2	„	„	35
20	„	„	37
3	„	„	48A
1	„	„	52
2	„	„	54
2	„	„	126

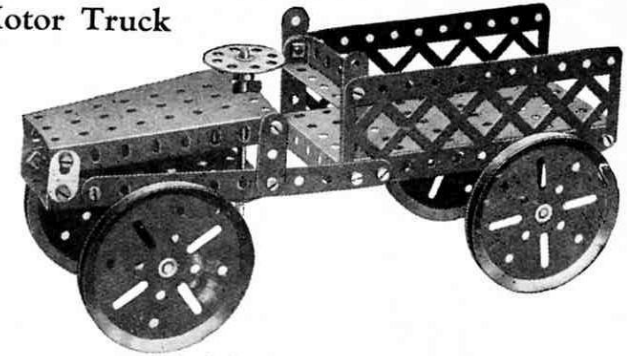
Model No. 2.10 Scales



Parts required :

2	of No.	1	2	of No.	18A	1	of No.	52
1	„ „	6A	2	„ „	35	2	„ „	54
2	„ „	8	31	„ „	37	2	„ „	62
2	„ „	10	4	„ „	38	2	„ „	90A
1	„ „	11	1	„ „	40	1	„ „	115
2	„ „	12	1	„ „	45	2	„ „	126A
2	„ „	12A	4	„ „	48A			

Model No. 2.12 Motor Truck

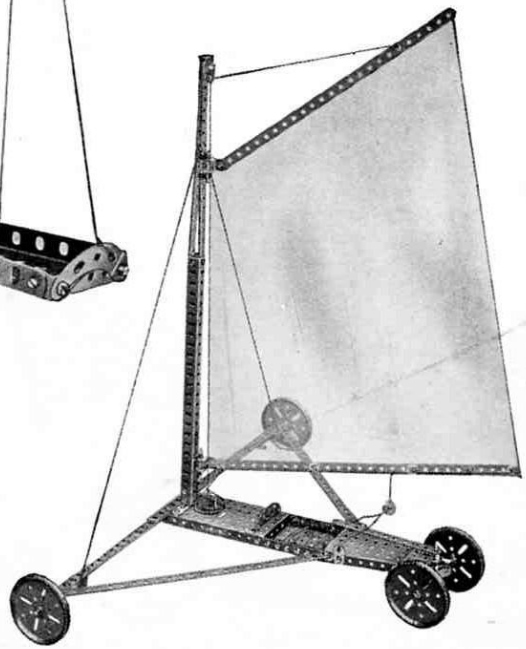


Parts required :

2	of No.	2	4	of No.	19B	3	of No.	48A
2	„ „	5	1	„ „	22	1	„ „	52
2	„ „	6A	1	„ „	24	2	„ „	54
2	„ „	10	1	„ „	35	2	„ „	100
1	„ „	11	23	„ „	37	1	„ „	111c
3	„ „	16	2	„ „	37A	2	„ „	126A
			1	„ „	40			

A cord passed twice round a 1" fast Pulley Wheel on the lower end of the steering column is tied to the ends of a $2\frac{1}{2}" \times \frac{1}{2}"$ Double Angle Strip, which is pivoted by means of a Bolt and Lock-Nuts to a Double Bracket bolted to the lower Sector Plate. The front axle is journalled in the end holes of the Double Angle Strip.

Model No. 2.11 Sand Yacht



Parts required :

8	of No.	1
2	„ „	2
1	„ „	5
4	„ „	8
4	„ „	10
4	„ „	11
12	„ „	12
2	„ „	12A
3	„ „	16
1	„ „	17
2	„ „	18A
4	„ „	19B
1	„ „	23
1	„ „	24
12	„ „	35
60	„ „	37
9	„ „	38
1	„ „	40
8	„ „	48A
1	„ „	52
1	„ „	54
1	„ „	62
1	„ „	90A
1	„ „	115
4	„ „	125
1	„ „	126
2	„ „	126A

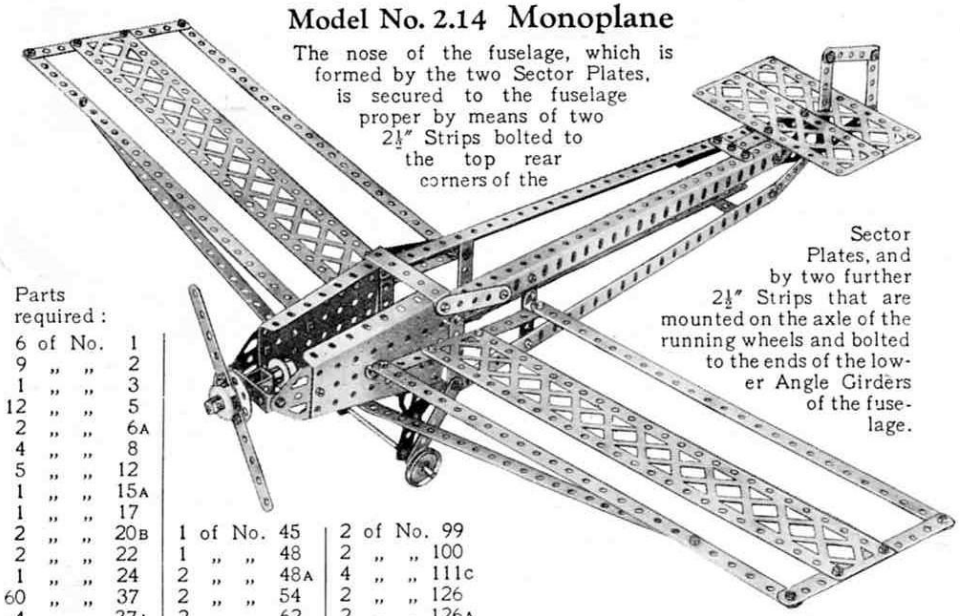
Model No. 2.13 Towel Horse

Parts required :

4	of No.	12
2	„ „	22A
28	„ „	37
2	„ „	37A
8	„ „	38
4	„ „	90A
2	„ „	111c

Model No. 2.14 Monoplane

The nose of the fuselage, which is formed by the two Sector Plates, is secured to the fuselage proper by means of two 2½" Strips bolted to the top rear corners of the Sector Plates, and by two further 2½" Strips that are mounted on the axle of the running wheels and bolted to the ends of the lower Angle Girders of the fuselage.

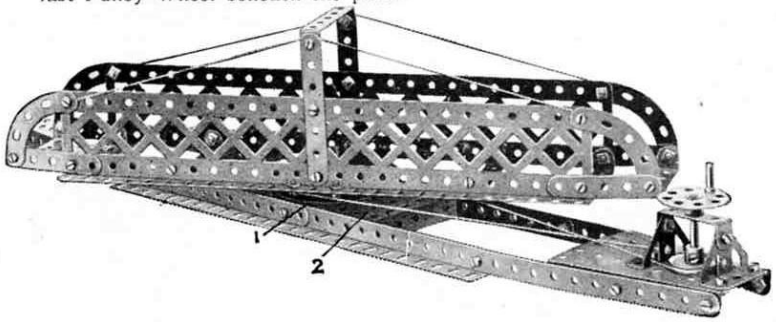


Parts required :

6	of	No.	1	1	of	No.	45
9	„	„	2	1	„	„	48
1	„	„	3	2	„	„	48A
12	„	„	5	2	„	„	54
2	„	„	6A	2	„	„	62
4	„	„	8	2	„	„	99
5	„	„	12	2	„	„	100
1	„	„	15A	4	„	„	111c
1	„	„	17	2	„	„	126
2	„	„	20B	2	„	„	126A
2	„	„	22				
1	„	„	24				
60	„	„	37				
4	„	„	37A				

Model No. 2.15 Turntable

The two sides of the revolving portion are joined in the middle by two pairs of 2½" Strips, each pair being overlapped three holes and bolted to the 3" Pulley Wheel 1. An Axle Rod secured in the latter is journalled in the bottom plate 2 and retained in position by a 1" fast Pulley Wheel beneath the plate.

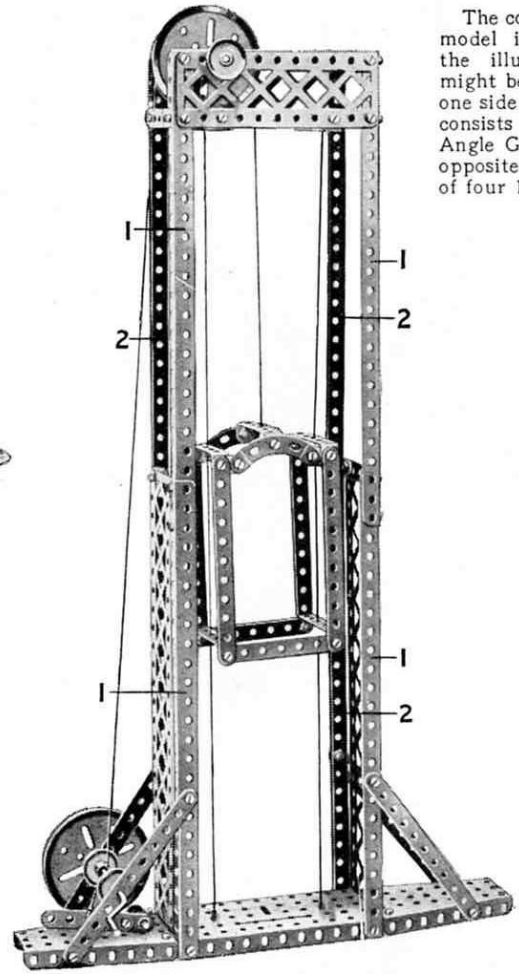


Parts required :

4	of	No.	1
2	„	„	3
8	„	„	5
4	„	„	8
1	„	„	17
1	„	„	18A
1	„	„	19B
3	„	„	22
1	„	„	24
45	„	„	37
4	„	„	37A
4	„	„	38
1	„	„	48
7	„	„	48A
1	„	„	52
2	„	„	54
4	„	„	90A
2	„	„	99
4	„	„	111c

Model No. 2.16 Elevator

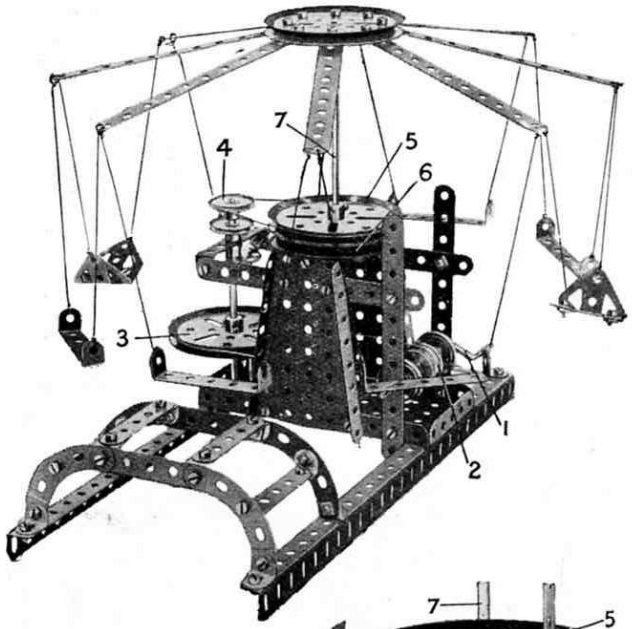
The construction of this model is fairly clear in the illustration, but it might be pointed out that one side of the framework consists of four 12½" Angle Girders 1 while the opposite side is composed of four 12½" Strips 2.



Parts required :

4	of	No.	1
8	„	„	2
2	„	„	3
8	„	„	5
4	„	„	8
4	„	„	10
1	„	„	11
12	„	„	12
1	„	„	16
1	„	„	18A
2	„	„	19B
1	„	„	19S
4	„	„	22
1	„	„	35
60	„	„	37
6	„	„	37A
2	„	„	38
1	„	„	40
7	„	„	48A
1	„	„	52
2	„	„	54
1	„	„	62
2	„	„	90A
2	„	„	99
2	„	„	100
6	„	„	111c

Model No. 2.17 Roundabout



Parts required :

13	of No.	2
6	„ „	5
2	„ „	8
12	„ „	12
2	„ „	12A
2	of No.	15
1	„ „	19
4	„ „	19B
2	„ „	20B
4	„ „	22
1	„ „	24
48	„ „	37
2	„ „	40
7	„ „	48A
1	„ „	52
2	„ „	54
4	„ „	90A
2	„ „	126
2	„ „	126A

When the Crank Handle is turned, the drum 2 (formed by butting together two ¾" Flanged Wheels) turns the 3" Pulley Wheel 3 by means of an endless cord. The 1" fast Pulley Wheel 4 similarly turns a second 3" Pulley Wheel 5 resting on another 3" Pulley Wheel 6 (see Fig. 2.17A). The end of the Axle Rod 7 is quite free to revolve in the boss of the lower 3" Pulley Wheel 6.

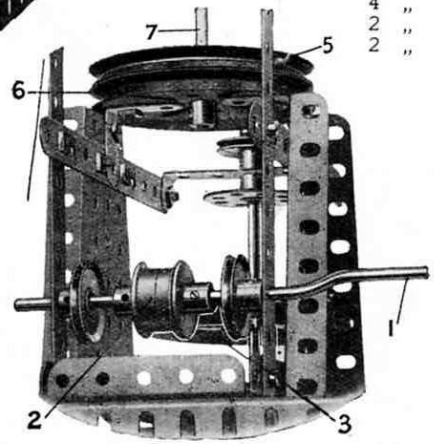
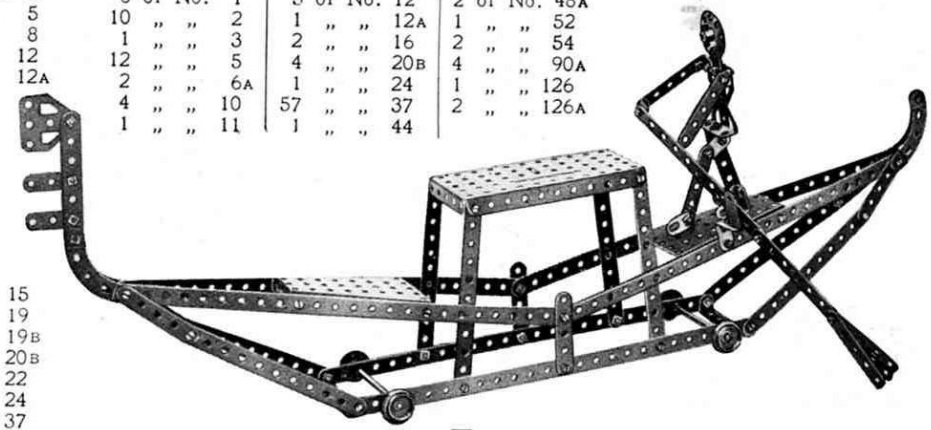


FIG. 2.17A

Model No. 2.18 Gondola

Parts required :

6	of No.	1
10	„ „	2
1	„ „	3
12	„ „	5
2	„ „	6A
4	„ „	10
1	„ „	11
5	of No.	12
1	„ „	12A
2	„ „	16
4	„ „	20B
1	„ „	24
57	„ „	37
1	„ „	44
2	of No.	48A
1	„ „	52
2	„ „	54
4	„ „	90A
1	„ „	126
2	„ „	126A

