

MECCANO

TRADE MARKS 296321, 501113, 76, 12633, 10274, 55/13476, 569/13, 884/25, 2913, 80, 124, 336, 4174, 91637, 83171, 157149, 32822, 200639, 209733, 214061, 214062, 12892, 29094, 33316, 1818, 16737, 383/13, 5848, 50204, 10/12258, 22826, 18962, 20063/925, 9948, 5549, 2189, 16900, 72236, 2389, 41812, 5403, 7315, 18068, 139420, 494933-4-5-6, 29041, 26877, 6595, 404718, 410379, 55096, 12240, 41234, 8223, 1855

HORNBY'S ORIGINAL SYSTEM—FIRST PATENTED 1901

INSTRUCTIONS

FOR OUTFITS

00 to 2



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No. 32.2

ENGLISH EDITION

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

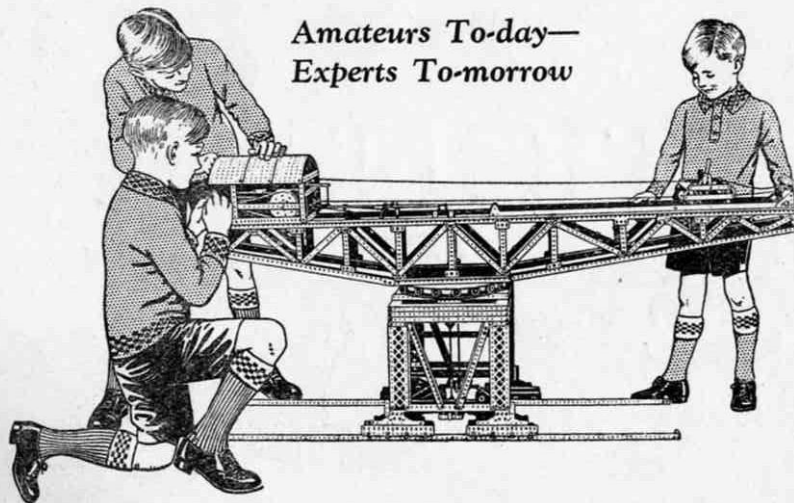
Make the simple models first—they will provide hours of fun—and then try to improve them. Every model can be made in a dozen different ways. It is important to screw up all the nuts and bolts tightly to ensure that your models will be strong and firm when they are completed.

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

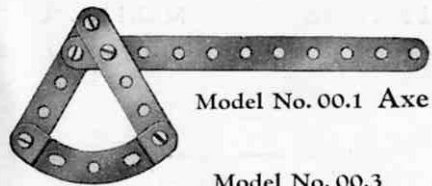
Meccano is sold in ten different Outfits, numbered 000 to 7. All Meccano parts are of the same high quality and finish, but the larger Outfits contain a greater quantity and variety of parts, making possible the construction of more elaborate models. Each Outfit from No. 00 upwards may be converted into 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.

Amateurs To-day—
Experts To-morrow

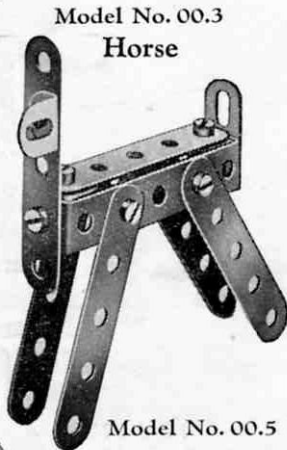


All these Models can be built with MECCANO Outfit No. 00

1

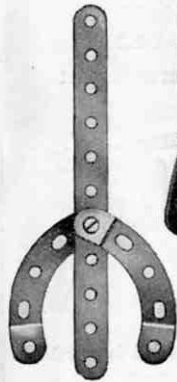


Model No. 00.1 Axe

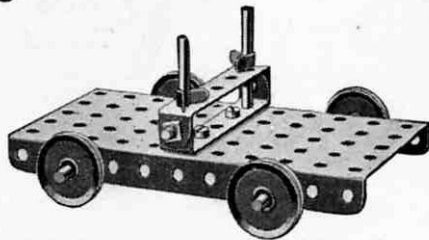


Model No. 00.3
Horse

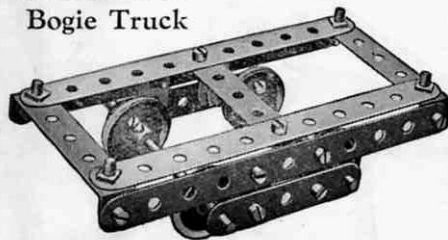
Model No.
00.2
Fork



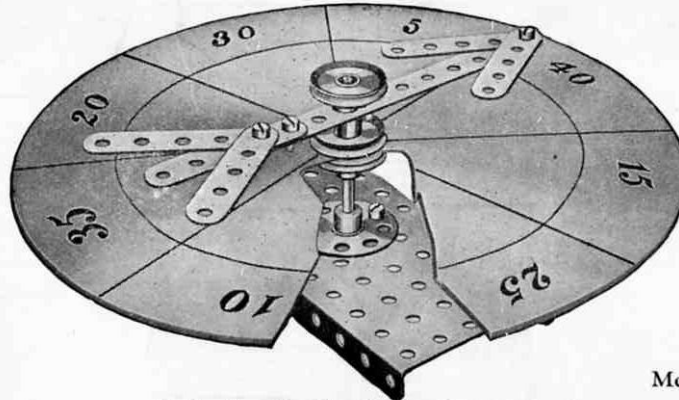
Model No. 00.5 Lumber Truck



Model No. 00.4
Bogie Truck

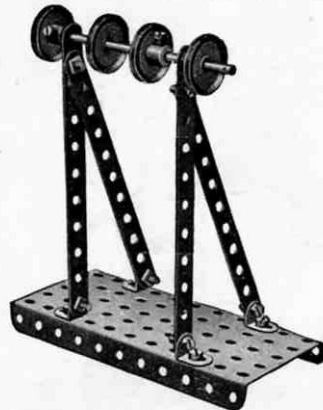


Model No. 00.6 Roulette Wheel



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

Model No. 00.7 Pulley Shafting



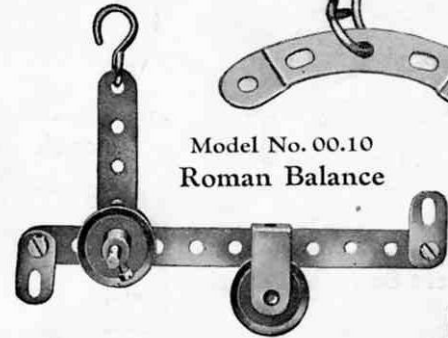
Model No. 00.8 Two-Hand Saw



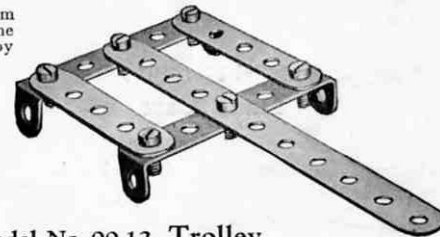
Model No.
00.9 Coat
Hanger



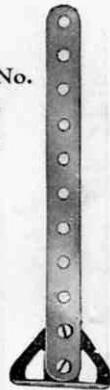
Model No. 00.10
Roman Balance



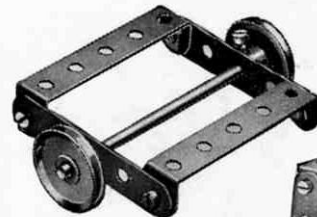
Model No. 00.11 Grill



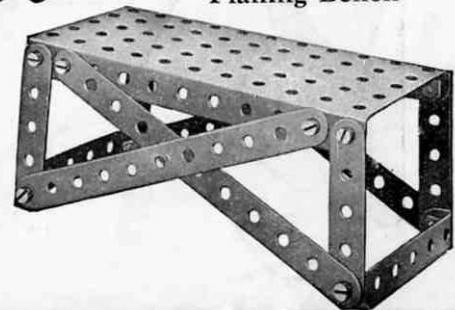
Model No.
00.13
Hoe



Model No. 00.12 Trolley

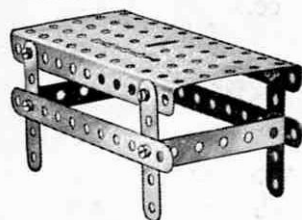


Model No. 00.14
Planing Bench



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

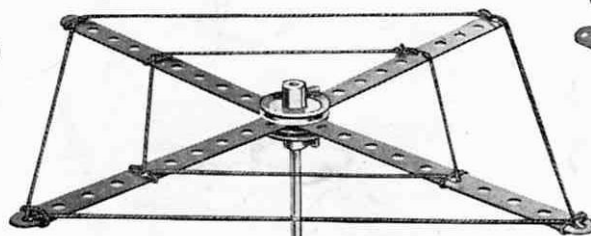
Model No. 00.15 Table



Model No. 00.17 Dividers



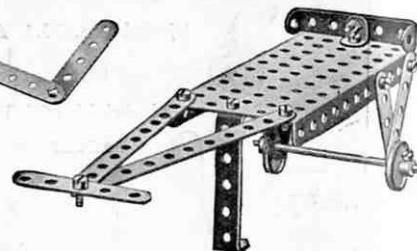
Model No. 00.22 Clothes Hanger



Model No. 00.26
Carpenter's Square



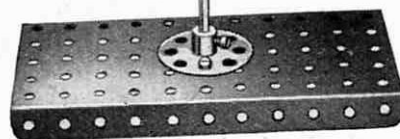
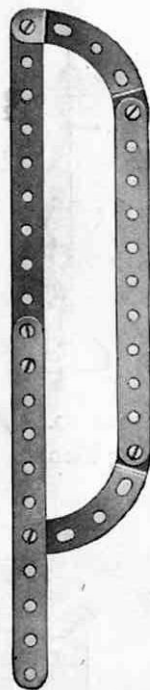
Model No. 00.27
Shipyard Bogie



Model No. 00.18
Bench

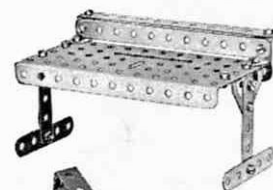


Model No. 00.16
Meat Saw

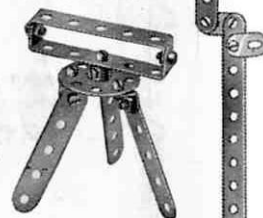


Model No. 00.23
Velocipede

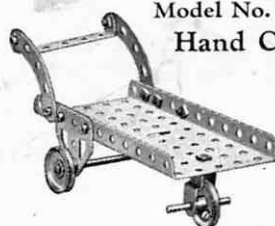
Model No. 00.28 Desk



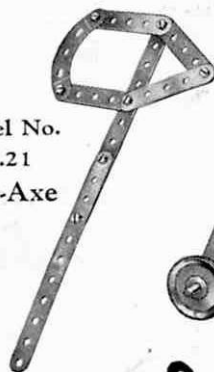
Model No.
00.29
Farm Sight



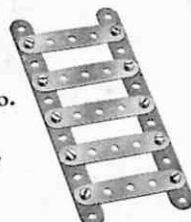
Model No. 00.19
Hand Cart



Model No.
00.21
Fire-Axe



Model No.
00.24
Ladder



Model No.
00.30
Trowel



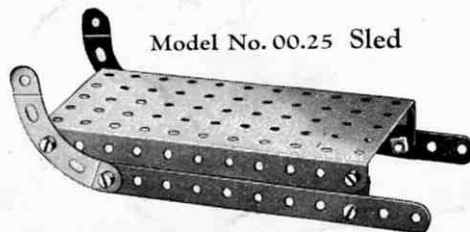
Model No. 00.32
Rifle with
Bayonet



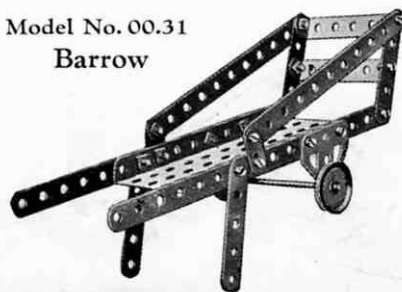
Model No.
00.20
Scarifier



Model No. 00.25 Sled

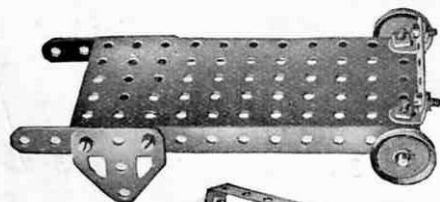


Model No. 00.31
Barrow

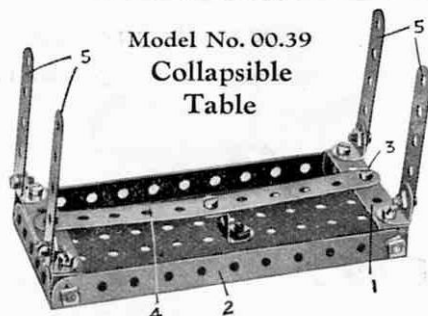


All these Models can be built with MECCANO Outfit No. 00

Model No. 00.33 Flat Truck



Model No. 00.39
Collapsible
Table



The $2\frac{1}{2}'' \times \frac{1}{4}''$ 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 $2\frac{1}{2}'' \times \frac{1}{4}''$ 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.

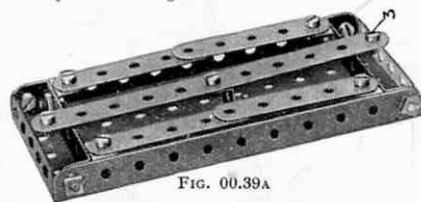
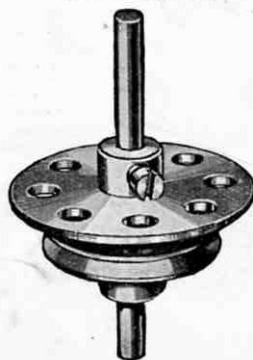


FIG. 00.39A

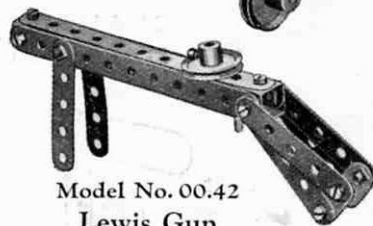
Model No. 00.40
Spinning Top



Model No. 00.41 Trolley

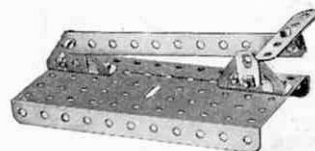


Model No.
00.46
Potato
Chopper

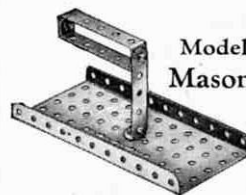


Model No. 00.42
Lewis Gun

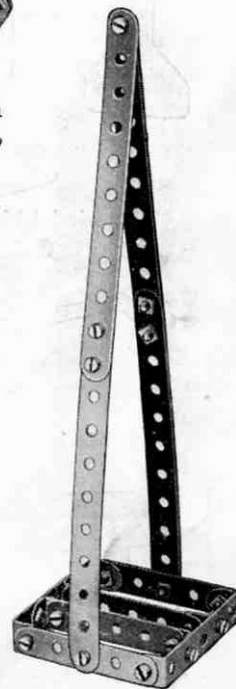
Model No. 00.43 Switch



Model No. 00.44
Mason's Trowel



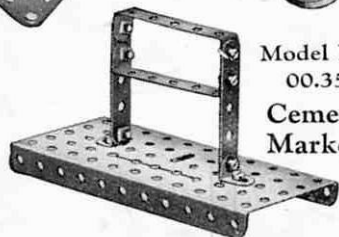
Model No. 00.45
Baggage Cart



Model No.
00.34
Spade



Model No.
00.35
Cement
Marker



Model No. 00.36 Motor Boat

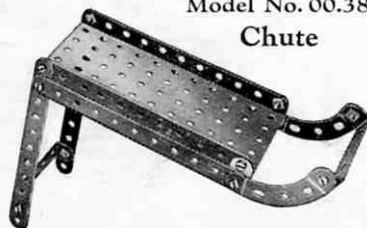


Model No.
00.37

Plasterer's
Hawk



Model No. 00.38
Chute

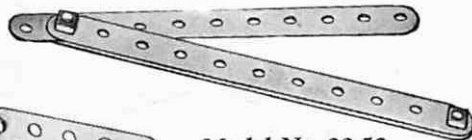


All these Models can be built with MECCANO Outfit No. 00

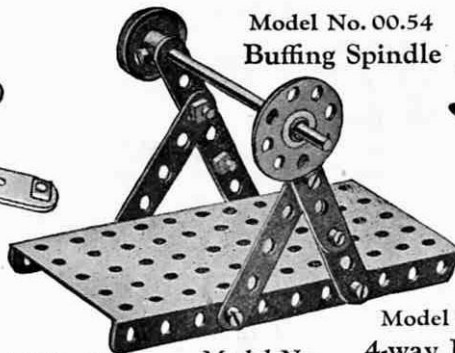
Model No. 00.47
Road Sign



Model No. 00.50
Razor



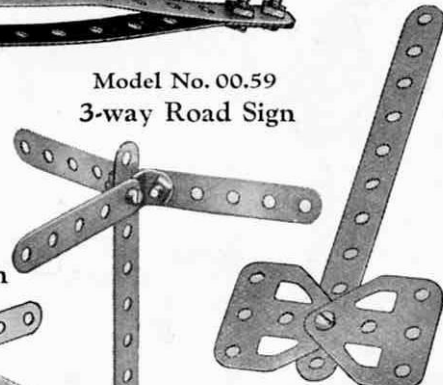
Model No. 00.54
Buffing Spindle



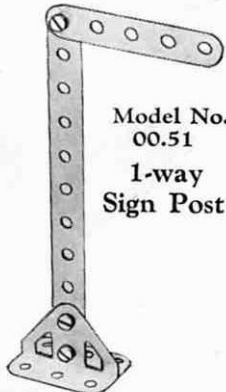
Model No. 00.58 Tweezers Model No. 00.60
Battle Axe



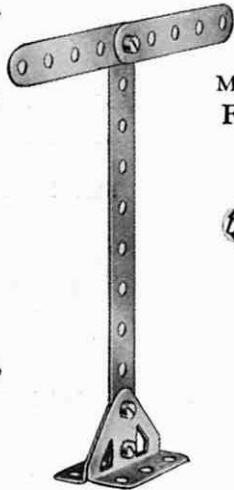
Model No. 00.59
3-way Road Sign



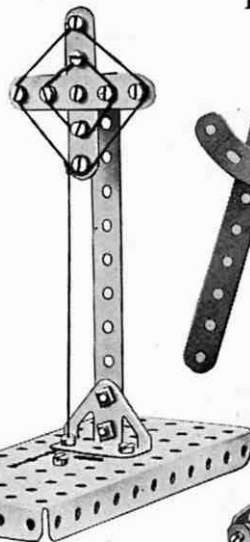
Model No.
00.51
1-way
Sign Post



Model No. 00.52
2-way Sign Post



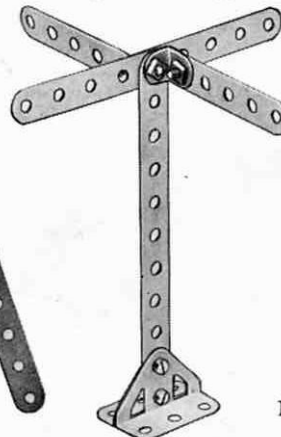
Model No. 00.53
Frame Aerial



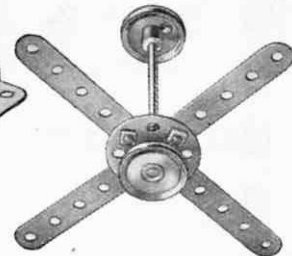
Model No.
00.55
Dividers



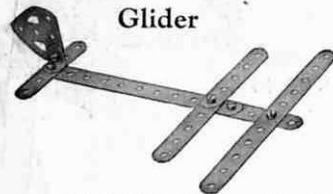
Model No. 00.56
4-way Road Sign



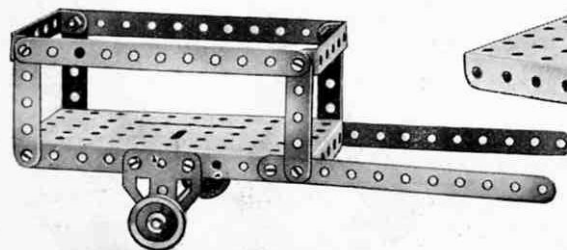
Model No. 00.61 Ceiling Fan



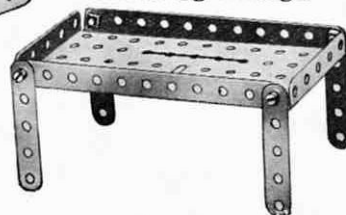
Model No. 00.48
Glider



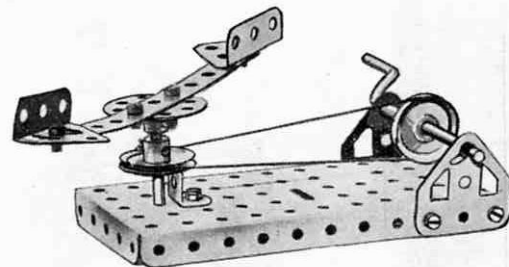
Model No. 00.49 Cart



Model No. 00.57
Drinking Trough

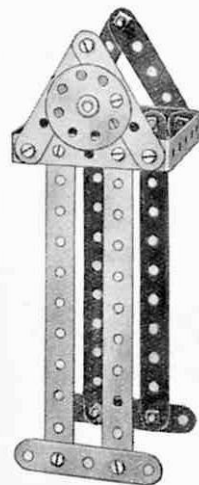


Model No. 00.62 Roundabout



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

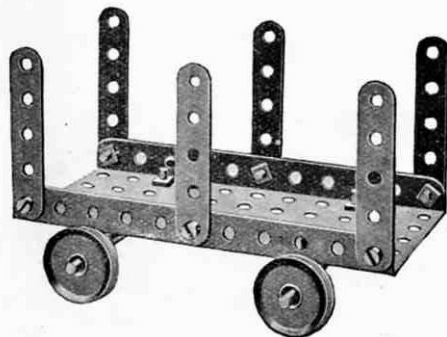
Model No. 00.63
Grandfather's Clock



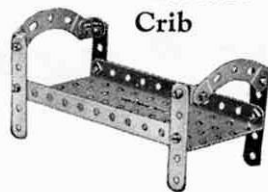
Model No. 00.64
Tin Opener



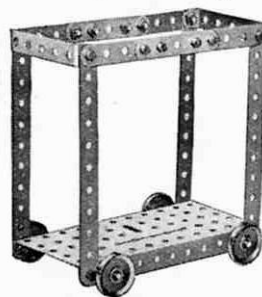
Model No. 00.65 Timber Truck



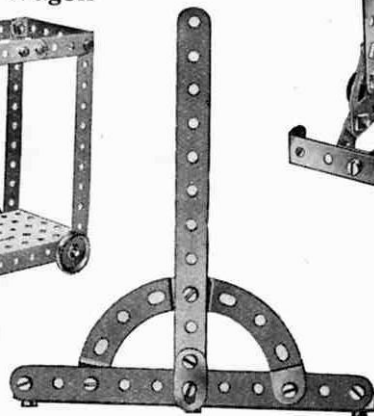
Model No. 00.66
Crib



Model No. 00.67
Refreshment Wagon



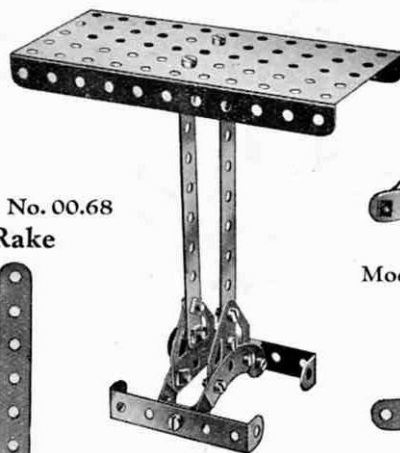
Model No. 00.68
Rake



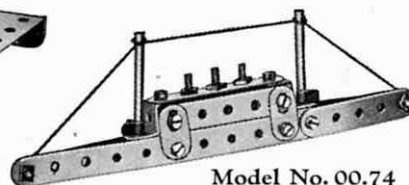
Model No. 00.69 Stool



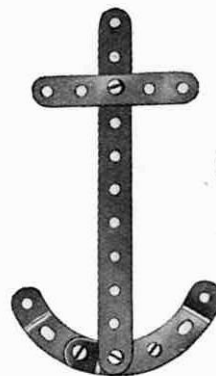
Model No. 00.70 Table



Model No. 00.72
Liner



Model No. 00.73
Anchor



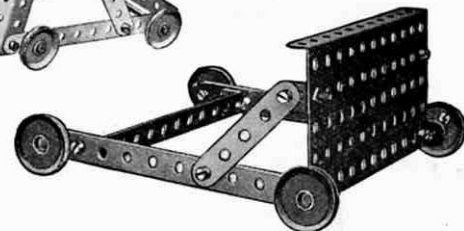
Model No. 00.74
Gravel Sifter



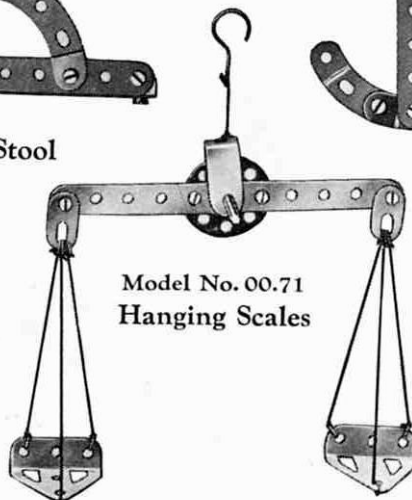
Model No. 00.75
Mail Bag Hanger



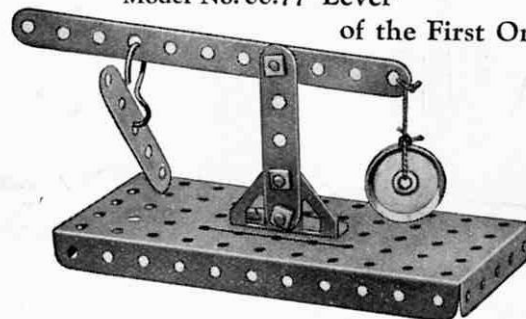
Model No. 00.76
Devil Wall



Model No. 00.71
Hanging Scales



Model No. 00.77 Lever
of the First Order

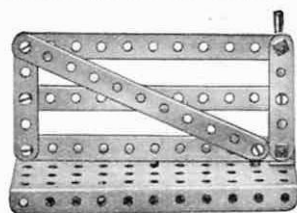


All these Models can be built with MECCANO Outfit No. 00

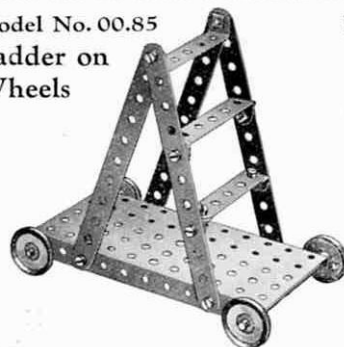
Model No. 00.78
Friction Grip Tongs



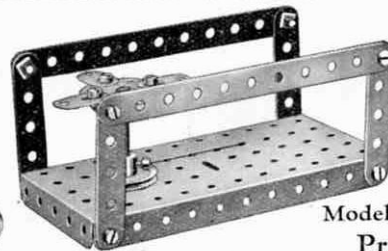
Model No. 00.80 Gate



Model No. 00.85
Ladder on
Wheels



Model No. 00.87 Turnstile



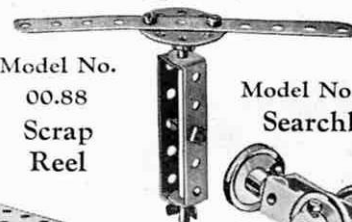
Model No. 00.92
Violin



Model No. 00.81
Clothes Horse



Model No. 00.89
Propeller



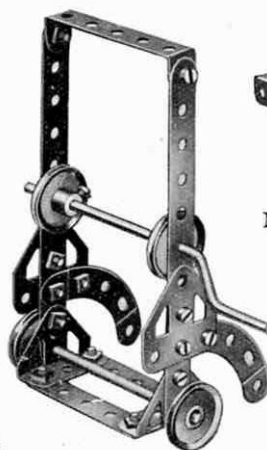
Model No. 00.79
Telegraph Pole



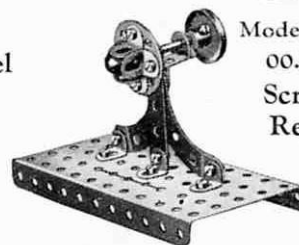
Model No.
00.83
Birdcage
and
Stand



Model No. 00.86
Garden Hose Reel



Model No.
00.88
Scrap
Reel



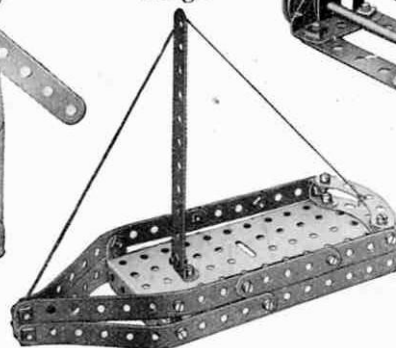
Model No. 00.93
Searchlight



Model No. 00.82
Meccano Man



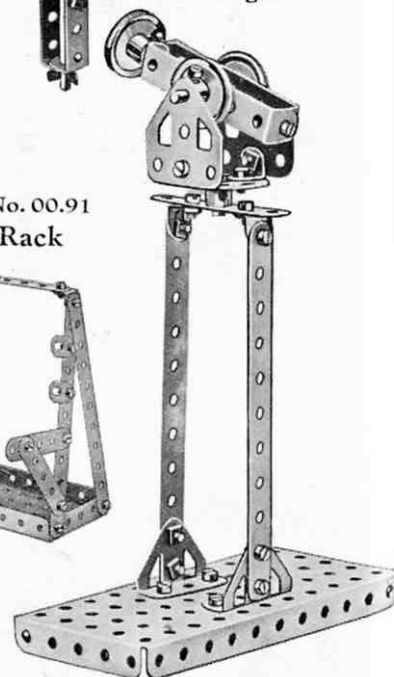
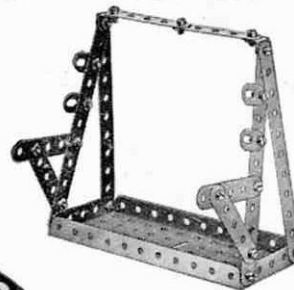
Model No. 00.84
Barge



Model No. 00.90
Elevator Car



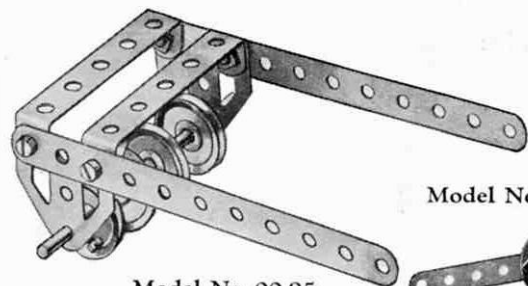
Model No. 00.91
Pen Rack



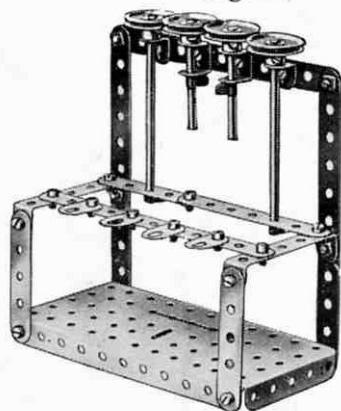
All these Models can be built with MECCANO Outfit No. 00

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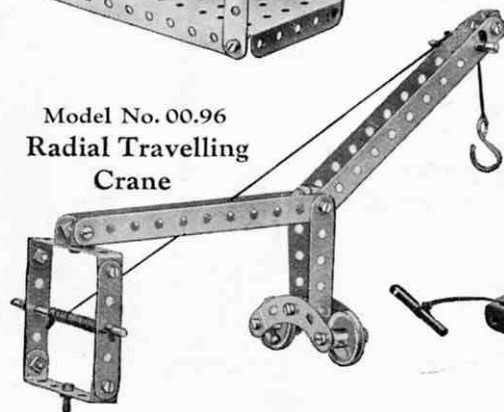
Model No. 00.94 Field Roller



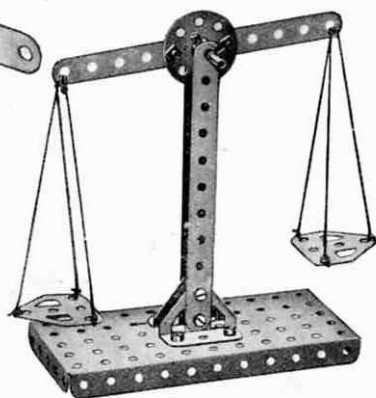
Model No. 00.95
Organ



Model No. 00.96
Radial Travelling
Crane



Model No. 00.97 Scales



Model No. 00.98
Book End

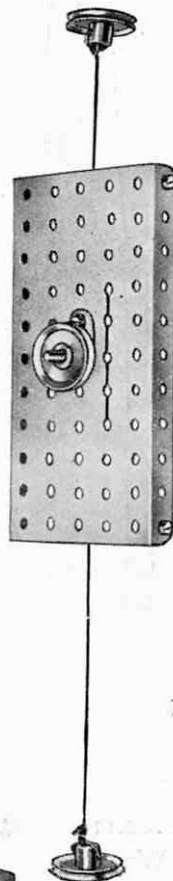


Model No. 00.99
Cheese Cutter

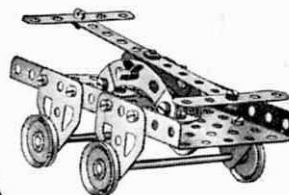


Model No. 00.100 Magic Plate

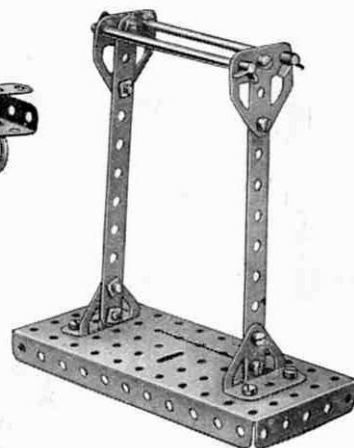
The cord is wound once round a 2" Axle Rod that is journalled in a Flat Bracket and a 1/2" Reversed Angle Bracket, which are bolted to the Plate. If the cord is held loosely the plate will drop, but as soon as the cord is tightened the plate becomes immovable.