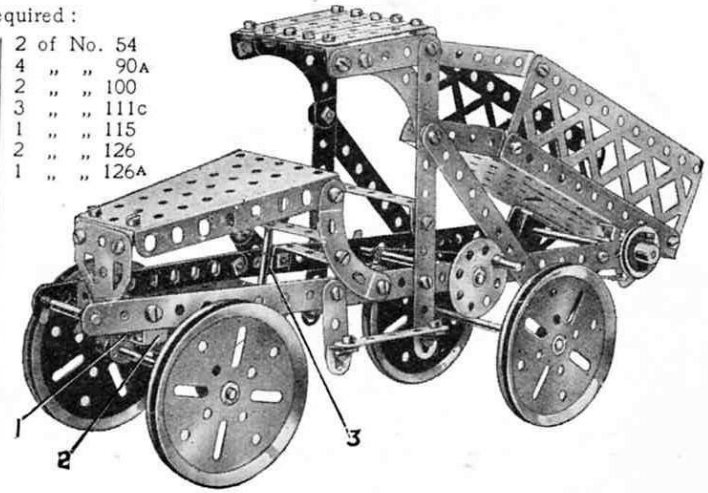


Model No. 2.19 Tipping Motor Wagon

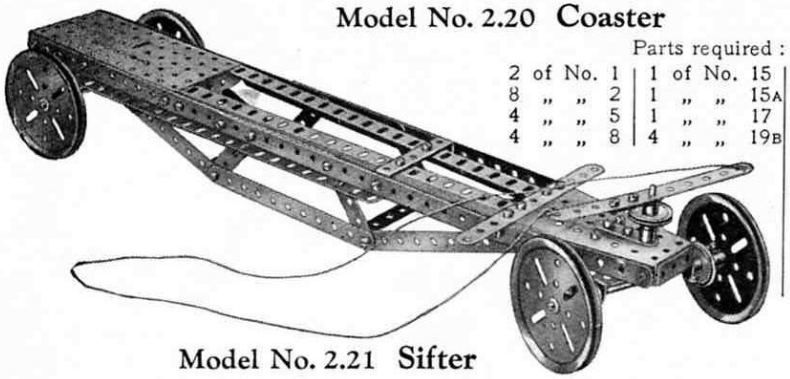
The front Axle Rod is journalled in a 2½" × ½" Double Angle Strip 1 which in turn is bolted to a Double Bent Strip 2. The Double Bent Strip is pivoted to the Sector Plate by a Bolt and two Nuts. Cord passing over a 1" Pulley Wheel attached to the Rod 3 is fastened to the ends of the Double Angle Strip 1, and by rotating another pulley, which represents the steering wheel, the road wheels are deflected.

Parts required :

2	of No.	1
4	„ „	2
11	„ „	5
2	„ „	6A
6	„ „	12
4	„ „	16
1	„ „	17
1	„ „	18A
4	„ „	19B
4	„ „	22
1	„ „	24
6	„ „	35
59	„ „	37
4	„ „	37A
1	„ „	40
1	„ „	45
1	„ „	48
7	„ „	48A
1	„ „	52
2	of No.	54
4	„ „	90A
2	„ „	100
3	„ „	111C
1	„ „	115
2	„ „	126
1	„ „	126A



Model No. 2.20 Coaster

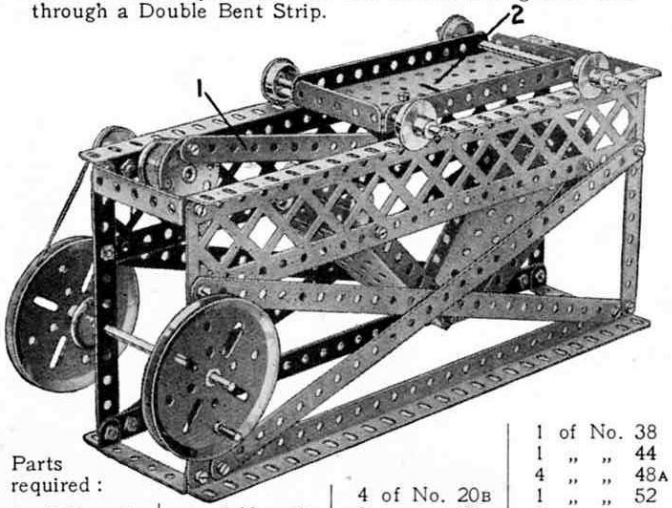


Parts required :

2	of	No.	1	1	of	No.	15	3	of No. 22
8	„	„	2	1	„	„	15A	1	„ „ 23
4	„	„	5	1	„	„	17	1	„ „ 24
4	„	„	8	4	„	„	19B	44	„ „ 37
								4	„ „ 38
								1	„ „ 48
								4	„ „ 48A
								1	„ „ 52
								1	„ „ 54
								2	„ „ 62
								2	„ „ 126

Model No. 2.21 Sifter

The 5½" Strip 1 is pivoted by a Bolt and two Nuts (S.M. 262) to the Bush Wheel and also to a Trunnion bolted to the under-surface of the Flanged Plate 2. The Rod carrying the Bush Wheel is journalled in one of the side girders and through a Double Bent Strip.



Parts required :

4	of	No.	1	4	of	No.	10	4	of No. 20B
5	„	„	2	2	„	„	15	3	„ „ 22
4	„	„	5	1	„	„	15A	1	„ „ 24
2	„	„	6A	1	„	„	17	4	„ „ 35
4	„	„	8	2	„	„	19B	36	„ „ 37
								4	„ „ 37A

1	of	No.	38
1	„	„	44
4	„	„	48A
1	„	„	52
2	„	„	54
2	„	„	99
2	„	„	111C
1	„	„	115
1	„	„	126

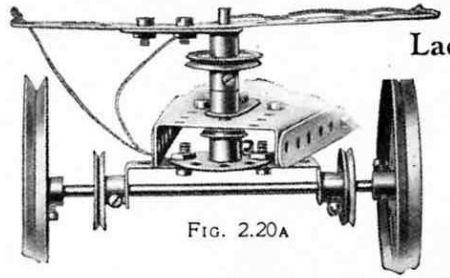
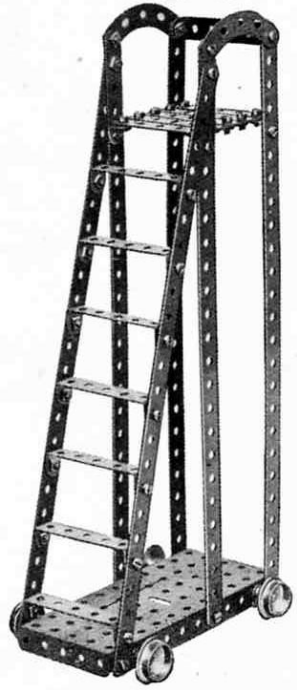


FIG. 2.20A

Model No. 2.24 Ladder on Wheels

Parts required :

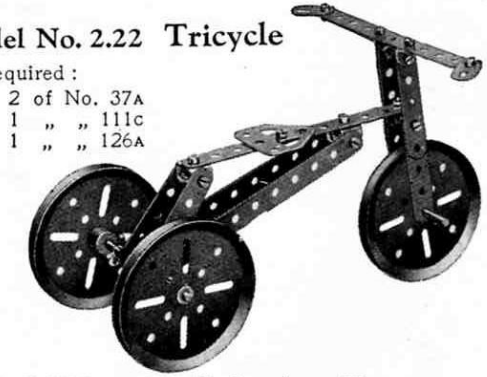
6	of	No.	1
7	„	„	5
4	„	„	12
2	„	„	16
4	„	„	20B
40	„	„	37
4	„	„	38
8	„	„	48A
1	„	„	52
2	„	„	90A



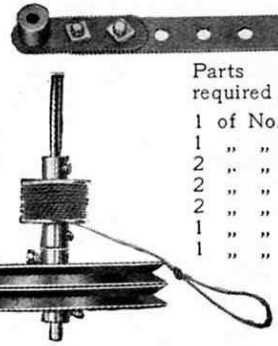
Model No. 2.22 Tricycle

Parts required :

4	of	No.	2	2	of	No.	37A
6	„	„	5	1	„	„	111C
2	„	„	10	1	„	„	126A
3	„	„	11				
2	„	„	12				
1	„	„	16				
1	„	„	18A				
3	„	„	19B				
2	„	„	35				
15	„	„	37				



Model No. 2.23 Spinning Top

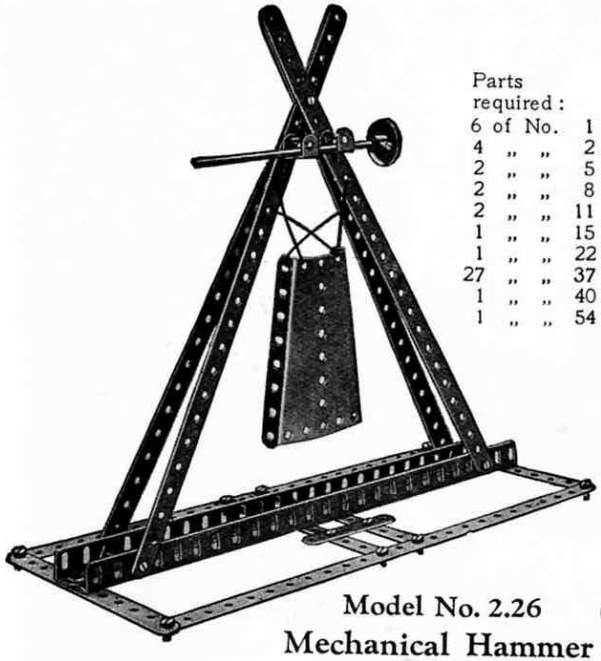


Parts required :

1	of	No.	2
1	„	„	16
2	„	„	19B
2	„	„	20B
2	„	„	37
1	„	„	40
1	„	„	62

The drum on which the cord is wound consists of two ¾" Flanged Wheels butted together. While the cord is being pulled, the top is held steadily on some smooth surface by means of the handle shown above. The handle is then lifted off, allowing the top to spin freely.

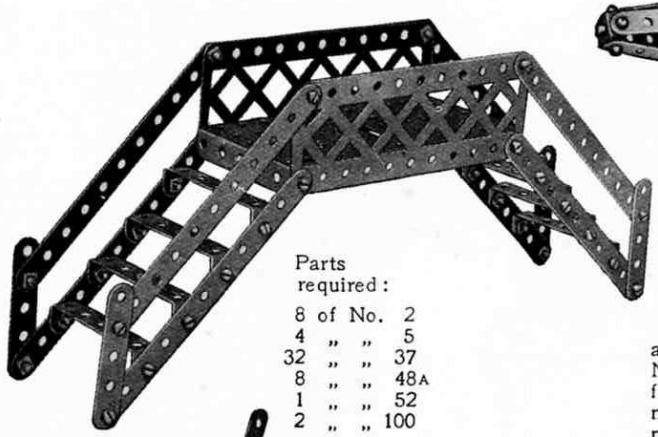
Model No. 2.25 Gong



Parts required :

6	of No.	1
4	„ „	2
2	„ „	5
2	„ „	8
2	„ „	11
1	„ „	15
1	„ „	22
27	„ „	37
1	„ „	40
1	„ „	54

Model No. 2.27 High Level Bridge



Parts required :

8	of No.	2
4	„ „	5
32	„ „	37
8	„ „	48A
1	„ „	52
2	„ „	100

Model No. 2.28 Airship

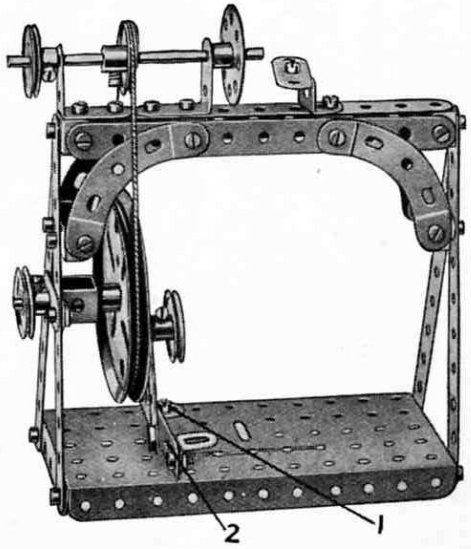
Parts required :

4	of No.	1	2	of No.	11
3	„ „	5	10	„ „	12
3	„ „	10	25	„ „	37

3 of No. 48A

Model No. 2.29 Treadle Lathe

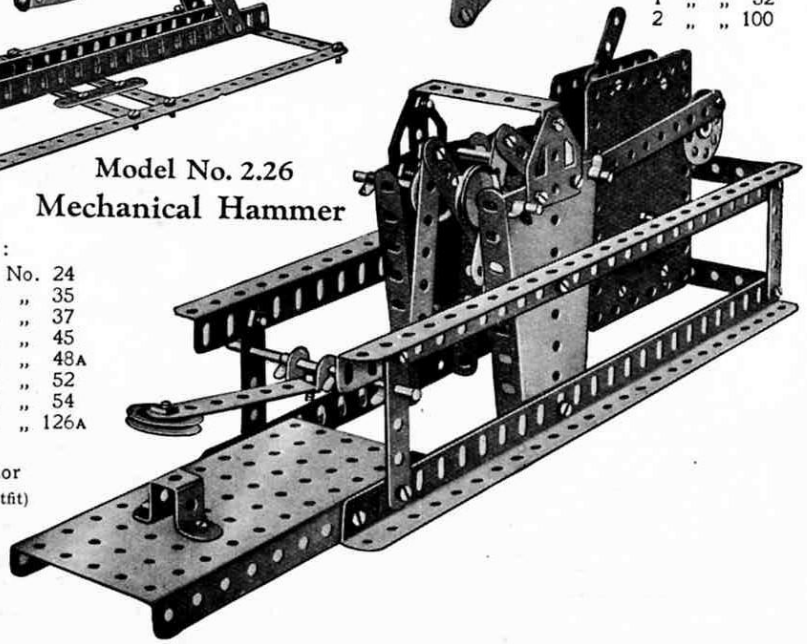
The 2½" Strip 2, forming the treadle, is attached pivotally by means of a Bolt and two Nuts to the Angle Bracket 1. One end of a further 2½" Strip is connected by the same means to the 2½" Strip 2, and the other end is mounted on a Threaded Pin secured to the 3" Pulley Wheel.



Parts required :

7	of No.	2
1	„ „	3
1	„ „	5
2	„ „	6A
4	„ „	11
6	„ „	12
2	„ „	12A
1	„ „	16
1	„ „	17
3	„ „	19B
4	„ „	22
1	„ „	24
1	„ „	35
34	„ „	37
2	„ „	37A
4	„ „	38
1	„ „	40
1	„ „	45
1	„ „	52
4	„ „	90A
1	„ „	115
1	„ „	125

Model No. 2.26 Mechanical Hammer

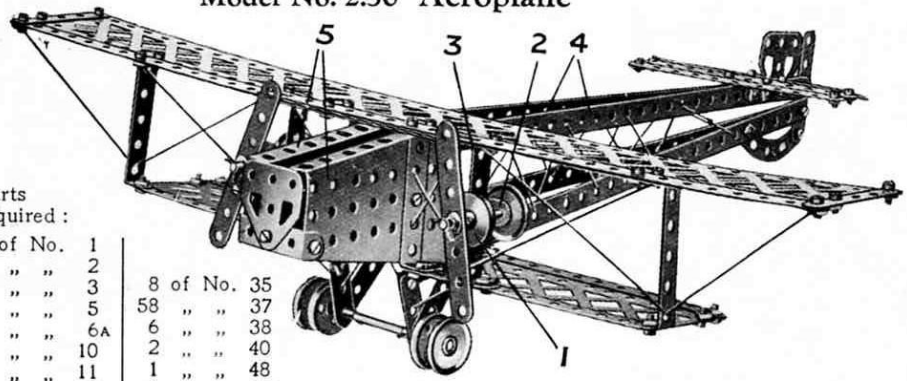


Parts required :

2	of No.	2	1	of No.	24
1	„ „	3	8	„ „	35
6	„ „	5	32	„ „	37
4	„ „	8	1	„ „	45
1	„ „	11	3	„ „	48A
1	„ „	12	1	„ „	52
3	„ „	16	2	„ „	54
4	„ „	22	2	„ „	126A
1	„ „	22A			

Clockwork Motor
(not included in Outfit)

Model No. 2.30 Aeroplane



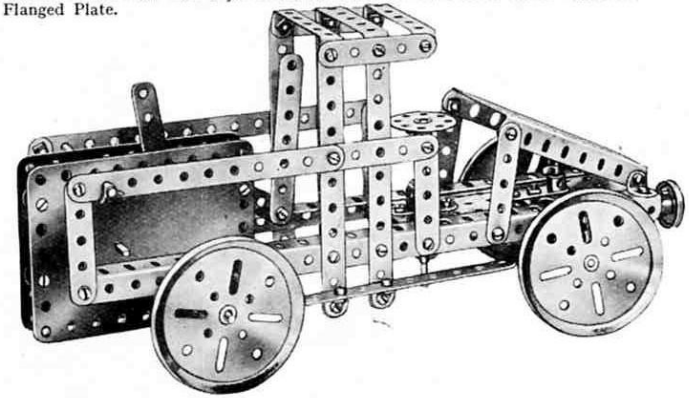
Parts required :

7	of No.	1	8	of No.	35
2	„ „	2	58	„ „	37
2	„ „	3	6	„ „	38
7	„ „	5	2	„ „	40
2	„ „	6A	1	„ „	48
8	„ „	10	6	„ „	48A
2	„ „	11	2	„ „	54
8	„ „	12	1	„ „	90A
1	„ „	16	2	„ „	99
2	„ „	17	2	„ „	100
2	„ „	20B	2	„ „	126A
4	„ „	22			
2	„ „	22A			

Each engine is represented by a ¾" Flanged Wheel 1 and a 1" ast Pulley Wheel secured to a 2" Rod journalled in a Double Bracket 2, which is bolted to the 2½" × ½" vertical Double Angle Strip 3. The 12½" Strips 4 of the fuselage proper are bolted to the two Sector Plates 5, and also by means of Angle Brackets to the wings. The tail plane consists of two 5½" Strips to which a similar Strip, representing the movable portion of the plane, is attached by means of Flat Brackets.

Model No. 2.31 Motor Lorry

The driving spindle of the Clockwork Motor is removed and in its place is inserted a 3½" Rod forming the rear axle, the special Pinion inside the Motor being secured to this Rod, of course, instead of to the driving spindle. The steering is operated by a Bush Wheel on a vertical 3½" Rod journalled in a Double Bent Strip. Cord is wound round the lower part of this Rod and its ends are secured one to each end of a Double Angle Strip carrying the front axle. A Crank is bolted to this Double Angle Strip and carries a short Rod that is journalled in the boss of a further Crank bolted to the Flanged Plate.



Parts required :

8	of No.	2	
1	„ „	3	
10	„ „	5	
6	„ „	10	
1	„ „	15	
1	„ „	15A	
2	„ „	16	
1	„ „	18A	
4	„ „	19B	
2	„ „	22	
1	„ „	24	
12	„ „	35	
49	„ „	37	
3	„ „	38	
1	„ „	45	
4	„ „	48A	
1	„ „	52	
1	„ „	54	
2	„ „	62	
2	„ „	111c	
Clockwork Motor (not included in Outfit)			

Model No. 2.32 Try-Your-Strength Machine

The Bush Wheel 1 is secured to a short Axle Rod 2, the lower end of which rests on a pair of Angle Brackets 3 bolted to the ends of four 5½" Strips 4. The Strips 4 are pivoted as shown (Fig. 2.32A) on a 1½" Rod 5, and on their opposite ends rests a ½" loose Pulley Wheel 6. When the Bush Wheel 1 is struck, the 5½" Strips fling the Pulley Wheel 6 upward, but the wheel is guided by the vertical 12½" Strips 7. The weight of the Strips 4 then causes the Bush Wheel to resume its original position.

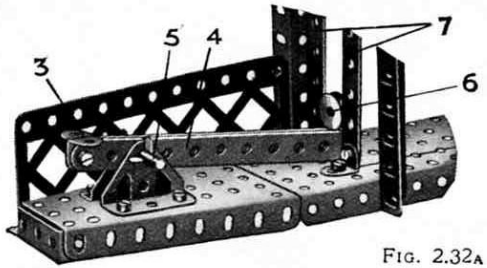


FIG. 2.32A

Parts required :

6	of No.	1	2	of No.	10
6	„ „	2	10	„ „	12
1	„ „	3	2	„ „	18A
2	„ „	5	1	„ „	23
2	„ „	6A	1	„ „	24
4	„ „	8	3	„ „	35
			60	„ „	37
			6	„ „	37A
			4	„ „	38
			1	„ „	45
			1	„ „	48
			1	„ „	48A
			1	„ „	52
			2	„ „	54
			3	„ „	90A
			2	„ „	100
			2	„ „	126

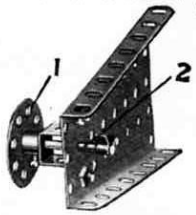
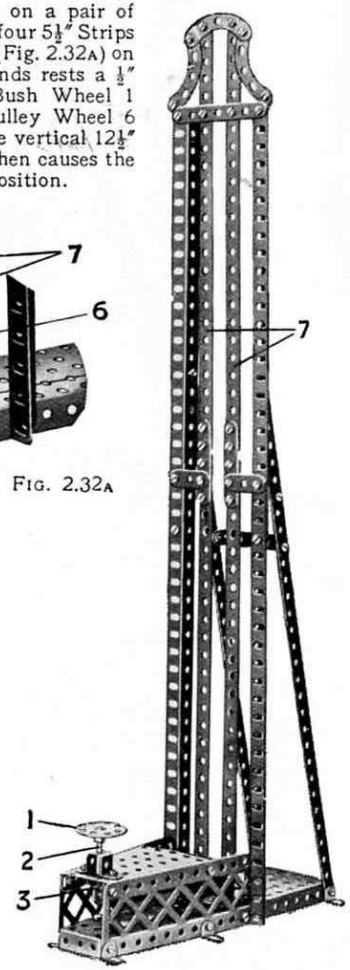
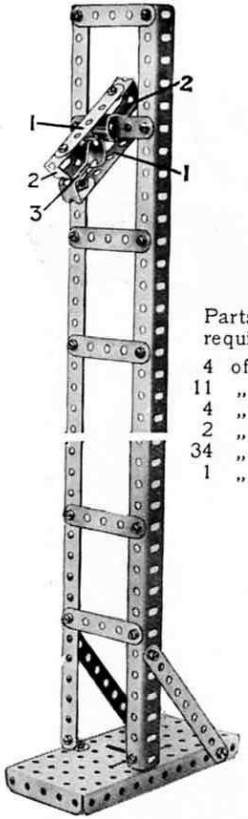


FIG. 2.32B



Model No. 2.33 Performing Meccanitian



Parts required :

4	of No.		2
11	„	„	5
4	„	„	8
2	„	„	12
34	„	„	37
1	„	„	52

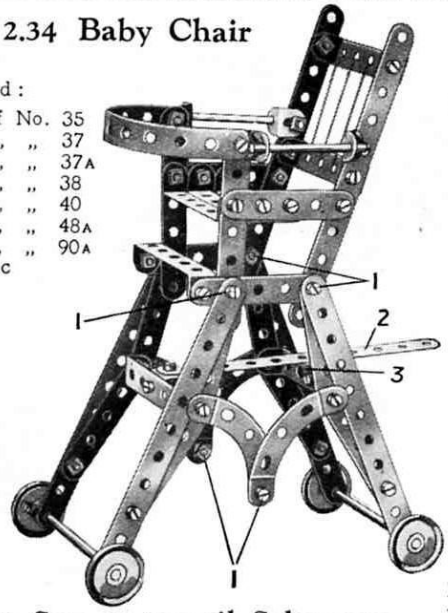
The Meccanitian consists of two 2½" Strips 1 to the ends of which two 5½" Strips 2, bent as shown, are bolted. The slot 3 should be passed over the top strip of the ladder, when the device will fall "head over heels" to the bottom.

Model No. 2.34 Baby Chair

Parts required :

8	of No.		2	4	of No.		35
2	„	„	3	35	„	„	37
12	„	„	5	2	„	„	37A
6	„	„	12	4	„	„	38
2	„	„	16	1	„	„	40
2	„	„	17	8	„	„	48A
4	„	„	22	4	„	„	90A
				1	of No.		111c

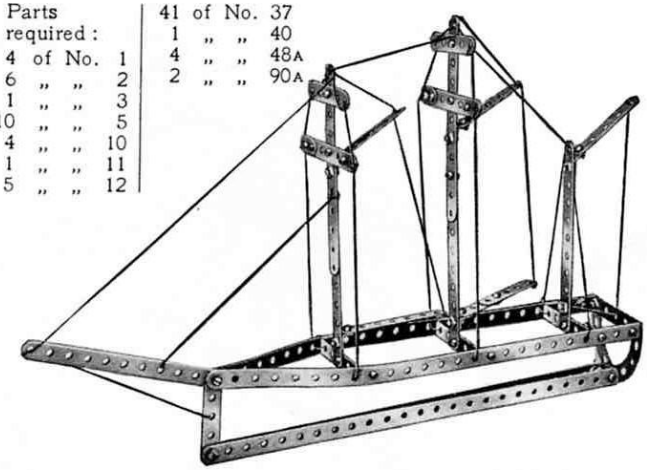
The Bolts 1 are all secured pivotally (see S.M. Nos. 262 and 263), and the height of the chair may be adjusted by fitting any hole in the Strip 2 over the shank of a Bolt that is secured in an Angle Bracket bolted to the Double Angle Strip 3.



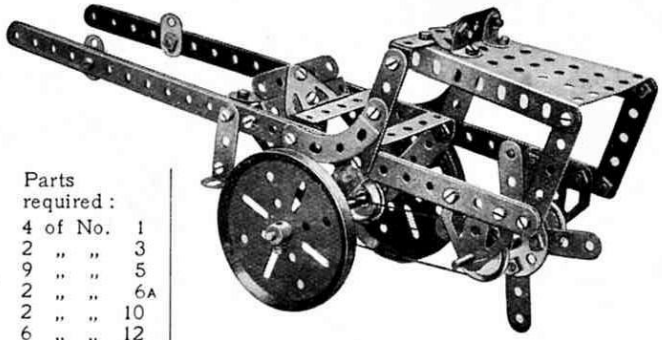
Model No. 2.35 Square-topsail Schooner

Parts required :

4	of No.		1
6	„	„	2
1	„	„	3
10	„	„	5
4	„	„	10
1	„	„	11
5	„	„	12
41	„	„	37
1	„	„	40
4	„	„	48A
2	„	„	90A



Model No. 2.36 Hay Tedder



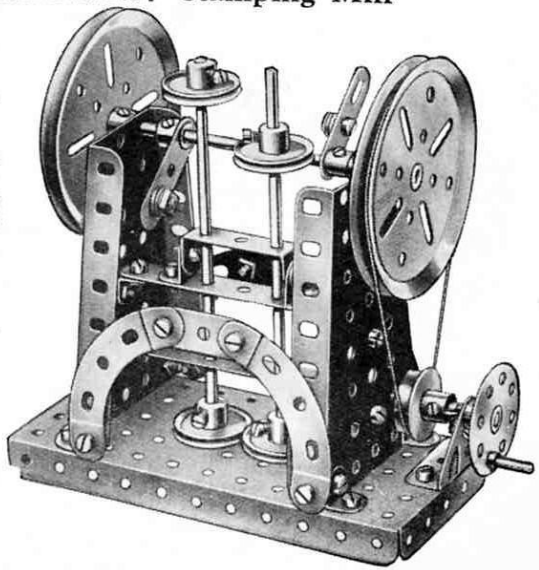
Parts required :

4	of No.		1
2	„	„	3
9	„	„	5
2	„	„	6A
2	„	„	10
6	„	„	12
1	„	„	15A
1	„	„	16
2	„	„	19
2	„	„	20B
2	„	„	22
1	of No.		24
2	„	„	35
34	„	„	37
6	„	„	37A
4	of No.		38
1	„	„	40
4	„	„	48A
1	„	„	54
3	of No.		90A
6	„	„	111c
2	„	„	126
2	„	„	126A

Model No. 2.37 Stamping Mill

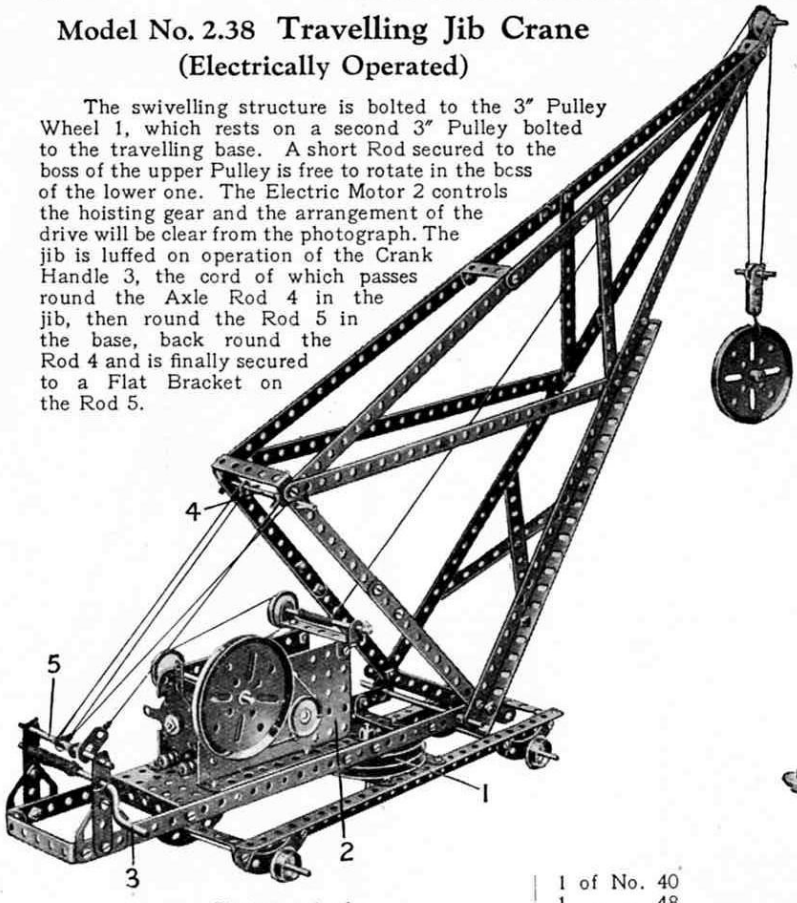
Parts required :

2	of No.		3
2	„	„	6A
10	„	„	12
2	„	„	15
1	„	„	15A
1	„	„	17
2	„	„	19B
1	„	„	20B
4	„	„	22
1	„	„	24
1	„	„	35
30	„	„	37
2	„	„	37A
11	„	„	38
1	„	„	48
1	„	„	52
2	„	„	54
2	„	„	62
4	„	„	90A
2	„	„	111c
1	„	„	115
1	„	„	126



Model No. 2.38 Travelling Jib Crane (Electrically Operated)

The swivelling structure is bolted to the 3″ Pulley Wheel 1, which rests on a second 3″ Pulley bolted to the travelling base. A short Rod secured to the boss of the upper Pulley is free to rotate in the boss of the lower one. The Electric Motor 2 controls the hoisting gear and the arrangement of the drive will be clear from the photograph. The jib is luffed on operation of the Crank Handle 3, the cord of which passes round the Axle Rod 4 in the jib, then round the Rod 5 in the base, back round the Rod 4 and is finally secured to a Flat Bracket on the Rod 5.