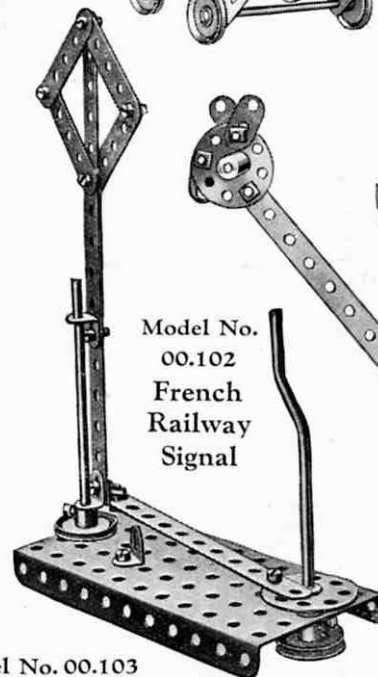
Model No. 00.101
Hand Car



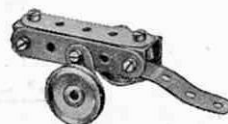
Model No. 00.104
Towel Horse



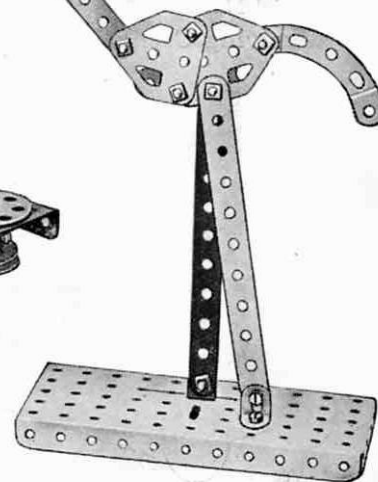
Model No.
00.102
French
Railway
Signal



Model No. 00.103
Cannon

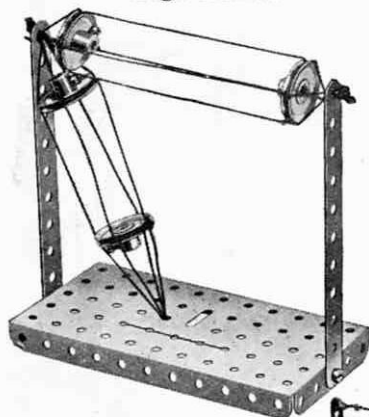


Model No. 00.105
Prehistoric Bird



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

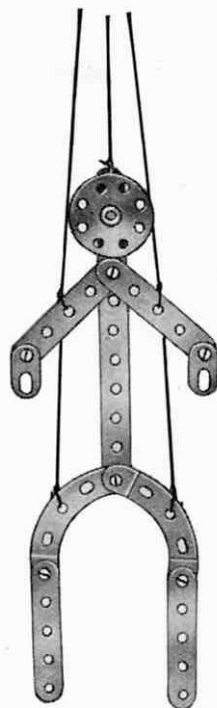
Model No. 00.106
Cage Aerial



Model No. 00.108 Double Wire
L Aerial



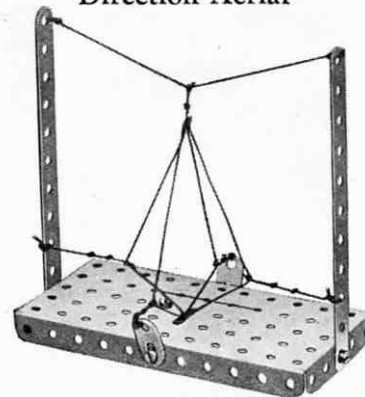
Model No. 00.110
Jumping Jack



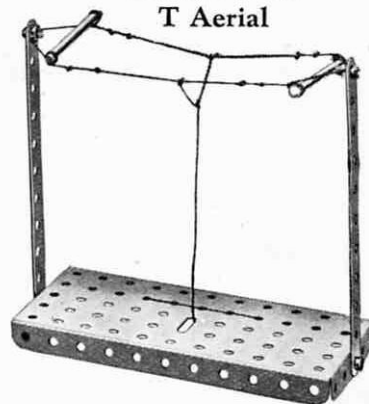
Model No. 00.112
Single Wire
T Aerial



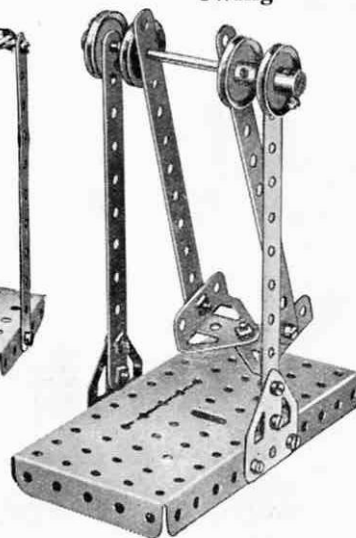
Model No. 00.114
Direction Aerial



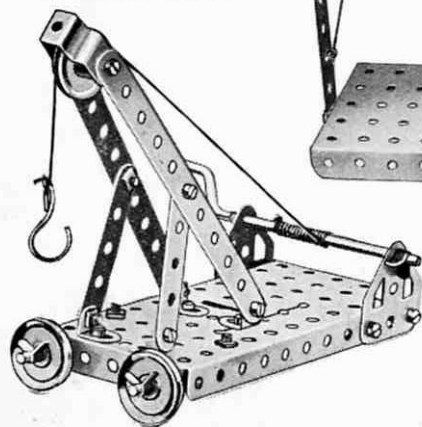
Model No. 00.113
Double Wire
T Aerial



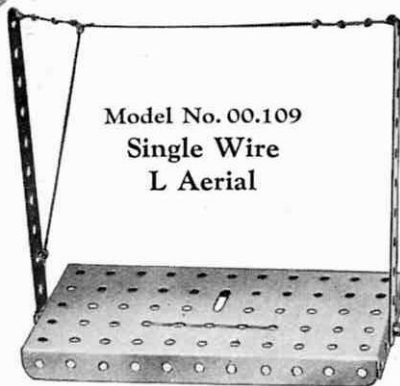
Model No. 00.115
Swing



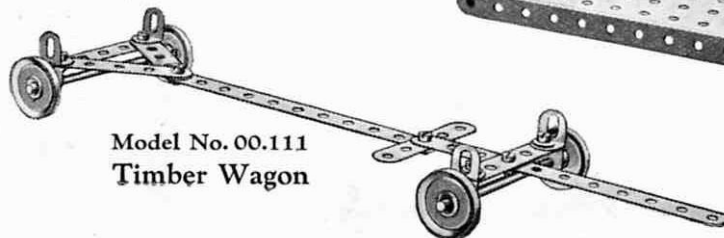
Model No. 00.107
Revolving Crane



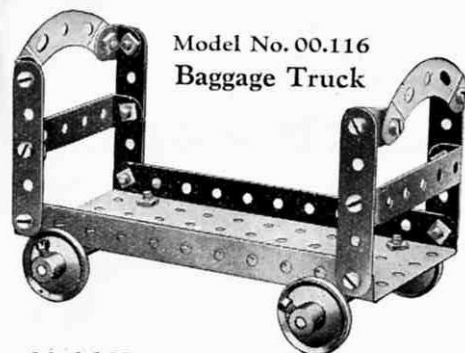
Model No. 00.109
Single Wire
L Aerial



Model No. 00.111
Timber Wagon



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

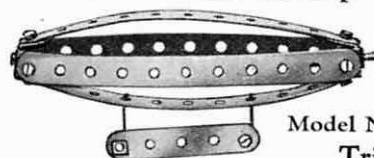


Model No. 00.116
Baggage Truck

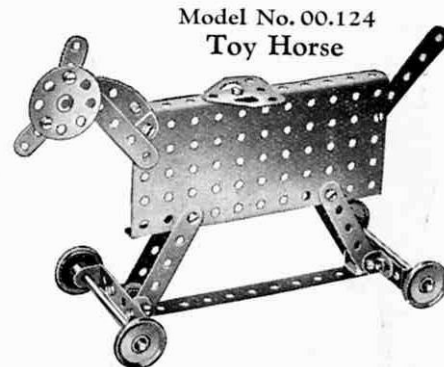
Model No. 00.119
Road Sign



Model No. 00.120 Airship

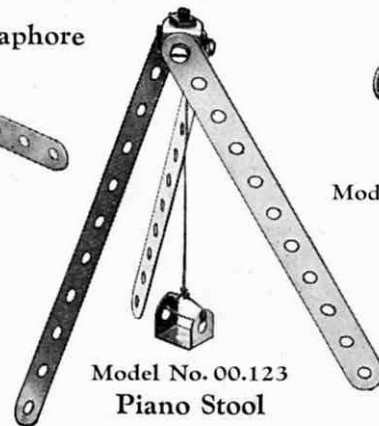
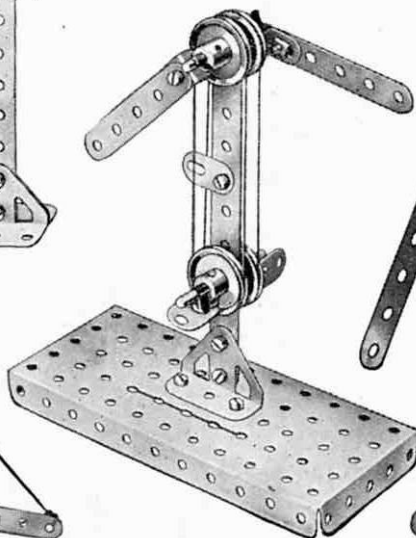


Model No. 00.122
Tripod



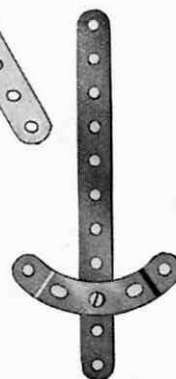
Model No. 00.124
Toy Horse

Model No. 00.121 Semaphore



Model No. 00.123
Piano Stool

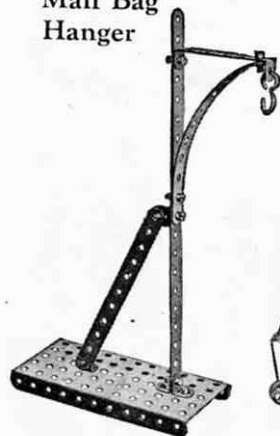
Model No. 00.125
Sword



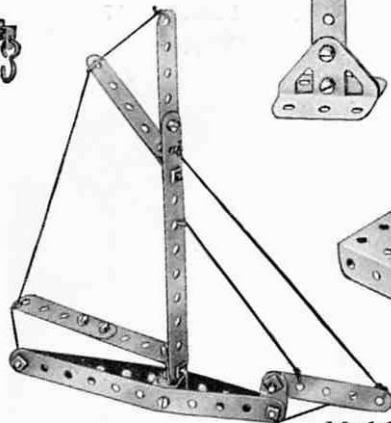
Model No. 00.126
Umbrella Stand



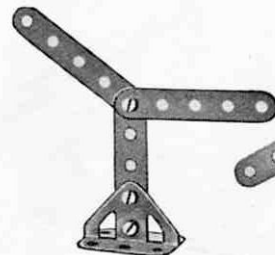
Model No. 00.117
Mail Bag
Hanger



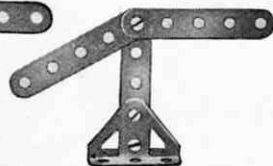
Model No. 00.118
Yacht



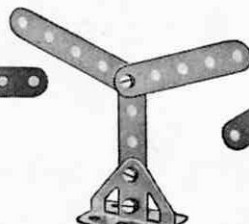
Models Nos. 00.127—00.134 Gradient Indicators



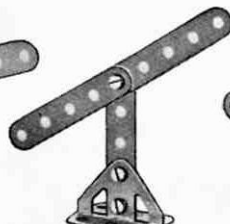
00.127



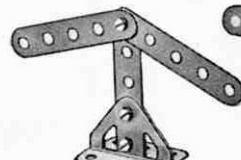
00.128



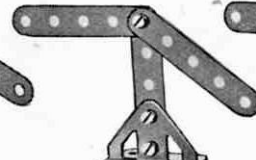
00.129



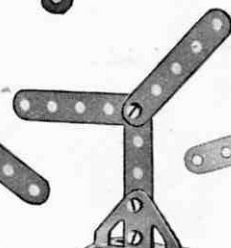
00.130



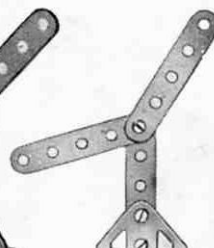
00.131



00.132



00.133



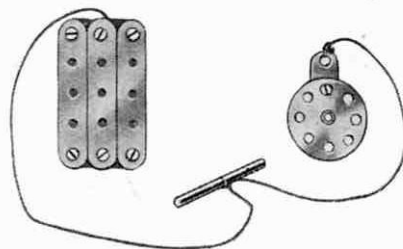
00.134

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

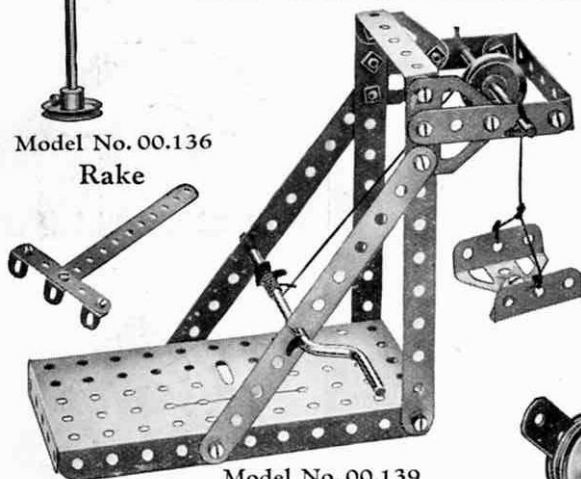
Model No. 00.135
Street
Lamp



Model No. 00.137
Watch and Chain



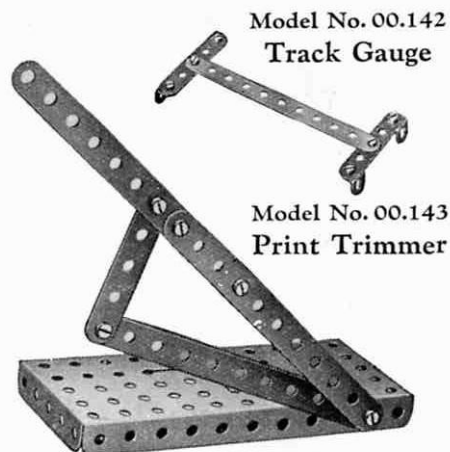
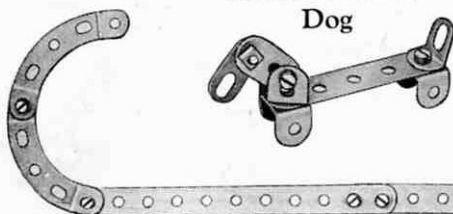
Model No. 00.138 Pit-Head Gear



Model No. 00.136
Rake



Model No. 00.139
Dog

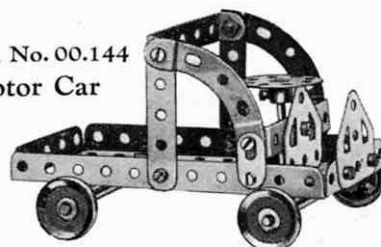


Model No. 00.142
Track Gauge

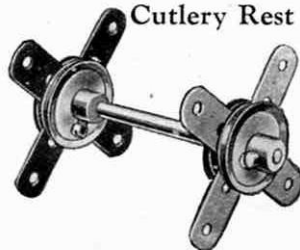
Model No. 00.143
Print Trimmer



Model No. 00.144
Motor Car

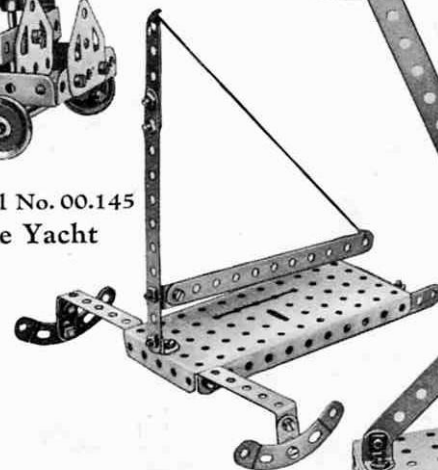


Model No. 00.140
Cutlery Rest

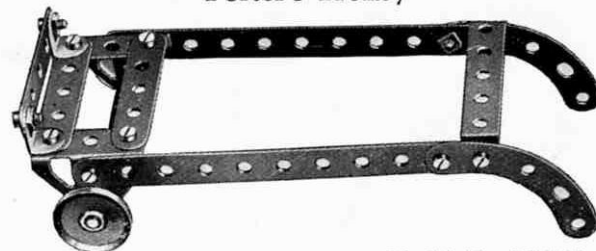


Model No. 00.141 Walking Stick

Model No. 00.145
Ice Yacht



Model No. 00.146
Porter's Trolley



Model No. 00.148
Step Ladder



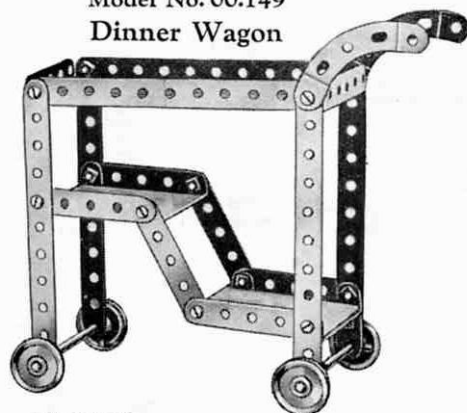
Model No. 00.147
Ostrich



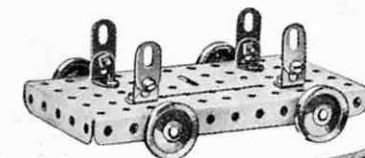
All these Models can be built with MECCANO Outfit No. 00

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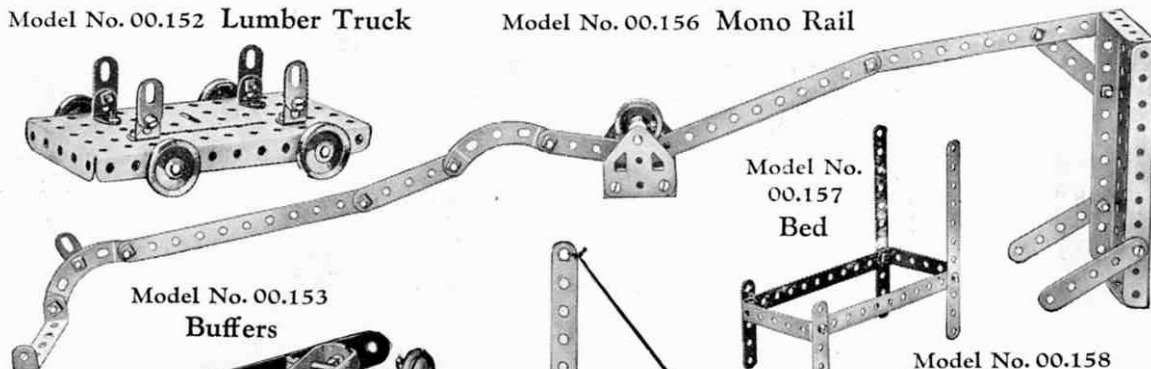
Model No. 00.149
Dinner Wagon



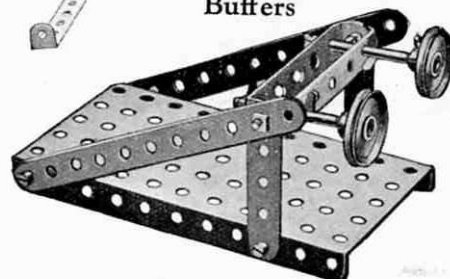
Model No. 00.152 Lumber Truck



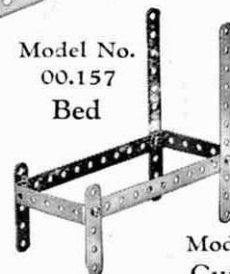
Model No. 00.156 Mono Rail



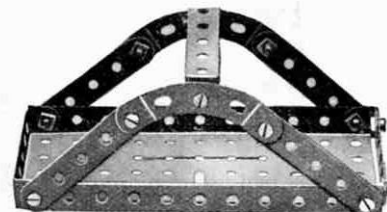
Model No. 00.153
Buffers



Model No.
00.157
Bed



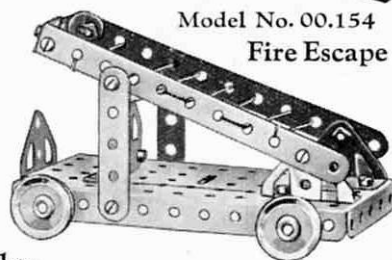
Model No. 00.158
Cutlery Basket



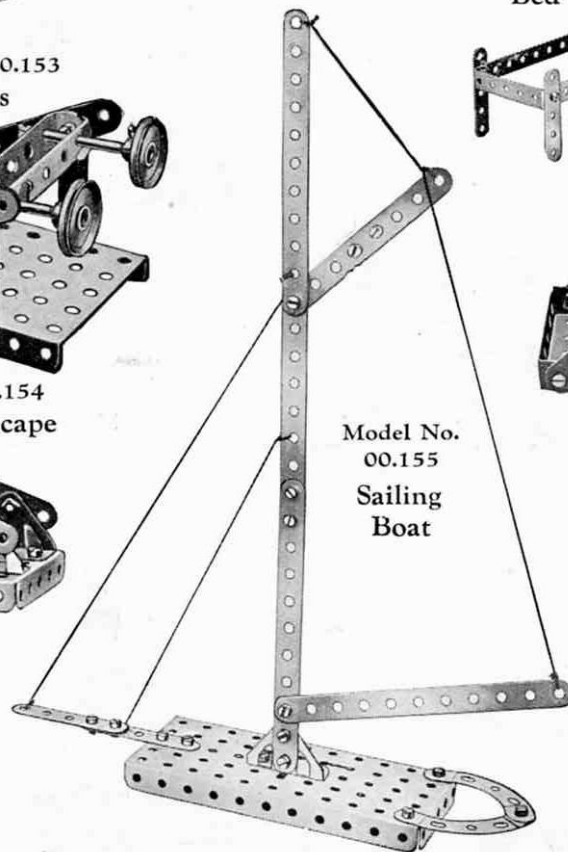
Model No.
00.150
Sawing
Horse



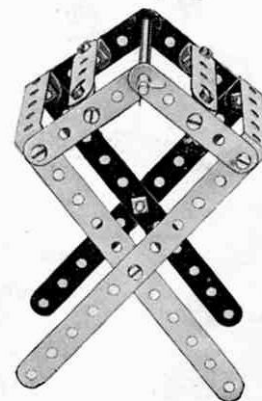
Model No. 00.154
Fire Escape



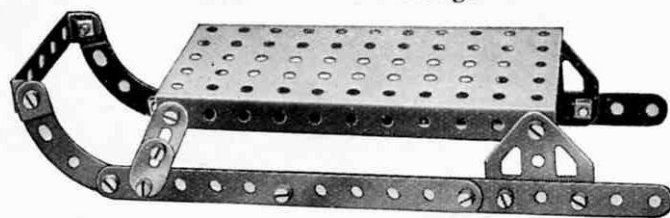
Model No.
00.155
Sailing
Boat



Model No. 00.159
Clothes Drying Frame

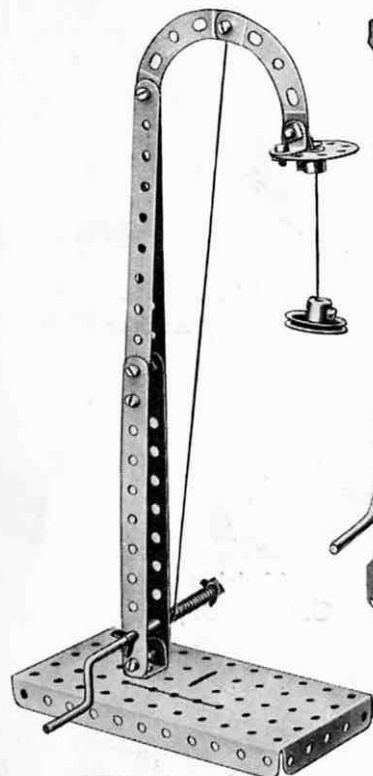


Model No. 00.151 Sledge



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

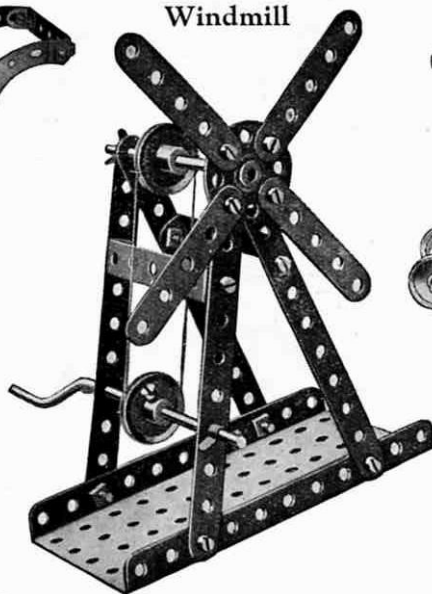
Model No. 00.160
Arc Lamp



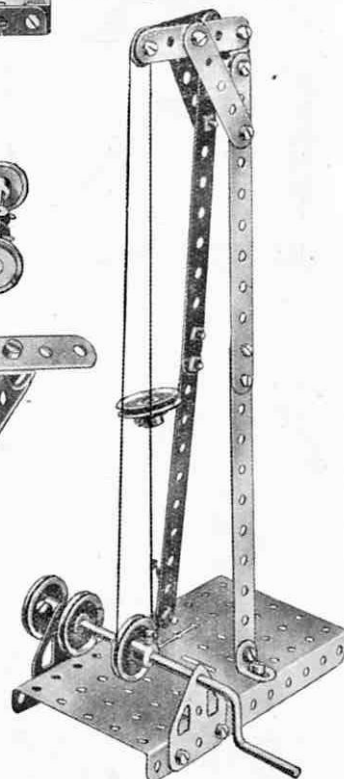
Model No. 00.162
Tea Wagon



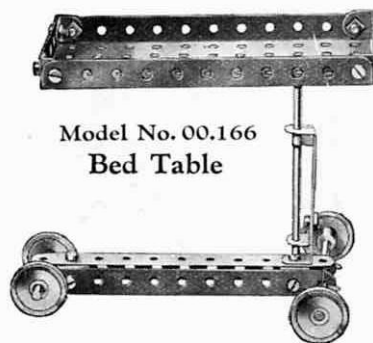
Model No. 00.164
Windmill



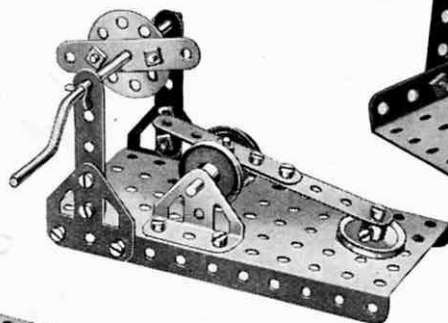
Model No. 00.168
Airship Mooring Mast



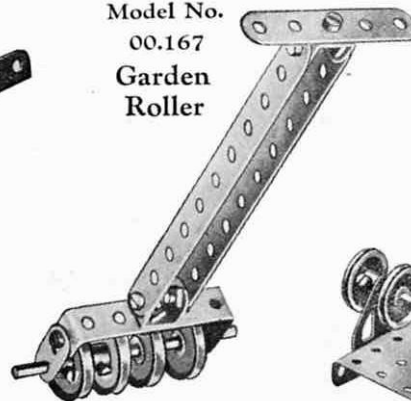
Model No. 00.166
Bed Table



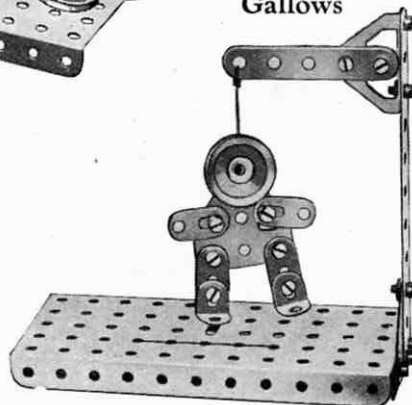
Model No. 00.163
Trip Hammer



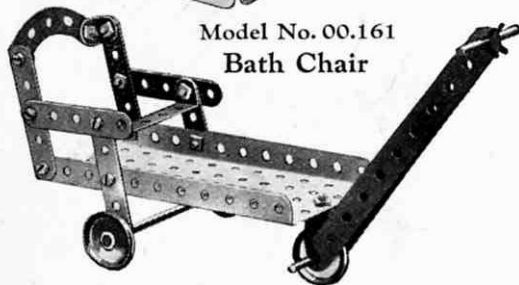
Model No.
00.167
Garden
Roller



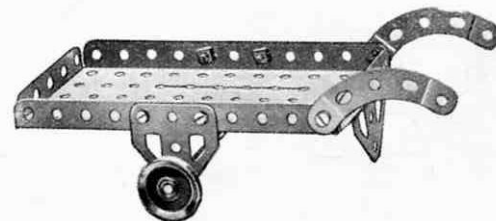
Model No. 00.165
Gallows



Model No. 00.161
Bath Chair

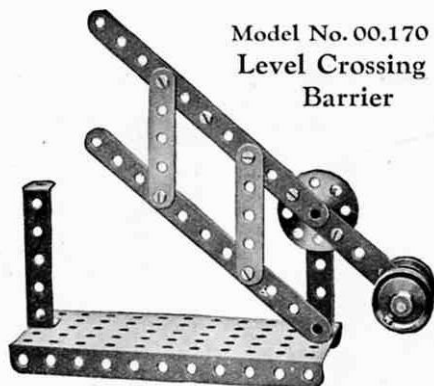


Model No. 00.169 Hand Truck



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

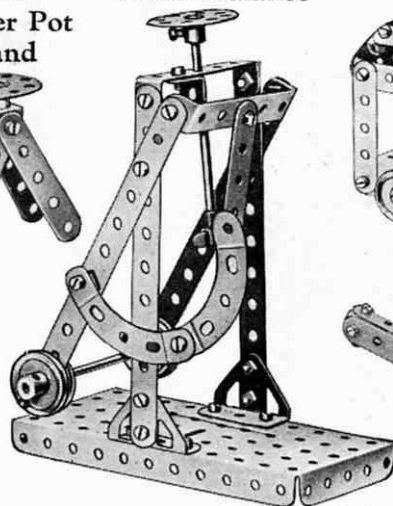
Model No. 00.170
Level Crossing
Barrier



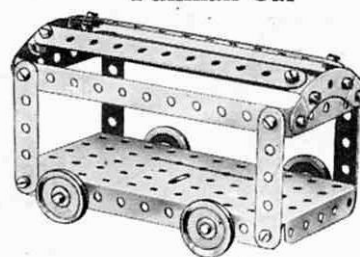
Model No.
00.172
Flower Pot
Stand



Model No. 00.174
Letter Balance

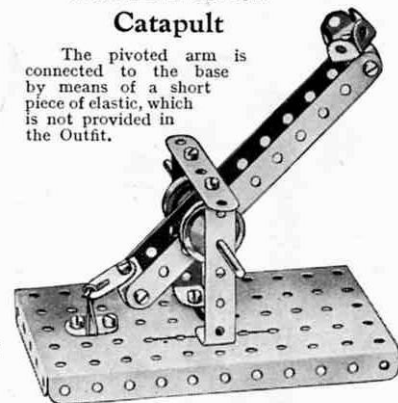


Model No. 00.176
Pullman Car

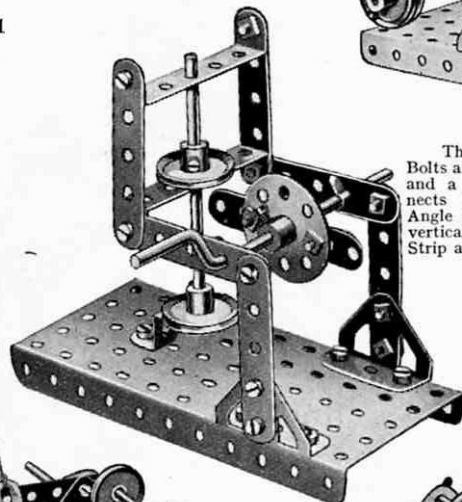


Model No. 00.178
Catapult

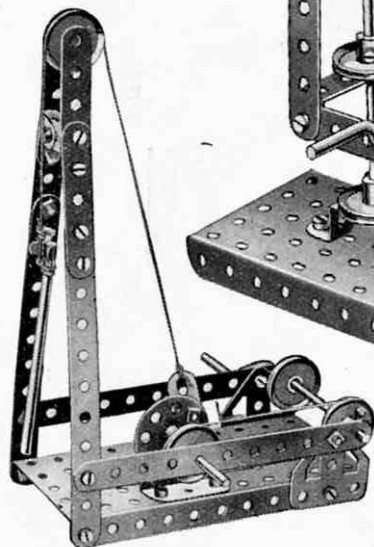
The pivoted arm is connected to the base by means of a short piece of elastic, which is not provided in the Outfit.



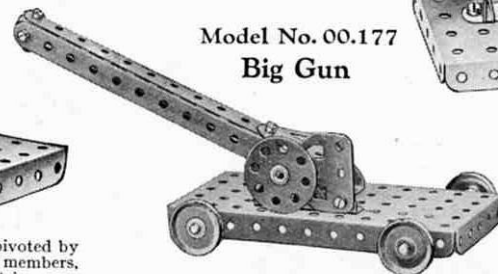
Model No. 00.173
Ore Crusher



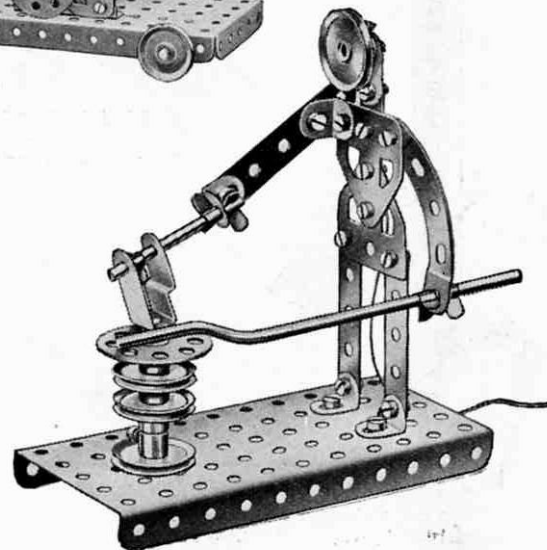
Model No. 00.171
Well Driller



Model No. 00.177
Big Gun

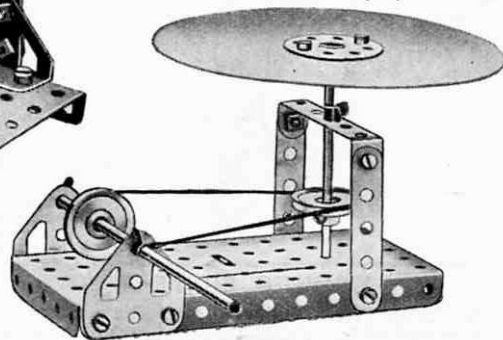


Model No. 00.179
Blacksmith



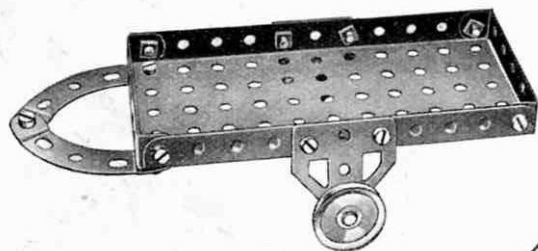
The weighted $5\frac{1}{2}$ " Strips are pivoted by Bolts and lock-nuts to the vertical members, and a $2\frac{1}{2}" \times \frac{1}{2}"$ Double Angle Strip connects their upper ends. This Double Angle Strip is connected, in turn, to the vertical $3\frac{1}{2}"$ Axle Rod by means of a $2\frac{1}{2}"$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

Model No. 00.175 Joy Wheel

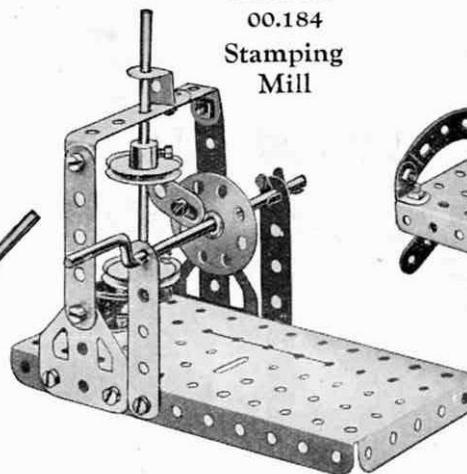


All these Models can be built with MECCANO Outfit No. 00

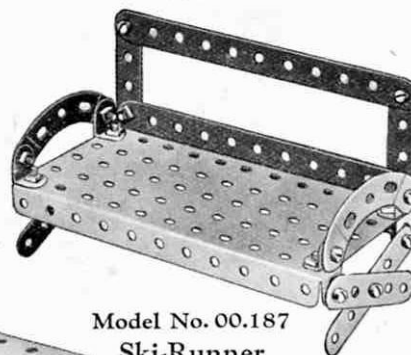
Model No. 00.180 Hand Truck



Model No.
00.184
Stamping
Mill



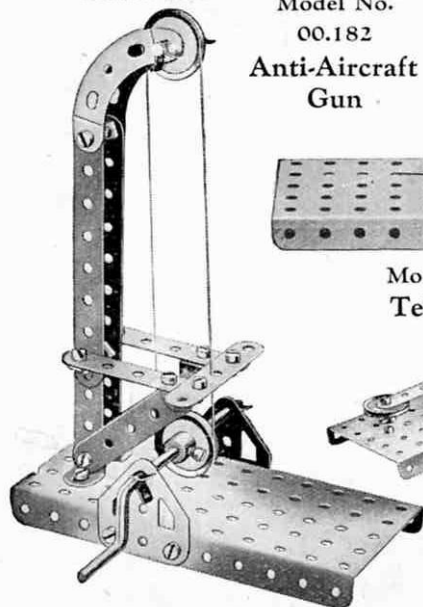
Model No. 00.186
Garden Seat



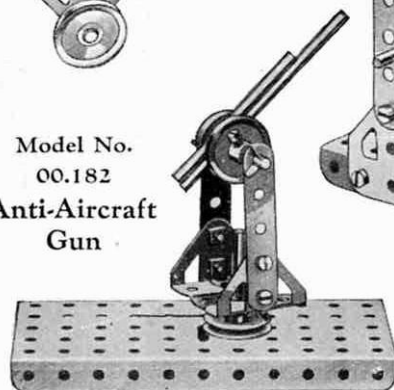
Model No. 00.188
Watch Stand



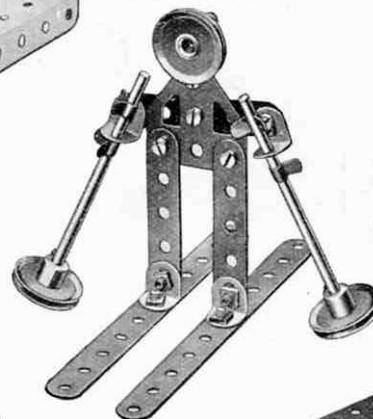
Model No. 00.181
Band Saw



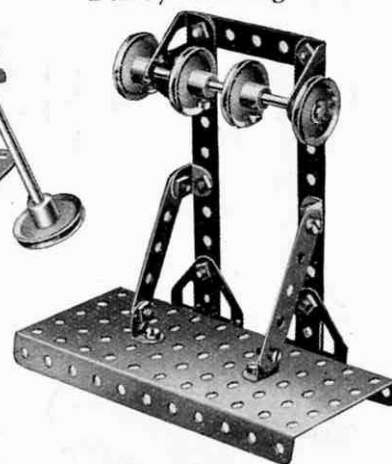
Model No.
00.182
Anti-Aircraft
Gun



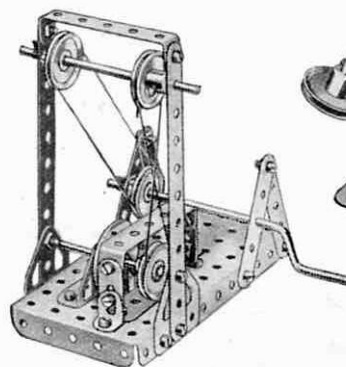
Model No. 00.187
Ski-Runner



Model No. 00.189
Pulley Shafting



Model No. 00.185
Circular Saw



Model No. 00.183
Telegraph Key



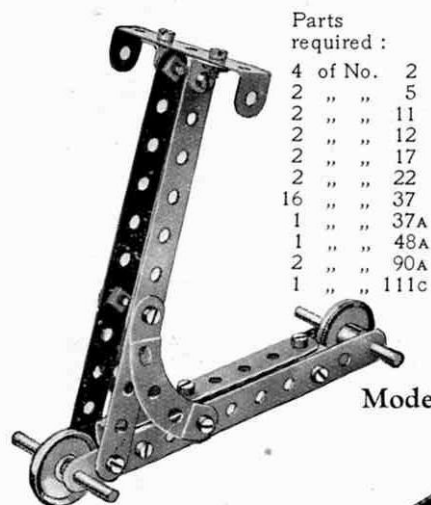
HOW TO CONTINUE

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.

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

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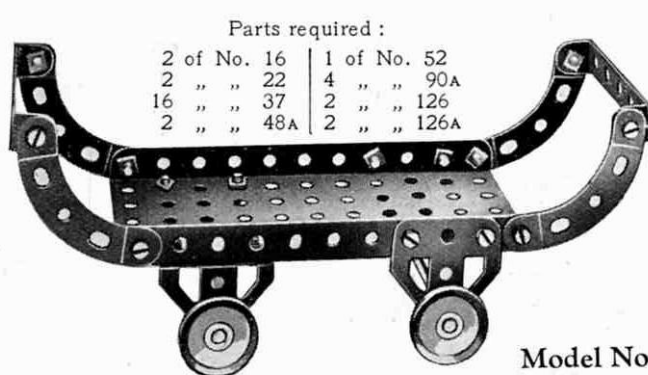
Model No. 0.1 Scooter



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

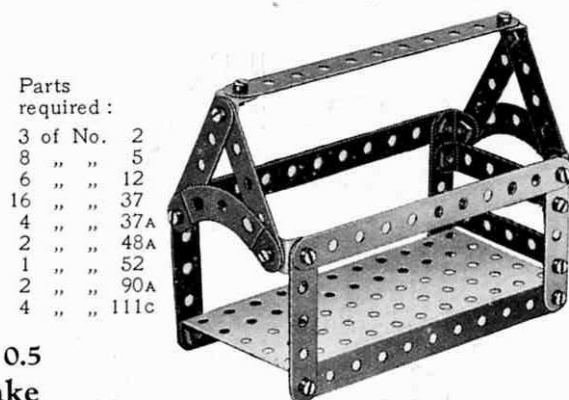
Model No. 0.4 Push Cart



Parts required :

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

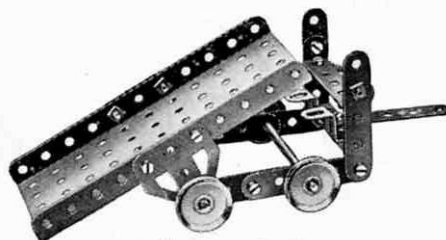
Model No. 0.7 Dog Kennel



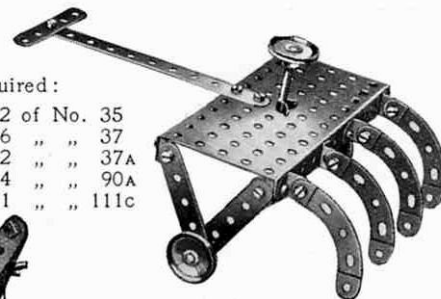
Parts
required :

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



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			

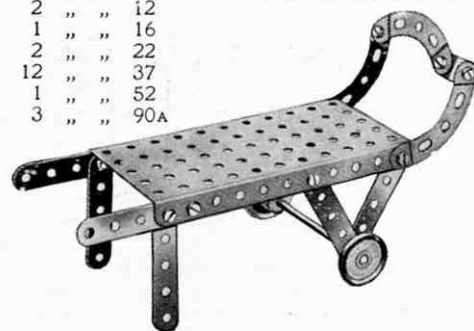
Model No. 0.2 Luggage Truck

Parts
required :

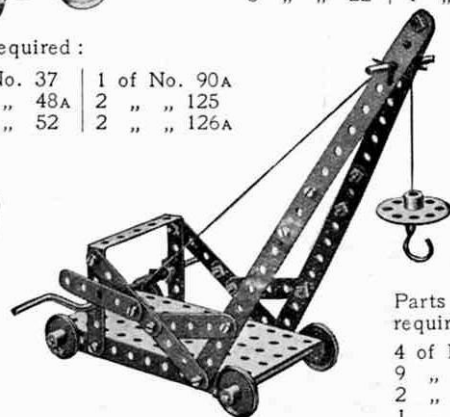
2 of No.	2
6 " "	5
2 " "	12
1 " "	16
2 " "	22
12 " "	37
1 " "	52
3 " "	90A

Parts required :

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



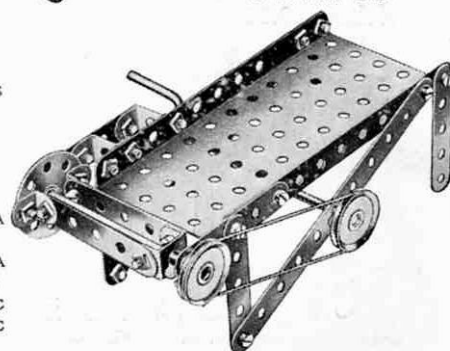
Model No. 0.6 Jib Crane



Parts
required :

4 of No.	2
9 " "	5
2 " "	16
1 " "	17

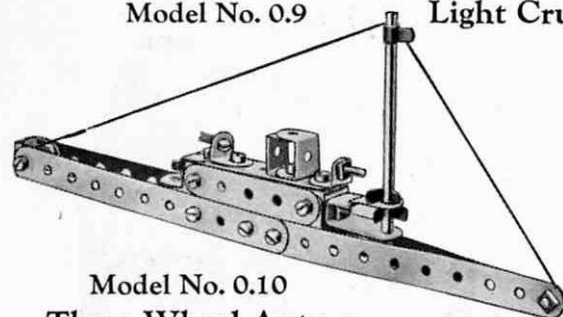
1 of No.	19s
4 " "	22
1 " "	23
1 " "	24
4 " "	35
16 " "	37
1 " "	37A
1 " "	40
1 " "	48A
1 " "	52
1 " "	57c
1 " "	111c



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

Model No. 0.9

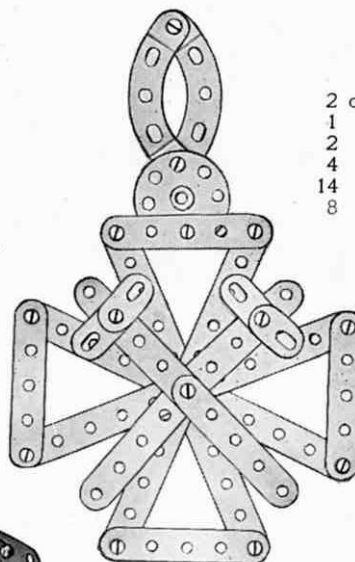
Light Cruiser



Parts required :

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

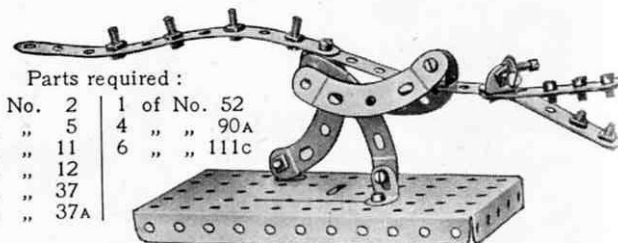
Model No. 0.13 Medal



Parts required :

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

Model No. 0.14 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

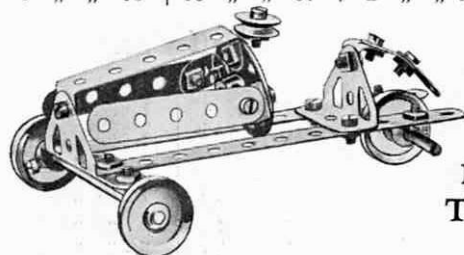
Parts required :

4 of No.	2	2 of No.	12	6 of No.	37A	9 of No.	90A
8 " "	5	1 " "	24	4 " "	48A	6 " "	111c
3 " "	10	16 " "	37	1 " "	52	1 " "	126A

Model No. 0.10
Three-Wheel Auto

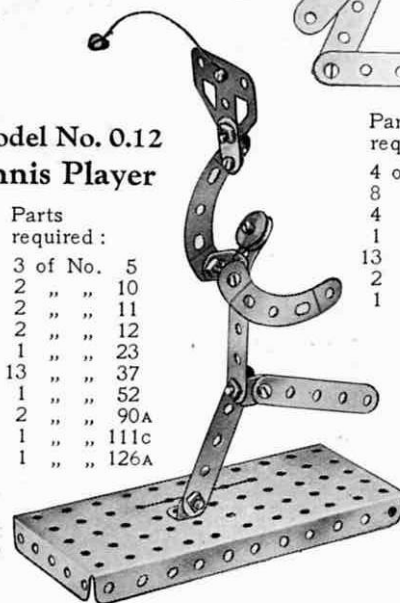
Parts required :

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

Model No. 0.12
Tennis Player

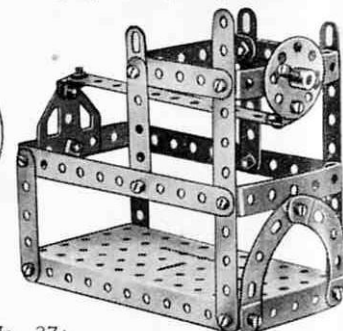
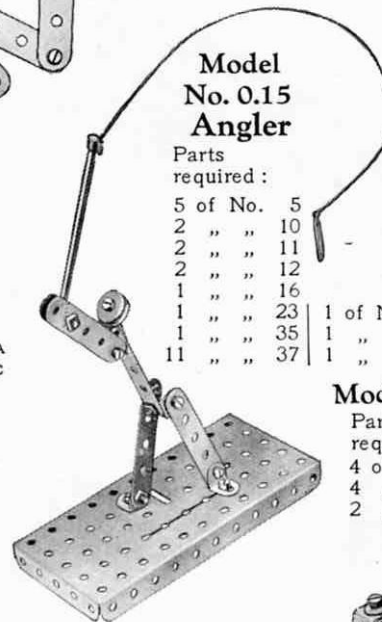
Parts required :

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

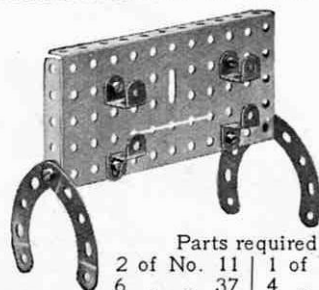
Model
No. 0.15
Angler

Parts required :

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



Model No. 0.11 Pen Rack



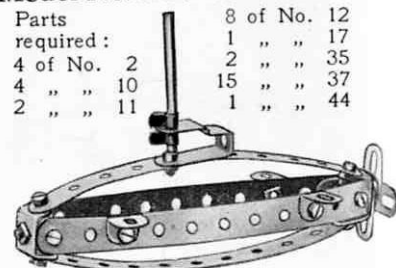
Parts required :

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

Model No. 0.17 Submarine

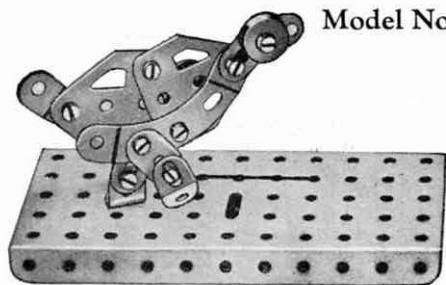
Parts required :

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



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

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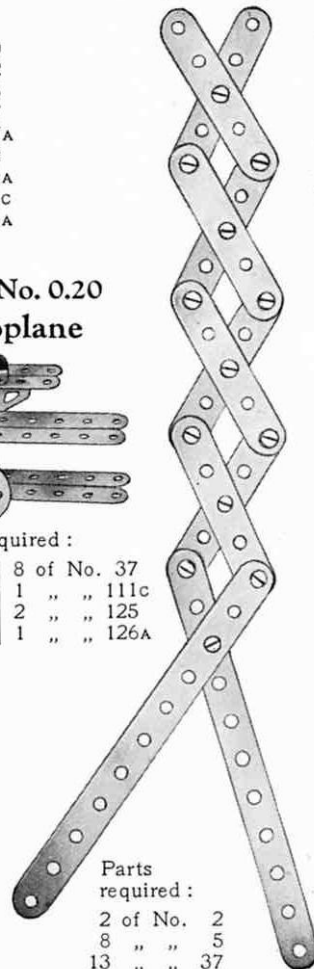


Model No. 0.18 Goose

Parts required :

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

Model No. 0.22
Lazy Tong



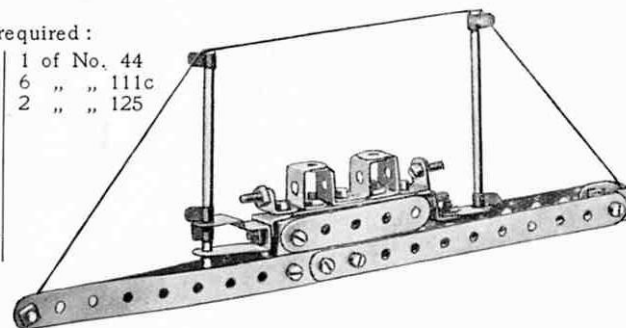
Parts required :

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

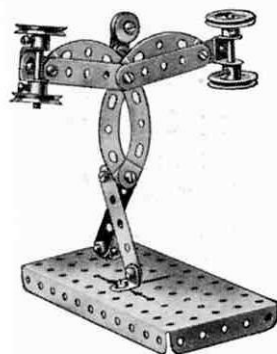
Parts required :

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

Model No. 0.23 Battleship



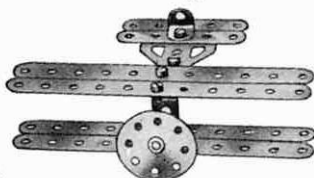
Model No. 0.19 Strong Man



Parts required :

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

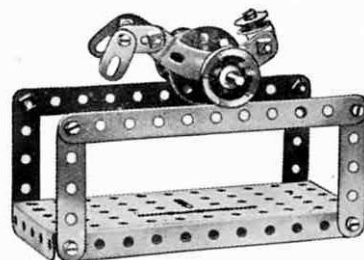
Model No. 0.20
Aeroplane



Parts required :

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

Model No. 0.24 Gymnast



Parts required :

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

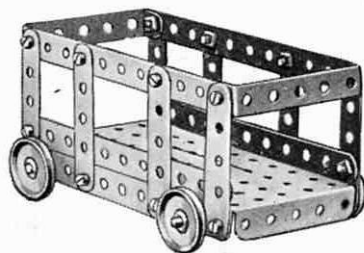
Model No. 0.25
Rocking Horse

Parts required :

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



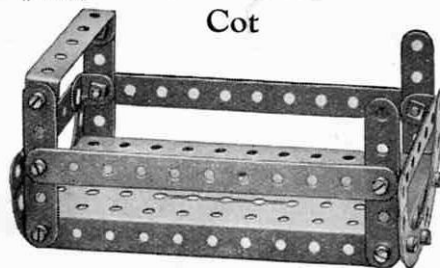
Model No. 0.21 Cattle Truck



Parts required :

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

Model No. 0.26
Cot

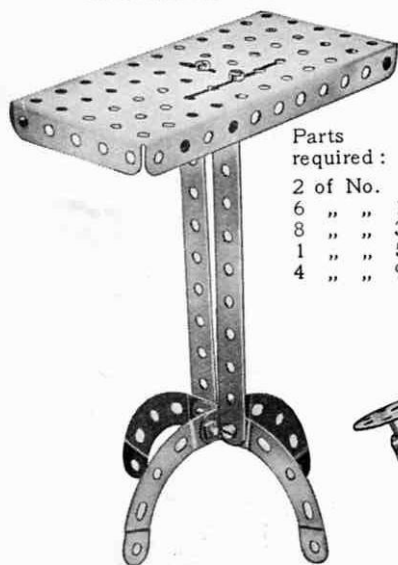


Parts required :

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

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

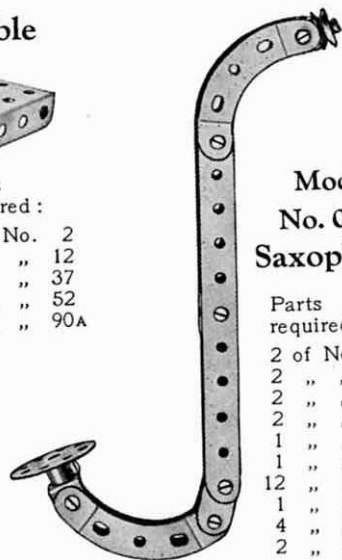
Model No. 0.27 Table



Parts
required :

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

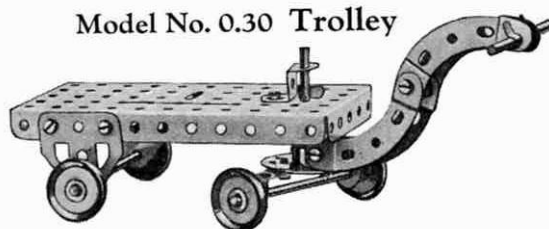
Model
No. 0.29
Saxophone



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		

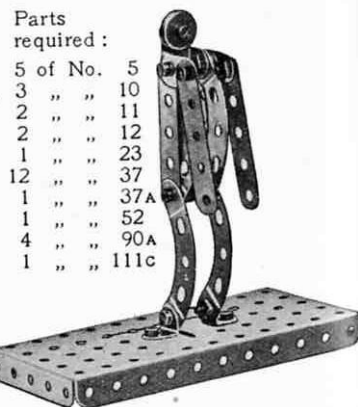
Model No. 0.31 Field Gun and Carriage



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



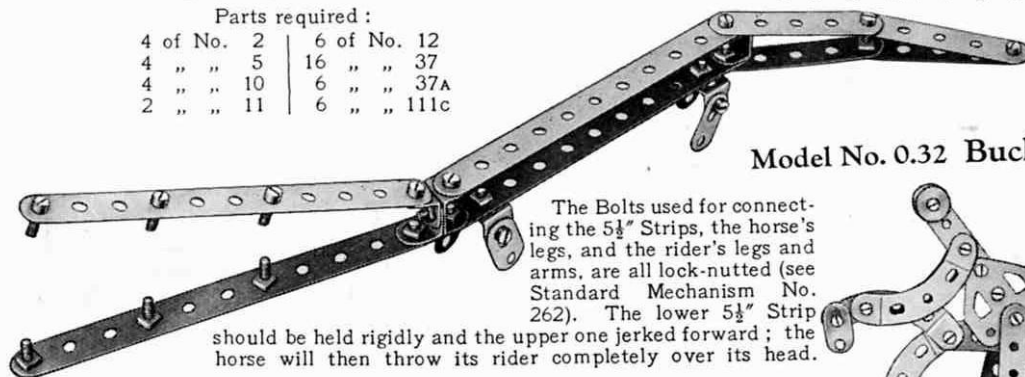
Parts
required :

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

Model No. 0.28 Crocodile

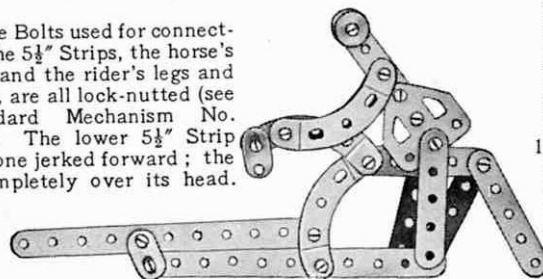
Parts required :

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



The Bolts used for connecting the $5\frac{1}{2}$ " Strips, the horse's legs, and the rider's legs and arms, are all lock-nutted (see Standard Mechanism No. 262). The lower $5\frac{1}{2}$ " Strip should be held rigidly and the upper one jerked forward; the horse will then throw its rider completely over its head.

Model No. 0.32 Bucking Broncho



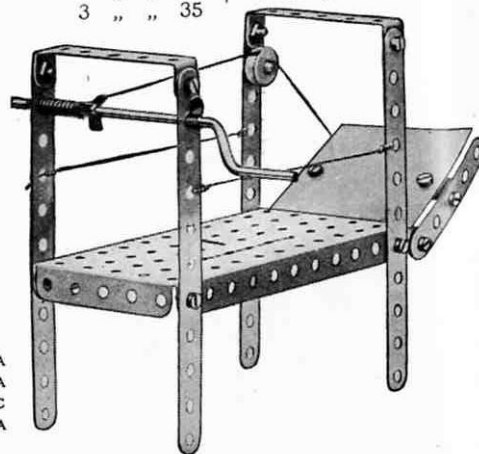
Parts
required :

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

Model No. 0.34 Gangway

Parts required :

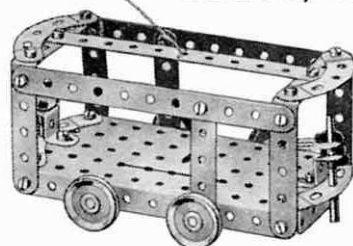
4 of No.	2	16 of No.	37
2 " "	5	2 " "	37A
2 " "	10	1 " "	40
2 " "	12	2 " "	48A
1 " "	19s	1 " "	52
1 " "	23	1 " "	111c
3 " "	35		



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

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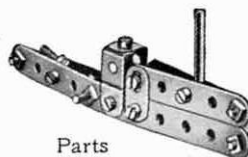
**Model No. 0.35
Tramway Car**



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. 0.38
Torpedo Boat**



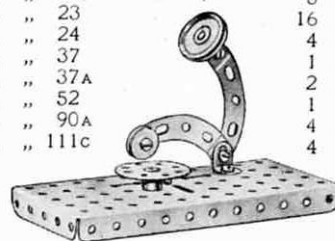
Parts required:

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

**Model No. 0.40
Gramophone**

Parts required:

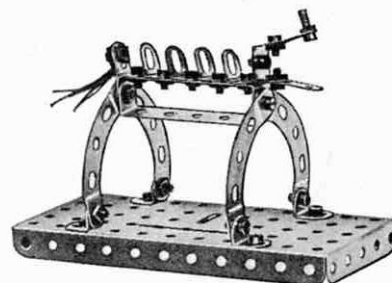
2 of No. 12
1 " " 22
1 " " 23
1 " " 24
3 " " 37
1 " " 37A
1 " " 52
2 " " 90A
3 " " 111c



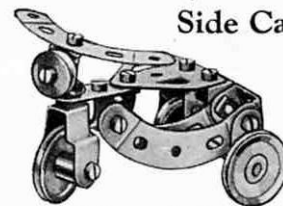
Parts required:

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

**Model No. 0.43
Prehistoric Armadillo**



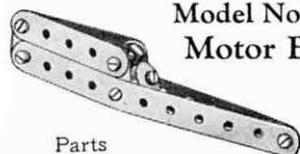
**Model No. 0.44
Motor Cycle and
Side Car**



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

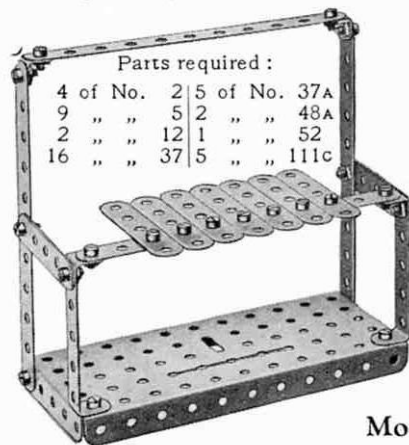
**Model No. 0.36
Motor Boat**



Parts required:

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

Model No. 0.39 Piano



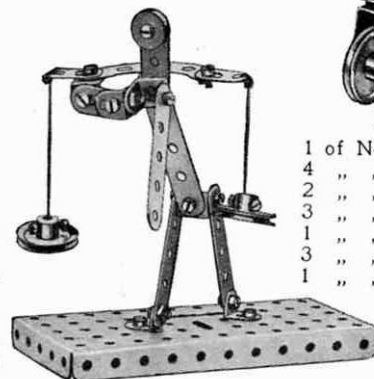
Parts required:

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

Model No. 0.41 Milk Maid

Parts required:

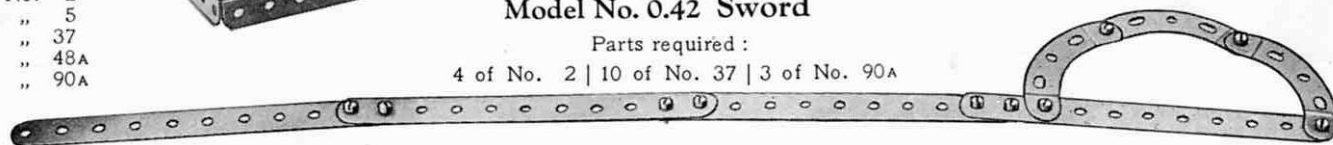
5 of No. 5
3 " " 10
2 " " 11
4 " " 12
2 " " 22
1 " " 23
14 " " 37
1 " " 37A
1 " " 40
1 " " 52
1 " " 90A
1 " " 111c



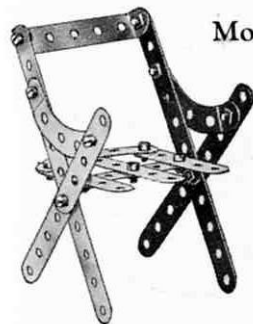
Model No. 0.42 Sword

Parts required:

4 of No. 2	10 of No. 37	3 of No. 90A
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**Model No. 0.37
Arm Chair**



Parts required:

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

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

**Model No. 0.45
Loud Speaker**



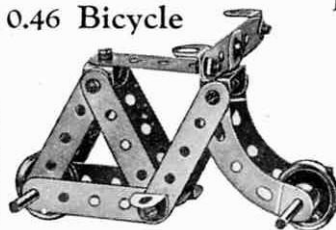
Parts
required:

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

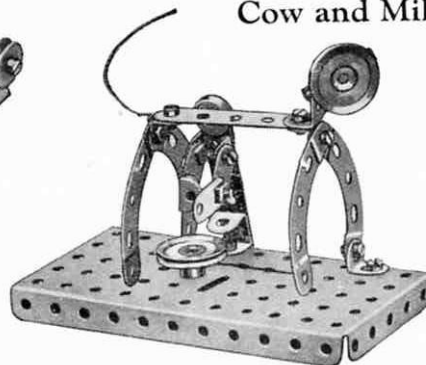
Model No. 0.46 Bicycle

Parts
required:

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



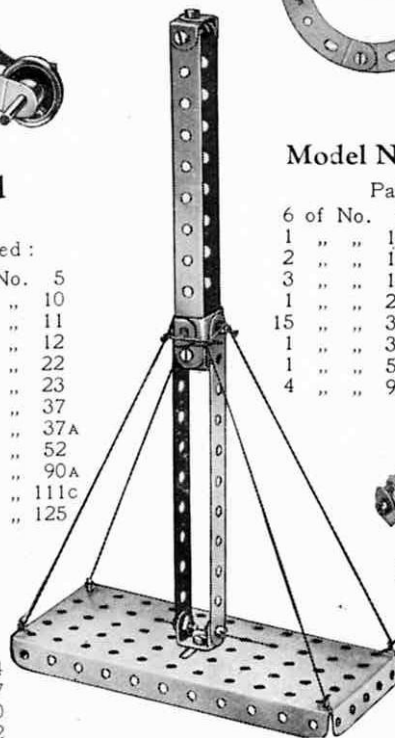
**Model No. 0.47
Cow and Milkmaid**



Parts
required:

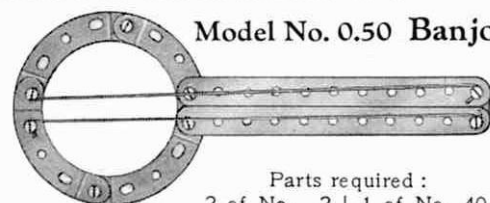
2 of No.	5
4 " "	10
2 " "	11
5 " "	12
2 " "	22
1 " "	23
16 " "	37
2 " "	37A
1 " "	52
4 " "	90A
4 " "	111c
1 " "	125

**Model No. 0.49
Telescopic
Mast**



Parts
required:

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



Model No. 0.50 Banjo **Model No. 0.53
Catapult**

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



Parts
required:

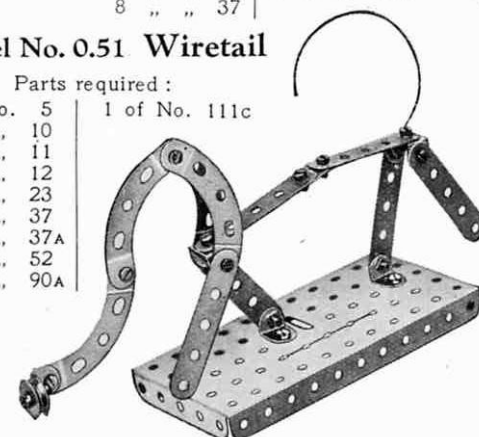
4 of No.	37
4 " "	90A

Small piece
of elastic.

Model No. 0.51 Wiretail

Parts
required:

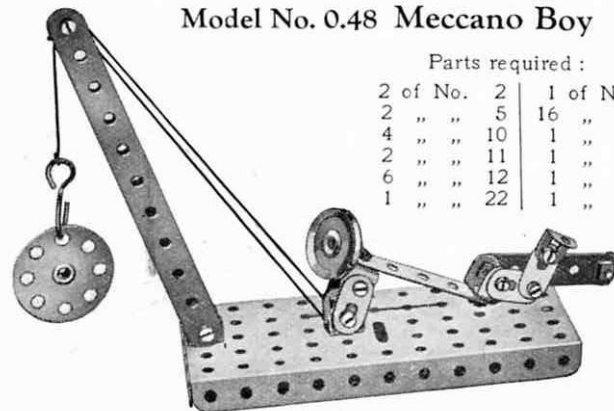
6 of No.	5
1 " "	10
2 " "	11
3 " "	12
1 " "	23
15 " "	37
1 " "	37A
1 " "	52
4 " "	90A



Model No. 0.48 Meccano Boy

Parts required:

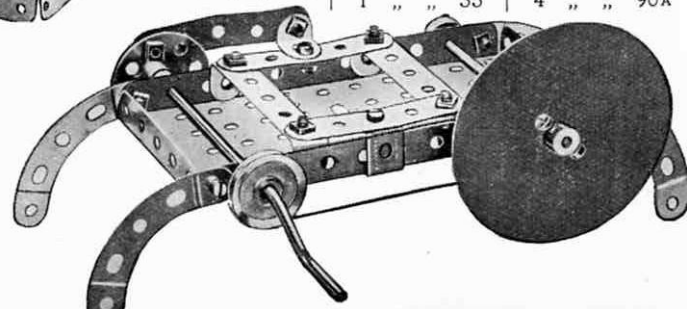
2 of No.	2	1 of No.	24
2 " "	5	16 " "	37
4 " "	10	1 " "	40
2 " "	11	1 " "	52
6 " "	12	1 " "	57c
1 " "	22	1 " "	111c



Model No. 0.52 Bacon Slicing Machine

Parts
required:

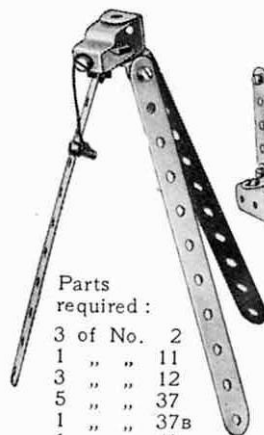
1 of No.	16	12 of No.	37
1 " "	19s	2 " "	37A
2 " "	22	1 " "	40
3 of No.	5	2 " "	48A
2 " "	11	1 " "	52
1 " "	12	4 " "	90A
1 " "	35		



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

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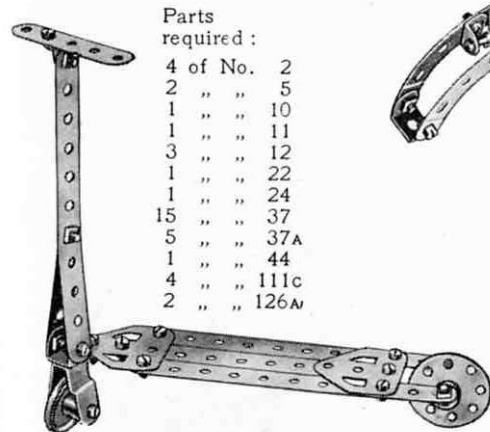
Model No. 0.54
Camera



Parts
required:

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

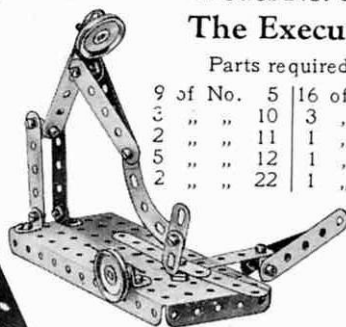
Model No. 0.55
Scooter



Parts
required:

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

Model No. 0.56
The Execution



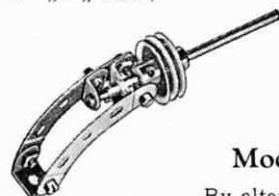
Parts required:

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

Model No. 0.57 Pistol

Parts required:

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

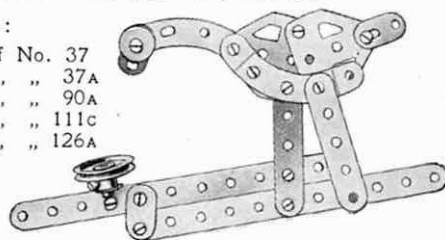


Model No. 0.59 Pecking Hen

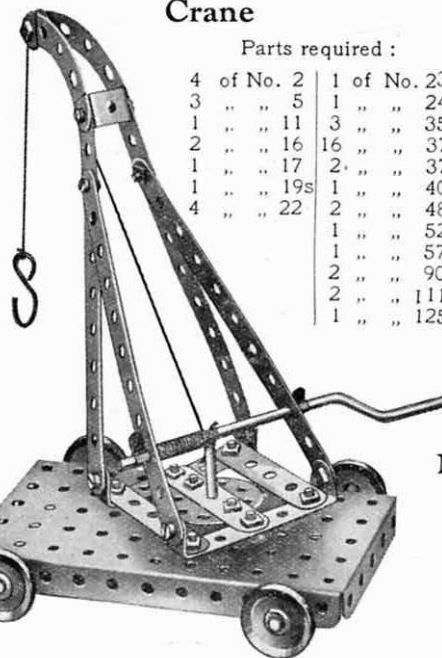
By alternately pushing and pulling the lower of the $5\frac{1}{2}$ " Strips, the hen can be made to peck vigorously at the "bowl" (a 1" Pulley). The Bolts used for securing the $5\frac{1}{2}$ " Strips together should be lock-nutted, care being taken to ensure that no "side play" is permitted.