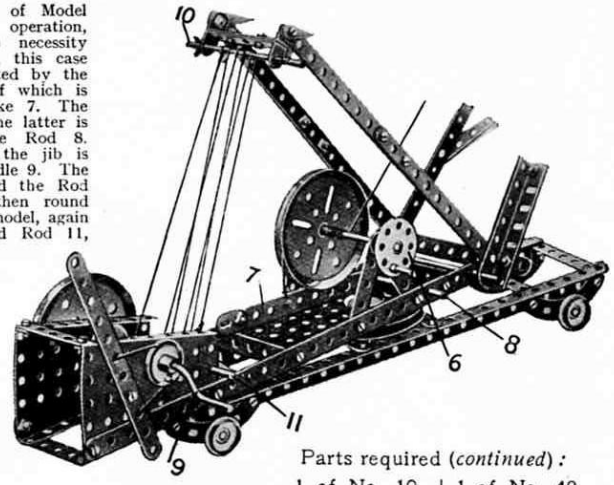
Parts required :

10	of	No.	1	2	of	No.	12	4	of	No.	20B
9	„	„	2	2	„	„	15	4	„	„	22
2	„	„	3	1	„	„	15A	1	„	„	23
2	„	„	5	2	„	„	16	1	„	„	24
2	„	„	6A	1	„	„	17	14	„	„	35
4	„	„	8	2	„	„	18A	60	„	„	37
1	„	„	10	1	„	„	19	6	„	„	37A
1	„	„	11	4	„	„	19B	14	„	„	38
1	of	No.	40								
1	„	„	48								
7	„	„	48A								
1	„	„	52								
1	„	„	57								
4	„	„	90A								
5	„	„	111c								
2	„	„	126A								

Electric Motor (not included in Outfit)

Model No. 2.39 Travelling Jib Crane (Hand Operated)

This shows a section of Model No. 2.38 fitted for hand operation, thus dispensing with the necessity of the Electric Motor. In this case the hoisting cord is operated by the hand wheel 6, the Rod of which is controlled by a band brake 7. The end hole of the lever of the latter is pivotally mounted on the Rod 8. The luffing movement of the jib is effected by the Crank Handle 9. The operating cord passes round the Rod 10 attached to the jib, then round Rod 11 in the base of the model, again round Rod 10, back round Rod 11, and once more round Rod 10. The end of the cord is then tied to a Flat Bracket on the Rod 11.

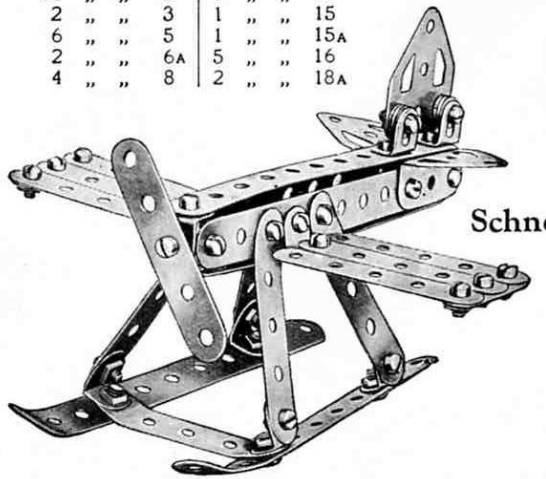


Parts required :

10	of	No.	1	3	of	No.	10
11	„	„	2	1	„	„	11
2	„	„	3	1	„	„	15
6	„	„	5	1	„	„	15A
2	„	„	6A	5	„	„	16
4	„	„	8	2	„	„	18A

Parts required (*continued*) :

1	of	No.	19	1	of	No.	48
4	„	„	19B	7	„	„	48A
4	„	„	20B	1	„	„	52
4	„	„	22	2	„	„	54
1	„	„	23	1	„	„	57
1	„	„	24	1	„	„	62
12	„	„	35	4	„	„	90A
57	„	„	37	1	„	„	111c
1	„	„	40	1	„	„	115



Model No. 2.40 Schneider Trophy Seaplane

Parts required :

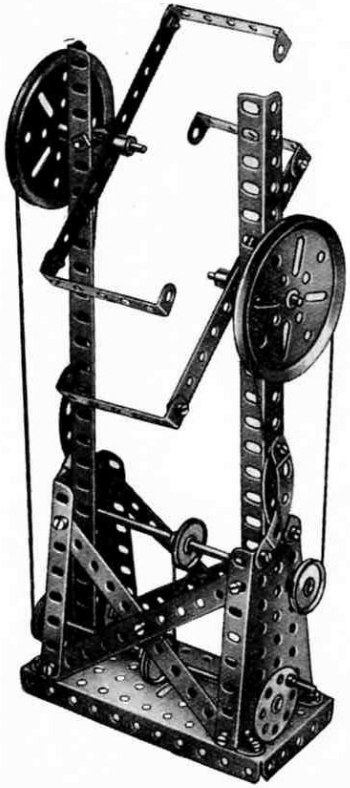
6	of	No.	2	34	of	No.	37
12	„	„	5	3	„	„	37A
2	„	„	6A	6	„	„	38
2	„	„	11	2	„	„	111c
12	„	„	12	2	„	„	126

1 of No. 126A

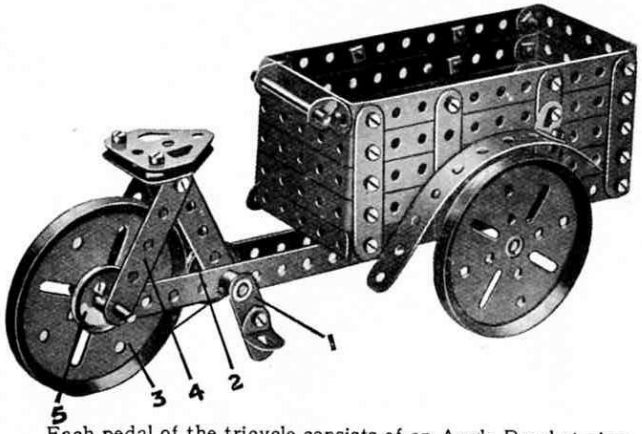
Model No. 2.41 Candy Puller

Parts required :

6	of	No.	2	36	of	No.	37
2	„	„	8	4	„	„	38
6	„	„	12	1	„	„	40
2	„	„	15	4	„	„	48A
2	„	„	17	1	„	„	52
2	„	„	19B	2	„	„	54
4	„	„	22	2	„	„	62
1	„	„	24	4	„	„	90A
3	„	„	35	1	„	„	115



Model No. 2.42 Carrier Tricycle



Each pedal of the tricycle consists of an Angle Bracket pivotally attached to a Crank 1 by means of a Bolt and two Nuts (see S.M. No. 262). The Cranks are secured to a 1½" Axle Rod carrying a 1" fast Pulley Wheel 2. A cord passes round this Pulley and around the 3" Pulley Wheel 3, which is spaced away from the 2½" Strips 4 by a 1" fast Pulley Wheel 5. The Double Bracket 6 (Fig. 2.42A) is attached pivotally to the lower framework by a Bolt and Lock-Nuts (S.M. 263).

Parts required :

12	of	No.	2
12	„	„	5
2	„	„	11
6	„	„	12
1	„	„	16
1	„	„	17
2	„	„	18A
3	„	„	19B
2	„	„	22
45	„	„	37
5	„	„	37A
1	„	„	40
8	„	„	48A
1	„	„	52
2	„	„	62
3	„	„	111C
2	„	„	126A

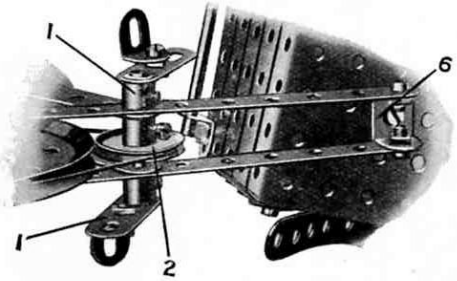
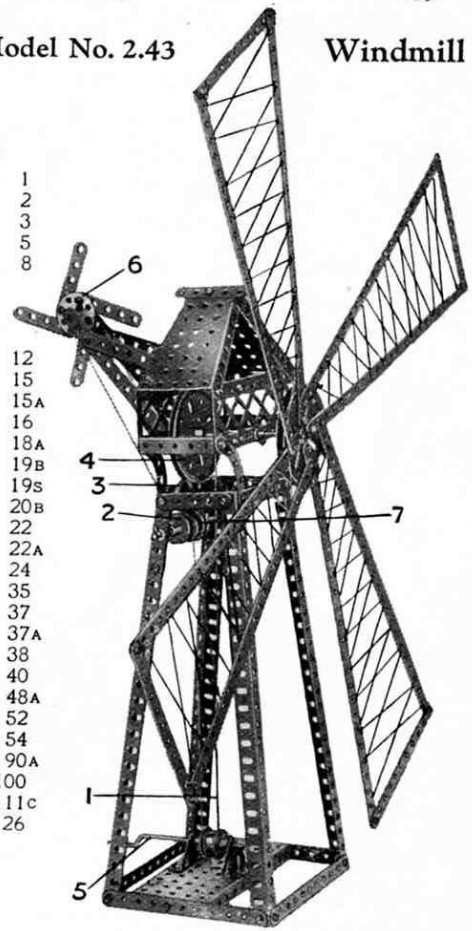


FIG. 2.42A

Model No. 2.43 Windmill

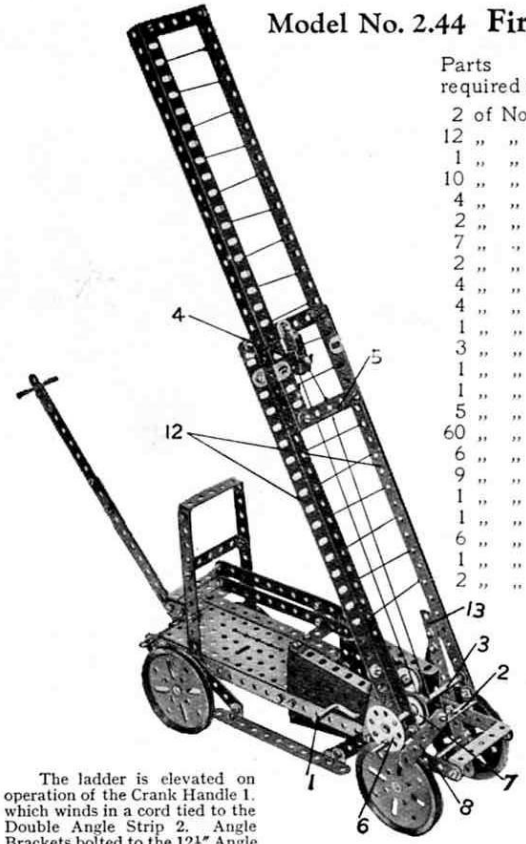
Parts required :

8	of	No.	1
13	„	„	2
2	„	„	3
10	„	„	5
4	„	„	8
4	of	No.	12
1	„	„	15
1	„	„	15A
1	„	„	16
1	„	„	18A
2	„	„	19B
1	„	„	19S
4	„	„	20B
2	„	„	22
1	„	„	22A
1	„	„	24
6	„	„	35
60	„	„	37
4	„	„	37A
7	„	„	38
2	„	„	40
2	„	„	48A
1	„	„	52
2	„	„	54
4	„	„	90A
2	„	„	100
4	„	„	111C
2	„	„	126



The operating cord 1 is given a complete turn round the pair of ¾" Flanged Wheels 2. It is then led round the 1" Loose Pulley 3, over the 3" Pulley 4, then down and round the ¾" Flanged Wheels secured to the Crank Handle 5. The vane 6 is rotated by a cord which passes round a 1" fixed Pulley 7 secured to the shaft of the Flanged Wheels 2.

Model No. 2.44 Fire Escape



Parts required :

2	of No.	1
12	„ „	2
1	„ „	3
10	„ „	5
4	„ „	8
2	„ „	10
7	„ „	12
2	„ „	12A
4	„ „	16
4	„ „	19B
1	„ „	19S
3	„ „	22
1	„ „	23
1	„ „	24
5	„ „	35
60	„ „	37
6	„ „	37A
9	„ „	38
1	„ „	40
1	„ „	44
6	„ „	111C
1	„ „	115
2	„ „	125

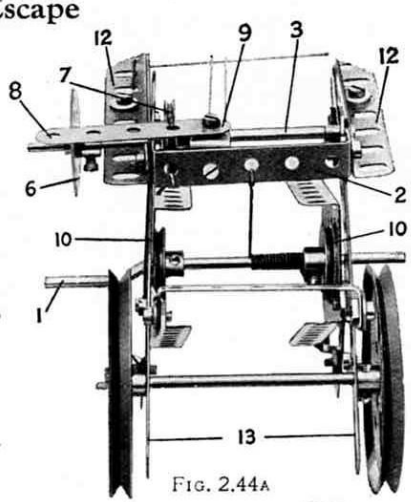
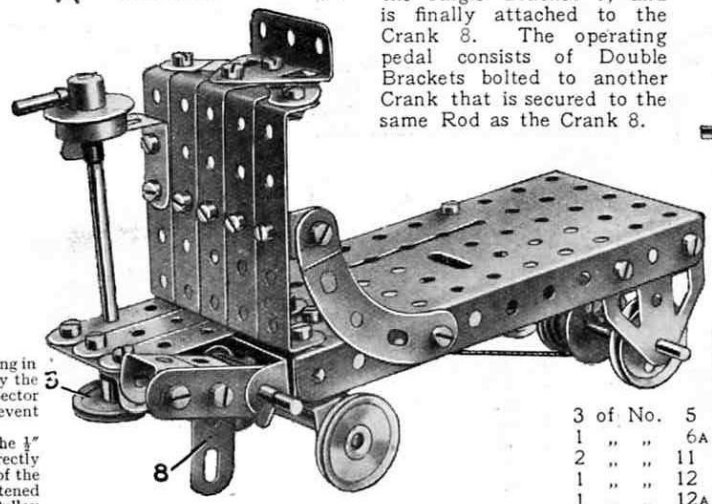


FIG. 2.44A

The ladder is elevated on operation of the Crank Handle 1. which winds in a cord tied to the Double Angle Strip 2. Angle Brackets bolted to the 12½" Angle Girders 12 are attached pivotally to the 5½" Strips 13 by means of Bolts and Nuts (S.M. 262), and the action of winding in the cord thus causes the ladder to swing upward. It is prevented from falling by the friction of the 1" Pulley Wheels 10 (Fig. 2.44A), which press against the two Sector Plates. When the ladder is fully elevated, its lower ends act as brakes to prevent the road wheels from revolving.