Parts required:

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



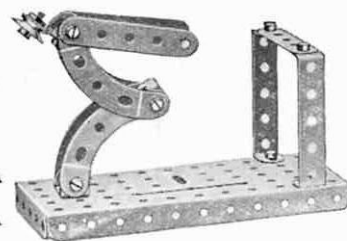
Model No. 0.58
Crane



Parts required:

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

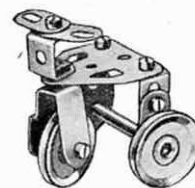
Model No. 0.60 Hurdler



Parts required:

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

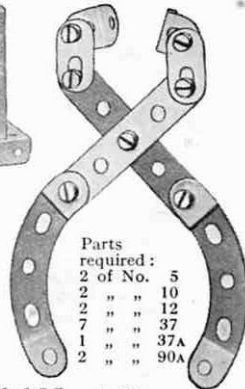
Model No. 0.61
Tricycle



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. 0.62
Pliers



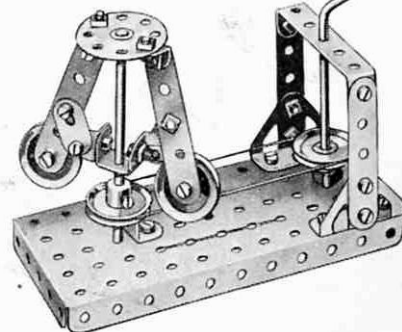
Parts
required:

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

Model No. 0.63
Centrifugal Engine Governor

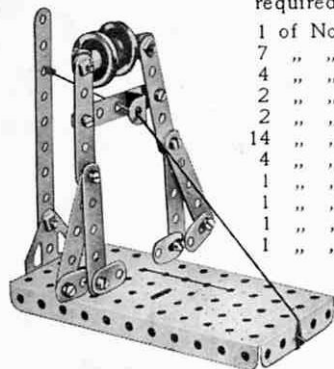
Parts required:

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



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

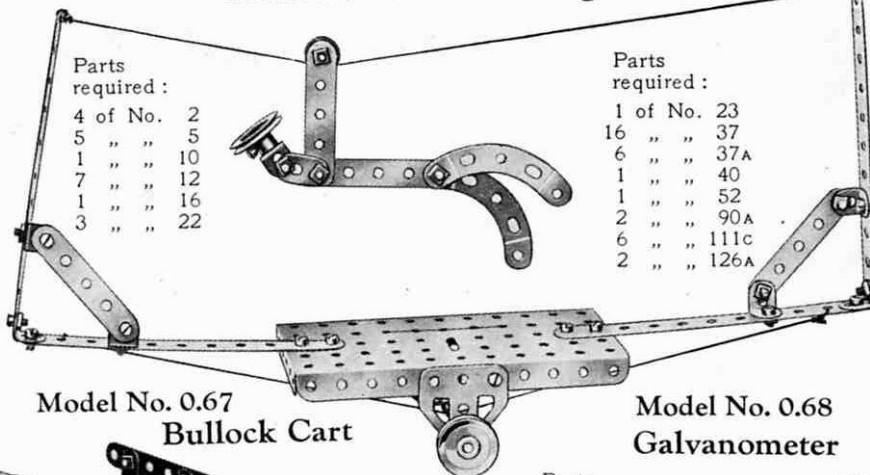
Model No. 0.64 Wrestlers



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. 0.66 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. 0.70 The Missing Link

Parts required :

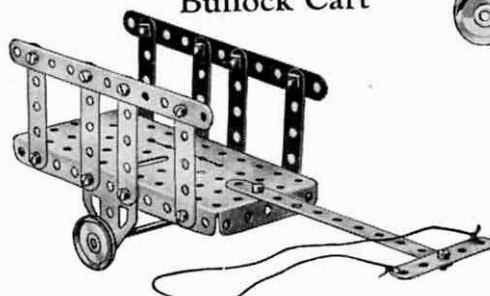
4 of No.	5
4 " "	10
8 " "	12
1 " "	24
16 " "	37
6 " "	37A
1 " "	52
4 " "	90A
6 " "	111c



Model No. 0.65 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

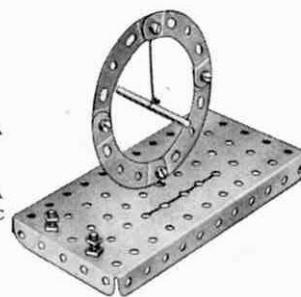


Model No. 0.67
Bullock Cart

Model No. 0.68
Galvanometer

Parts required :

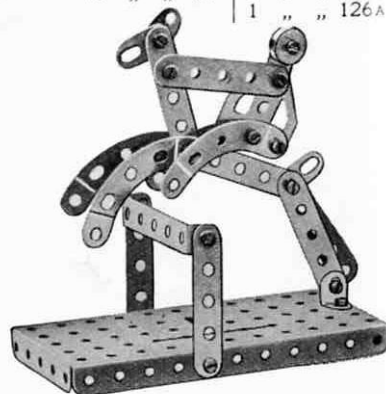
1 of No.	12
1 " "	17
5 " "	37
4 " "	37A
1 " "	40
1 " "	52
4 " "	90A
2 " "	111c



Model No. 0.71 Steeple-chaser

Parts required :

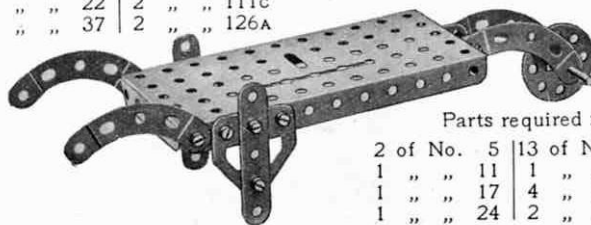
7 of No.	5	1 of No.	37A
4 " "	10	1 " "	48A
1 " "	12	1 " "	52
1 " "	23	4 " "	90A
13 " "	37	1 " "	111c
		1 " "	126A



Parts required :

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

Model No. 0.69 Coster's Barrow

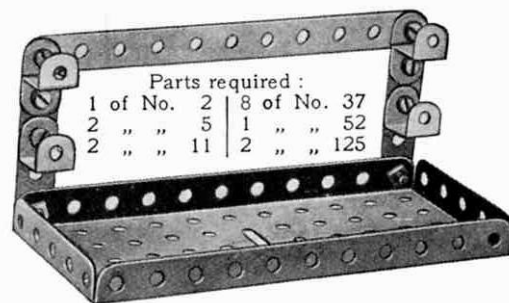


Parts required :

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

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

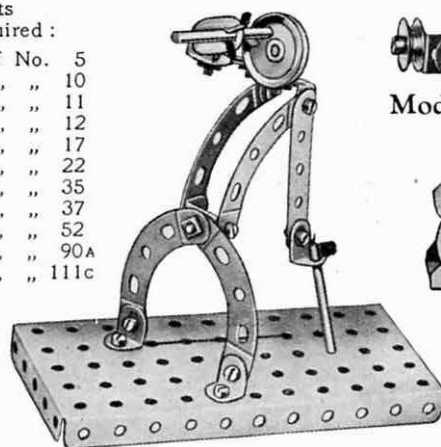
Model No. 0.72 Pen Rack



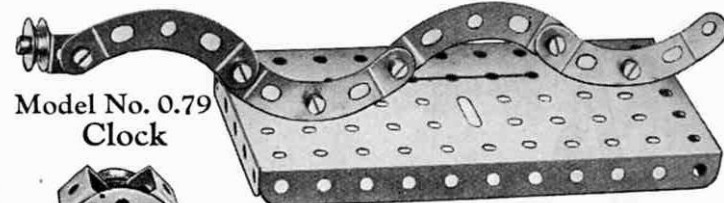
Parts required:
 1 of No. 2 | 8 of No. 37
 2 " " 5 | 1 " " 52
 2 " " 11 | 2 " " 125

Model No. 0.76 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. 0.78 Snake



Parts required:

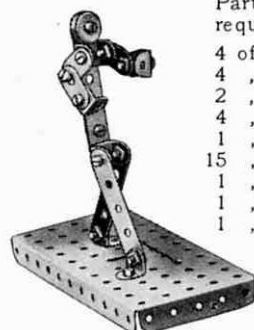
3 of No. 12 | 1 of No. 37A
 1 " " 23 | 1 " " 52
 8 " " 37 | 4 " " 90A
 1 of No. 111c

Model No. 0.79 Clock



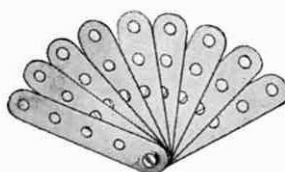
Parts required:
 2 of No. 11
 2 " " 12
 1 " " 17
 1 " " 22
 1 " " 24
 5 " " 37
 1 " " 111c
 2 " " 126

Model No. 0.73 Boxer



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

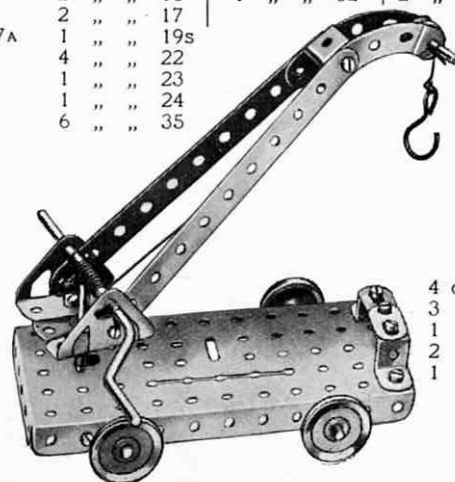
Model No. 0.75 Fan



Parts required:
 9 of No. 5 | 2 of No. 37A
 1 of No. 111c

Model No. 0.77 Break-Down Crane

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

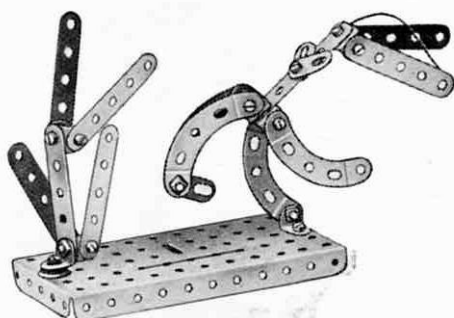


Model No. 0.80 Windmill



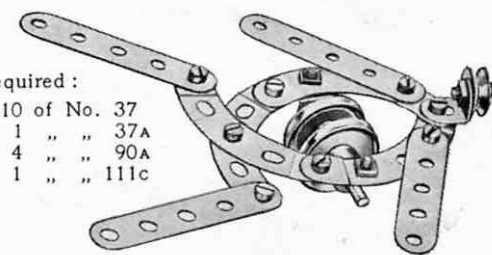
Parts required:
 4 of No. 2
 6 " " 5
 1 " " 16
 1 " " 19s
 1 " " 22
 2 " " 24
 14 " " 37
 1 " " 40
 2 " " 48A
 1 " " 52
 4 " " 90A

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 " " 40
 1 " " 52
 4 " " 90A
 4 " " 111c

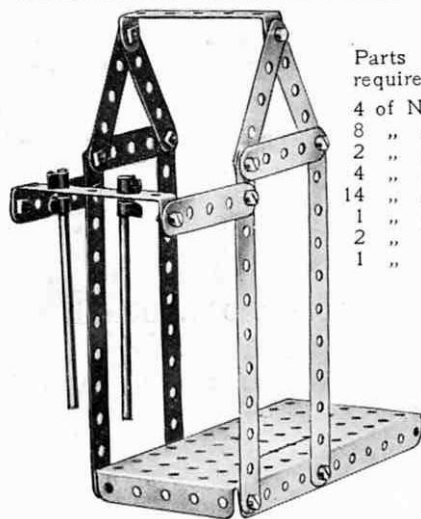
Model No. 0.81 Frog



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

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

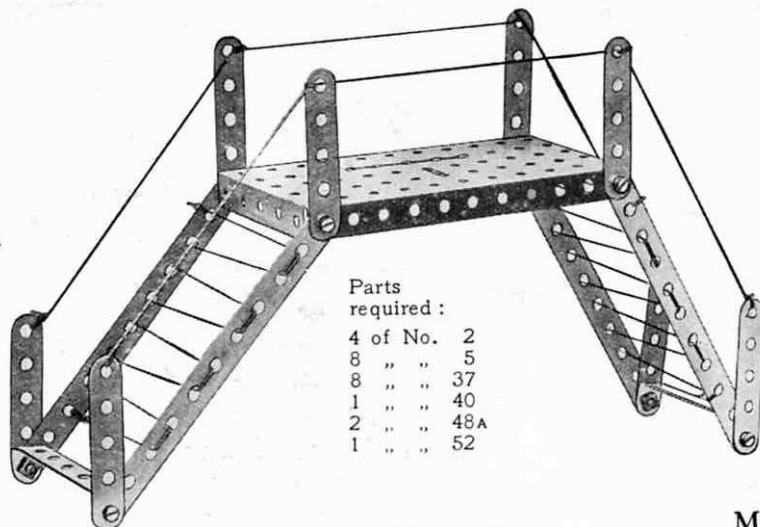
Model No. 0.82
Pneumatic Grain Elevator



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



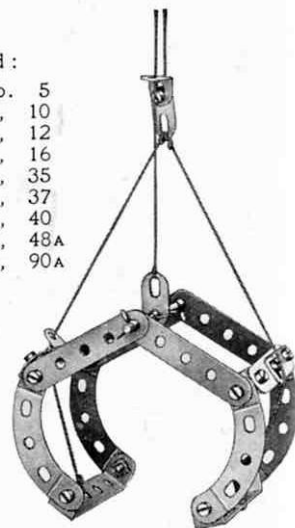
Parts
required :

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

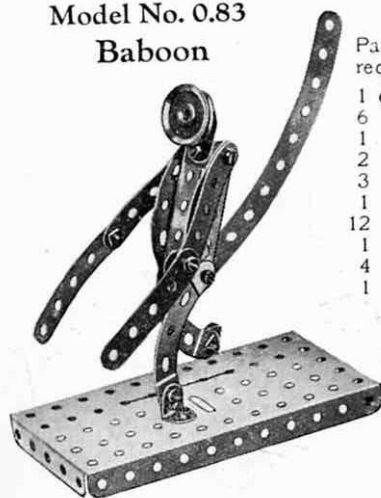
Model No. 0.86 Crane Grab

Parts
required :

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



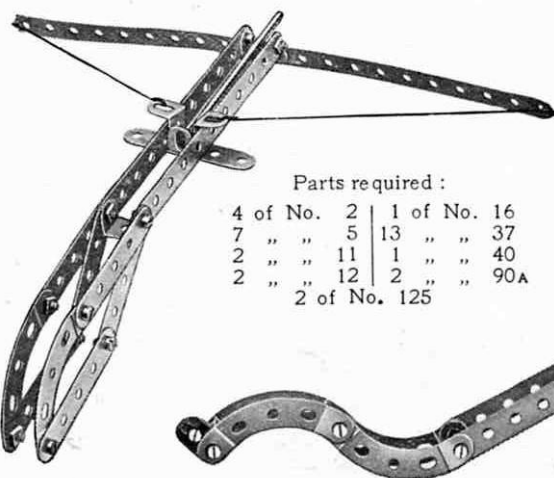
Model No. 0.83
Baboon



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



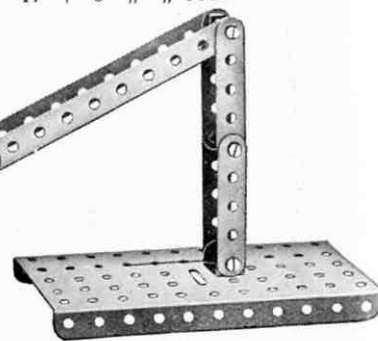
Parts required :

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

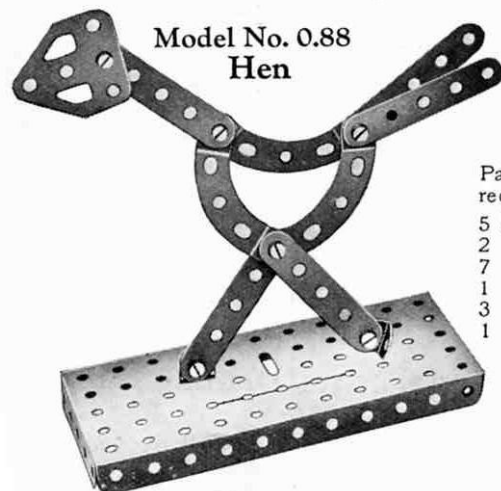
Parts required :

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



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

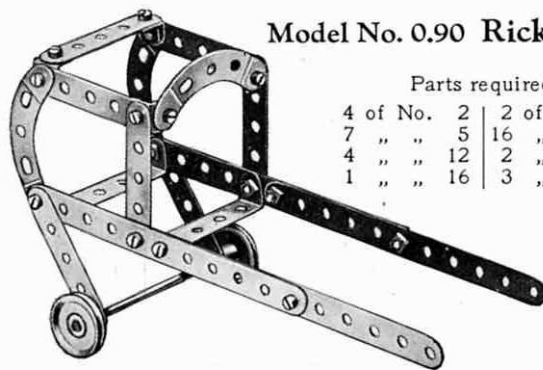
25



**Model No. 0.88
Hen**

Parts
required:

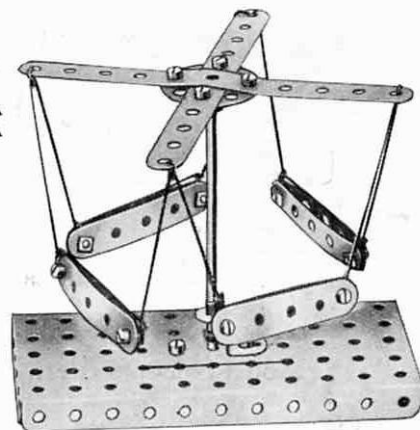
5 of No.	5
2 " "	12
7 " "	37
1 " "	52
3 " "	90A
1 " "	126A



Model No. 0.90 Rickshaw

Parts required:

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



Model No. 0.93 Fly Boats

Parts required:

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

**Model No. 0.89
Grass Cutter**

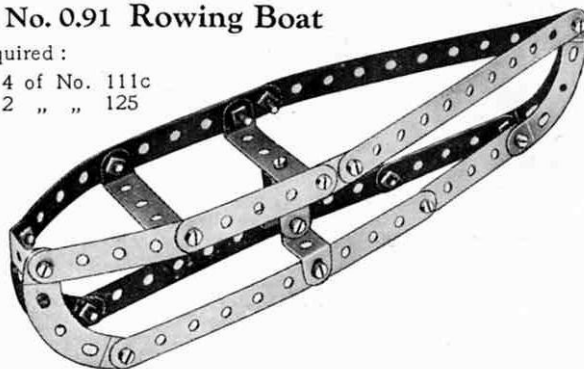
Parts
required:

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

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 Dinosaur

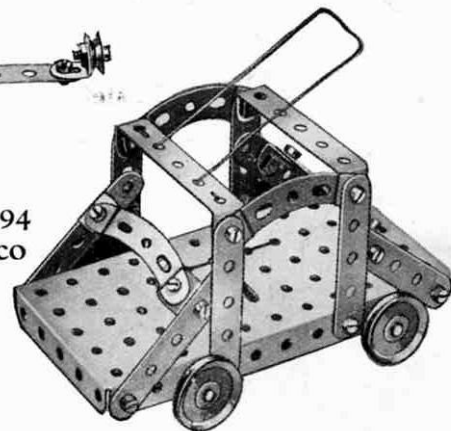
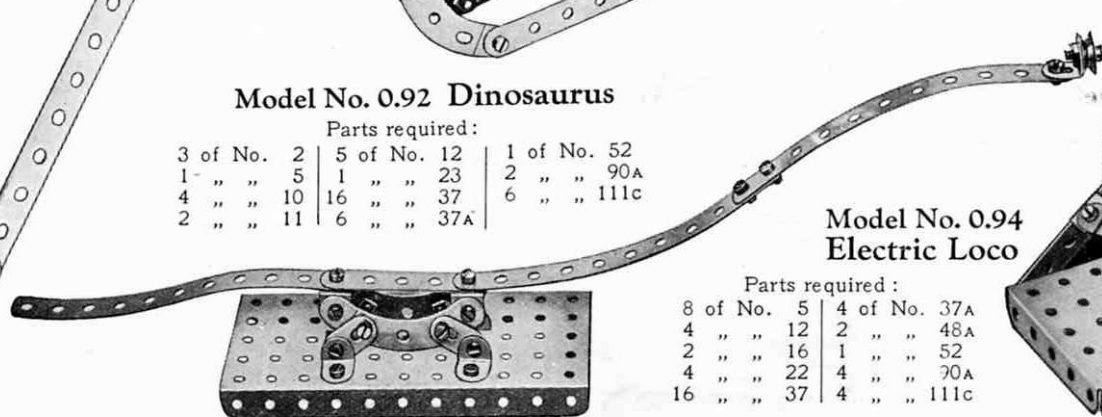
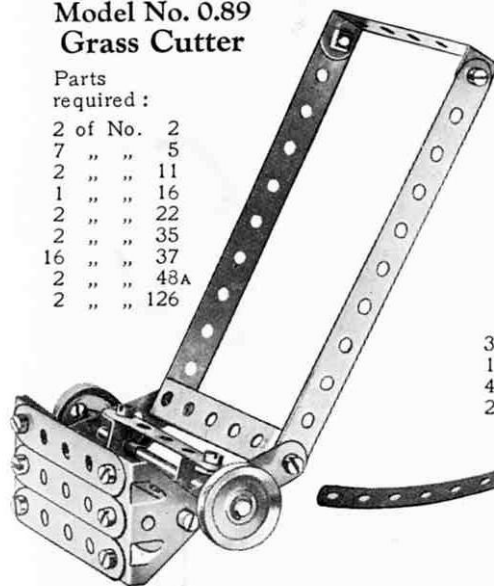
Parts required:

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

**Model No. 0.94
Electric Loco**

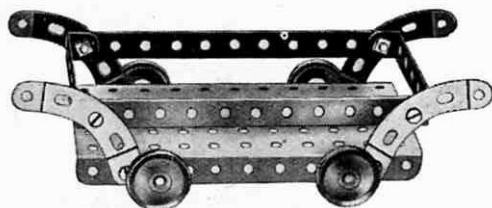
Parts required:

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



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

Model No. 0.95 Trolley



Parts required :

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

Model No. 0.96 Pen Rack

Parts required :

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



Model No. 0.97 Walking Man

Parts required :

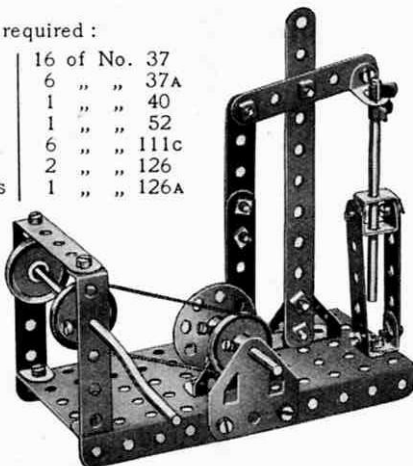
5 of No. 5
3 " " 10
2 " " 12
1 " " 22
7 " " 37
3 " " 90A



Model No. 0.98 Pump

Parts required :

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

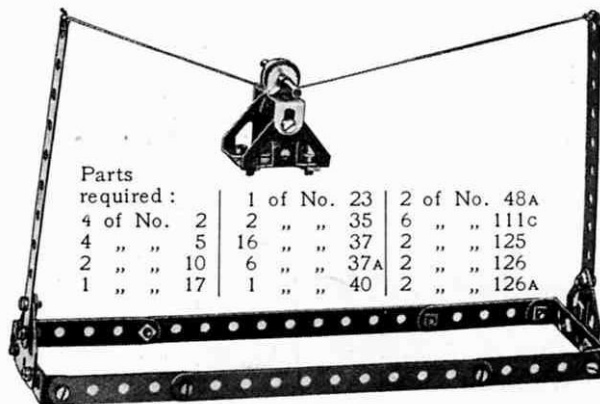


The connecting Strip is pivoted by Bolts and Nuts at one end to the Bush Wheel and at the other end to the cross beam. The latter is pivoted by the same means to the upright.

Model No. 0.99 Aerial Ropeway

Parts required :

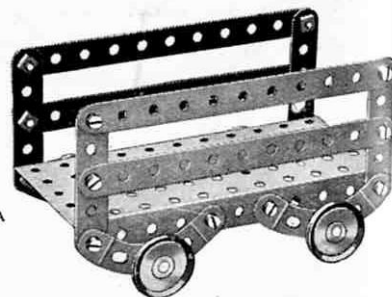
4 of No. 2	1 of No. 23	2 of No. 48A
4 " " 5	2 " " 35	6 " " 111c
2 " " 10	16 " " 37	2 " " 125
1 " " 17	6 " " 37A	2 " " 126
	1 " " 40	2 " " 126A



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 :

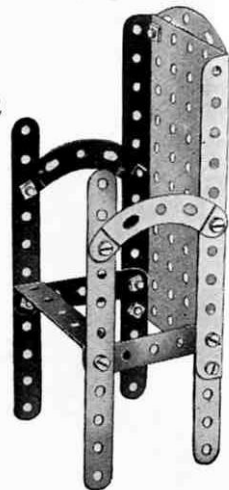
4 of No. 5
12 " " 37
1 " " 48A
1 " " 52
4 " " 90A
2 " " 126A



Model No. 0.102 Arm Chair

Parts required :

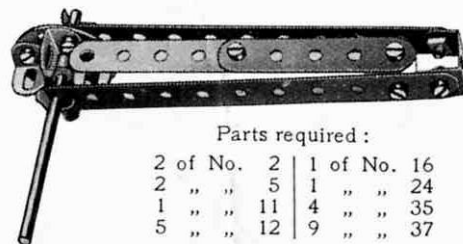
2 of No. 2
4 " " 5
12 " " 37
1 " " 48A
1 " " 52
3 " " 90A



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

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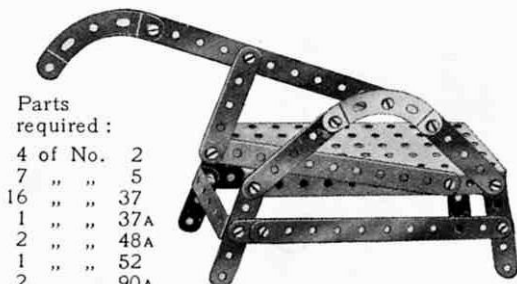
Model No. 0.103 Rattle



Parts required :

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

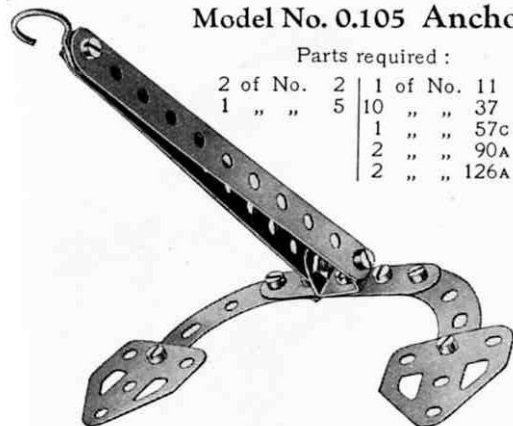
Model No. 0.104 Shearing Machine



Parts required :

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

Model No. 0.106 Portal

Parts required :

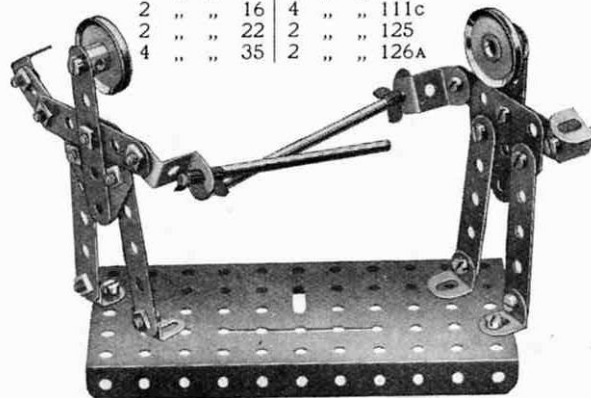
4 of No. 2	2
2 " " 11	
8 " " 12	
1 " " 22	
16 " " 37	
6 " " 37A	
2 " " 48A	
1 " " 52	
4 " " 90A	
6 " " 111c	



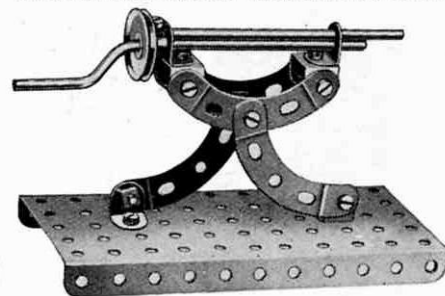
Model No. 0.107 The Fencers

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

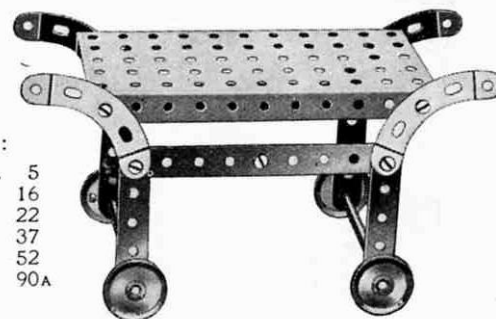
Model No. 0.109 Single Sheave Pulley Block



Parts required :

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

Model No. 0.110 Tea Wagon

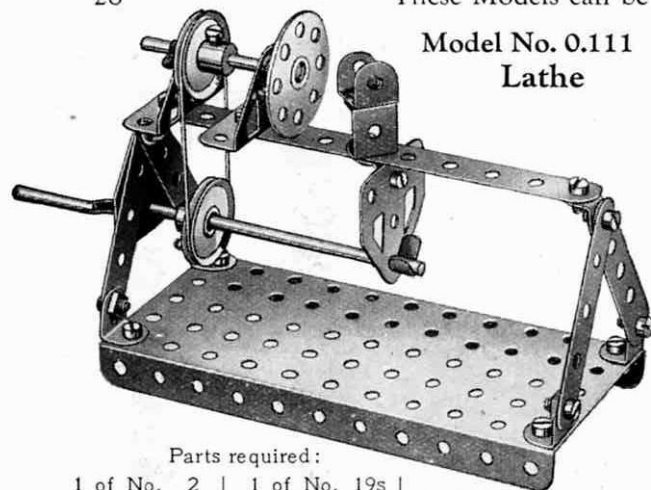


Parts required :

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

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

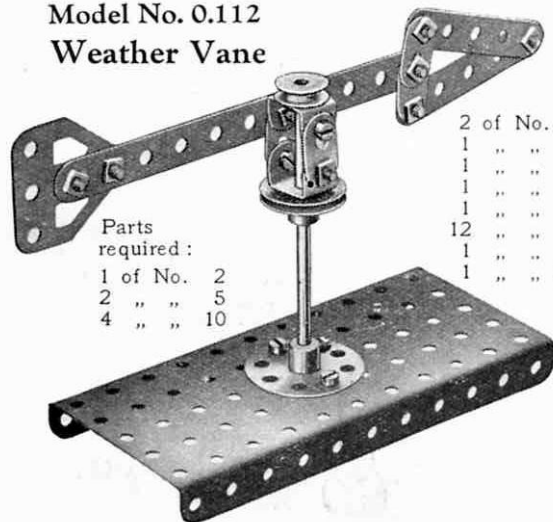
**Model No. 0.111
Lathe**



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**

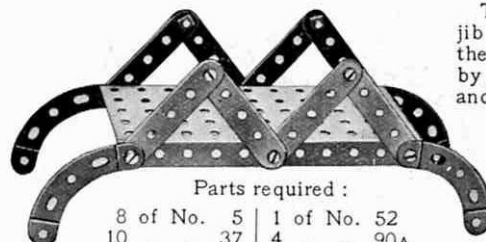


Parts required:

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



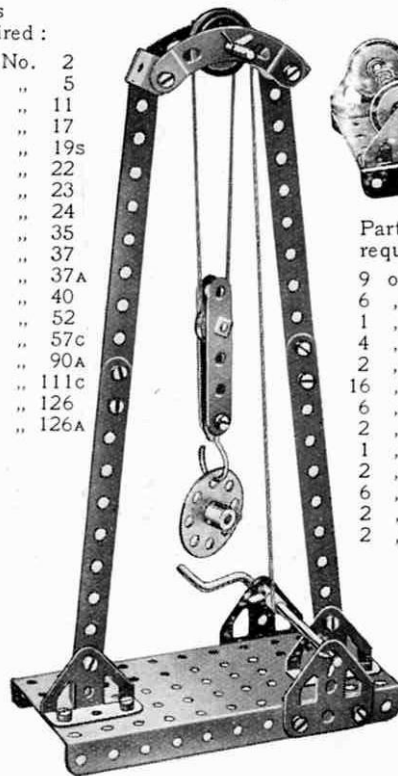
Parts required:

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 " " 57c
2 " " 90A
4 " " 111c
4 " " 126
2 " " 126A

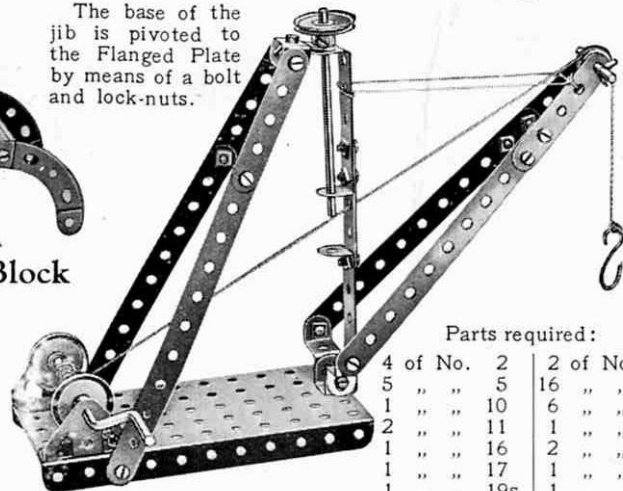


Parts required:

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. 0.115 Derricking Crane

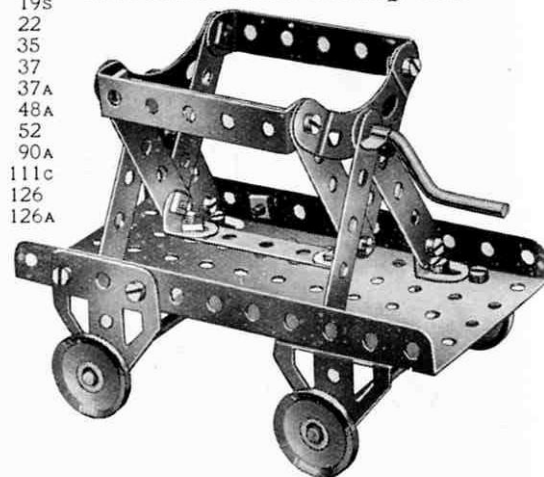
The base of the jib is pivoted to the Flanged Plate by means of a bolt and lock-nuts.



Parts required:

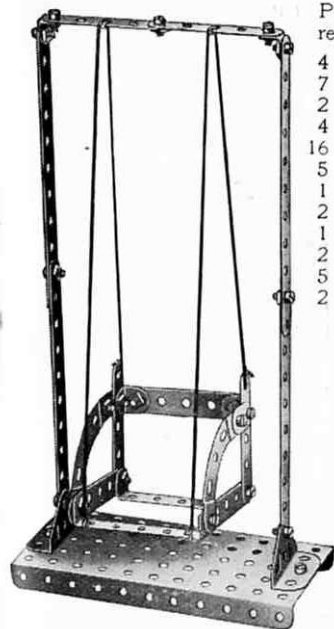
4 of No. 2	2 of No. 35
5 " " 5	16 " " 37
1 " " 10	6 " " 37A
2 " " 11	1 " " 40
1 " " 16	2 " " 48A
1 " " 17	1 " " 52
1 " " 19s	1 " " 57c
3 " " 22	6 " " 111c
1 " " 23	2 " " 125
	2 of No. 126

Model No. 0.116 Dump Car



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

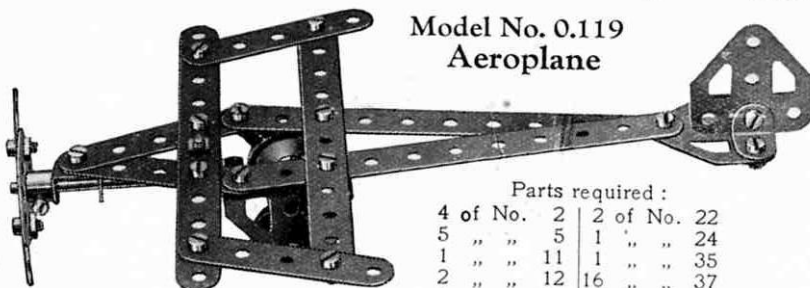
Model No. 0.117 Swing



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**



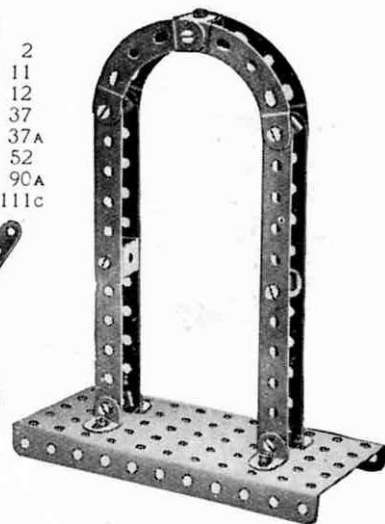
Parts required :

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

Model No. 0.123 Arch

Parts required :

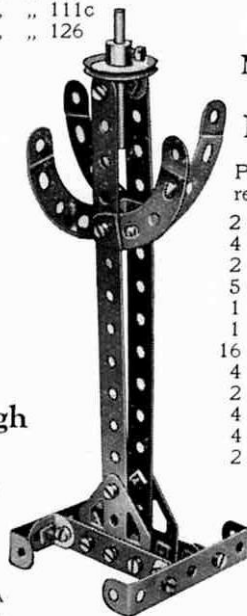
4 of No.	2
2 " "	11
6 " "	12
16 " "	37
3 " "	37A
1 " "	52
4 " "	90A
3 " "	111c



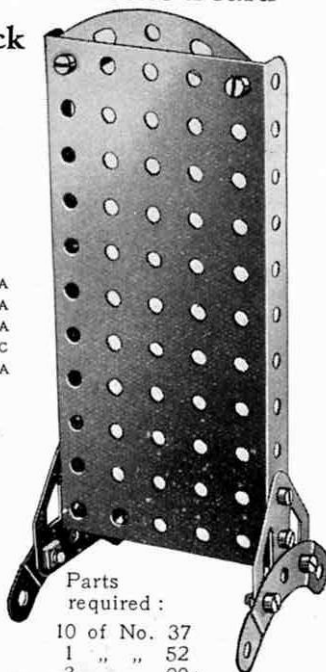
**Model No. 0.120
Hat Rack**

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 :

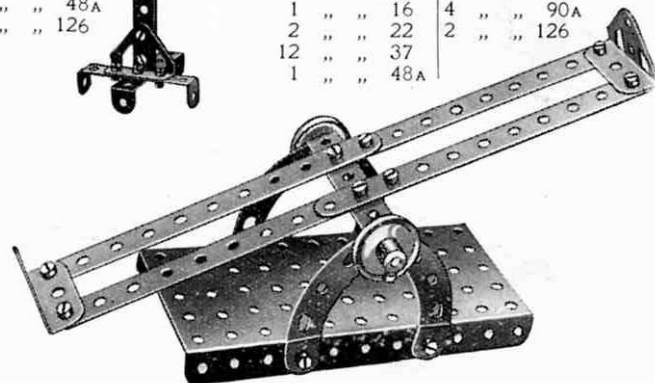
1 of No.	2
9 " "	5
3 " "	12
12 " "	37
2 " "	48A
1 " "	126



Model No. 0.124 See-Saw

Parts required :

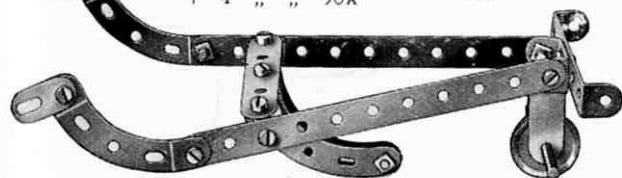
4 of No.	2	1 of No.	52
1 " "	16	4 " "	90A
2 " "	22	2 " "	126
12 " "	37		
1 " "	48A		

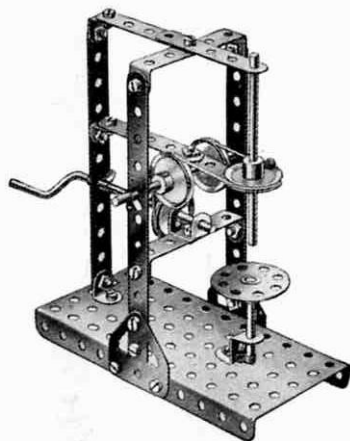


Model No. 0.118 Plough

Parts required :

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



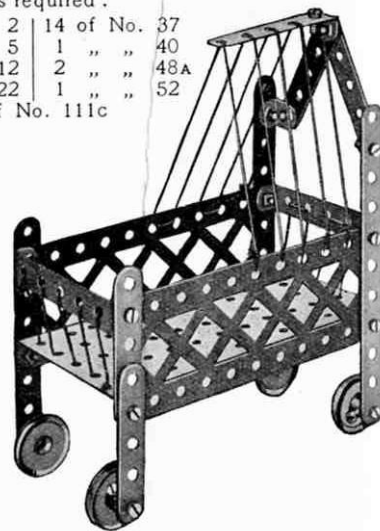
Model No. 0.125 Drilling MachineParts
required :

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**Model No. 0.129 Cot**

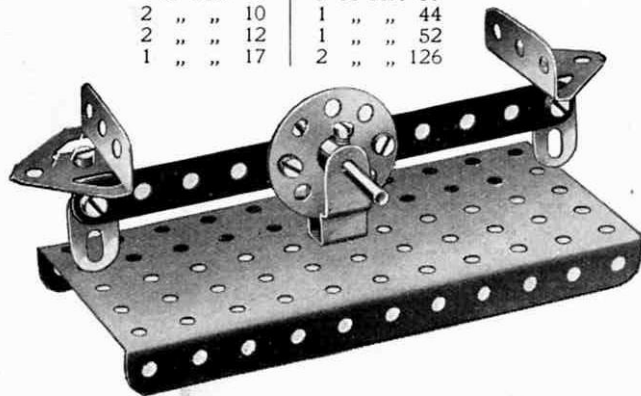
Parts required :

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



Parts required :

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

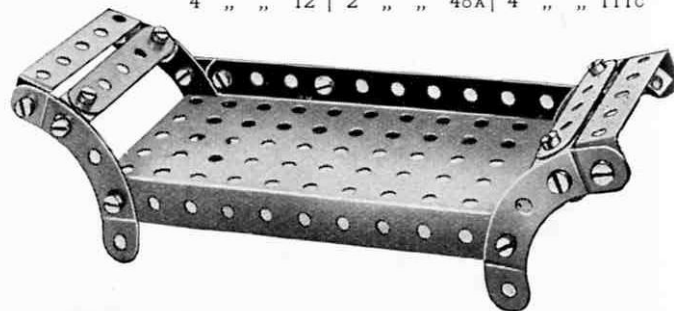
**Model No. 0.128
Single Sheave
Pulley Block**Parts
required :

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

Model No. 0.130 Couch

Parts required :

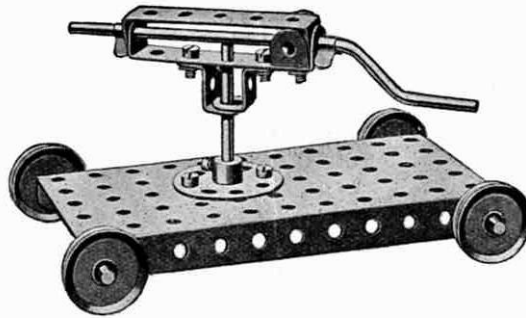
1 of No.	2	16 of No.	37	1 of No.	52
3 " "	5	4 " "	37A	4 " "	90A
4 " "	12	2 " "	48A	4 " "	111c



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

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Model No. 0.131 Rock Drill



Parts required :

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

Model No. 0.133 Prancing Horse

Parts required :

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

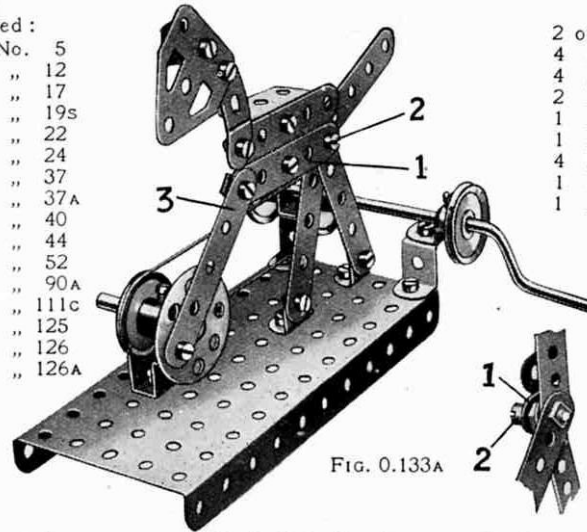
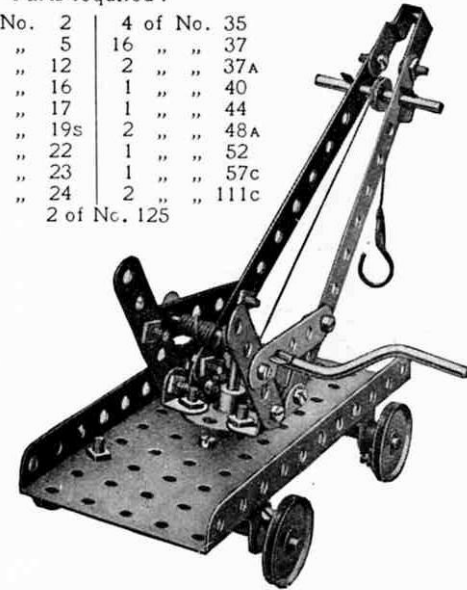


FIG. 0.133A

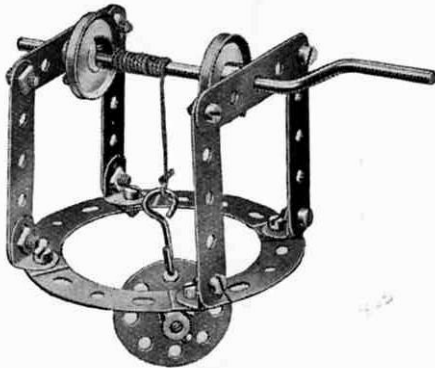
Model No. 0.135 Swivelling Crane

Parts required :

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



Model No. 0.132 Well Windlass

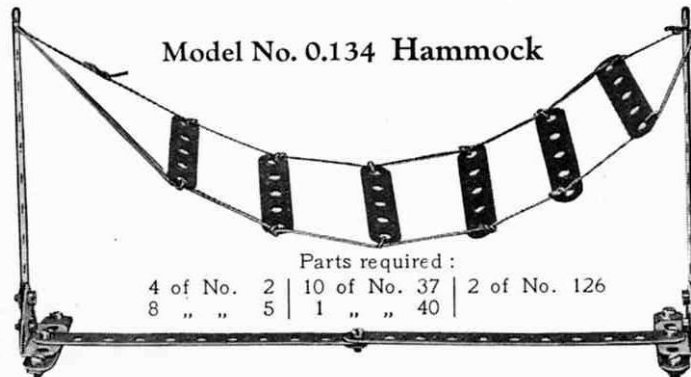


Parts required :

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

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



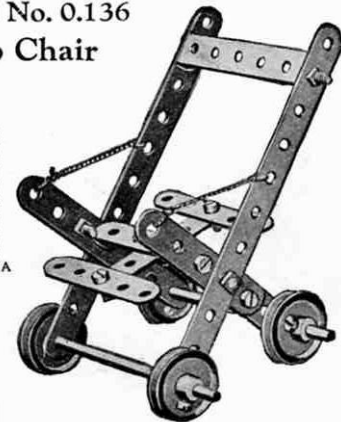
Parts required :

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

Model No. 0.136 Go Chair

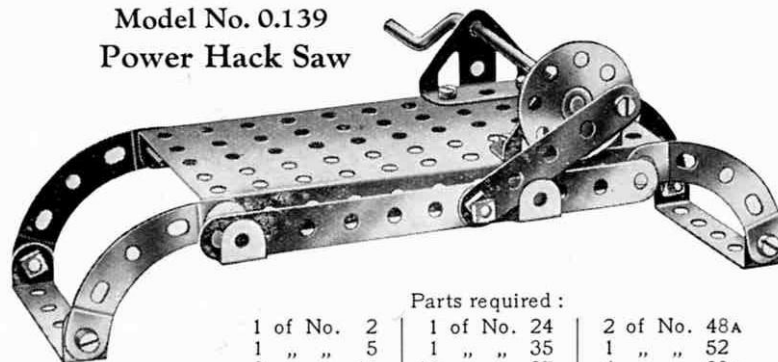
Parts required :

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



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

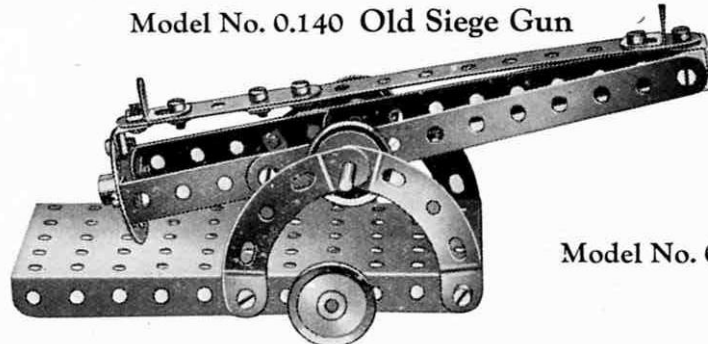
**Model No. 0.139
Power Hack Saw**



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. 0.140 Old Siege Gun



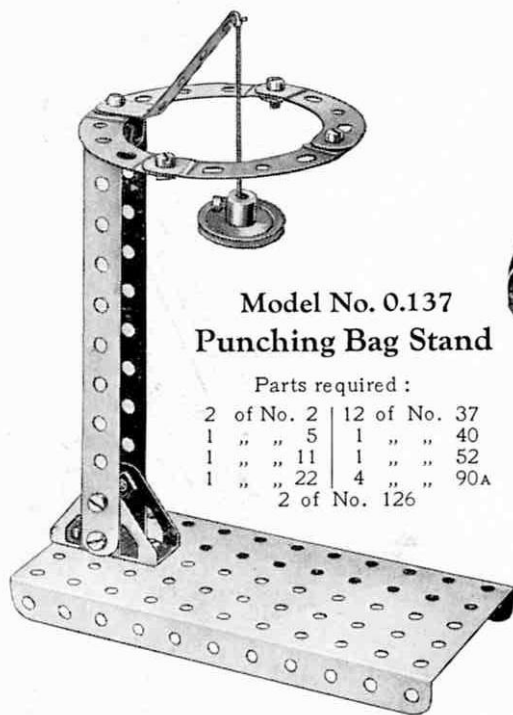
Parts required :

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

**Model No. 0.137
Punching Bag Stand**

Parts required :

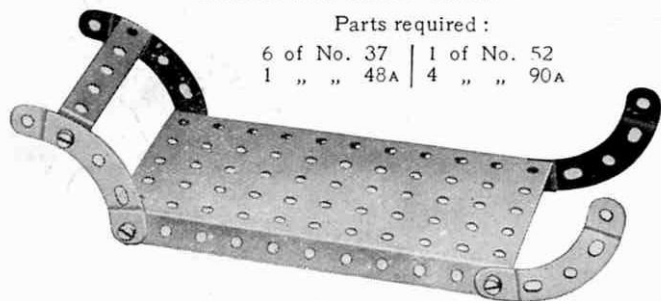
2 of No. 2	12 of No. 37
1 " " 5	1 " " 40
1 " " 11	1 " " 52
1 " " 22	4 " " 90A
2 of No. 126	



Model No. 0.138 Sled

Parts required :

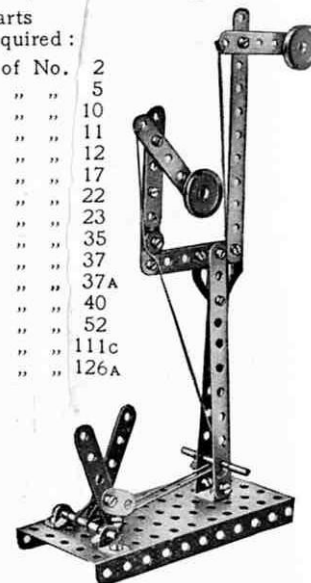
6 of No. 37	1 of No. 52
1 " " 48A	4 " " 90A



**Model No. 0.141
Junction Signal**

Parts required :

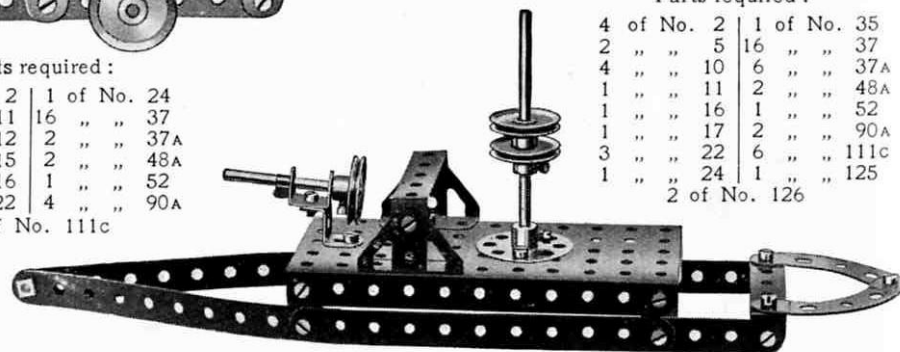
3 of No. 2	2
7 " " 5	5
2 " " 10	10
2 " " 11	11
2 " " 12	12
2 " " 17	17
2 " " 22	22
1 " " 23	23
4 " " 35	35
16 " " 37	37
5 " " 37A	37A
1 " " 40	40
1 " " 52	52
5 " " 111c	111c
1 " " 126A	126A



Model No. 0.142 Battleship

Parts required :

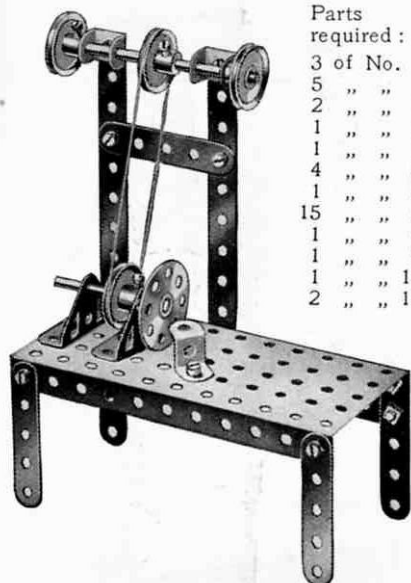
4 of No. 2	1 of No. 35
2 " " 5	16 " " 37
2 " " 10	6 " " 37A
1 " " 11	2 " " 48A
1 " " 16	1 " " 52
1 " " 17	2 " " 90A
3 " " 22	6 " " 111c
1 " " 24	1 " " 125
2 of No. 126	



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

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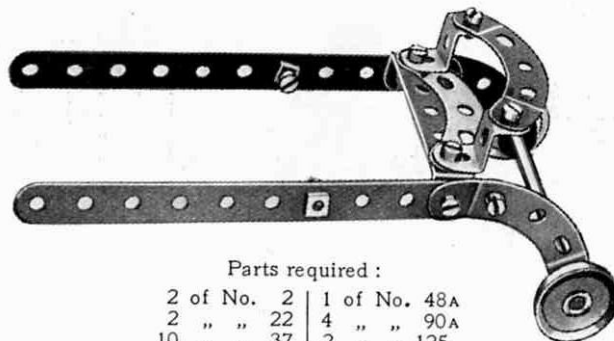
Model No. 0.143 Bench Lathe



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



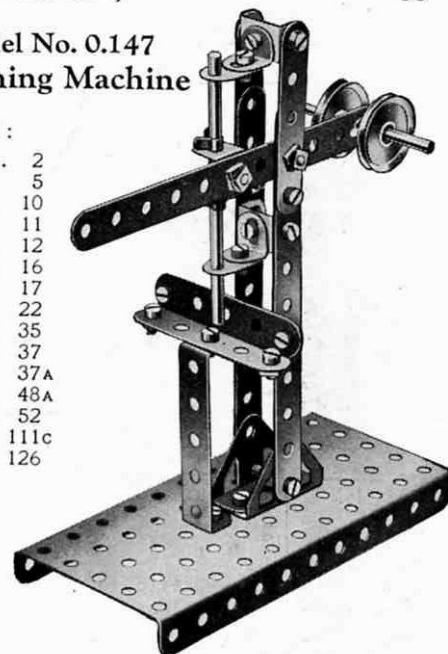
Parts required :

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

Model No. 0.147 Punching Machine

Parts
required :

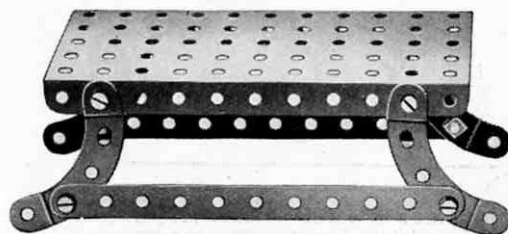
3 of No.	2
4 " "	5
2 " "	10
2 " "	11
6 " "	12
1 " "	16
1 " "	17
2 " "	22
2 " "	35
16 " "	37
6 " "	37A
1 " "	48A
1 " "	52
6 " "	111c
2 " "	126



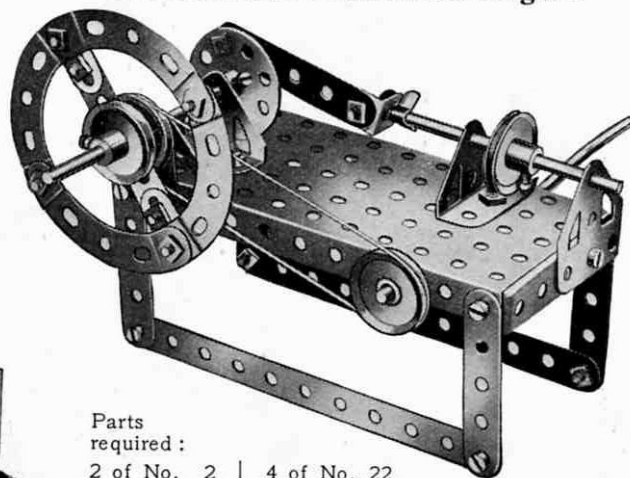
Model No. 0.144 Bench

Parts required :

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



Model No. 0.146 Horizontal Engine



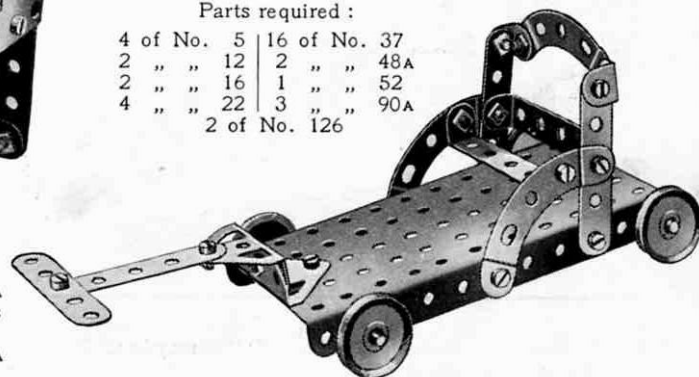
Parts
required :

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. 0.148 Bath Chair

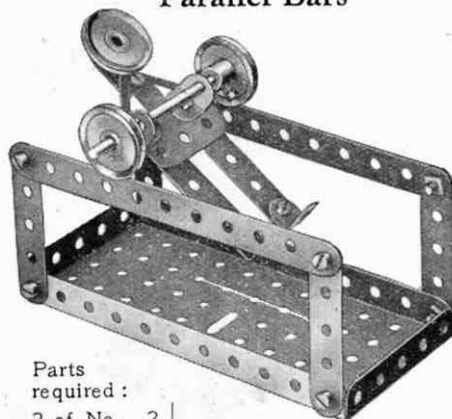
Parts required :

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



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

**Model No. 0.149
Parallel Bars**



Parts
required :

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

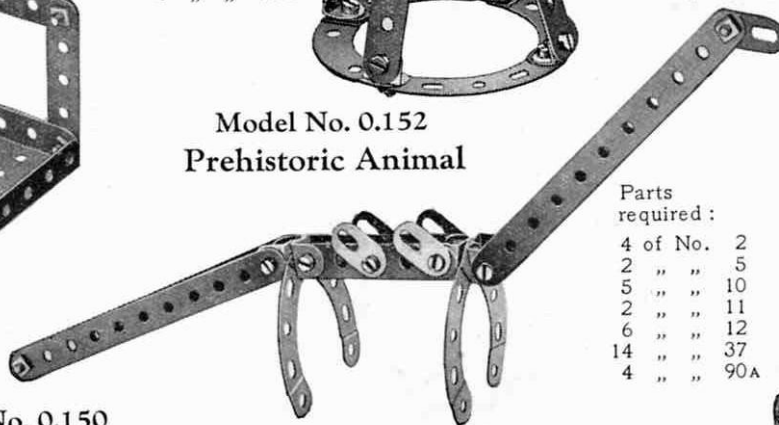
Model No. 0.151 Candle Shade

Parts
required :

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



**Model No. 0.152
Prehistoric Animal**



Parts
required :

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

Model No. 0.153 Revolving Office Chair

Parts required :

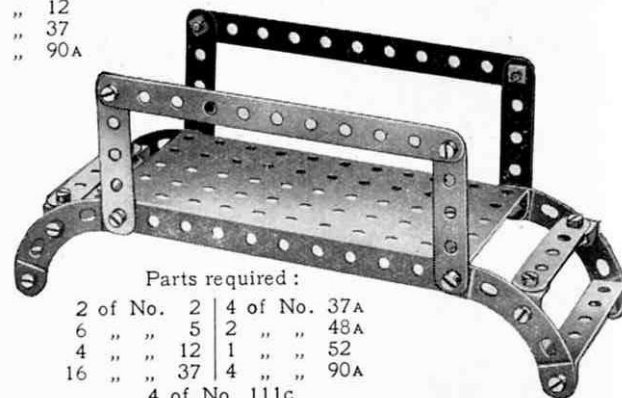
3 of No.	5	2 of No.	37A
1 " "	12	2 " "	48A
1 " "	17	4 " "	90A
2 " "	22	2 " "	111c
1 " "	24	2 " "	126
16 " "	37	1 " "	126A



Parts
required :

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

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

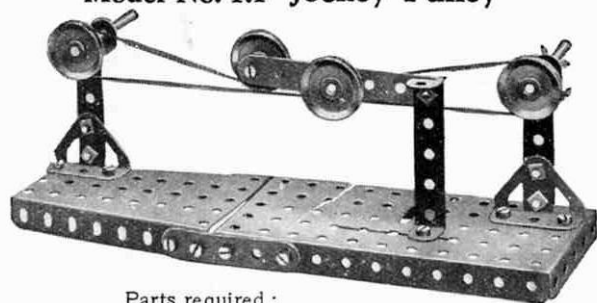
HOW TO CONTINUE

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.

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

35

Model No. 1.1 Jockey Pulley

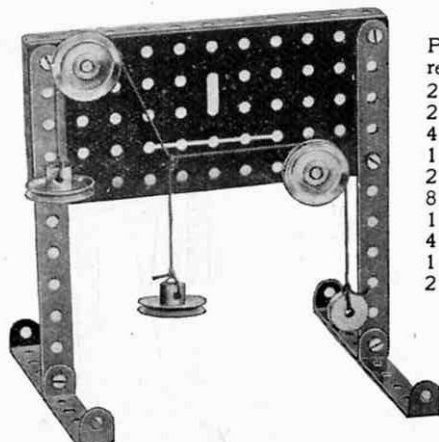


Parts required :

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

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

Model No. 1.2 Triangle of Forces



Parts required :

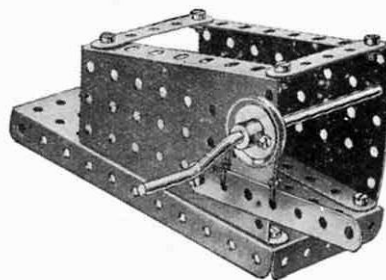
2 of No. 2	
2 " " 18A	
4 " " 22	
1 " " 23	
2 " " 35	
8 " " 37	
1 " " 40	
4 " " 48A	
1 " " 52	
2 " " 125	

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	

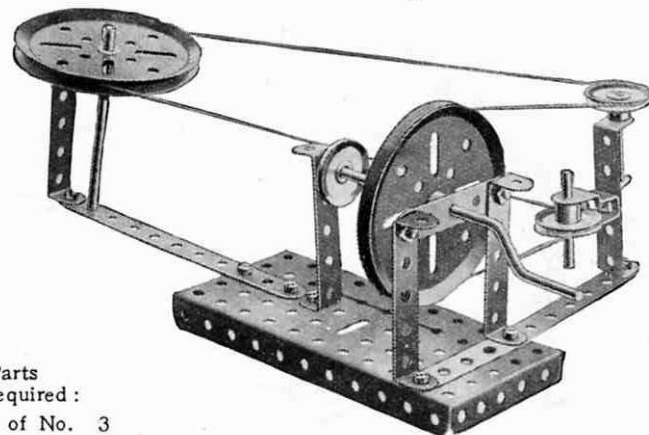
Model No. 1.4 "H" Girder

Parts required :

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



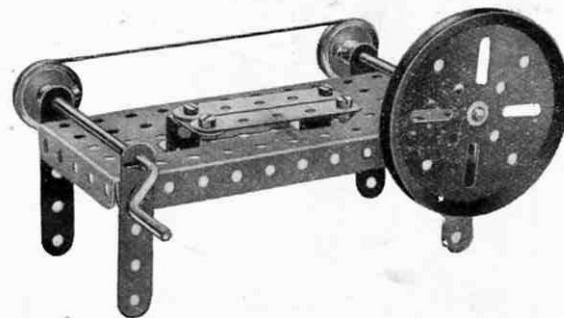
Model No. 1.5 Belt Gear Right-angle Drive Transmission



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

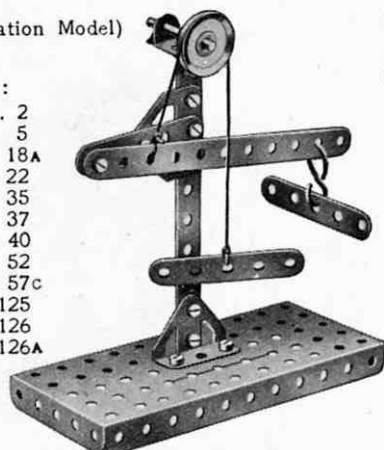


These Models can be built with MECCANO Outfit No. 1 (or No. 0 and No. 0A)

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
1 " " 37
11 " " 40
1 " " 52
1 " " 57c
1 " " 125
1 " " 126
1 " " 126A

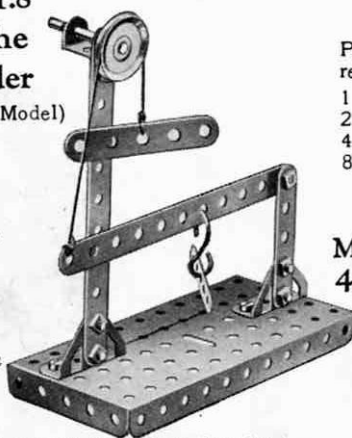


The fulcrum is at one end, the power at the other and the load lies between the two.

Model No. 1.8 Lever of the Third Order

(Demonstration Model)

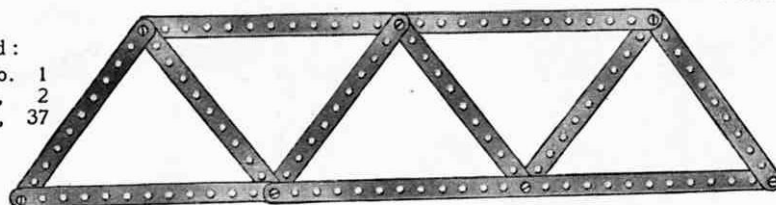
Parts
required :
2 of No. 2
4 " " 5
1 " " 18A
1 " " 22
1 " " 35
10 " " 37
1 " " 40
1 " " 52
1 " " 57c
1 " " 125
2 " " 126



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

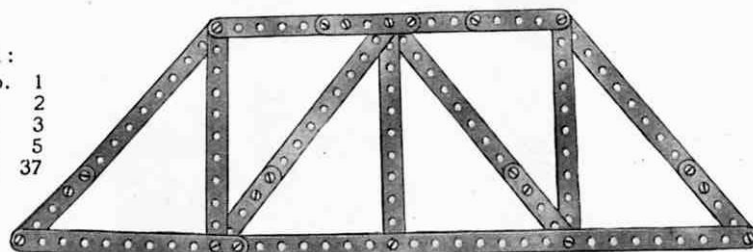
Model No. 1.9 Compound Triangulated Truss

Parts
required :
2 of No. 1
7 " " 2
7 " " 37



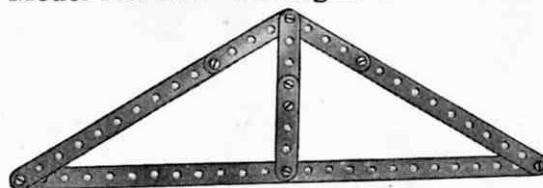
Model No. 1.10 Howe Truss

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

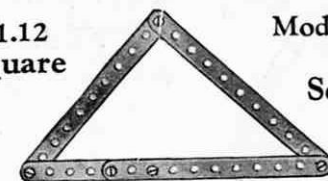


Model No. 1.11 Triangulated Truss

Parts
required :
1 of No. 1
2 " " 2
4 " " 5
8 " " 37

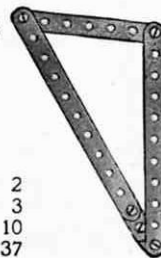


Model No. 1.12 45° Set-Square



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

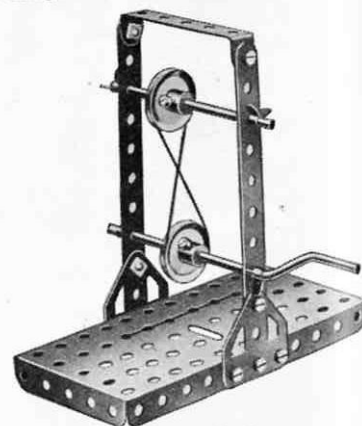
Model No. 1.13 60° Set-Square



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

Model No. 1.14 Belt Gear

For Reversing Motion of Driven Shaft

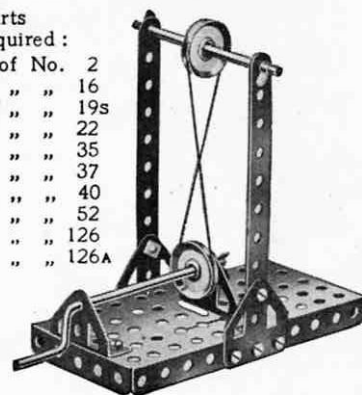


Parts required :
2 of No. 2 | 10 of No. 37
1 " " 16 | 1 " " 40
1 " " 19s | 1 " " 48A
2 " " 22 | 1 " " 52
4 " " 35 | 2 " " 126A

Model No. 1.15 Belt Gear

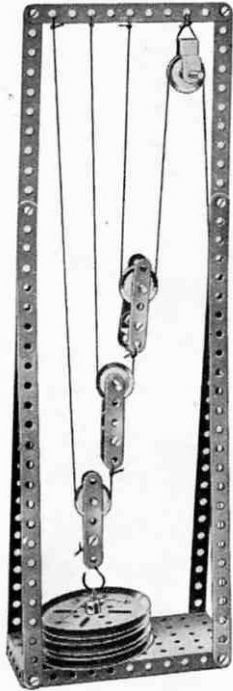
For Driving Shafts at Right Angles

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 :

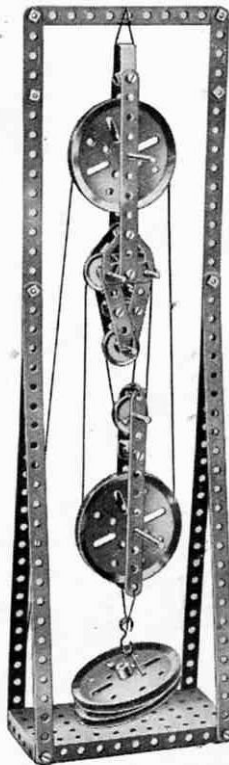
4 of No. 1	3 of No. 19B
3 " " 2	4 " " 22
6 " " 5	15 " " 37
2 " " 11	1 " " 40
2 " " 12	1 " " 44
2 " " 17	1 " " 52
2 " " 18A	1 " " 57c

Model No. 1.17 Pulley Block

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

Parts required :

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



Model No. 1.18 Pulley Block

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



Parts required :

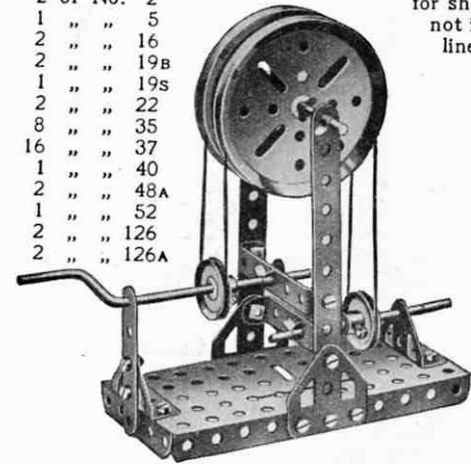
4 of No. 1	4 of No. 19B
1 " " 3	3 " " 22
4 " " 5	10 " " 37
2 " " 11	1 " " 40
1 " " 17	1 " " 44
2 " " 18A	1 " " 52
1 of No. 57c	

Model No. 1.19 Belt Gear

Parts required :

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

Drive Transmission
for shafts
not in
line

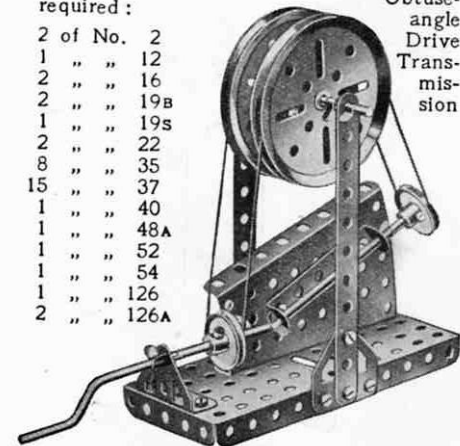


Model No. 1.20 Belt Gear

Parts required :

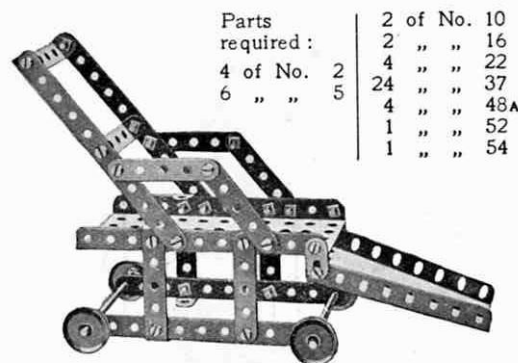
2 of No. 2	2
1 " " 12	12
2 " " 16	16
2 " " 19B	19B
1 " " 19S	19S
2 " " 22	22
8 " " 35	35
15 " " 37	37
1 " " 40	40
1 " " 48A	48A
1 " " 52	52
1 " " 54	54
1 " " 126	126
2 " " 126A	126A

Obtuse-
angle
Drive
Trans-
mis-
sion



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

Model No. 1.21 Invalid Chair



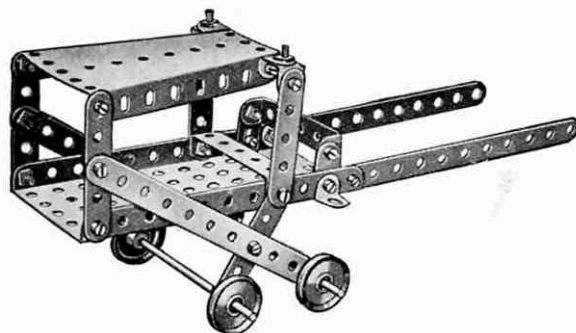
Parts required:	2 of No. 10
	2 " " 16
4 of No. 2	4 " " 22
6 " " 5	24 " " 37
	4 " " 48A
	1 " " 52
	1 " " 54

Model No. 1.22 Letter Balance

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	

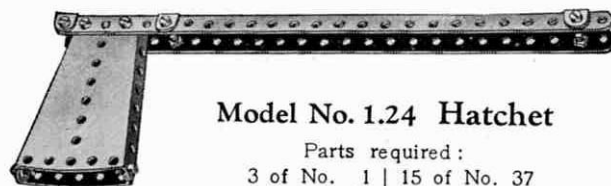


Model No. 1.23 Ticca Gharry



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



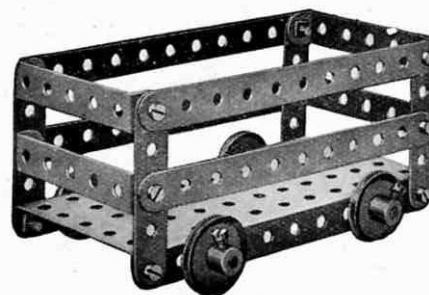
Model No. 1.24 Hatchet

Parts required:

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

Model No. 1.25 Truck with Sides

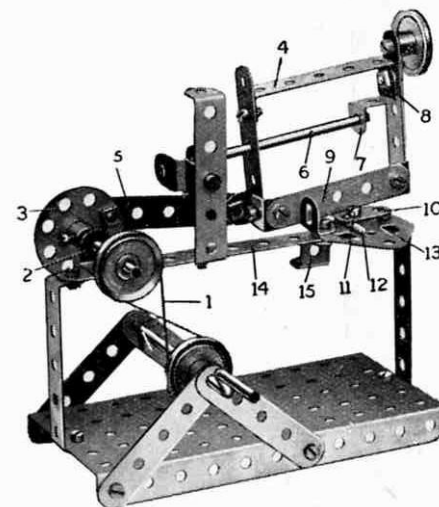
Parts required:	4 of No. 2
	4 " " 5
	2 " " 16
	4 " " 22
12 " " 37	
4 " " 48A	
1 " " 52	



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

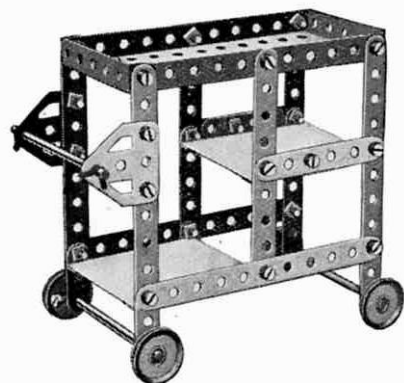


The Strip 9 represents the saw. The Crank Handle drives, through a belt 1, a short Rod journalled in a Double Bracket 2 and carrying a Bush Wheel 3. The latter imparts a reciprocating motion to the saw frame 4 through a 21" Strip 5 loosely mounted on Bolts secured to the Bush Wheel and to an Angle Bracket bolted to the saw frame. This frame slides on a 3 1/2" Rod 6, which acts as a guide, passing through the frame and supported in a Reversed Angle Bracket 7. A Washer is placed on the Bolt 8 behind the Bracket 7. A vice to secure the objects in position for cutting consists of a Flat Bracket 10 mounted on a Bolt 11, a few turns of which causes the Flat Bracket to grip the object 12. The Bolt 11 enters a Nut held between the Flat Trunnion 13 and 5 1/2" Strip 14, which are spaced apart for the purpose by 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.