A second cord is wound upon the Rod 3. One end is then carried over the ½" loose Pulley Wheel 4 and tied to the 2½" Strip 5, the opposite end being carried directly to the same Strip and secured to it. When the handle 6 is turned, the two ends of the cord are wound and unwound simultaneously, and the ladder is extended or shortened as required. A permanent brake is provided by a cord passing over the 1" Pulley Wheel 7 and having both its ends secured to the 2½" Strip 8. The Strip 8 is bolted firmly to the Angle Bracket 9 (Fig. 2.44A) and keeps the brake continuously in action.



3	of No.	5
1	„ „	6A
2	„ „	11
1	„ „	12
1	„ „	12A
3	„ „	16
1	„ „	17

Model No. 2.45 Electric Truck

An underneath view of the truck is shown in Fig. 2.45A. The front axle is journalled in a 1½" × ½" Double Angle Strip 1 that is free to turn on a Double Bent Strip 2, from which it is spaced by a ½" loose Pulley. A length of cord is wrapped round the 1" Pulley 3, which is secured to the end of the steering column, and then passed through a Cranked Bent Strip 4 and secured to the Double Angle Strip 1 as shown. The brake cord 5 is attached to the Double Bent Strip 2, wrapped several times round the ¾" Flanged Wheels 6, passed through the Angle Bracket 7, and is finally attached to the Crank 8. The operating pedal consists of Double Brackets bolted to another Crank that is secured to the same Rod as the Crank 8.

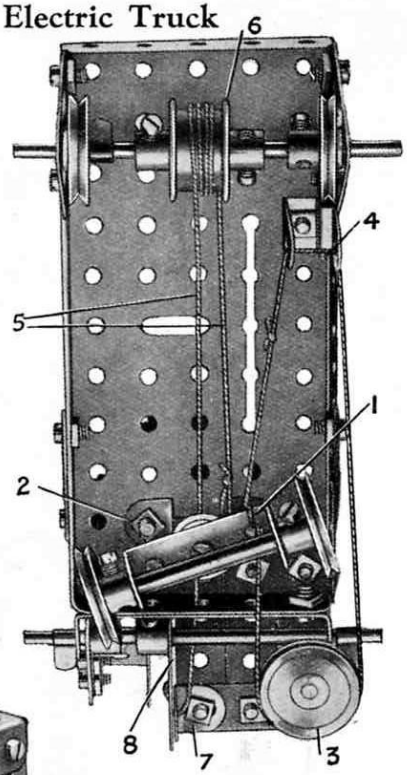


FIG. 2.45A

Parts required :

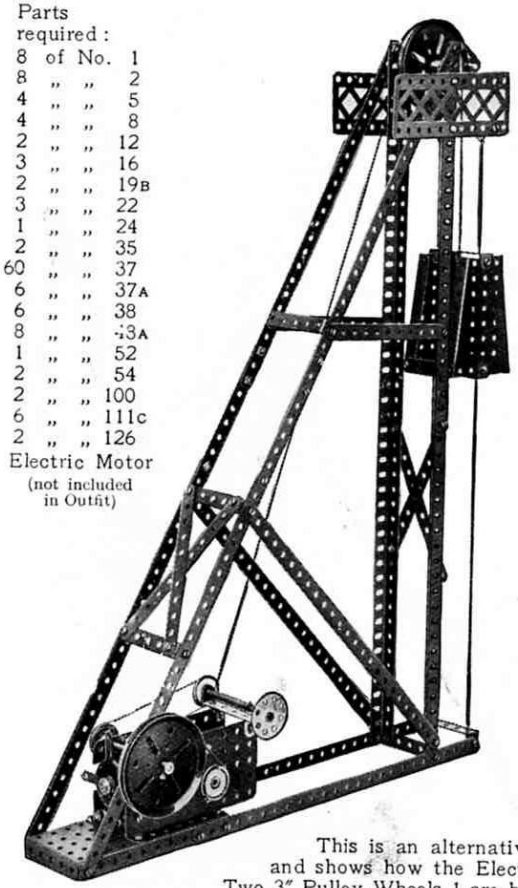
3	of No.	20B	1	of No.	45
4	„ „	22	1	„ „	48
1	„ „	22A	7	„ „	48A
1	„ „	23	1	„ „	52
4	„ „	35	2	„ „	62
35	„ „	37	3	„ „	90A
2	„ „	37A	1	„ „	111C
5	„ „	38	1	„ „	115
1	„ „	40	1	„ „	126
1	„ „	44	2	„ „	126A

Model No. 2.46 Pit Head Gear (Electrically Operated)

Parts required :

8	of No.	1	
8	„ „	2	
4	„ „	5	
4	„ „	8	
2	„ „	12	
3	„ „	16	
2	„ „	19B	
3	„ „	22	
1	„ „	24	
2	„ „	35	
60	„ „	37	
6	„ „	37A	
6	„ „	38	
8	„ „	38A	
1	„ „	52	
2	„ „	54	
2	„ „	100	
6	„ „	111c	
2	„ „	126	

Electric Motor (not included in Outfit)



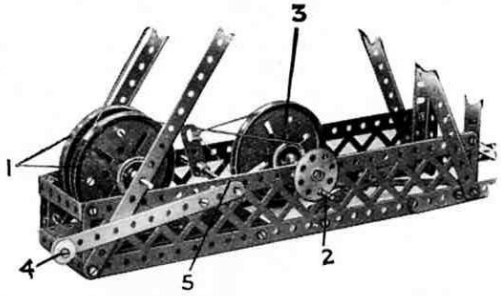
Parts required :

2	of No.	3	4	of No.	20B	1	of No.	52
10	„ „	5	3	„ „	22	2	„ „	54
2	„ „	10	1	„ „	22A	1	„ „	62
1	„ „	11	1	„ „	24	3	„ „	90A
3	„ „	12	5	„ „	35	2	„ „	100
3	„ „	16	60	„ „	37	4	„ „	111c
1	„ „	17	5	„ „	37A	1	„ „	125
1	„ „	18A	1	„ „	45	2	„ „	126A
2	„ „	19B	8	„ „	48A			

Model No. 2.47 Pit Head Gear (Hand Operated)

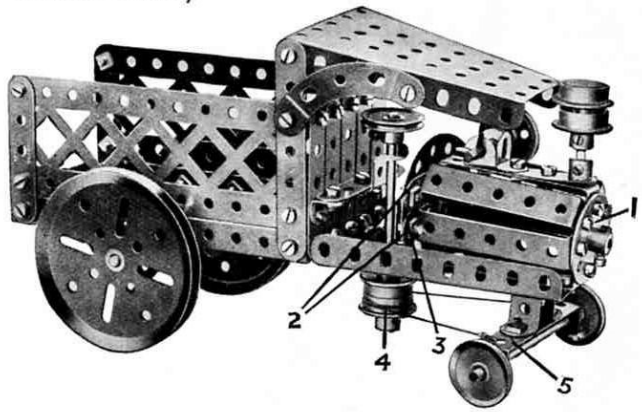
Parts required :

6	of No.	1	4	of No.	22	2	of No.	54
7	„ „	2	1	„ „	23	2	„ „	62
3	„ „	5	1	„ „	24	2	„ „	99
4	„ „	8	3	„ „	35	2	„ „	100
4	„ „	11	60	„ „	37	6	„ „	111c
6	„ „	12	6	„ „	37A	1	„ „	115
4	„ „	16	8	„ „	48A	2	„ „	126A
4	„ „	19B	1	„ „	52			



This is an alternative construction of the base of Model No. 2.46, and shows how the Electric Motor may be dispensed with if necessary. Two 3″ Pulley Wheels 1 are bolted together by four Double Brackets to form a drum on which the hoisting cord is wound. The cage is raised or lowered on operation of the handle 2, which is connected to the winding drum by an ordinary belt drive. The cage is prevented from overhauling by a hand brake that acts on the groove of a third 3″ Pulley Wheel 3. The brake normally is applied by the weight of the ½″ loose Pulley Wheel 4, which is secured to the end of a 5½″ Strip that is bolted to the crank 5.

Model No. 2.48 Steam Lorry

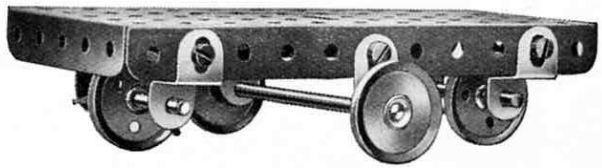


The boiler of the engine is built up of 2½″ × ½″ Double Angle Strips bolted to the Bush Wheel 1, and to two 2½″ Strips 2, which are joined together by Flat Brackets 3. A 2½″ Curved Strip (small radius) is bolted to the upper Strip 2. A cord is passed completely round two ¾″ Flanged Wheels 4 secured to the steering column, and its ends are tied to the 2½″ × ½″ Double Angle Strip 5. The Double Bent Strip bolted to the Strip 5 is pivoted by a bolt and two nuts to the Sector Plate.

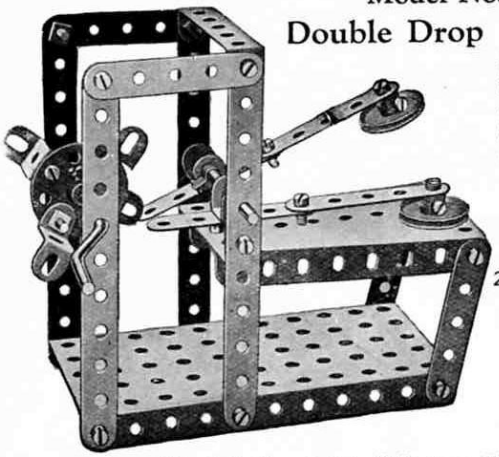
Model No. 2.49 Revolving Truck

Parts required :

1	of No.	16	2	of No.	22A	1	of No.	52
2	„ „	17	4	„ „	35	4	„ „	125
2	„ „	22	6	„ „	37			



Model No. 2.50
Double Drop Hammer



Parts required :

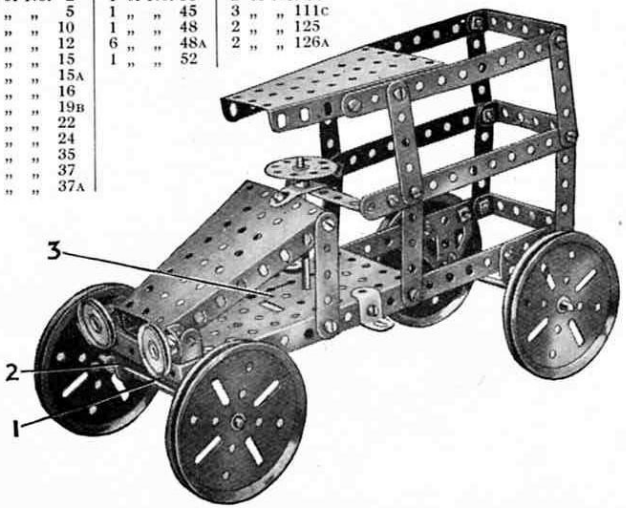
4	of	No.	2
8	„	„	5
2	„	„	11
1	„	„	16
1	„	„	19s
2	„	„	22
1	„	„	24
6	„	„	35
23	„	„	37
2	„	„	48A
1	„	„	52
1	„	„	54
4	„	„	125

Model No. 2.51 Motor Van

The Axle Rod 1 is journalled in a 2½" × ½" Double Angle Strip 2. The latter is bolted to a Double Bent Strip that is pivoted to the Flanged Plate 3 by a Bolt and two Nuts. Steering is effected by a cord attached to the ends of the Double Angle Strip 2 and passed round a 1" Pulley Wheel fastened to the lower end of the steering Rod.

Parts required :

6	of	No.	2
10	„	„	5
1	„	„	10
2	„	„	12
1	„	„	15
1	„	„	15A
1	„	„	16
4	„	„	19B
3	„	„	22
1	„	„	24
5	„	„	35
35	„	„	37
2	„	„	37A
1	of	No.	38
1	„	„	45
1	„	„	48
6	„	„	48A
1	„	„	52
2	of	No.	54
3	„	„	111c
2	„	„	125
2	„	„	126A



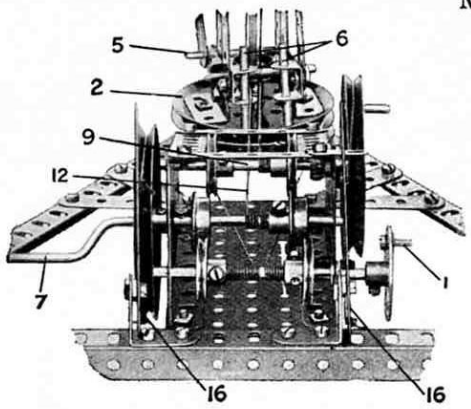


FIG. 2.52A

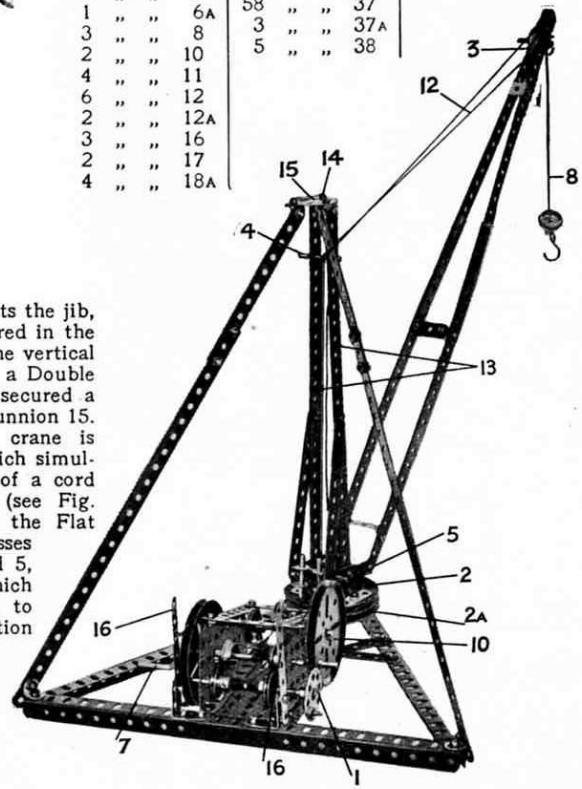
Model No. 2.52 Derrick

Parts required :

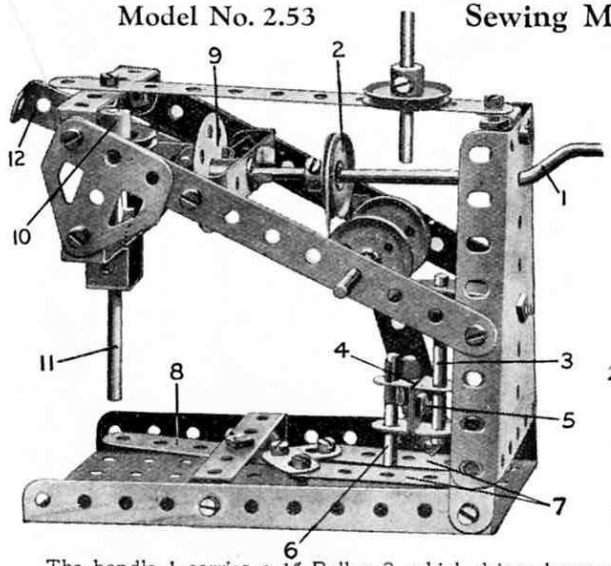
8	of	No.	1
4	„	„	2
2	„	„	3
8	„	„	5
1	„	„	6A
3	„	„	8
2	„	„	10
4	„	„	11
6	„	„	12
2	„	„	12A
3	„	„	16
2	„	„	17
4	„	„	18A
4	of	No.	19B
4	„	„	20B
4	„	„	22
1	„	„	23
1	„	„	24
11	„	„	35
58	„	„	37
3	„	„	37A
5	„	„	38
1	of	No.	52
2	„	„	54
1	„	„	57
1	„	„	111c
1	„	„	115
2	„	„	126

The 3" Pulley Wheel 2, which supports the jib, is free to turn on a short Axle Rod secured in the boss of the lower 3" Pulley Wheel 2a. The vertical 12½" Strips 13 are bolted at their tops to a Double Bracket, to the centre hole of which is secured a Bolt 14 that is free to turn in the Flat Trunnion 15.

The swivelling movement of the crane is carried out by turning the handle 1, which simultaneously winds and unwinds the ends of a cord passing round the 3" Pulley Wheel 2 (see Fig. 2.52A). The cord 12, which is tied to the Flat Bracket 3 at the head of the jib passes over the 2" Rod 4, under a similar Rod 5, and between two vertical 2" Rods 6, which act as guides, and is finally wound on to the Crank Handle 7. Hence on operation of the latter the jib is raised or lowered. The cord 8 also passes round the Rods 4, 5 and 6, and is wound on to the Rod 9. Operation of the handle 10 raises and lowers the hook. The cords 8 and 12 are prevented from unwinding by band-and-pulley brakes 16.



Model No. 2.53 Sewing Machine



Parts required :

3	of	No.	2
6	„	„	5
3	„	„	10
2	„	„	11
3	„	„	12
2	„	„	16
2	„	„	17
1	„	„	18A
1	„	„	19S
4	„	„	22
2	„	„	22A
1	„	„	24
5	„	„	35
24	„	„	37
3	„	„	38
1	„	„	44
5	„	„	48A
1	„	„	52
1	„	„	54
2	„	„	125
2	„	„	126A

The handle 1 carries a 1″ Pulley 2, which drives by means of a cord a similar Pulley on a 2″ Rod 3 journalled in a Cranked Bent Strip bolted to the Sector Plate. Two Double Brackets 4 are secured together by a Bolt 5, the shank of which presses very tightly on the Rod 3. This locks the Double Brackets in position, and they revolve with the Rod 3. The outer Double Bracket carries a 1½″ Rod 6, the end of which lies between two Strips 7, arranged at a short distance apart from each other and bolted to two Flat Brackets. These are secured to a further Strip 8 bolted pivotally to a transverse Double Angle Strip. As the shaft 3 rotates, the Rod 6 slides between the Strips 7 and so rocks the Strip 8 from side to side to represent the shuttle.

The Bush Wheel 9 carries two Angle Brackets placed together in the form of a Double Bracket, with their elongated holes overlapping, and in such a position that an imaginary line drawn through their opposite round holes, would cross the centre of the Bush Wheel. A Flat Bracket is bolted to the inner Angle Bracket in a line with the Crank Handle and forms a lever which engages 1″ Pulley 10 mounted on a vertical sliding Rod 11. This Rod is journalled in a Double Angle Strip bolted between the lower holes of the two Flat Trunnions and is further supported by two ½″ Reversed Angle Brackets secured to the Angle Strip. As the Bush Wheel rotates, the Flat Bracket imparts to the Rod 11 a movement corresponding to the action of the needle.

The outer Angle Bracket on the Bush Wheel strikes once in every revolution the end of a Double Angle Strip 12. This is pivotally mounted by a Bolt passed through its second hole from the Bush Wheel end to the centre hole of the Flat Trunnion on that side of the model. The resulting movement of the Strip 12 represents the apparatus that pays out the cotton from the reel.

Model No. 2.54 Anti-Aircraft Gun

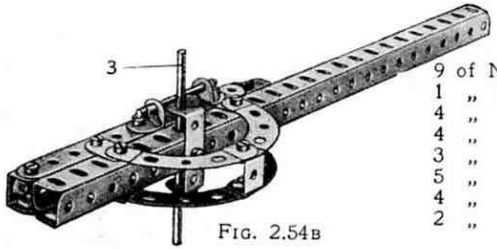


FIG. 2.54B

Parts required :

9	of	No.	2	1	of	No.	19B	4	of	No.	48A
1	„	„	6A	4	„	„	20B	1	„	„	52
4	„	„	8	4	„	„	22	2	„	„	54
4	„	„	10	1	„	„	24	4	„	„	90A
3	„	„	11	8	„	„	35	1	„	„	115
5	„	„	12	57	„	„	37	2	„	„	126
4	„	„	16	6	„	„	38	2	„	„	126A
2	„	„	17	1	„	„	44				

The general construction of the model will be made clear by reference to Figures 2.54A and 2.54B. Rotation of the handle 1 causes the gun to revolve on the 3″ Pulley Wheel 2. The barrel of the gun is so balanced on the Axle Rod 3 that it tends to fall by its own weight, but is prevented from doing so by a cord 4 tied to the gun close to the breech and wound on the 3½″ Rod 5. By turning the Pulley Wheels 6 the muzzle is raised or allowed to fall.

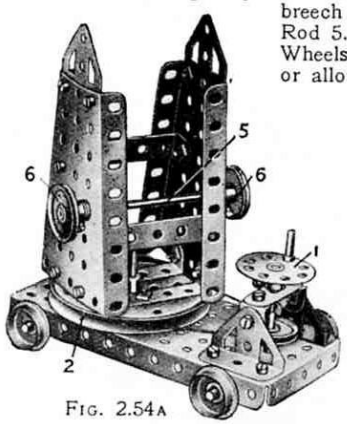
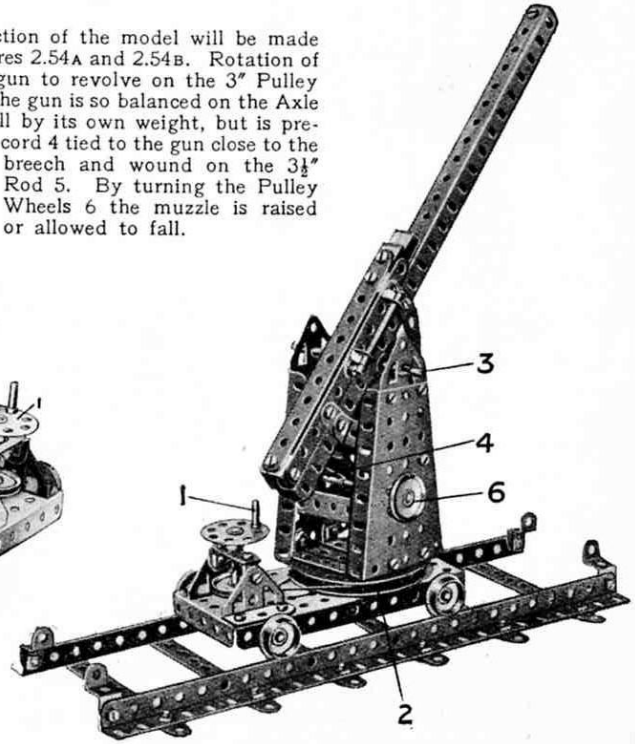
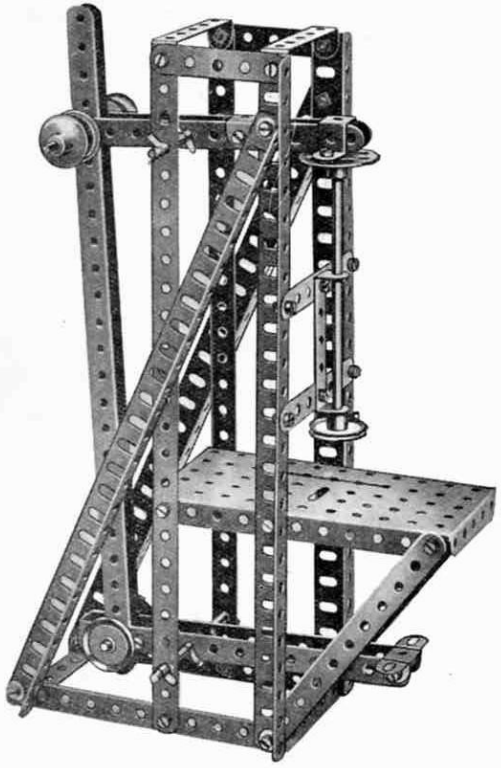


FIG. 2.54A



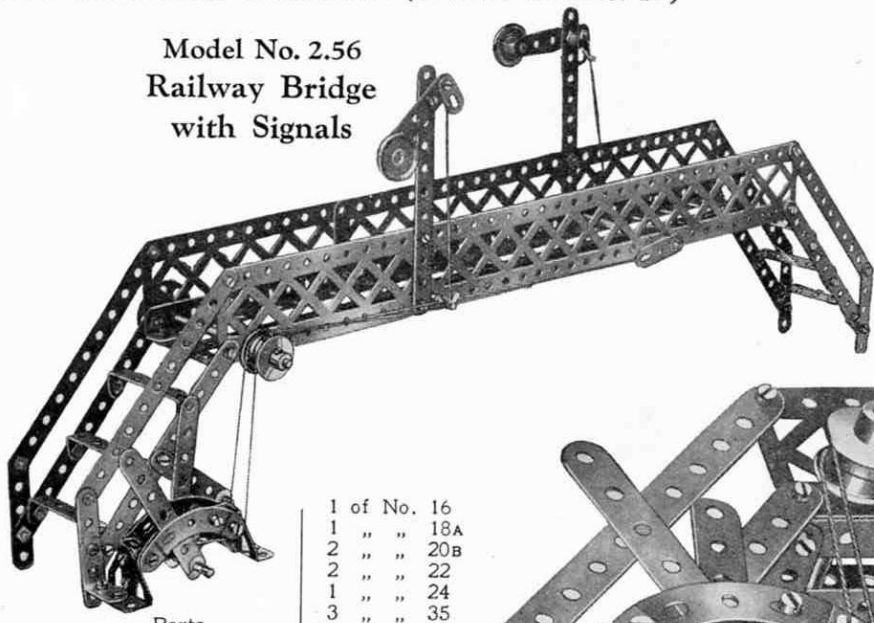
Model No. 2.55 Embossing Machine



Parts required :

4	of	No.	1
8	„	„	2
2	„	„	3
2	„	„	5
4	„	„	8
3	„	„	11
2	„	„	12
1	„	„	15
3	„	„	16
1	„	„	18A
4	„	„	20B
3	„	„	22
1	„	„	24
10	„	„	35
34	„	„	37
8	„	„	38
1	„	„	45
5	„	„	48A
1	„	„	52

Model No. 2.56 Railway Bridge with Signals



Parts required :

2	of	No.	1
10	„	„	2
2	„	„	3
10	„	„	5
4	„	„	8
2	„	„	10
3	„	„	11
2	„	„	12A
1	„	„	15A
1	of	No.	16
1	„	„	18A
2	„	„	20B
2	„	„	22
1	„	„	24
3	„	„	35
60	„	„	37
3	„	„	37A
6	„	„	38
7	„	„	48A
2	„	„	62
4	„	„	90A
2	„	„	99
2	„	„	100
3	„	„	111C
1	„	„	115
2	„	„	126

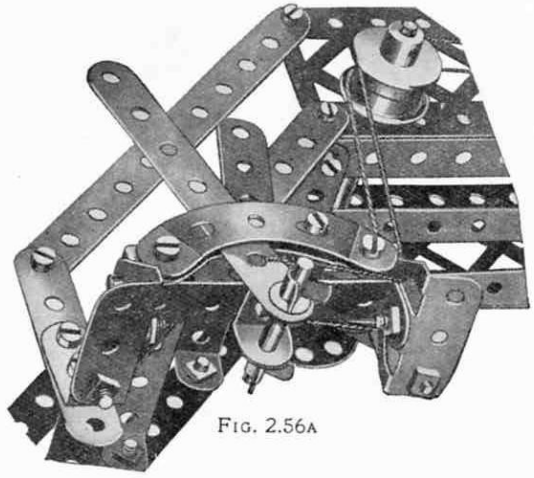
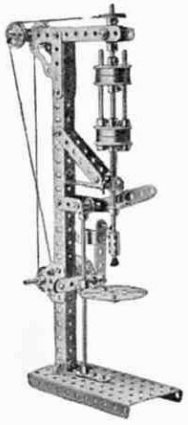


FIG. 2.56A

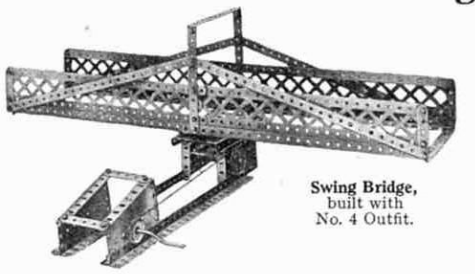
HOW TO CONTINUE

This completes our examples of models that may be made with MECCANO Outfit No. 2 (or No. 1 and No. 1A). The next models are a little more advanced, requiring a number of extra parts to construct them. The necessary parts are all contained in a No. 2A Accessory Outfit, the price of which may be obtained from any Meccano dealer.

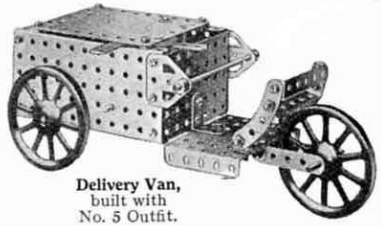
Build Bigger and Better Models



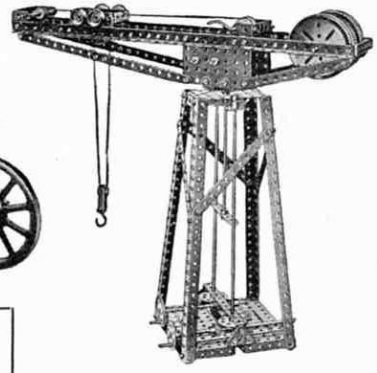
Vertical Drill,
built with
No. 5 Outfit.



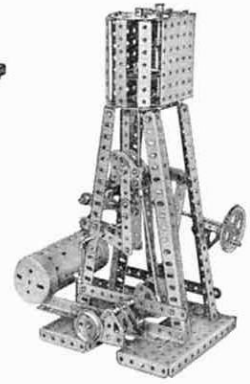
Swing Bridge,
built with
No. 4 Outfit.



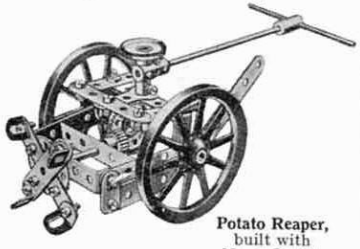
Delivery Van,
built with
No. 5 Outfit.



Girder Crane,
built with No. 4 Outfit.



Vertical Marine Engine,
built with
No. 5 Outfit.



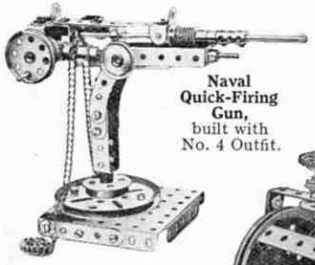
Potato Reaper,
built with
No. 5 Outfit.