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

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Model No. 1.27 Dinner Wagon

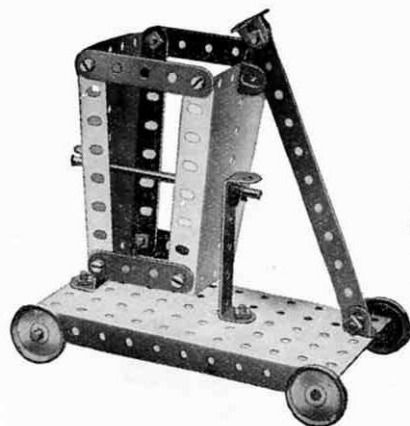


Parts
required :

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 $2\frac{1}{2}$ " Double Angle Strips and their inner edges on Angle Brackets.

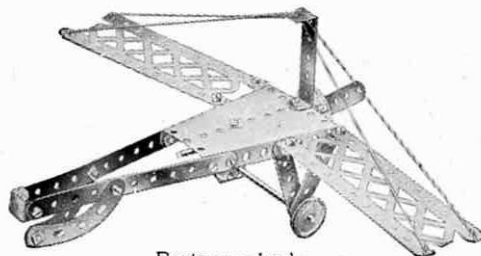
Model No. 1.28 Tip Wagon



Parts
required :

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

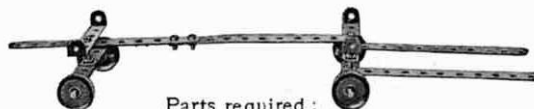
Model No. 1.29 Aeroplane



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		

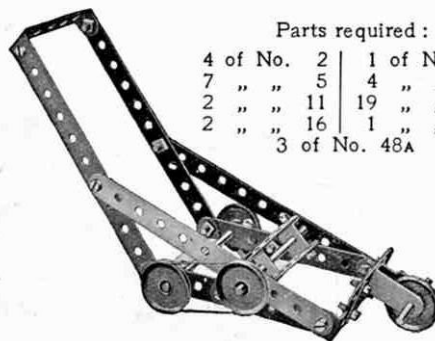
Model No. 1.30 Timber Drag



Parts required :

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

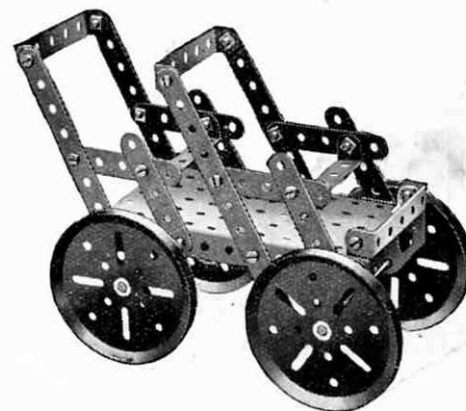
Model No. 1.31 Lawn Mower



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			

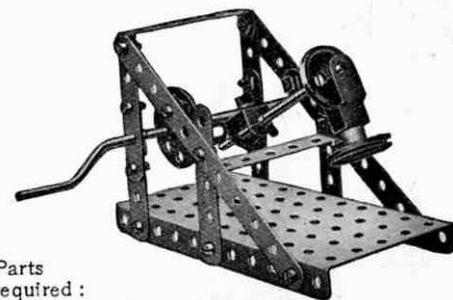
Model No. 1.32 Tandem Car



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

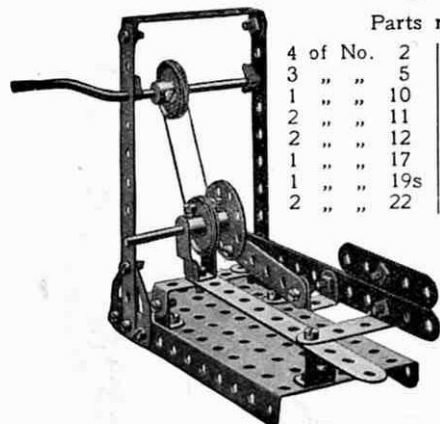


Parts
required :

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

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

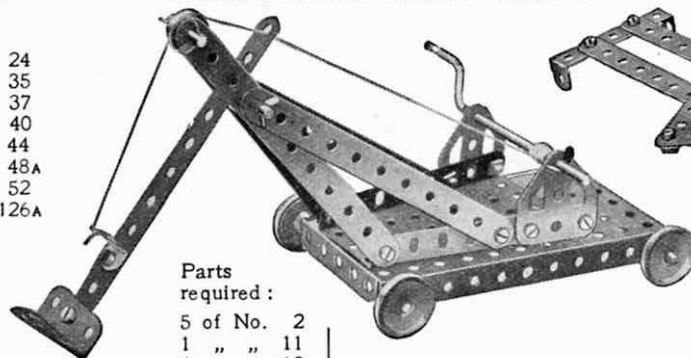
Model No. 1.34 Sawing Machine



Parts required:

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

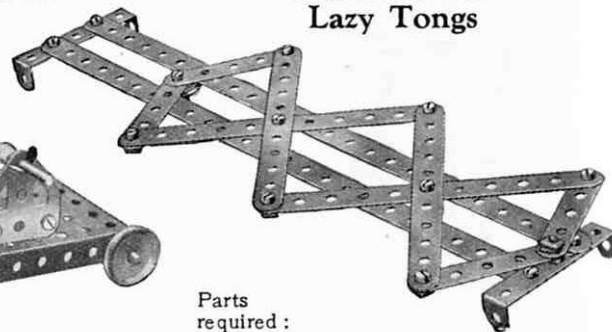
Model No. 1.36 Steam Shovel



Parts required:

5 of No. 2	6 of No. 35	1 of No. 52
1 " " 11	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. 1.38 Lazy Tongs



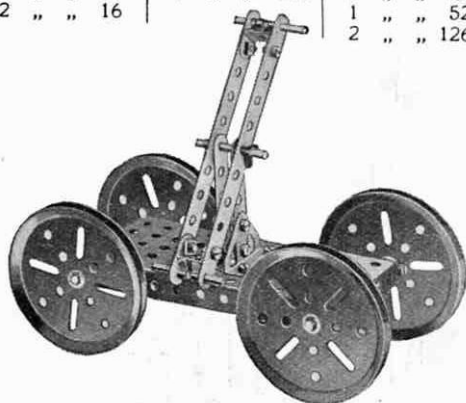
Parts required:

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

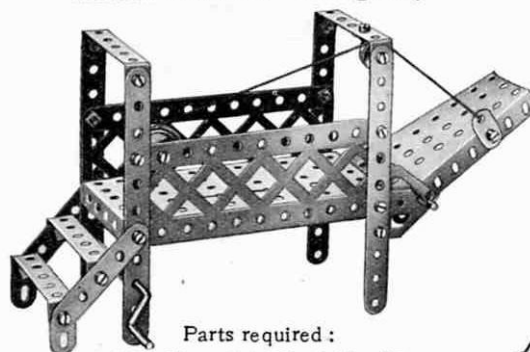
Model No. 1.35 Manual Fire Engine

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



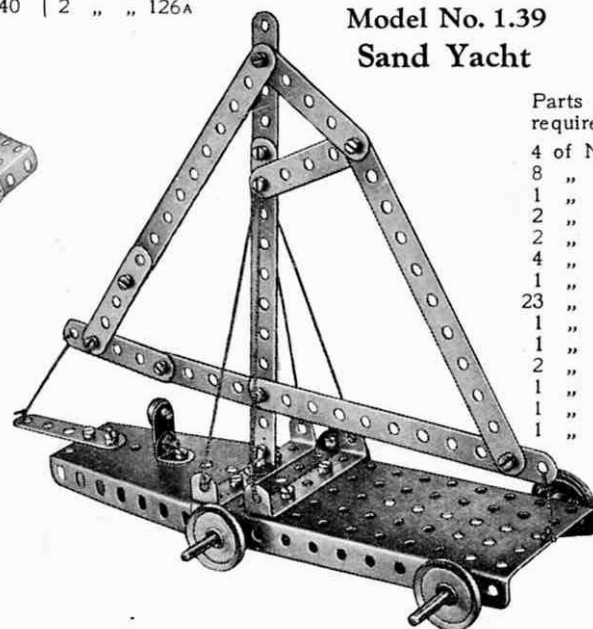
Model No. 1.37 Gangway



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. 1.39 Sand Yacht



Parts required:

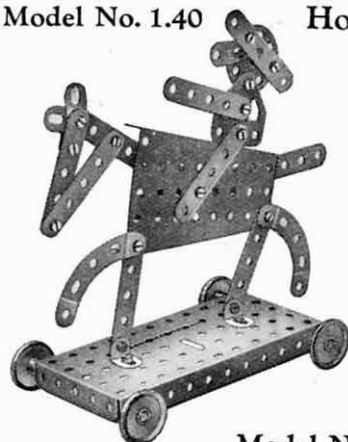
4 of No. 2
8 " " 5
1 " " 10
2 " " 12
2 " " 16
4 " " 22
1 " " 23
23 " " 37
1 " " 37A
1 " " 40
2 " " 48A
1 " " 52
1 " " 54
1 " " 111c

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

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Model No. 1.40

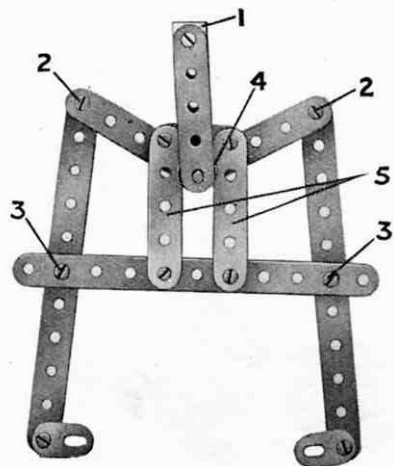
Horseman



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	

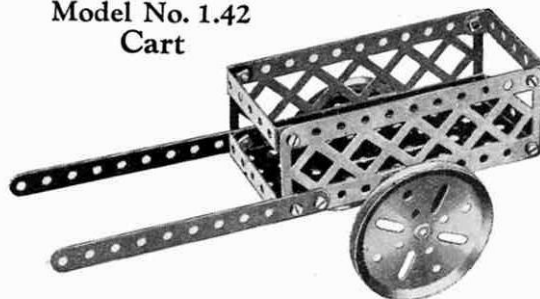
Model No. 1.41
Friction Grip Tongs

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 $\frac{1}{2}$ " loose Pulley Wheel 4 slides upward between the $2\frac{1}{2}$ " Strips 5, and the grip closes upon the block of wood or other material placed between its jaws.



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

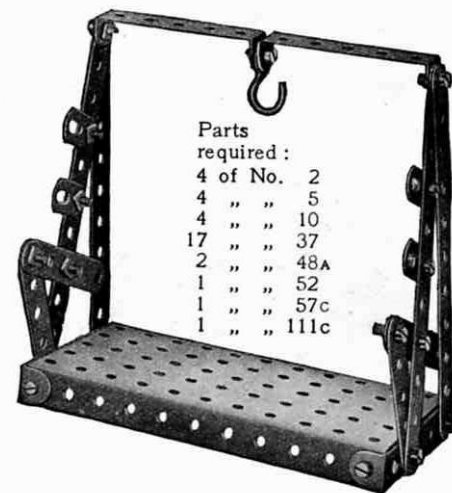
Model No. 1.42
Cart



Parts required :

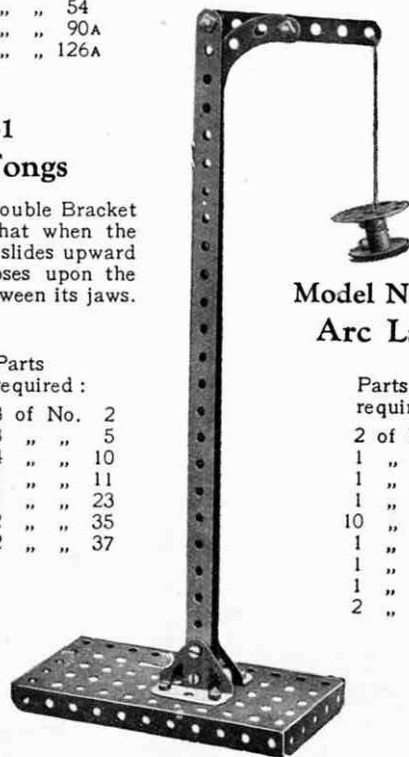
2 of No.	2	2 of No.	48A
1 " "	16	1 " "	52
2 " "	19B	2 " "	100
14 " "	37	2 " "	126A

Model No. 1.44 Pen Rack



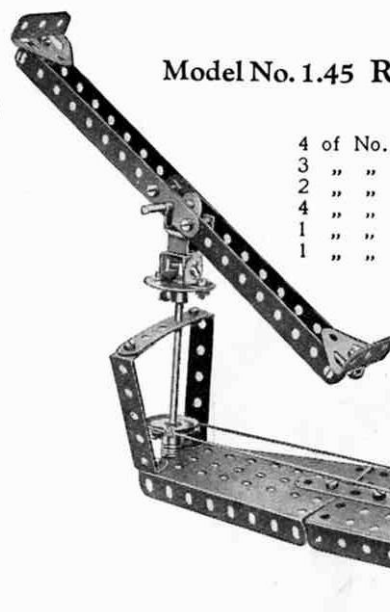
Parts required :		
4 of No.	2	
4 " "	5	
4 " "	10	
17 " "	37	
2 " "	48A	
1 " "	52	
1 " "	57C	
1 " "	111C	

Model No. 1.43
Arc Lamp



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

Model No. 1.45 Revolving See-Saw

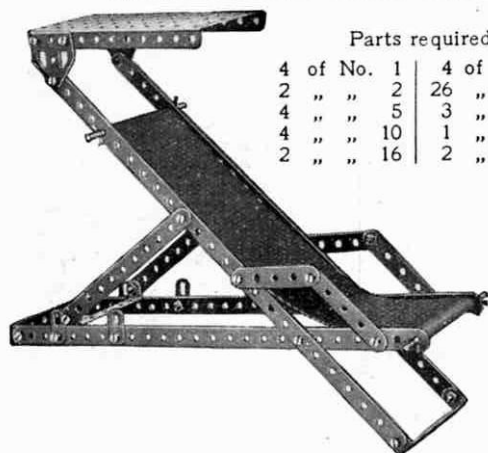


Parts required :

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

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

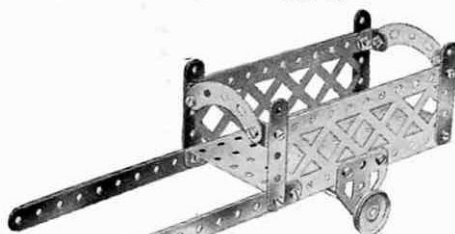
Model No. 1.46 Deck Chair



Parts required :

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

Model No. 1.48 Luggage Cart

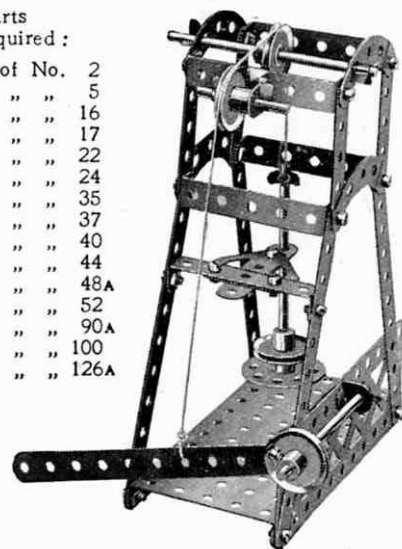


Parts required :	4 of No. 5	18 of No. 37
	4 " " 12	1 " " 52
	1 " " 16	2 " " 90A
2 of No. 2	2 " " 22	2 " " 100
		2 " " 126A

Model No. 1.50 Mechanical Stamp

Parts required :

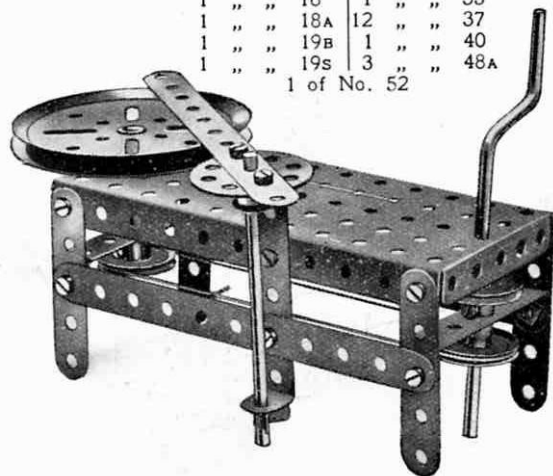
5 of No. 2	2
5 " " 5	5
3 " " 16	16
1 " " 17	17
4 " " 22	22
1 " " 24	24
6 " " 35	35
20 " " 37	37
1 " " 40	40
1 " " 44	44
6 " " 48A	48A
1 " " 52	52
4 " " 90A	90A
1 " " 100	100
1 " " 126A	126A



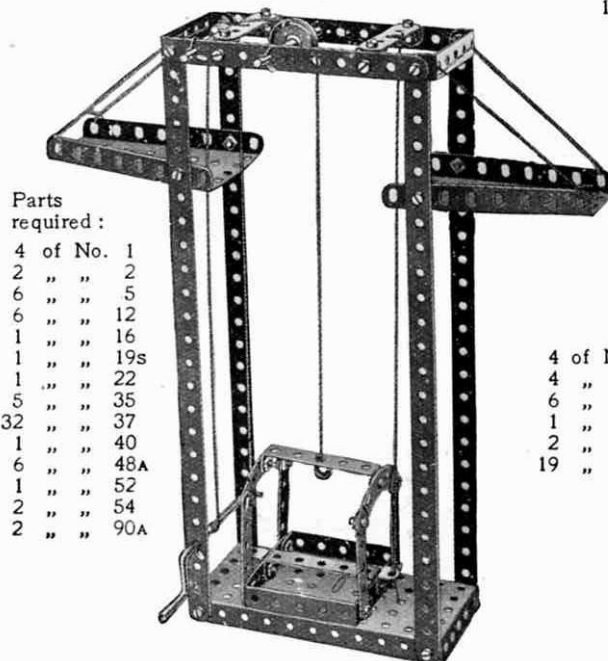
Model No. 1.47 Potter's Wheel

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. 1.49 Elevator



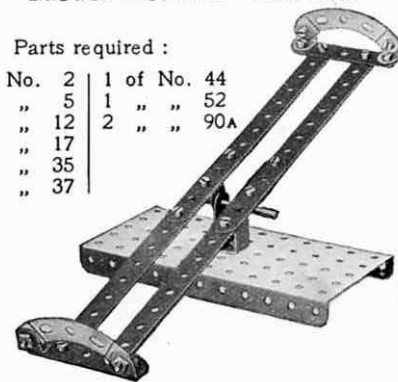
Parts required :

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

Model No. 1.51 See-Saw

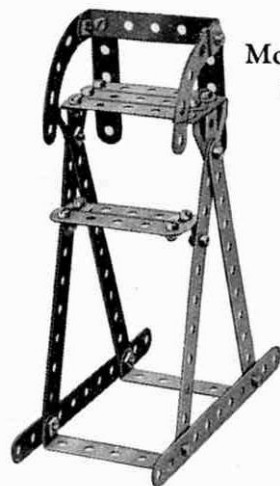
Parts required :

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



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

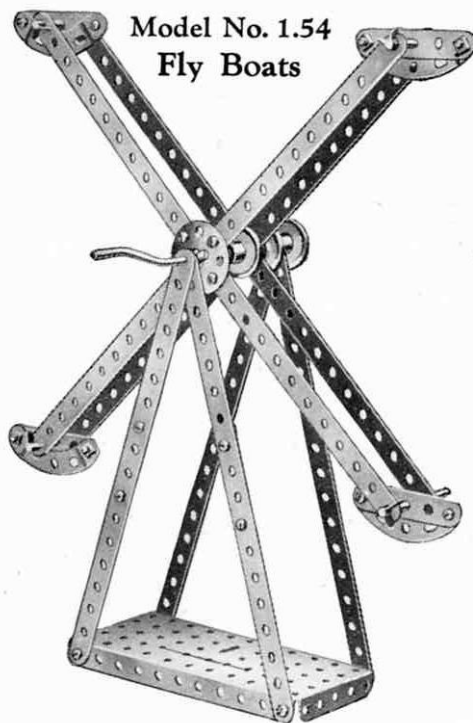
43



**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**

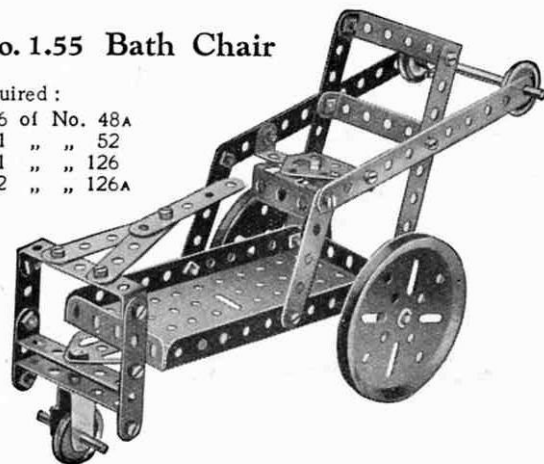
Parts required :

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

Model No. 1.55 Bath Chair

Parts required :

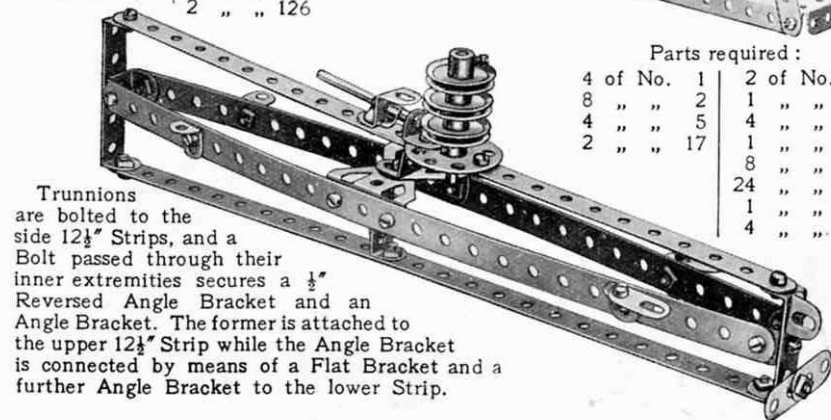
4 of No.	2	6 of No.	48A
7 " "	5	1 " "	52
2 " "	16	1 " "	126
1 " "	18A	2 " "	126A
2 " "	19B		
3 " "	22		
24 " "	37		
1 " "	37A		
1 " "	44		



Model No. 1.53 Submarine

Parts required :

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



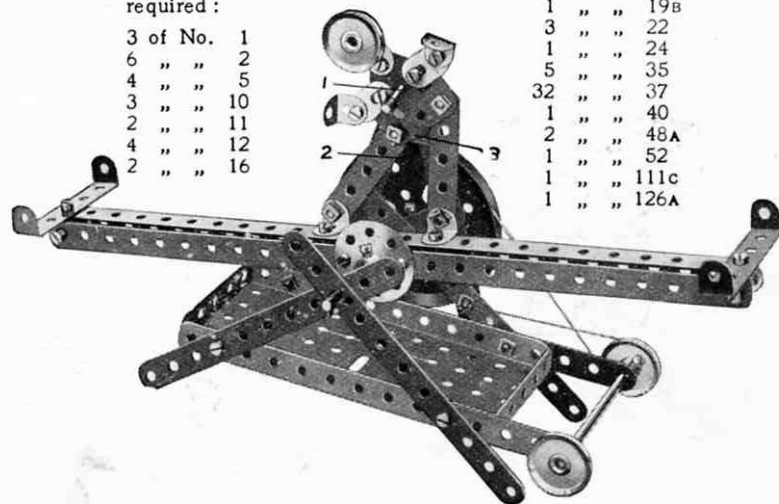
Model No. 1.56 Acrobat on See-Saw

The 1" Rod 1 is journaled 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

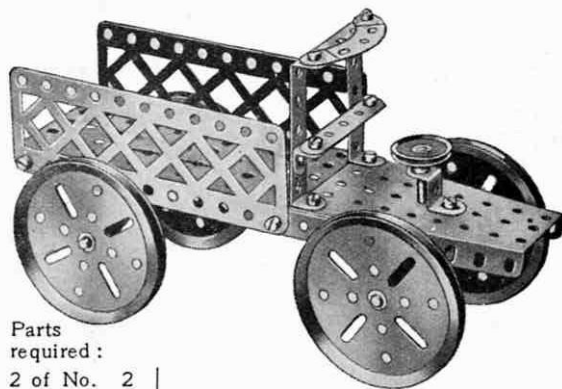
1 of No.	18A
1 " "	19B
3 " "	22
1 " "	24
5 " "	35
32 " "	37
1 " "	40
2 " "	48A
1 " "	52
1 " "	111c
1 " "	126A



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.

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

Model No. 1.57 Motor Lorry



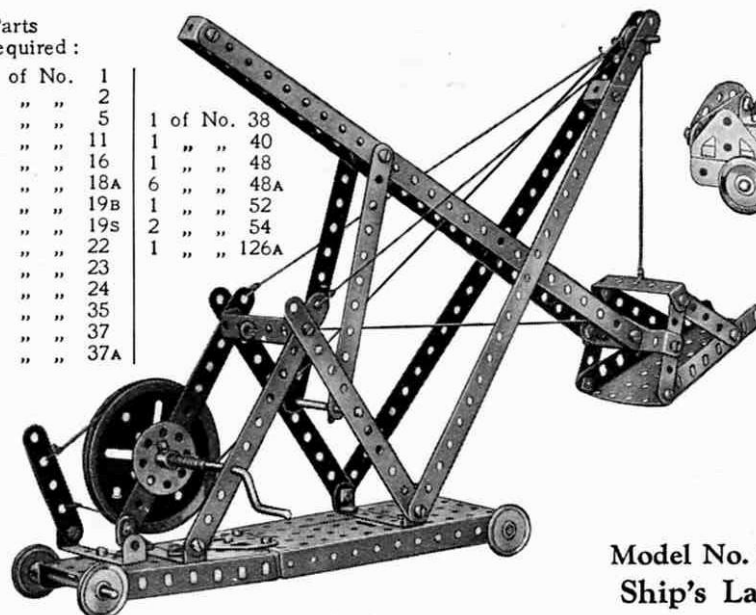
Parts
required :

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

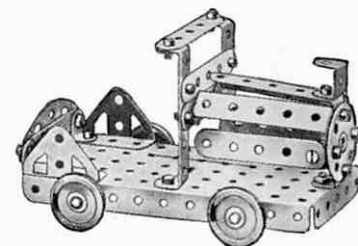
Model No. 1.58 Mechanical Shovel

Parts
required :

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



Model No. 1.60 Locomotive



Parts
required :

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

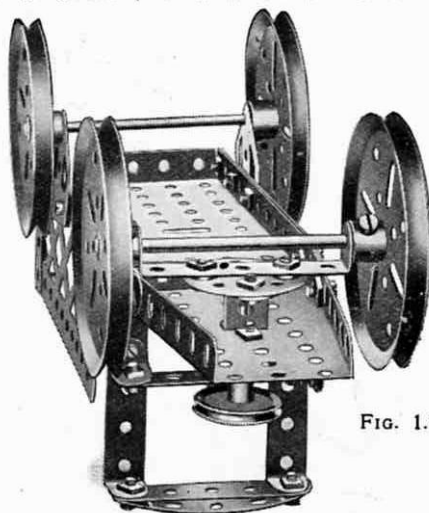
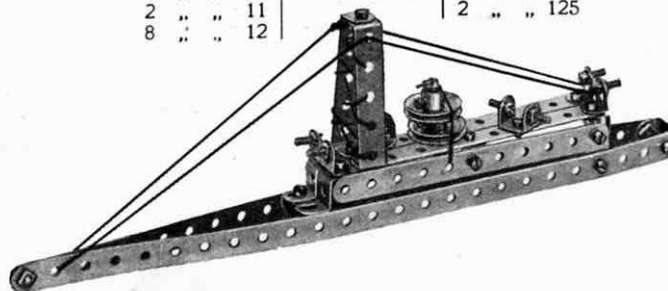


Fig. 1.57A

Model No. 1.59 Battleship

Parts required :

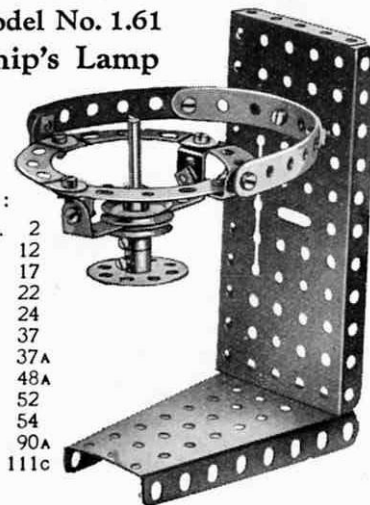
2 of No. 1	2 of No. 22	1 of No. 40
4 " " 2	26 " " 37	2 " " 48A
5 " " 10	6 " " 37A	6 " " 111c
2 " " 11		2 " " 125
8 " " 12		



Model No. 1.61 Ship's Lamp

Parts
required :

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

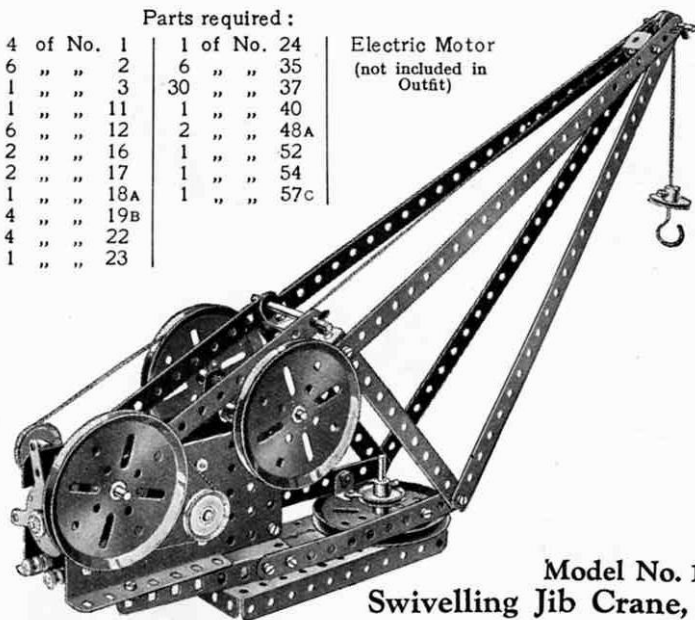


These Models can be built with MECCANO Outfit No. 1 (or No. 0 and No. 0A)

Model No. 1.62 Swivelling Jib Crane, Electric

Parts required :		
4 of No. 1	1 of No. 24	
6 " " 2	6 " " 35	
1 " " 3	30 " " 37	
1 " " 11	1 " " 40	
6 " " 12	2 " " 48A	
2 " " 16	1 " " 52	
2 " " 17	1 " " 54	
1 " " 18A	1 " " 57c	
4 " " 19B		
4 " " 22		
1 " " 23		

Electric Motor
(not included in
Outfit)



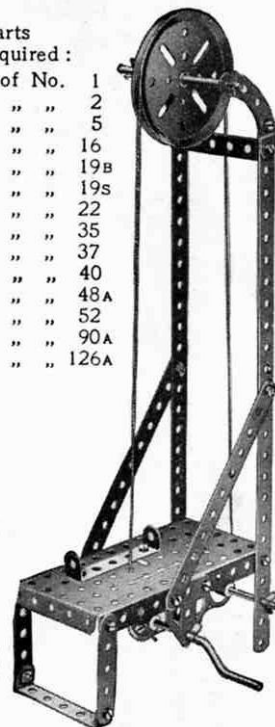
Model No. 1.64 Overhead Crane

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 " " 57c	
4 " " 90A	
2 " " 100	



Model No. 1.66 Band Saw

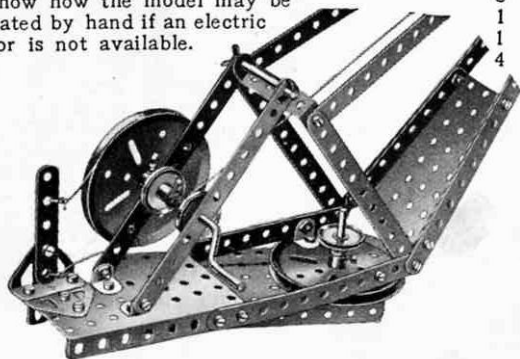
Parts required :	
2 of No. 1	
2 " " 2	
2 " " 5	
2 " " 16	
1 " " 19B	
1 " " 19s	
2 " " 22	
6 " " 35	
18 " " 37	
1 " " 40	
3 " " 48A	
1 " " 52	
2 " " 90A	
2 " " 126A	



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.