Keep Adding to Your Outfit

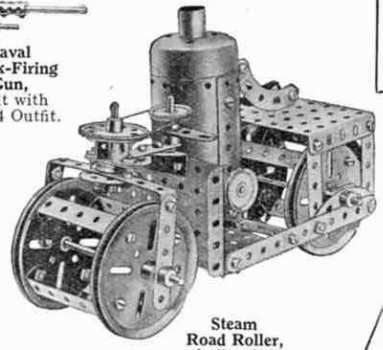
The more Meccano parts you have, the bigger and better the models you are able to build. Keen and enthusiastic model-builders keep adding to their Outfits, until they are able to build all the wonderful models shown in the Meccano Manuals.

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.

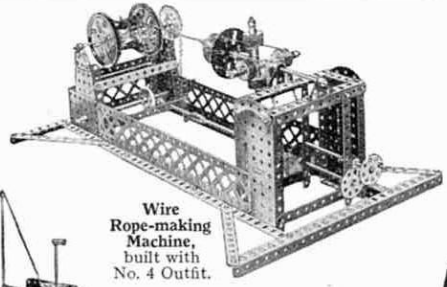
You can purchase separate Meccano parts as you require them, or, if you prefer, you can purchase Accessory Outfits that connect all the main Outfits.



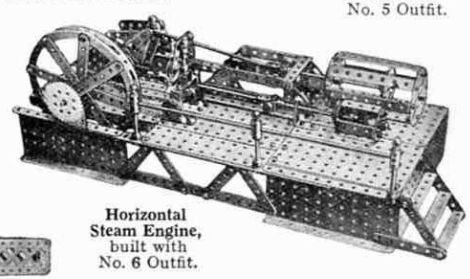
Naval Quick-Firing Gun,
built with
No. 4 Outfit.



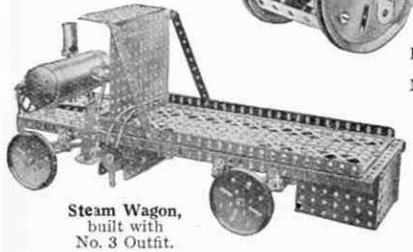
Steam Road Roller,
built with
No. 3 Outfit.



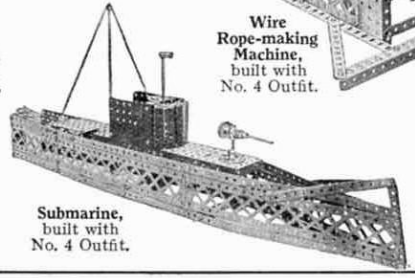
Wire Rope-making Machine,
built with
No. 4 Outfit.



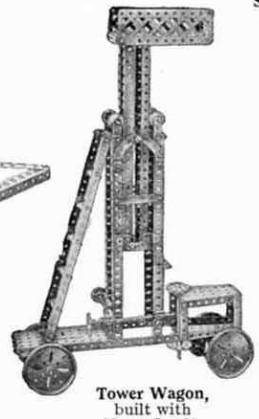
Horizontal Steam Engine,
built with
No. 6 Outfit.



Steam Wagon,
built with
No. 3 Outfit.



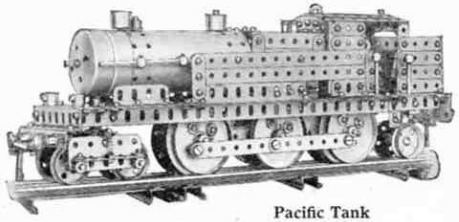
Submarine,
built with
No. 4 Outfit.



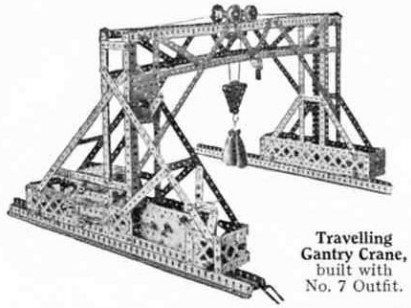
Tower Wagon,
built with
No. 3 Outfit.

Gantry Crane,
built with
No. 5 Outfit.

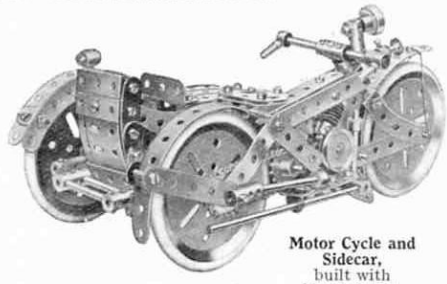
The Possibilities of Meccano are Unlimited



Pacific Tank Locomotive, built with No. 7 Outfit.

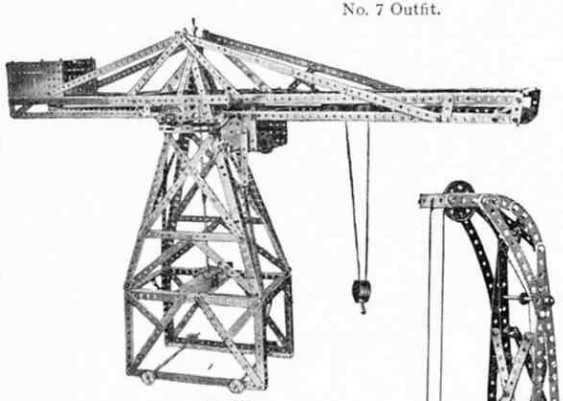


Travelling Gantry Crane, built with No. 7 Outfit.

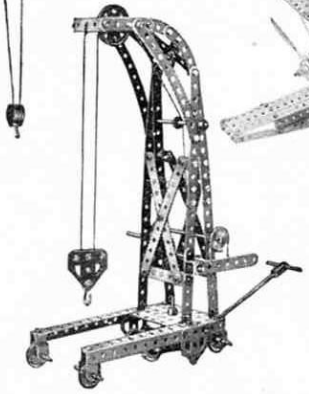


Motor Cycle and Sidecar, built with No. 7 Outfit.

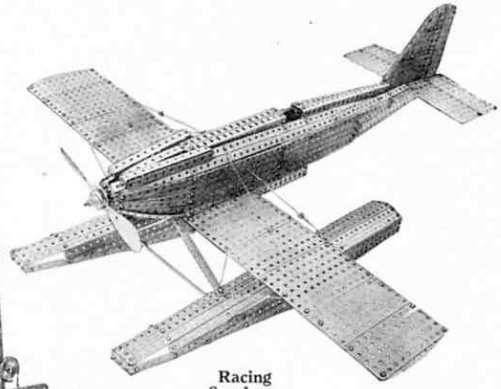
Grandfather Clock, built with No. 7 Outfit.



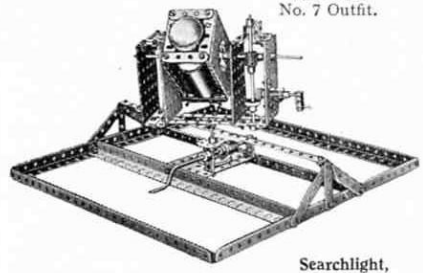
Radial Travelling Crane, built with No. 6 Outfit.



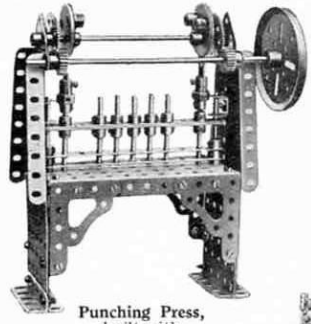
Portable Crane, built with No. 6 Outfit.



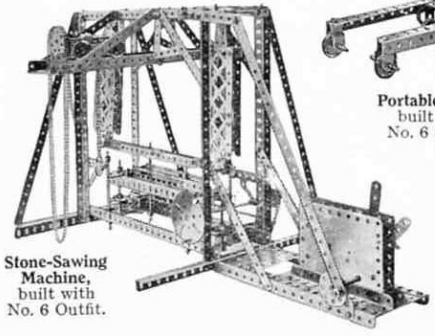
Racing Seaplane, built with No. 7 Outfit.



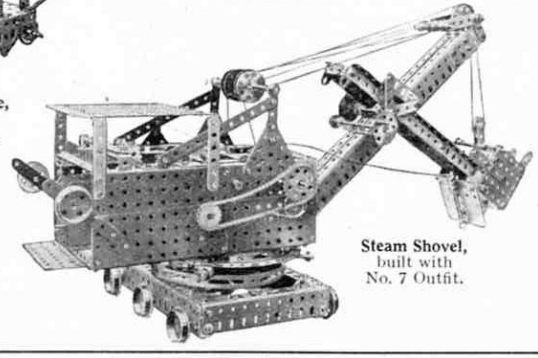
Searchlight, built with No. 6 Outfit.



Punching Press, built with No. 6 Outfit.



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



Steam Shovel, built with No. 7 Outfit.

Steam Tug Boat, built with No. 6 Outfit.

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, 12½″	—	—	—	4	4	6	10	—	10	—	10	6	16	14	30	8	38
1A	„ „ 9½″	—	—	—	—	—	—	—	—	—	—	—	—	—	6	6	10	16
1B	„ „ 7½″	—	—	—	—	—	—	—	—	—	—	—	2	2	8	10	3	13
2	„ „ 5½″	4	—	4	4	8	6	14	4	18	3	21	5	26	2	28	12	40
2A	„ „ 4½″	—	—	—	—	—	—	—	—	—	2	2	2	4	—	4	8	12
3	„ „ 3½″	—	—	—	1	1	1	2	4	6	—	6	6	12	12	24	—	24
4	„ „ 3″	—	—	—	—	—	—	—	2	2	4	6	2	8	4	12	12	24
5	„ „ 2½″	6	3	9	—	9	3	12	—	12	6	18	18	36	—	36	84	120
6	„ „ 2″	—	—	—	—	—	—	—	—	—	—	—	4	4	20	24	6	30
6A	„ „ 1½″	—	—	—	—	—	2	2	—	2	—	2	4	6	8	14	—	14
7	Angle Girders, 24½″	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	12	12
7A	„ „ 18½″	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6	6
8	„ „ 12½″	—	—	—	—	—	4	4	4	8	1	9	5	14	12	26	—	26
8A	„ „ 9½″	—	—	—	—	—	—	—	—	—	—	—	4	4	4	8	9	17
8B	„ „ 7½″	—	—	—	—	—	—	—	—	—	—	—	2	2	—	2	6	8
9	„ „ 5½″	—	—	—	—	—	—	—	—	—	4	4	—	4	14	18	6	24
9A	„ „ 4½″	—	—	—	—	—	—	—	—	—	—	—	—	—	2	2	13	15
9B	„ „ 3½″	—	—	—	—	—	—	—	—	—	—	—	—	—	2	2	5	7
9C	„ „ 3″	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3	3
9D	„ „ 2½″	—	—	—	—	—	—	—	—	—	—	—	1	1	5	6	1	7
9E	„ „ 2″	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	2
9F	„ „ 1½″	—	—	—	—	—	—	—	—	—	—	—	—	—	4	4	—	4
10	Flat Brackets...	4	—	4	1	5	3	8	—	8	1	9	3	12	4	16	14	30
11	Double Brackets	—	2	2	—	2	2	4	—	4	1	5	3	8	—	8	4	12
12	Angle Brackets, ½″×½″	8	—	8	—	8	4	12	2	14	8	22	14	36	12	48	28	76
12A	„ „ 1″×1″	—	—	—	—	—	2	2	2	4	2	6	—	6	—	6	6	12
12B	„ „ 1″×½″	—	—	—	—	—	—	—	—	—	—	—	—	—	4	4	12	16
13	Axle Rods, 11½″	—	—	—	—	—	1	1	—	1	1	2	—	2	1	3	5	8
13A	„ „ 8″	—	—	—	—	—	—	—	—	—	1	1	—	1	3	4	3	7
14	„ „ 6½″	—	—	—	—	—	—	—	—	—	3	3	—	3	3	6	7	13
15	„ „ 5″	—	—	—	—	—	2	2	—	2	2	4	—	4	—	4	2	6
15A	„ „ 4½″	—	—	—	—	—	1	1	2	3	2	5	—	5	1	6	—	6
16	„ „ 3½″	2	—	2	1	3	1	4	—	4	1	5	—	5	2	7	5	12
16A	„ „ 2½″	—	—	—	—	—	—	—	—	—	—	—	3	3	4	7	6	13
16B	„ „ 3″	—	—	—	—	—	—	—	—	—	—	—	—	—	2	2	3	5
17	„ „ 2″	2	—	2	—	2	—	2	—	2	3	5	—	5	4	9	3	12
18A	„ „ 1½″	—	—	—	2	2	2	4	—	4	—	4	—	4	—	4	5	9
18B	„ „ 1″	—	—	—	—	—	—	—	—	—	—	—	—	—	2	2	5	7
19	Crank Handles (5″ shaft)	—	—	—	—	—	1	1	—	1	—	1	—	1	2	3	—	3
19S	„ „ (3½″ „)	1	—	1	—	1	—	1	—	1	—	1	—	1	—	1	—	1
19A	Wheels, 3″	—	—	—	—	—	—	—	—	—	—	—	4	4	—	4	—	4
19B	Pulley Wheels, 3″	—	—	—	4	4	—	4	—	4	—	4	—	4	—	4	—	4
20	Flanged Wheels, 1½″	—	—	—	—	—	—	—	—	—	4	4	—	4	4	8	4	12
20A	Pulley Wheels, 2″	—	—	—	—	—	—	—	2	2	2	4	—	4	—	4	—	4
20B	Flanged Wheels, ¾″	—	—	—	—	—	4	4	—	4	—	4	—	4	—	4	6	10
21	Pulley Wheels, 1½″	—	—	—	—	—	—	—	1	1	—	1	1	2	—	2	2	4
22	„ „ 1″ (fast)	4	—	4	—	4	—	4	—	4	—	4	—	4	2	6	4	10
22A	„ „ 1″ (loose)	—	—	—	—	—	2	2	—	2	1	3	—	3	1	4	11	15
23	„ „ ½″ „	—	1	1	—	1	—	1	—	1	2	3	—	3	1	4	2	6
23A	„ „ ½″ (fast)	—	—	—	—	—	—	—	—	—	1	1	—	1	—	1	3	4
24	Bush Wheels	1	—	1	—	1	—	1	—	1	1	2	—	2	3	5	3	8
25	Pinion Wheels, ¾″ diam., ¼″ wide	—	—	—	—	—	—	—	—	—	—	—	—	—	2	2	3	5
25A	„ „ ¾″ „ ½″ „	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1
26	„ „ ½″ „ ¼″ „	—	—	—	—	—	—	—	2	2	—	2	1	3	2	5	4	9
26A	„ „ ½″ „ ½″ „	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	2
27	Gear Wheels, 50-teeth	—	—	—	—	—	—	—	—	—	—	—	—	—	2	2	3	5
27A	„ „ 57 „	—	—	—	—	—	—	—	1	1	1	2	—	2	1	3	4	7
27B	„ „ 133 „ (3½″ diam.)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	2
28	Contrate Wheels, 1½″	—	—	—	—	—	—	—	—	—	1	1	—	1	1	2	—	2
29	„ „ ¾″	—	—	—	—	—	—	—	—	—	2	2	—	2	—	2	—	2
30	Bevel Gears, ⅝″	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4	4
30A	„ „ ½″	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	2
30C	„ „ 1½″	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	2
31	Gear Wheels, 1″, 38-teeth	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4	4
32	Worms	—	—	—	—	—	—	—	1	1	1	2	—	2	—	2	—	2
34	Spanners	—	1	1	—	1	—	1	—	1	1	2	—	2	—	2	—	2
35	Spring Clips	4	2	6	2	8	6	14	—	14	5	19	—	19	5	24	12	36
36	Screw Drivers	1	—	1	—	1	—	1	—	1	—	1	—	1	—	1	—	1
36B	„ „ (special)	—	—	—	—	—	—	—	—	—	1	1	—	1	—	1	—	1
37	Nuts and Bolts, 7/32″	16	—	16	20	36	24	60	34	94	32	126	43	169	145	314	280	594
37A	Nuts	4	2	6	—	6	—	6	—	6	—	6	—	6	—	6	—	6
38	Washers	—	—	—	8	8	6	14	—	14	10	24	—	24	12	36	164	200
40	Hanks of Cord	1	—	1	—	1	1	2	1	3	1	4	2	6	—	6	—	6
41	Propeller Blades	—	—	—	—	—	—	—	—	—	—	—	2	2	2	4	—	4