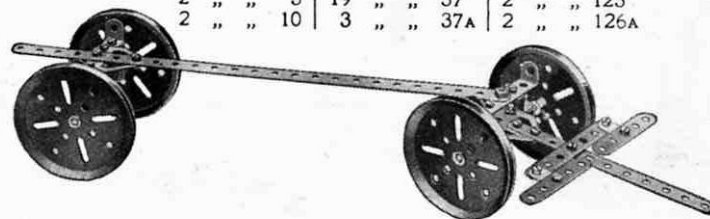
Parts required :	
4 of No. 1	2 of No. 17
6 " " 2	1 " " 18A
1 " " 5	2 " " 19B
1 " " 11	1 " " 19s
4 " " 12	4 " " 22
	1 " " 23
	1 " " 24
	4 " " 35
	32 " " 37
	4 " " 38
	1 " " 40
	1 " " 48
	1 " " 48A
	1 " " 52
	2 " " 54
	1 " " 57c
	1 " " 126
	1 " " 126A



Model No. 1.65 Timber Drag

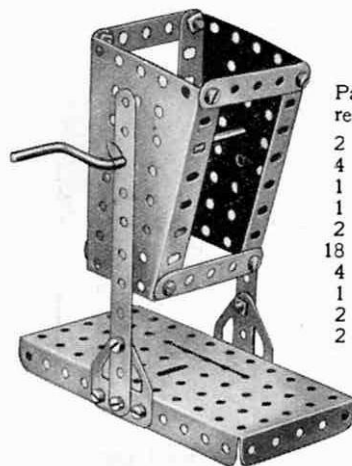
Parts required :

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



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

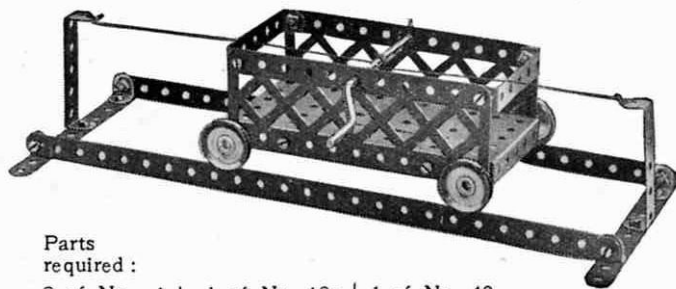
Model No. 1.67 Butter Churn



Parts
required :

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

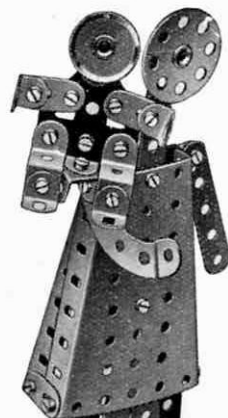
Model No. 1.69 Cable Railway



Parts
required :

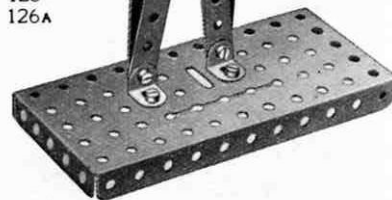
2 of No.	1	1 of No.	19s	1 of No.	40
2 "	2	4 "	22	4 "	48A
4 "	12	2 "	35	1 "	52
2 "	16	18 "	37	2 "	100

Model No. 1.72 Man and Boy



Parts
required :

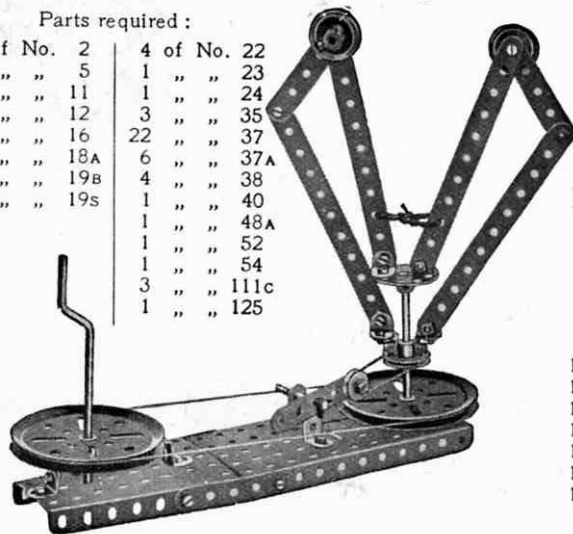
4 of No.	2
1 "	3
1 "	5
5 "	10
1 "	11
8 "	12
1 "	22
1 "	24
26 "	37
1 "	52
2 "	54
1 "	90A
2 "	125
1 "	126A



Model No. 1.68 Inverted Centrifugal Governor

Parts required :

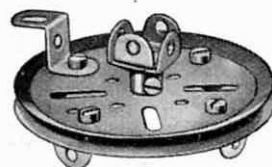
4 of No.	2	4 of No.	22
5 "	5	1 "	23
1 "	11	1 "	24
8 "	12	3 "	35
1 "	16	22 "	37
1 "	18A	6 "	37A
2 "	19B	4 "	38
1 "	19s	1 "	40
		1 "	48A
		1 "	52
		1 "	54
		3 "	111c
		1 "	125



Model No. 1.70 Candle Stick

Parts
required :

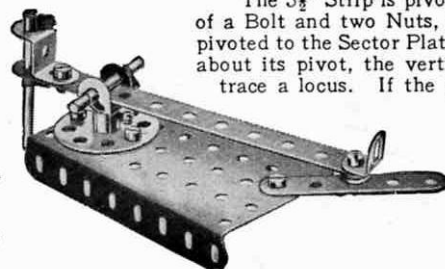
2 of No.	11
4 "	12
1 "	19B
4 "	37
1 "	111c
1 "	125



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

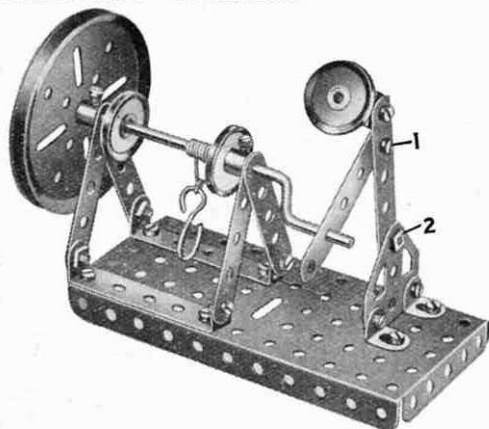
These Models can be built with MECCANO Outfit No. 1 (or No. 0 and No. 0A)

47

Model No. 1.73 Windlass

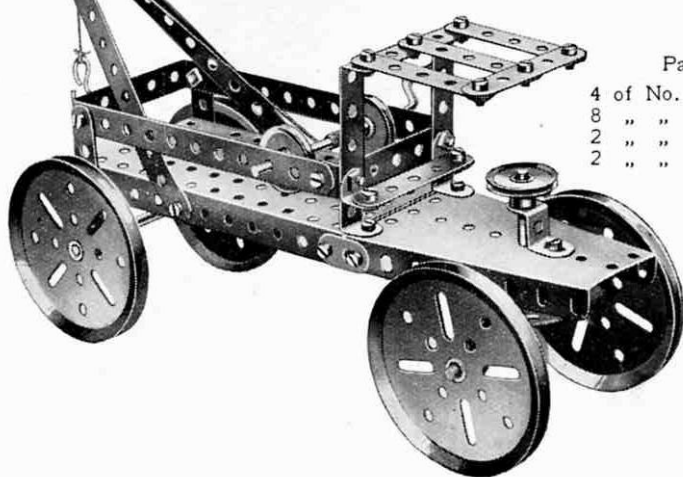
Parts
required :

6	of No.	5
3	" "	12
1	" "	19B
1	" "	19s
3	" "	22
15	" "	37
4	" "	37A
1	" "	40
2	" "	48A
1	" "	52
1	" "	57c
3	" "	111c
1	" "	126A



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

Model No. 1.74 Lorry Crane



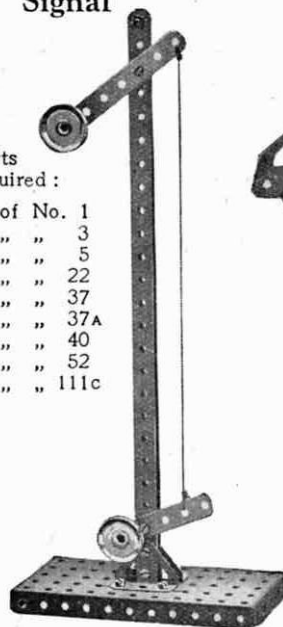
Parts required :

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

Model No. 1.75 Signal

Parts
required :

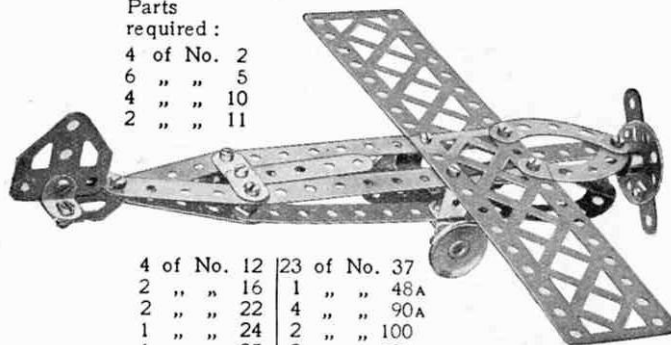
2	of No.	1
1	" "	3
1	" "	5
2	" "	22
11	" "	37
2	" "	37A
1	" "	40
1	" "	52
2	" "	111c



Model No. 1.76 Aeroplane

Parts
required :

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

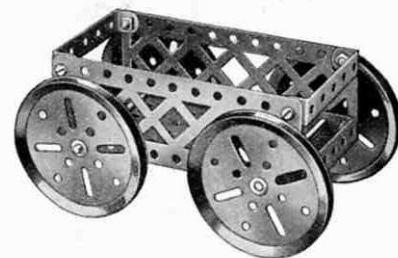


4	of No.	12	23	of No.	37
2	" "	16	1	" "	48A
2	" "	22	4	" "	90A
1	" "	24	2	" "	100
1	" "	35	2	" "	126A

Model No. 1.77 Truck

Parts
required :

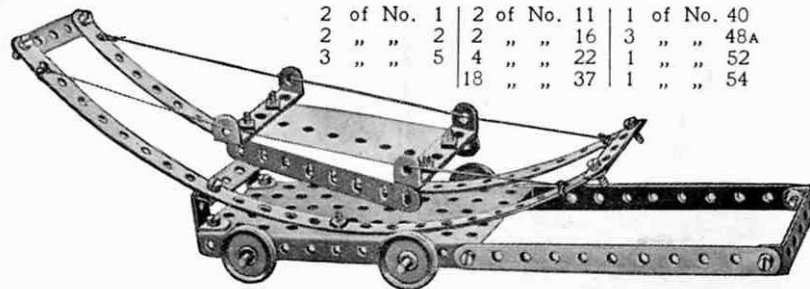
2	of No.	16
4	" "	19B
8	" "	37
2	" "	48A
1	" "	52
2	" "	100



Model No. 1.78 Mountain Transport

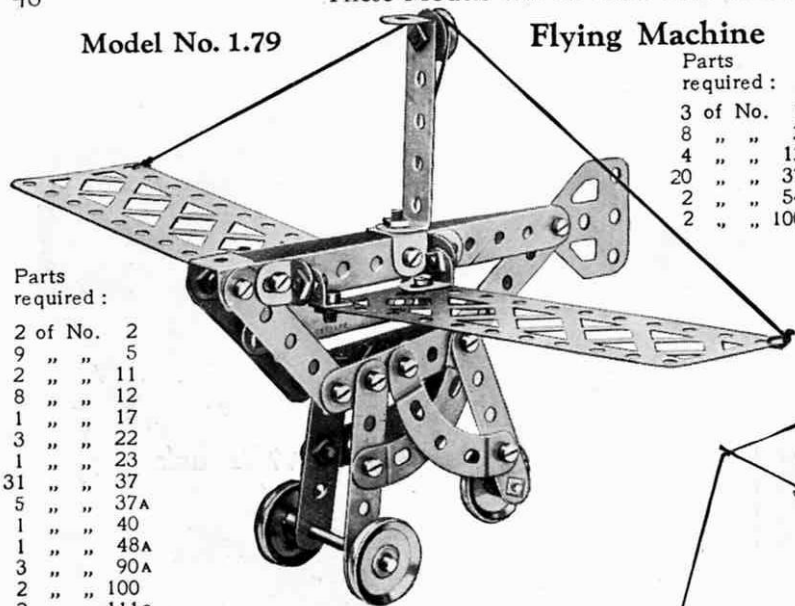
Parts required :

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



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

Model No. 1.79



Parts
required :

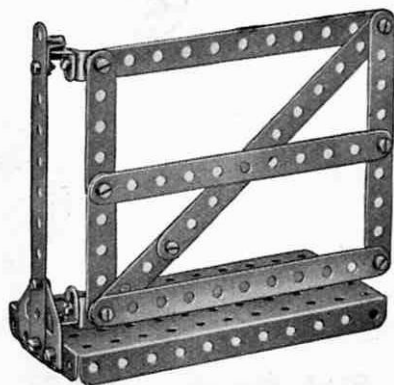
2	of No.	2
9	" "	5
2	" "	11
8	" "	12
1	" "	17
3	" "	22
1	" "	23
31	" "	37
5	" "	37A
1	" "	40
1	" "	48A
3	" "	90A
2	" "	100
2	" "	111c
1	" "	126A

Flying Machine

Parts
required :

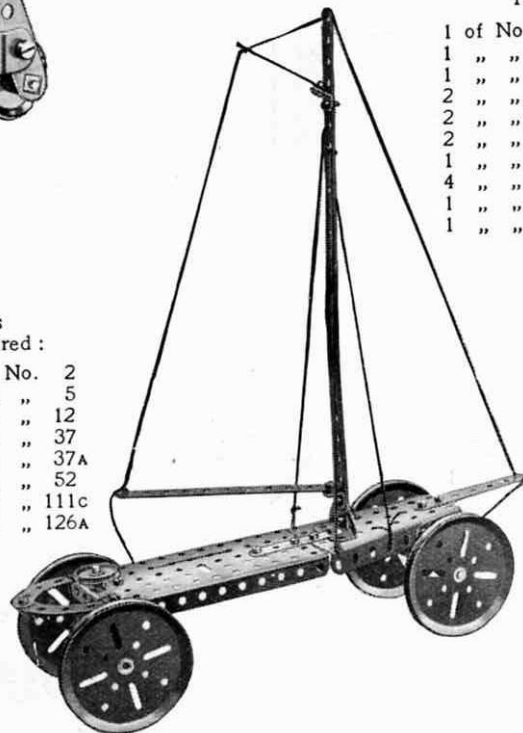
3	of No.	1
8	" "	2
4	" "	12
20	" "	37
2	" "	54
2	" "	100

Model No. 1.80 Gate



Parts
required :

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

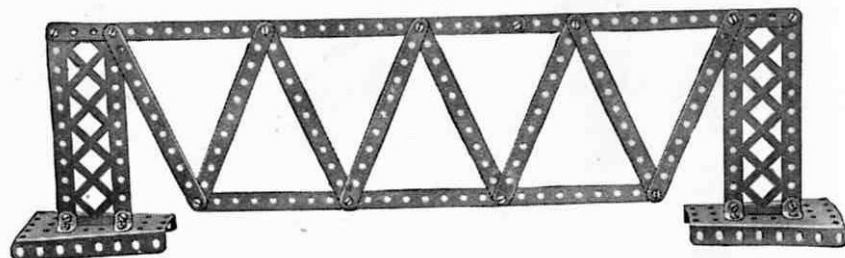


Model No. 1.82 Sand Yacht

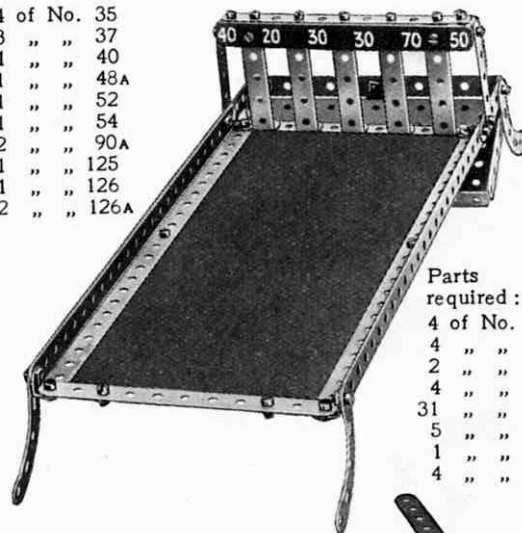
Parts required :

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. 1.81 Inverted Truss



Model No. 1.83
Box Ball Alley



Parts
required :

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

Model No. 1.84 Rake

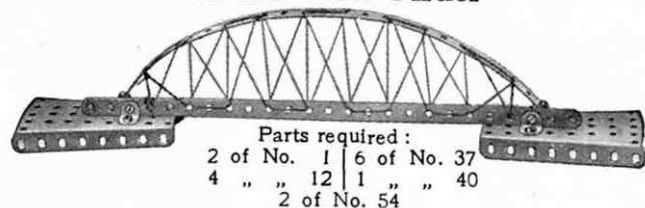
Parts required :

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



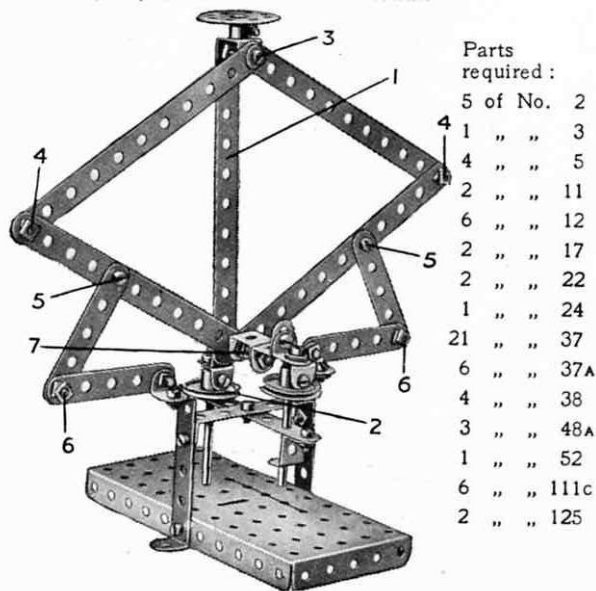
These Models can be built with MECCANO Outfit No. 1 (or No. 0 and No. 0A)

Model No. 1.85 Bow Girder



Model No. 1.86 Double-Action Pump

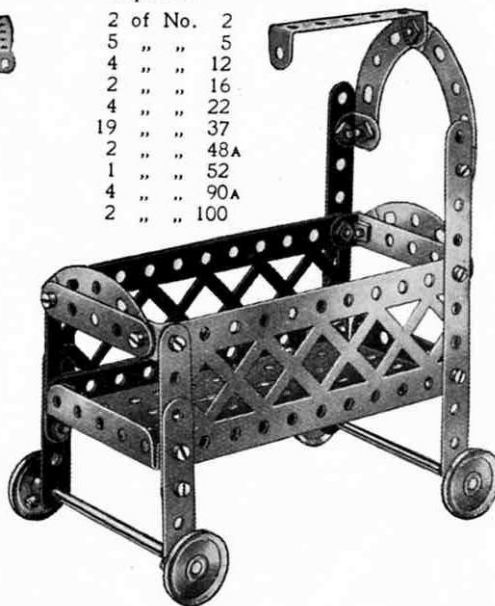
The $5\frac{1}{2}$ " Strip 1 is attached to the 1" Pulley Wheel 2 by means of two Angle Brackets, through the lower of which passes the Set-Screw that secures the Pulley to its 2" Rod. Two Washers are placed beneath the head of the Bolt joining the Angle Brackets in order to prevent its shank from binding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



Model No. 1.87 Cot on Wheels

Parts required:

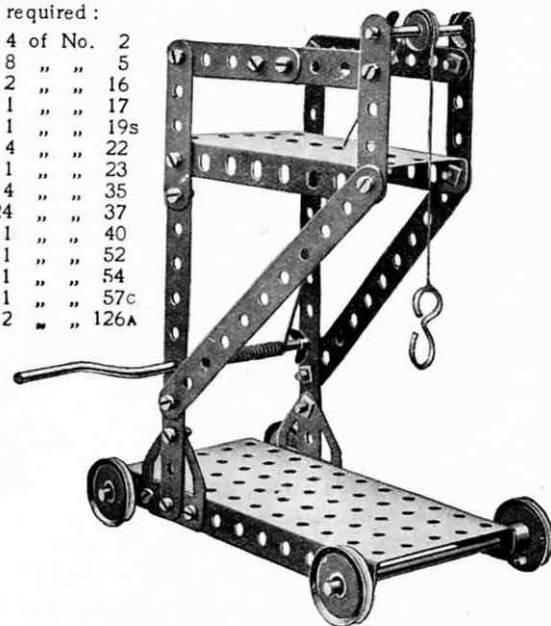
2 of No. 2	2
5 " " 5	5
4 " " 12	12
2 " " 16	16
4 " " 22	22
19 " " 37	37
2 " " 48A	48A
1 " " 52	52
4 " " 90A	90A
2 " " 100	100



Model No. 1.88 Tower Wagon

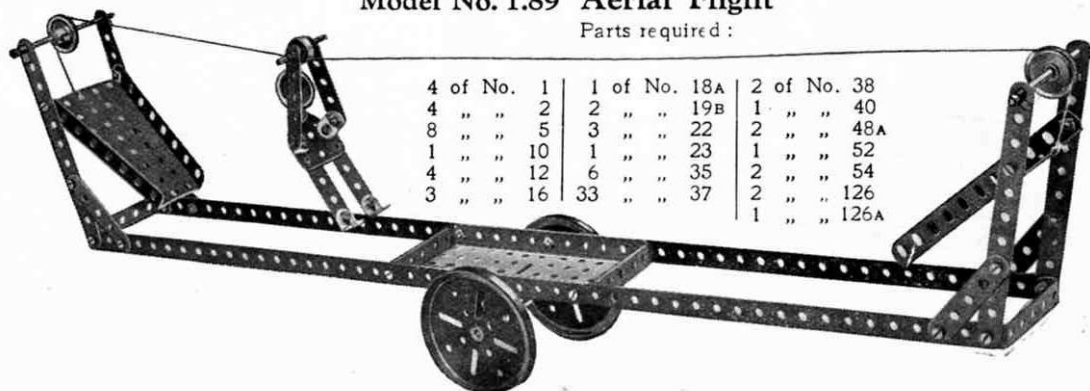
Parts required:

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



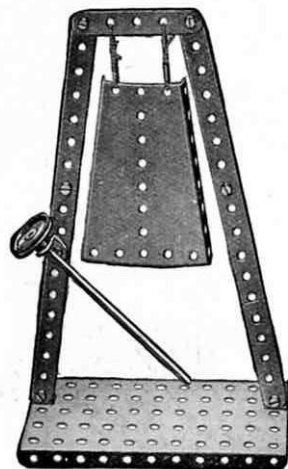
Model No. 1.89 Aerial Flight

Parts required:



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

Model No. 1.90 Gong



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	

Parts required :

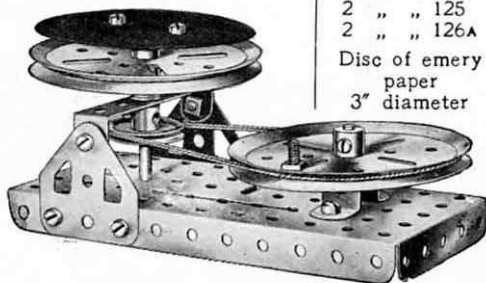
4 of No. 2	1 of No. 22
1 " " 5	9 " " 37
3 " " 12	1 " " 40
1 " " 16	1 " " 52
1 of No. 54	

Model No. 1.91 Emery Wheel

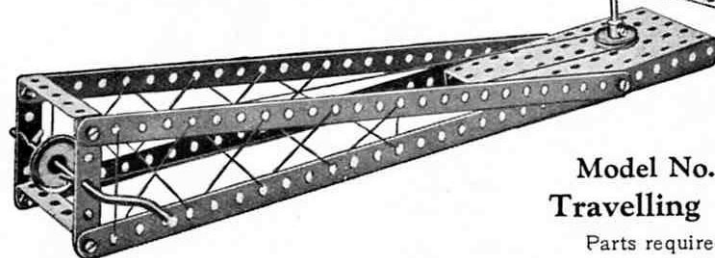
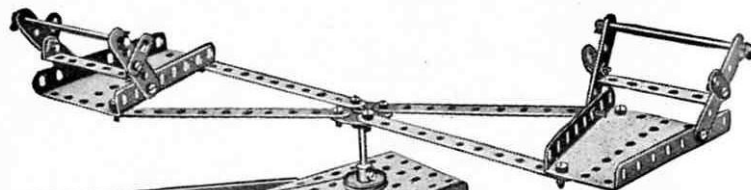
Parts required :

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

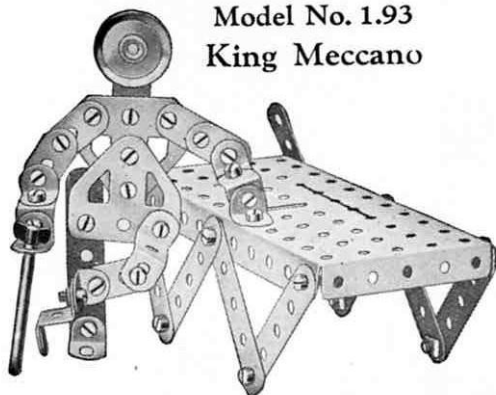
Disc of emery
paper
3" diameter



Model No. 1.92 Roundabout



Model No. 1.93 King Meccano



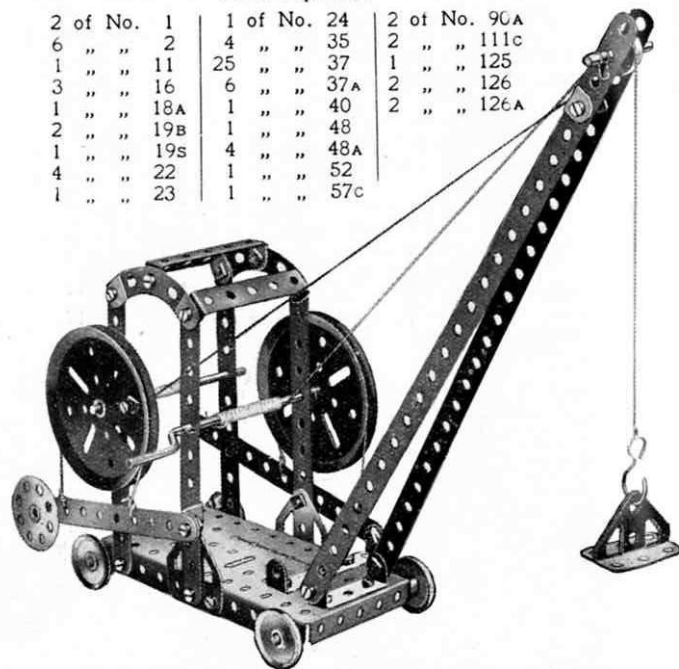
Parts required :

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

Model No. 1.94 Travelling Crane

Parts required :

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



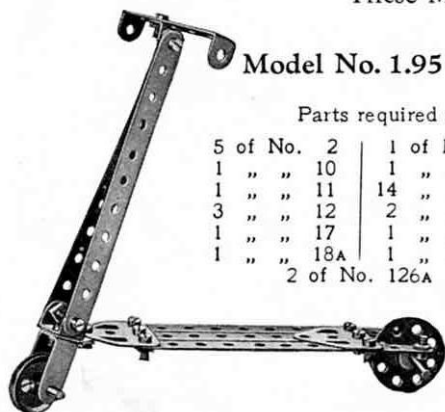
These Models can be built with MECCANO Outfit No. 1 (or No. 0 and No. 0A)

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Model No. 1.95 Scooter

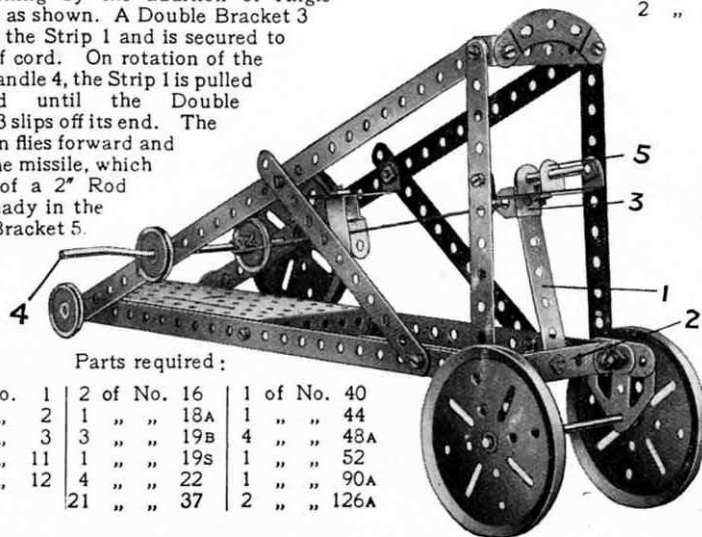
Parts required :

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



Model No. 1.96 Ballista

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

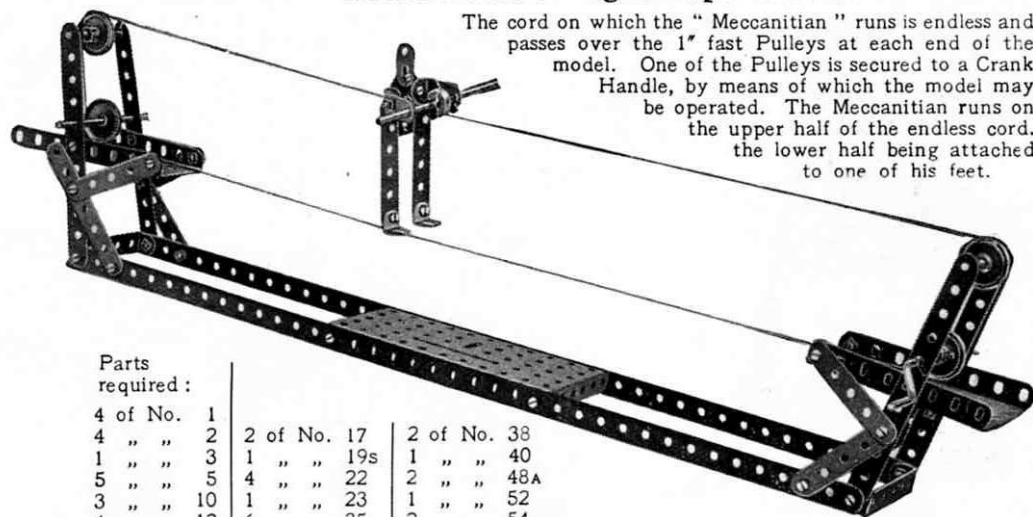


Parts required :

4 of No. 1	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.



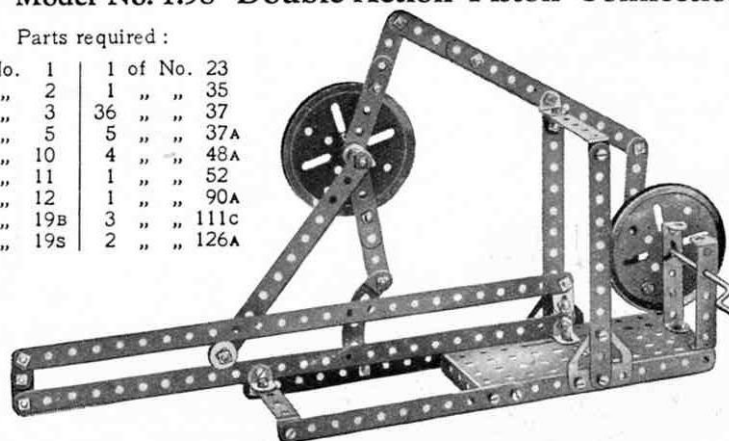
Parts required :

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

Model No. 1.98 Double-Action Piston Connection

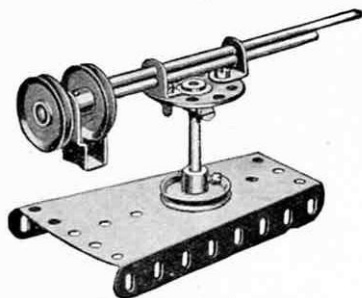
Parts required :

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



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

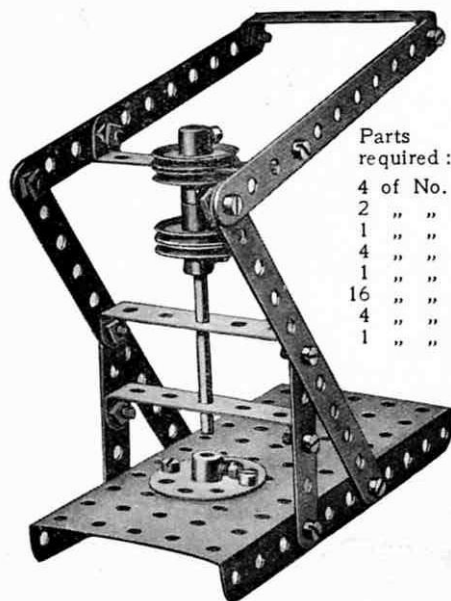
Model No. 1.99 Quick-Firing Gun



Parts required :

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

Model No. 1.100 Punching Machine



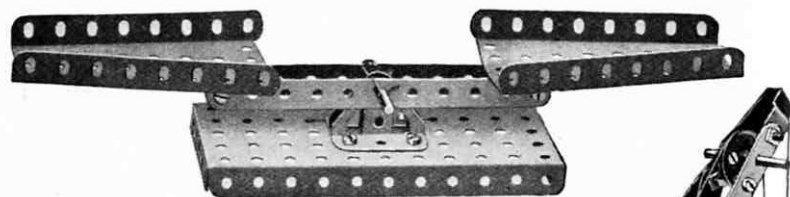
Parts required :

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

Parts required :

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

Model No. 1.101 Scales



Model No. 1.103 Swivelling Crane

Parts required :

4 of No. 2	1 of No. 52
7 " " 5	1 " " 54
2 " " 12	1 " " 57c
2 " " 17	2 " " 126A
1 " " 19s	
4 " " 22	
1 " " 23	
2 " " 35	
21 " " 37	
3 " " 38	
1 " " 40	
1 " " 44	
1 " " 48A	



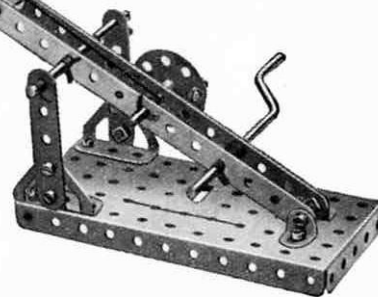
The Sector Plate of the crane in the above model is pivoted to the base with a fast Pulley above and below.

Model No. 1.102 Extended Ash Tip

Parts required :

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

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



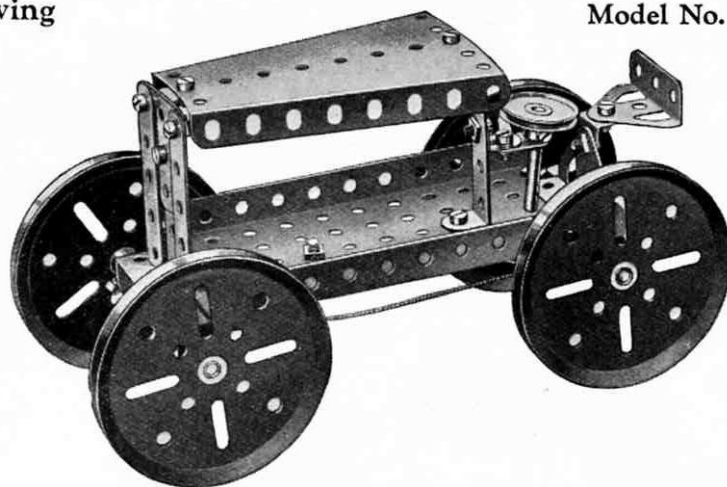
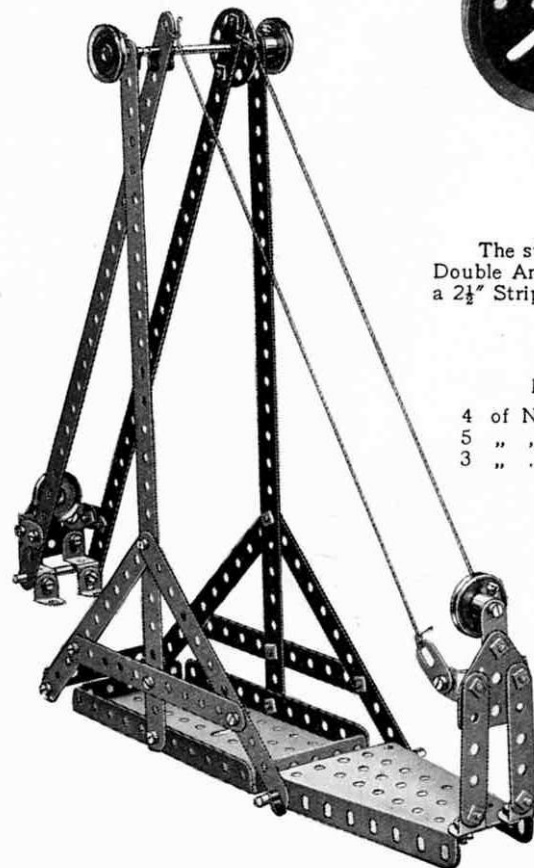
These Models can be built with MECCANO Outfit No. 1 (or No. 0 and No. 0A)

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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 $2\frac{1}{2}'' \times \frac{1}{2}''$ Double Angle Strip 1, which is mounted pivotally by a Bolt and two Nuts (S.M. 262) to a $2\frac{1}{2}''$ Strip 2 secured to the $5\frac{1}{2}'' \times 2\frac{1}{2}''$ Flanged Plate.

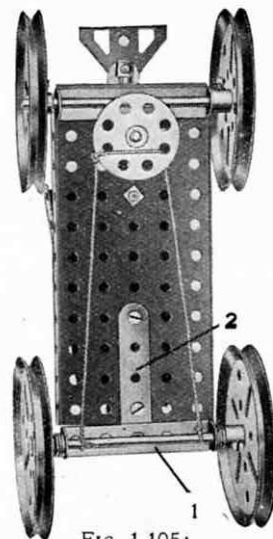
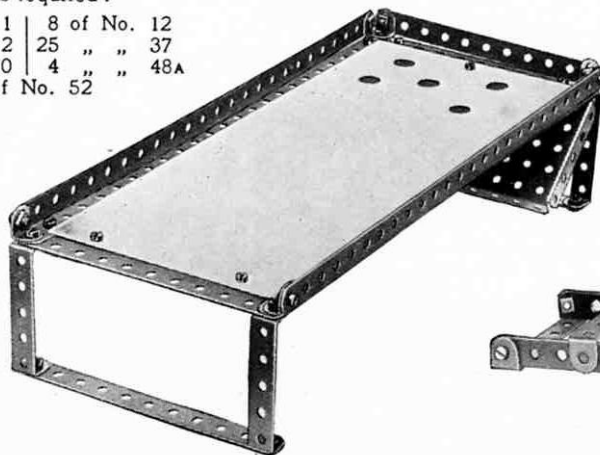


FIG. 1.105A

Model No. 1.106 Bagatelle Table

Parts required :

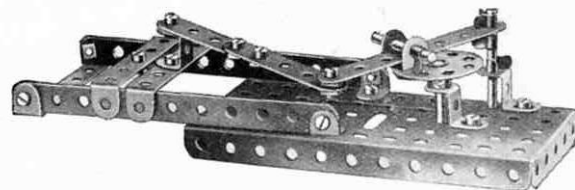
4 of No. 1	8 of No. 12
5 " " 2	25 " " 37
3 " " 10	4 " " 48A
1 of No. 52	



Model No. 1.107 Quick Return Device

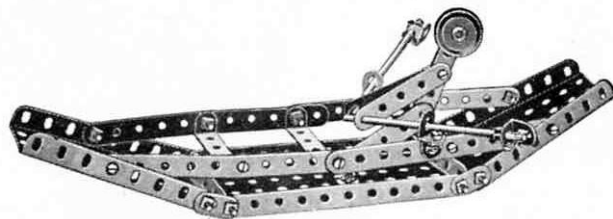
Parts required :

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



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

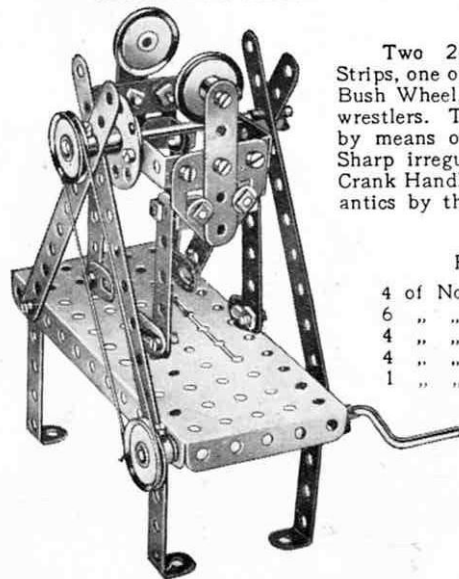
Model No. 1.108 Rowing Boat



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.