[CONTINUED OVERLEAF

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
43	Springs	—	—	—	—	—	—	—	1	1	—	1	—	1	1	2	7	9
44	Cranked Bent Strips	1	—	1	—	1	—	1	—	1	—	1	—	1	1	2	1	3
45	Double Bent Strips	—	—	—	—	—	1	1	1	2	1	3	—	3	3	6	—	6
46	Double Angle Strips, 2½″×1″	—	—	—	—	—	—	—	1	1	1	2	2	4	—	4	—	4
47	„ „ „ 2½″×1½″	—	—	—	—	—	—	—	—	—	—	—	1	1	1	2	—	2
47A	„ „ „ 3″ ×1½″	—	—	—	—	—	—	—	—	—	—	—	2	2	—	2	—	2
48	„ „ „ 1½″×½″	—	—	—	1	1	—	1	1	2	—	2	—	2	2	4	4	8
48A	„ „ „ 2½″×½″	2	—	2	4	6	2	8	2	10	—	10	—	10	4	14	4	18
48B	„ „ „ 3½″×½″	—	—	—	—	—	—	—	2	2	4	6	—	6	1	7	5	12
48C	„ „ „ 4½″×½″	—	—	—	—	—	—	—	—	—	—	—	—	—	3	3	1	4
48D	„ „ „ 5½″×½″	—	—	—	—	—	—	—	—	—	2	2	2	4	—	4	1	5
50A	Eye Pieces, with boss	—	—	—	—	—	—	—	—	—	—	—	1	1	1	2	—	2
52	Perforated Flanged Plates, 5½″×2½″	1	—	1	—	1	—	1	1	2	—	2	2	4	3	7	—	7
52A	Flat Plates, 5½″×3½″	—	—	—	—	—	—	—	—	—	—	—	4	4	—	4	7	11
53	Perforated Flanged Plates, 3½″×2½″	—	—	—	—	—	—	—	3	3	2	5	—	5	2	7	—	7
53A	Flat Plates, 4½″×2½″	—	—	—	—	—	—	—	—	—	—	—	2	2	2	4	2	6
54	Perforated Flanged Sector Plates	—	—	—	2	2	—	2	—	2	—	2	—	2	—	2	2	4
55A	Perforated Strips, slotted, 2″	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	2
56C	Meccano Standard Mechanisms Manuals	—	—	—	—	—	—	—	—	—	—	—	1	1	—	1	—	1
	How to use Meccano Parts	—	—	—	—	—	—	—	1	1	—	1	—	1	—	1	—	1
57	Hooks	1	—	1	—	1	—	1	—	1	—	1	1	2	4	6	8	14
57B	„ (Loaded)	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—	1
58	Spring Cord, 40″ length	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—	1
58A	Coupling Screws for Spring Cord	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	12	12
59	Collars with Set Screws	—	—	—	—	—	—	—	4	4	6	10	9	19	10	29	34	63
62	Cranks	—	—	—	—	—	2	2	—	2	—	2	—	2	2	4	10	14
62A	Threaded Cranks	—	—	—	—	—	—	—	—	—	—	—	—	—	2	2	—	2
62B	Double Arm Cranks	—	—	—	—	—	—	—	—	—	—	—	2	2	—	2	4	6
63	Couplings	—	—	—	—	—	—	—	1	1	5	6	—	6	3	9	4	13
63B	Strip Couplings	—	—	—	—	—	—	—	—	—	—	—	—	—	2	2	—	2
64	Threaded Bosses	—	—	—	—	—	—	—	—	—	—	—	—	—	3	3	1	4
65	Centre Forks	—	—	—	—	—	—	—	—	—	1	1	—	1	1	2	4	6
70	Flat Plates, 5½″×2½″	—	—	—	—	—	—	—	—	—	—	—	1	1	5	6	1	7
72	„ „ 2½″×2½″	—	—	—	—	—	—	—	—	—	—	—	—	—	2	2	2	4
76	Triangular Plates, 2½″	—	—	—	—	—	—	—	—	—	—	—	—	—	2	2	6	8
77	„ „ 1″	—	—	—	—	—	—	—	—	—	2	2	—	2	2	4	6	10
78	Screwed Rods, 11½″	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	2
80	„ „ 5″	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	2
80A	„ „ 3½″	—	—	—	—	—	—	—	—	—	1	1	—	1	1	2	—	2
80B	„ „ 4½″	—	—	—	—	—	—	—	—	—	—	—	—	—	2	2	—	2
81	„ „ 2″	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	1	2
82	„ „ 1″	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8	8
89	Curved Strips, 5½″, 10″ radius	—	—	—	—	—	—	—	—	—	—	—	—	—	6	6	—	6
90	„ „ 2½″, large „	—	—	—	—	—	—	—	2	2	2	4	2	6	10	16	—	16
90A	„ „ 2½″, 2⅜″ „	2	2	4	—	4	—	4	—	4	—	4	—	4	4	8	2	10
94	Sprocket Chain	—	—	—	—	—	—	—	—	—	40″	40″	—	40″	5′	8′	12′	20′
95	„ Wheels, 2″	—	—	—	—	—	—	—	—	—	2	2	—	2	1	3	—	3
95A	„ „ 1½″	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	3	4
95B	„ „ ⅜″	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	2
96	„ „ 1″	—	—	—	—	—	—	—	—	—	2	2	—	2	2	4	6	10
96A	„ „ ¾″	—	—	—	—	—	—	—	—	—	1	1	—	1	3	4	1	5
97	Braced Girders, 3½″	—	—	—	—	—	—	—	—	—	—	—	—	—	4	4	1	5
98	„ „ 2½″	—	—	—	—	—	—	—	1	1	—	1	—	1	7	8	—	8
99	„ „ 12½″	—	—	—	—	—	2	2	—	2	2	4	—	4	4	8	10	18
99A	„ „ 9½″	—	—	—	—	—	—	—	—	—	—	—	—	—	2	2	—	2
99B	„ „ 7½″	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1
100	„ „ 5½″	—	—	—	2	2	—	2	—	2	4	6	1	7	1	8	8	16
101	Healds for Looms	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	60	60
102	Single Bent Strips	—	—	—	—	—	—	—	—	—	—	—	1	1	1	2	2	4
103	Flat Girders, 5½″	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7	7
103A	„ „ 9½″	—	—	—	—	—	—	—	—	—	—	—	—	—	2	2	2	4
103B	„ „ 12½″	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	12	12
103C	„ „ 4½″	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4	4
103D	„ „ 3½″	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5	5
103E	„ „ 3″	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6	6
103F	„ „ 2½″	—	—	—	—	—	—	—	—	—	2	2	2	4	3	7	—	7
103G	„ „ 2″	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	2
103H	„ „ 1½″	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	5	6
103K	„ „ 7½″	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	2
104	Shuttles for Looms	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1
105	Reed Hooks	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1
106	Wood Rollers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	2
106A	Sand „	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1
107	Designing Tables	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1
108	Architraves	—	—	—	—	—	—	—	—	—	2	2	—	2	2	4	2	6
109	Face Plates, 2½″	—	—	—	—	—	—	—	—	—	1	1	1	2	2	4	7	11
110	Rack Strips, 3½″	—	—	—	—	—	—	—	—	—	—	—	—	—	2	2	2	4
111	Bolts, ¾″	—	—	—	—	—	—	—	2	2	1	3	—	3	6	9	9	18
111A	„ ½″	—	—	—	—	—	—	—	—	—	—	—	—	—	7	7	17	24
111C	Bolts ⅜″	4	2	6	—	6	—	6	—	6	—	6	—	6	—	6	6	12
114	Hinges	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	2
115	Threaded Pins	—	—	—	—	—	1	1	1	2	—	2	—	2	—	2	7	9
116	Fork Pieces	—	—	—	—	—	—	—	1	1	—	1	—	1	1	2	—	2
116A	Small Fork Pieces	—	—	—	—	—	—	—	1	1	—	1	—	1	—	1	3	4

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
118	Hub Discs (5/8" diam.)	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	3	4
119	Channel Segments (8 to circle)	—	—	—	—	—	—	—	—	—	—	—	—	—	8	8	8	16
120A	Spring Buffers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6	6
120B	Compression Springs	—	—	—	—	—	—	—	—	—	—	—	—	—	2	2	2	4
121	Train Couplings	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	2
124	Reversed Angle Brackets, 1"	—	—	—	—	—	—	—	—	—	—	—	—	—	4	4	—	4
125	" " " 1/2"	1	1	2	—	2	2	4	—	4	—	4	—	4	—	4	5	9
126	Trunnions	2	—	2	—	2	—	2	—	2	2	4	—	4	—	4	—	4
126A	Flat Trunnions	2	—	2	—	2	—	2	—	2	2	4	1	5	—	5	3	8
128	Boss Bell Cranks	—	—	—	—	—	—	—	—	—	—	—	1	1	1	2	—	2
129	Rack Segments (3" diam.)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4	4
130	Eccentrics, Triple Throw	—	—	—	—	—	—	—	—	—	2	2	—	2	—	2	—	2
131	Dredger Buckets	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5	5
132	Flywheels, 2 1/2"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1
133	Corner Brackets	—	—	—	—	—	—	—	—	—	—	—	—	—	8	8	—	8
135	Theodolite Protractors	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—	1
136	Handrail Supports	—	—	—	—	—	—	—	—	—	—	—	—	—	4	4	4	8
137	Wheel Flanges	—	—	—	—	—	—	—	—	—	—	—	—	—	4	4	6	10
140	Universal Couplings	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	2
141	Wire Lines	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1
142	Rubber Rings, 3" diam.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3	3
142A	Dunlop Tyres, 2" internal diam.	—	—	—	—	—	—	—	—	—	4	4	—	4	—	4	—	4
142B	" 3" " "	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4	4
143	Circular Girders (5 1/2" diam.)	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—	1
144	DogClutches	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—	1
145	Circular Strips (7 1/2" diam. overall)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	2
146	Circular Plates, 6"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	2
147A	Pawls	—	—	—	—	—	—	—	—	—	1	1	—	1	1	2	2	4
147B	Pivot Bolts with two nuts	—	—	—	—	—	—	—	1	1	—	1	—	1	1	2	6	8
148	Ratchet Wheels	—	—	—	—	—	—	—	—	—	1	1	—	1	1	2	—	2
155	Rubber Rings, 1/8"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	2
157	Fans, 2" diam.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1
159	Circular Saws	—	—	—	—	—	—	—	—	—	1	1	—	1	—	1	—	1
160	Channel Bearings, 1 1/2" × 1" × 1/2"	—	—	—	—	—	—	—	—	—	1	1	—	1	—	1	—	1
161	Girder Brackets, 2" × 1" × 1/2"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	2
162	Boilers, Complete with Ends	—	—	—	—	—	—	—	1	1	—	1	—	1	—	1	—	1
162A	Boiler Ends	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1
163	Sleeve Pieces	—	—	—	—	—	—	—	2	2	—	2	—	2	—	2	1	3
164	Chimney Adaptors	—	—	—	—	—	—	—	1	1	—	1	—	1	—	1	1	2
165	Swivel Bearings	—	—	—	—	—	—	—	1	1	1	2	—	2	—	2	—	2
166	End "	—	—	—	—	—	—	—	1	1	—	1	—	1	2	3	3	6
168	Ball " 4" diam.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1
170	Eccentrics, 1/2" throw	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1
171	Socket Couplings	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1
172	Pendulum Connection	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1
301	Bobbins	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	2
302	Bushes, Insulating	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14	14
303	Washers "	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	12	12
304	6 B.A. Screws	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14	14
305	6 B.A. Nuts	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	30	30
306	Terminals	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4	4
307	Contact Screws	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	2
308	Pole Pieces	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	2
309	Coil Cheeks	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2	2
310	Lamp Holders	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1
311	Lamps	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1
312	27 Gauge B.I. Wire, 30" coils	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1
313	26 " S.C.C. Wire, reel 50 yds.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1
314	23 " " " 25 "	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1
315	Bare Copper Wire, 4 yds. coils	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1
	Clockwork Motor	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1
	Electric Motor No. E6 (6 volt)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1
	Instruction Leaflets																	
	No. 1—Motor Chassis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1
	" 2—High-speed Ship-Coaler	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1
	" 3—Motor Cycle and Sidecar	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1
	" 5—Dredger	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1
	" 6—Stiff Leg Derrick	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1
	" 7—Flatform Scales	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—	1
	" 9—Bagatelle Table	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—	1
	" 10—Log Saw	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—	1
	" 11—Horizontal Steam Engine	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—	1
	" 12—Stone-sawing Machine	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—	1
	" 13—Meccanograph	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1
	" 14A—New Grandfather Clock	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1
	" 16A—New Loom	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1
	" 17—Planing Machine	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1
	" 18—Revolving Crane	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1
	" 19—Steam Shovel	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1
	" 20—Electric Mobile Crane	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1
	" 21—Transporter Bridge	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1
	" 22—Traction Engine	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1
	" 23—Vertical Log Saw	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1
	" 24—Travelling Gantry Crane	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1
	" 25—Hydraulic Crane	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1
	" 26—Twin-elliptic Harmonograph	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1
	" 28—Pontoon Crane	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1
	" 29—Hammerhead Crane	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1
	" 30—Breakdown Crane	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1
	" 31—Warehouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1
	" 35—Automatic Grabbing Crane	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1
	" 36—Electric Derrick Crane	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1
	" 37—Howitzer Limber and Tractor	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—	1

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INDEX TO MODELS

INDEX TO MODELS (*continued*)

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250,378	671,485
253,236	671,534
290,121	671,790
323,234	680,416
671,484	682,208

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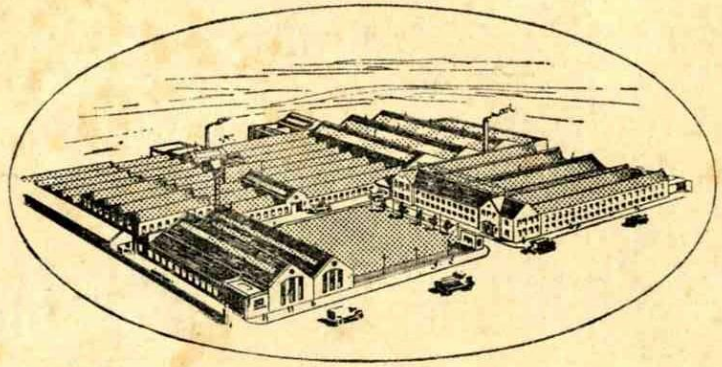
686,112	733,542
698,054	740,413
740,723	



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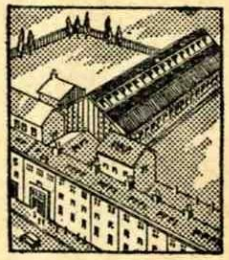

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