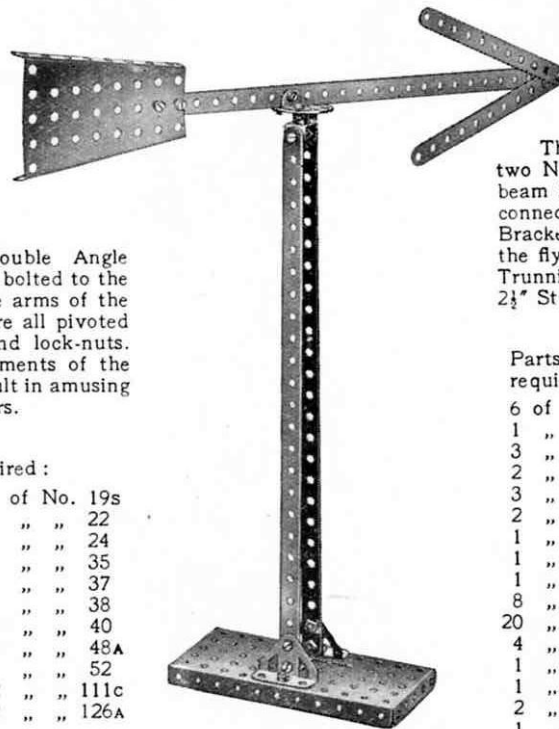
Parts required :

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

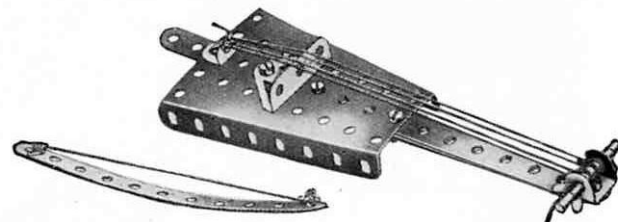
Model No. 1.110 Weather Vane

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 :

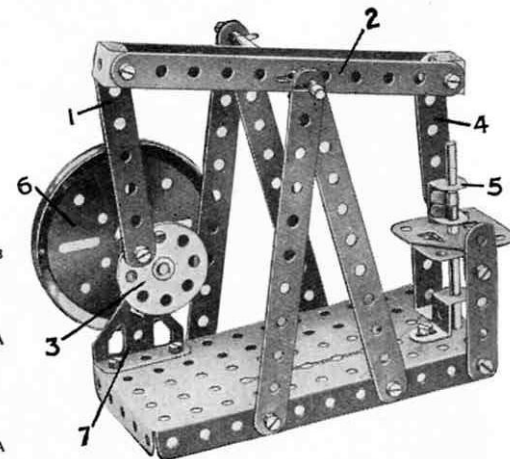
4 of No. 2	1 of No. 12	1 of No. 40
1 " " 5	1 " " 18A	1 " " 54
1 " " 11	2 " " 35	1 " " 126
	5 " " 37	

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 journaled in a $2\frac{1}{2}$ " Strip supported by the Trunnion 7 and in a Reversed Angle Bracket bolted to the $2\frac{1}{2}$ " Strip.

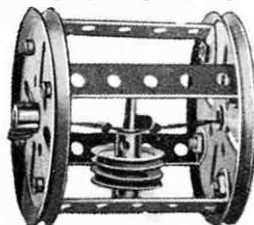
Parts required :

6 of No. 2	2
1 " " 3	
3 " " 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	



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

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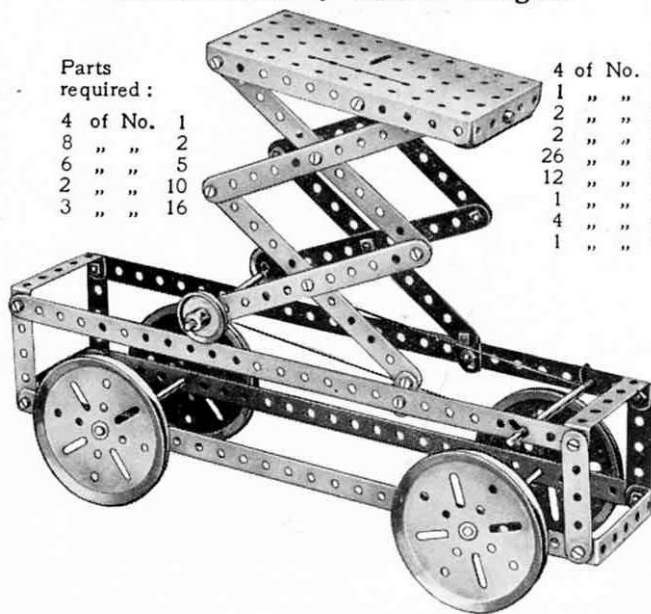
Model No. 1.113 Cum BakParts
required :

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 WagonParts
required :

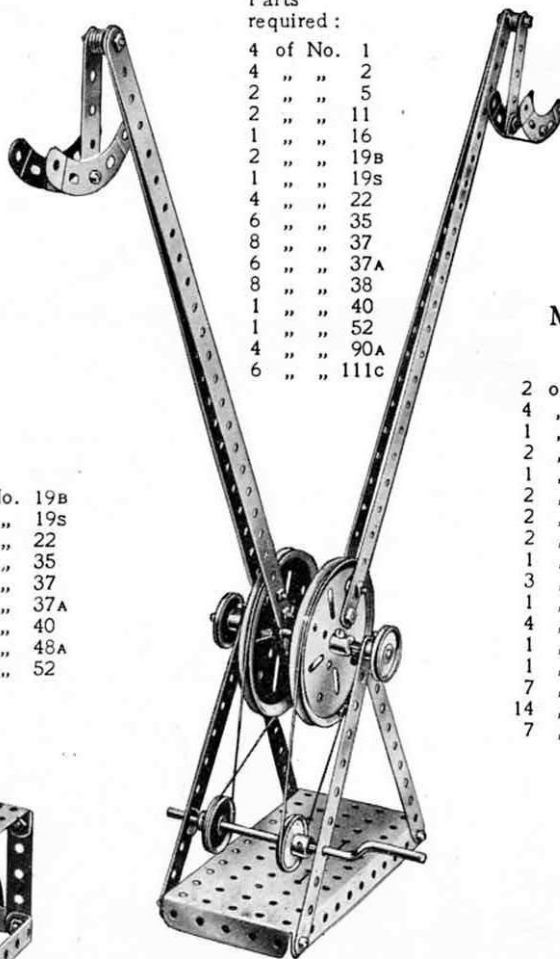
4	of No.	1
8	" "	2
6	" "	5
2	" "	10
3	" "	16



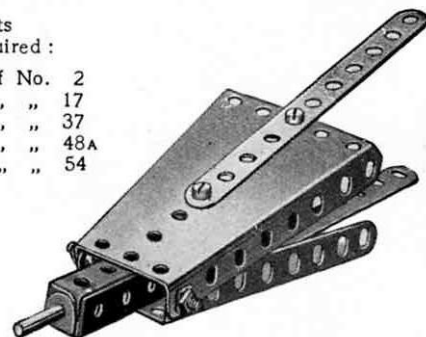
4	of No.	19B
1	" "	19S
2	" "	22
2	" "	35
26	" "	37
12	" "	37A
1	" "	40
4	" "	48A
1	" "	52

Model No. 1.115**Flip Flap**Parts
required :

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

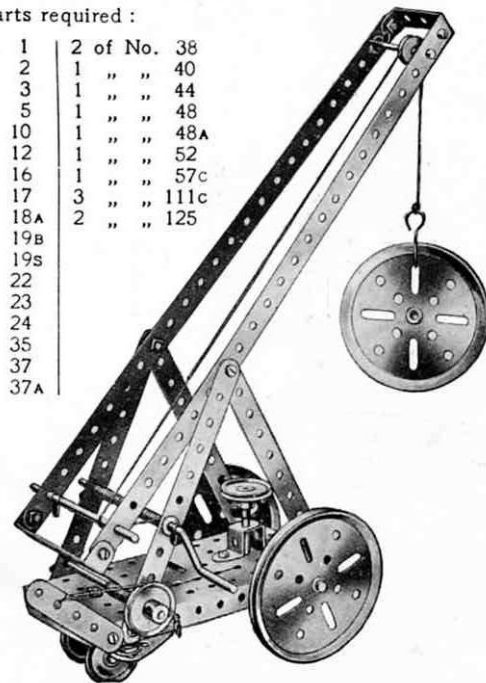
**Model No. 1.116 Bellows**Parts
required :

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

**Model No. 1.117 Mobile Crane**

Parts required :

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

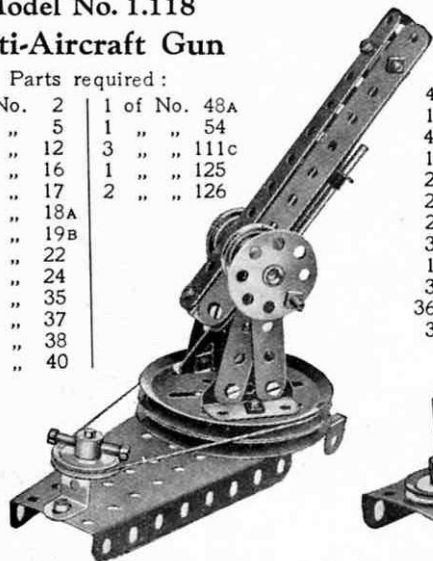


These Models can be built with MECCANO Outfit No. 1 (or No. 0 and No. 0A)

Model No. 1.118 Anti-Aircraft Gun

Parts required:

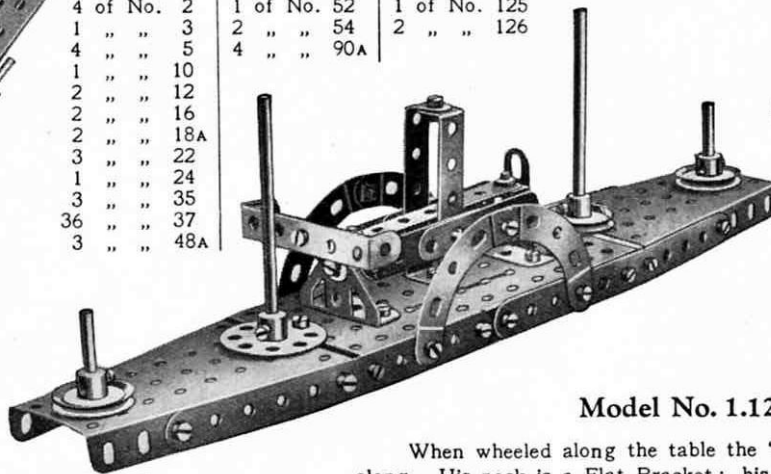
4 of No. 2	1 of No. 48A
4 " " 5	1 " " 54
8 " " 12	3 " " 111c
1 " " 16	1 " " 125
1 " " 17	2 " " 126
2 " " 18A	
2 " " 19B	
3 " " 22	
1 " " 24	
4 " " 35	
18 " " 37	
2 " " 38	
1 " " 40	



Model No. 1.120 Paddle Steamer

Parts required:

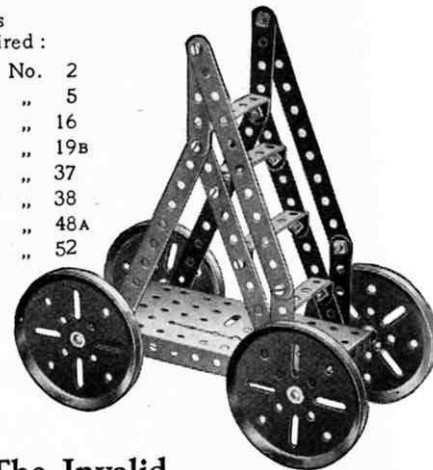
4 of No. 2	1 of No. 52	1 of No. 125
1 " " 3	2 " " 54	2 " " 126
4 " " 5	4 " " 90A	
1 " " 10		
2 " " 12		
2 " " 16		
2 " " 18A		
3 " " 22		
1 " " 24		
3 " " 35		
36 " " 37		
3 " " 48A		



Model No. 1.121 Ladder on Wheels

Parts required:

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



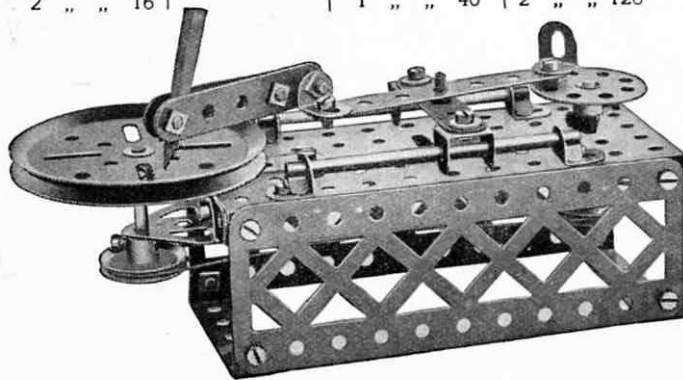
Model No. 1.119 Meccanograph

Parts required:

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

Parts required:

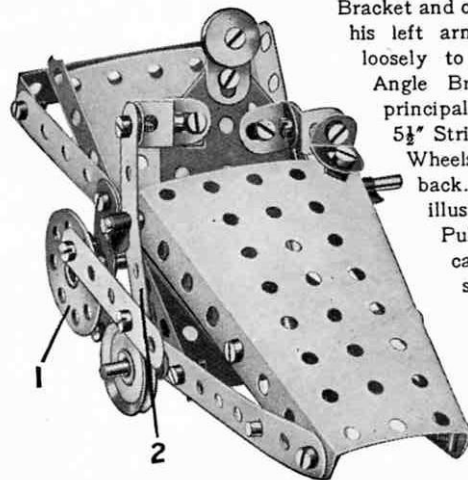
4 of No. 2
6 " " 5
1 " " 10
4 " " 12
3 " " 16
1 " " 17
4 " " 22
1 " " 23
1 " " 24
4 " " 35
24 " " 37
4 " " 37A
3 " " 38
2 " " 48A
2 " " 54
1 " " 125
1 " " 126A



Model No. 1.122 The Invalid

When wheeled along the table the "invalid" appears to push himself energetically along. His neck is a Flat Bracket: his right (or propelling) arm consists of one Angle Bracket and one $\frac{1}{2}$ " Reversed Angle Bracket, and

his left arm—the hand of which is bolted loosely to the chair—is formed by three Angle Brackets. The chair is composed principally of two Sector Plates and four $5\frac{1}{2}$ " Strips, and it runs on three 1" Pulley Wheels—one in front and two at the back. One of these (not visible in the illustration) drives by cord another 1" Pulley Wheel, the shaft of which also carries a Bush Wheel 1. As will be seen, a $2\frac{1}{4}$ " Strip is pivoted at one end to this Bush Wheel and at the other end to a second $2\frac{1}{4}$ " Strip 2, which, rocking about an axle journalled through its centre hole, is again pivoted to the invalid's hands.



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

57

Model No. 1.123 Bow and Arrow

Parts required :
1 of No. 1 | 1 of No. 16
1 of No. 40

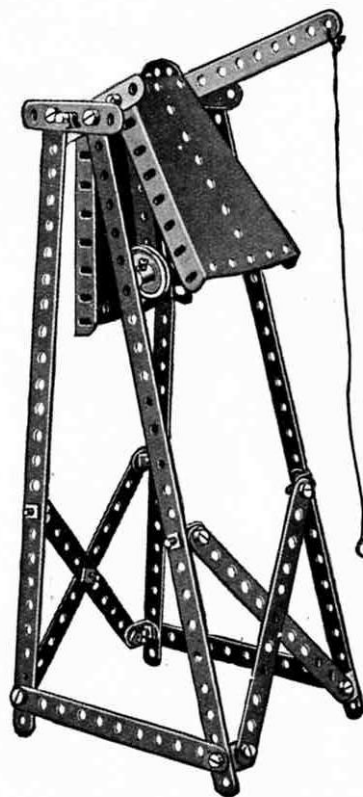
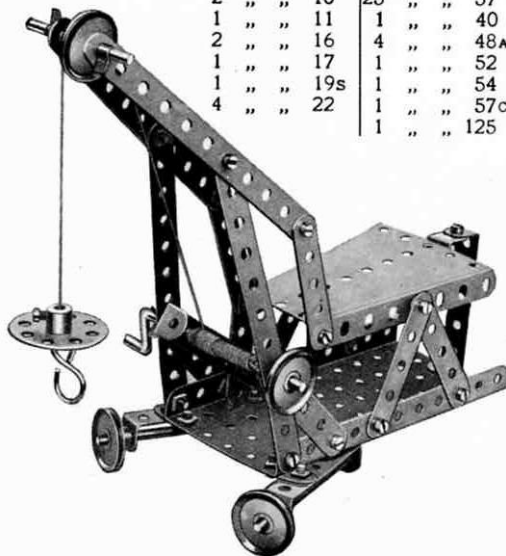


Model No. 1.124 Rotating Crane

The running wheels of this crane are journaled in Double Angle Strips bolted to the base plate and secured at an angle by means of Flat Brackets. The rear of the Base Plate is supported on a Double Bracket. The jib is bolted loosely to the supporting 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 " " 57c
	1 " " 125



Model No. 1.125 Fire Alarm

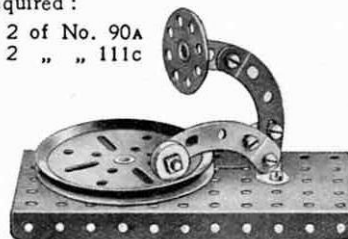
Parts required :

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

Model No. 1.126 Gramophone

Parts required :

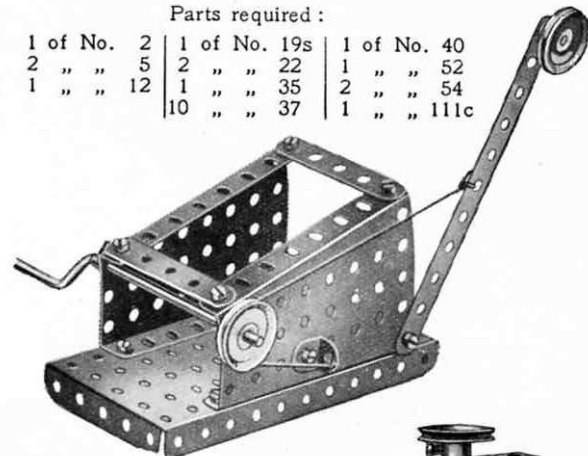
2 of No. 10	2 of No. 90A
1 " " 12	2 " " 111c
1 " " 19B	
1 " " 23	
1 " " 24	
6 " " 37	
1 " " 38	
1 " " 52	



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

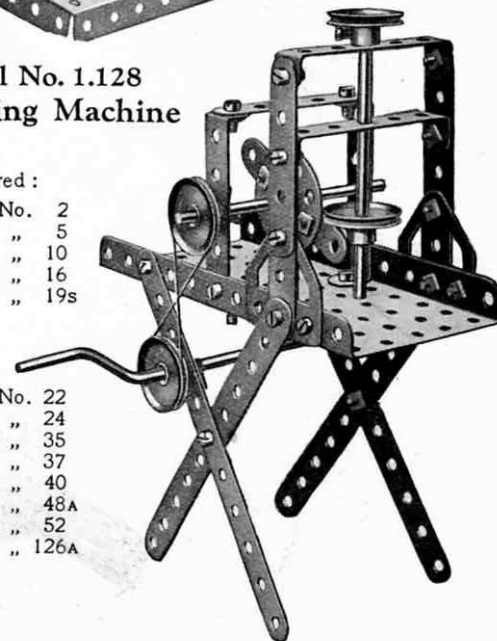


Model No. 1.128 Stamping Machine

Parts required :

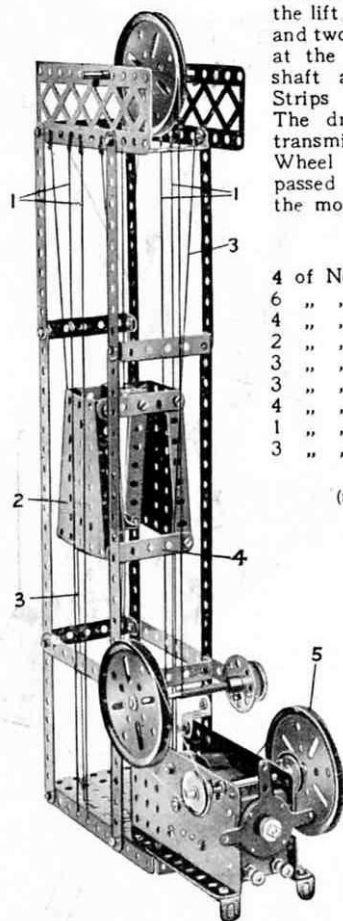
4 of No. 2	
5 " " 5	
2 " " 10	
2 " " 16	
1 " " 19s	

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



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

Model No. 1.129 Electric Elevator



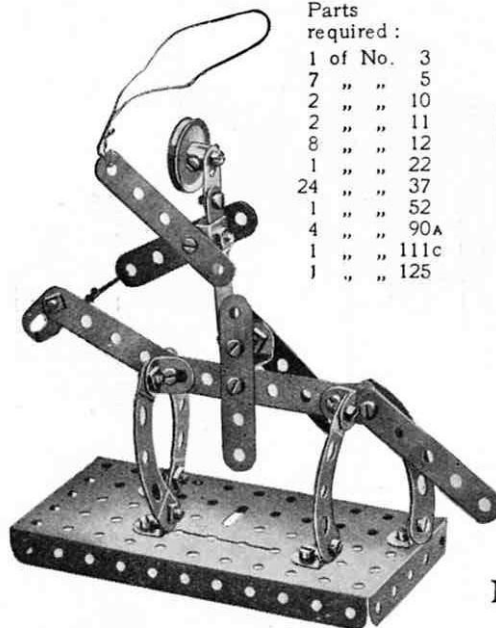
Two pairs of cords 1 are stretched tightly on each side of the lift shaft to guide the cage 2 and two other cords 3 are secured at the top and bottom of the shaft and passed behind 2½" Strips 4 bolted to the cage. The drive from the motor is transmitted to the 3" Pulley Wheel 5 by means of a cord passed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

Parts required :

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

Electric Motor
(not included in Outfit)

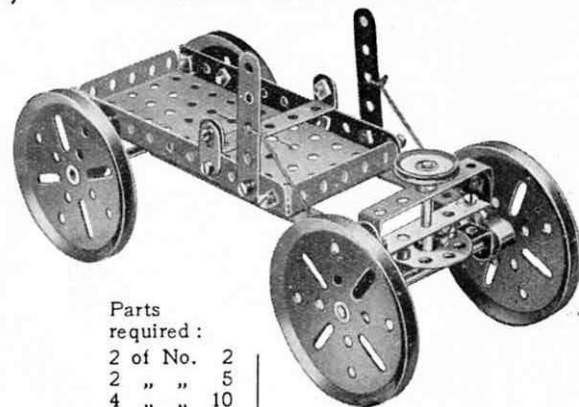
Model No. 1.130 Mounted Cowboy



Parts required :

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

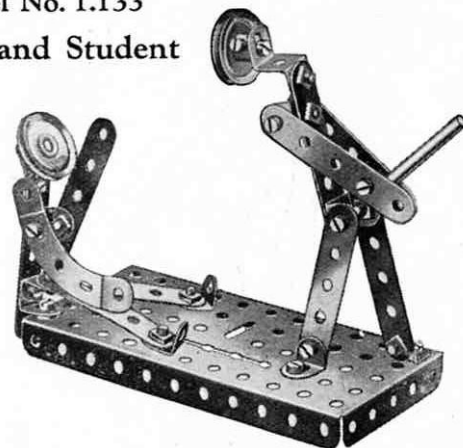
Model No. 1.132 Coaster



Parts required :

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

Model No. 1.133 Master and Student

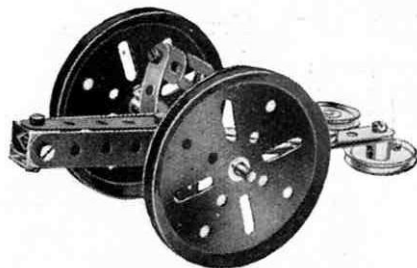


Parts required :

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. 1.131

Howitzer



Parts required :

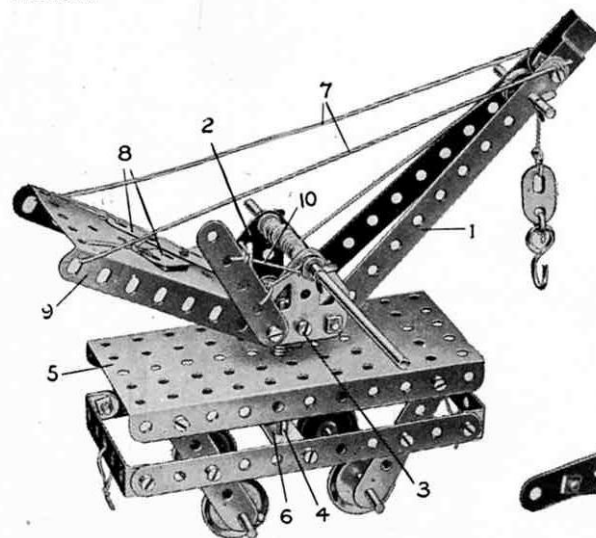
2 of No. 2	
6 " " 5	
4 " " 10	
2 " " 11	
4 " " 12	
1 " " 16	
2 " " 19B	
2 " " 22	
2 " " 35	
14 " " 37	
2 " " 38	
2 " " 111c	
2 " " 125	

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

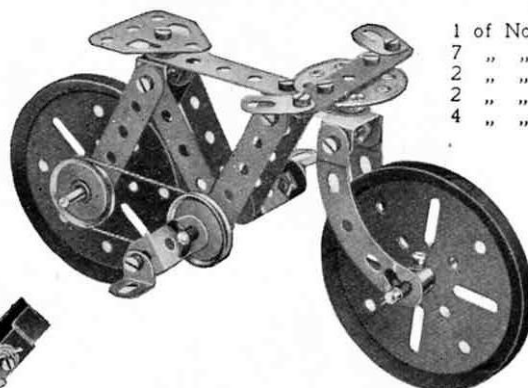
59

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

Model No. 1.135 Bicycle

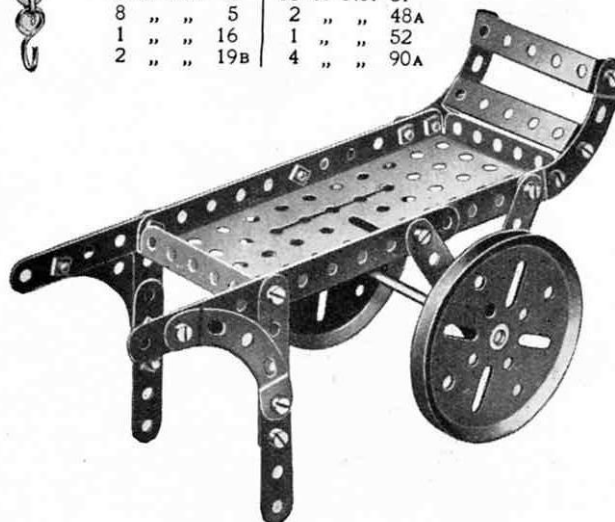
Parts required :

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

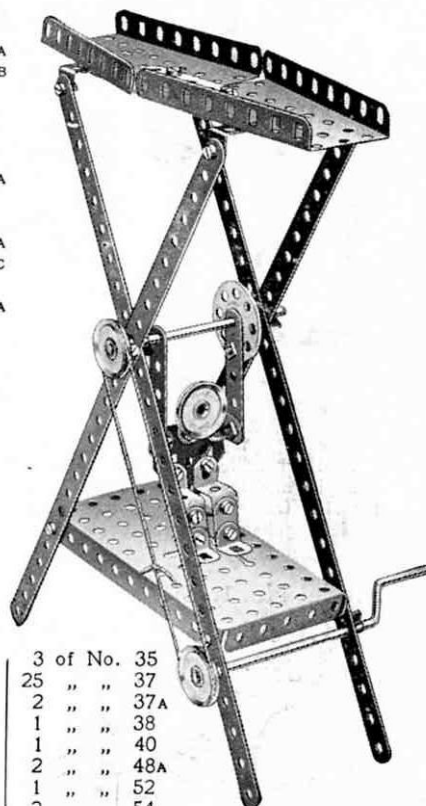
Parts required :

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



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

Model No. 1.137 Gymnast

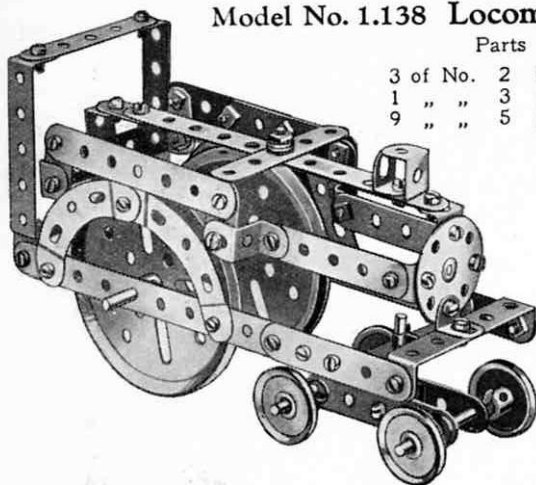
One of the 2½" Strips representing the arms of the gymnast is bolted to a Bush Wheel secured on a 3½" Rod. When the Crank Handle is rotated the gymnast turns complete somersaults in a very amusing manner. The gymnast's "arms" must be pivoted to the Angle Brackets forming his shoulders by means of Bolts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

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

Model No. 1.138 Locomotive

Parts required:

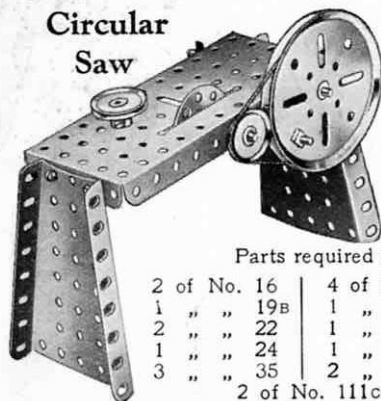
3 of No. 2	5 of No. 10
1 " " 3	2 " " 11
9 " " 5	6 " " 12
	3 " " 16
	1 " " 18A
	2 " " 19B
	4 " " 22
	1 " " 24
	8 " " 35
	36 " " 37
	6 " " 37A
	6 " " 38
	1 " " 48
	6 " " 48A
	4 " " 90A
	6 " " 111c
	2 " " 125



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

Model No. 1.139

Circular Saw



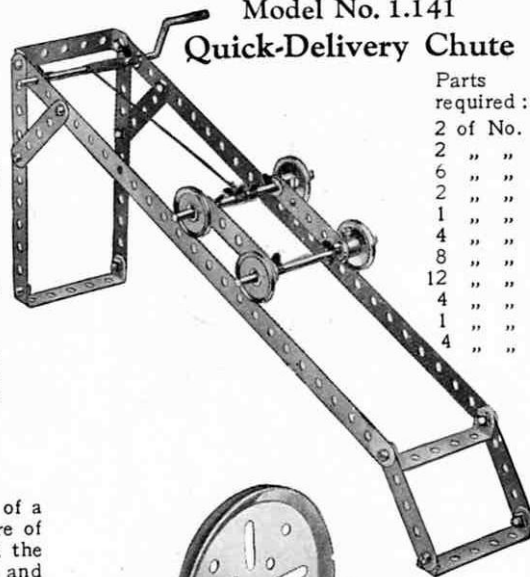
Parts required:

2 of No. 16	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. 1.141 Quick-Delivery Chute

Parts required:

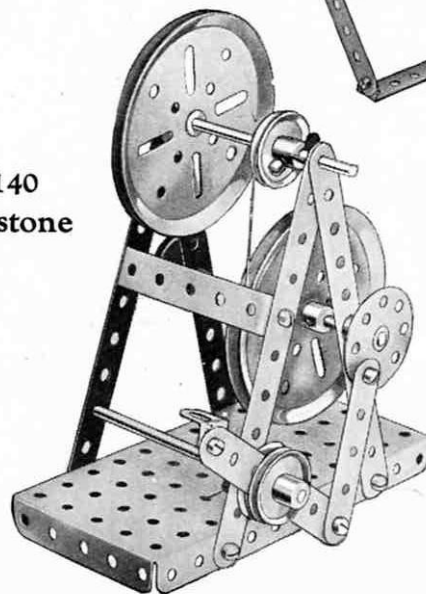
2 of No. 1	
2 " " 2	
6 " " 5	
2 " " 16	
1 " " 19s	
4 " " 22	
8 " " 35	
12 " " 37	
4 " " 38	
1 " " 40	
4 " " 48A	



Model No. 1.140 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	

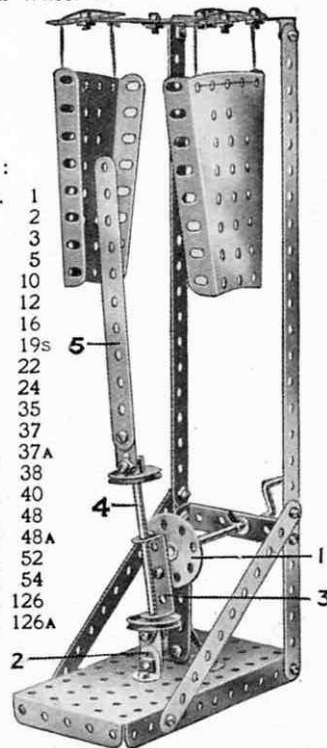


Model No. 1.142 Mechanical Gong

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

Parts required:

2 of No. 1	
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	



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

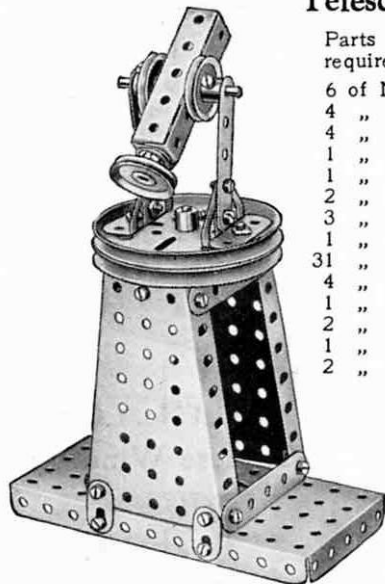
61

Model No. 1.143

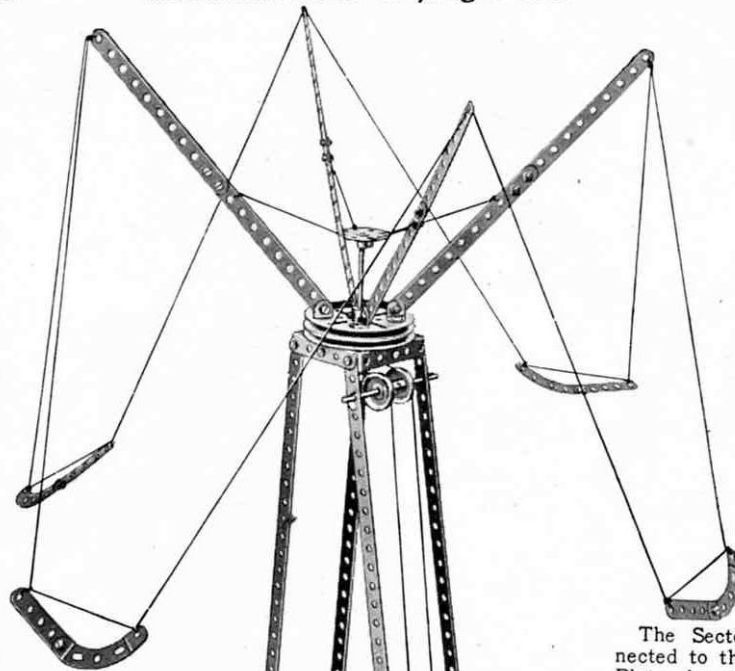
Telescope

Parts
required :

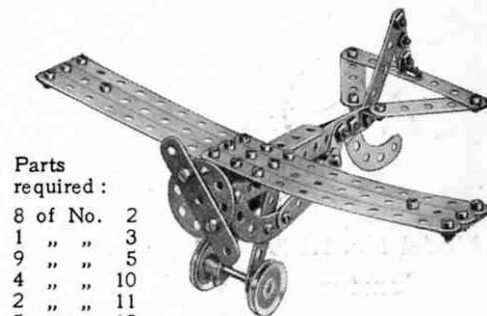
6 of No.	5
4 " "	10
4 " "	12
1 " "	17
1 " "	18A
2 " "	19B
3 " "	22
1 " "	35
31 " "	37
4 " "	48A
1 " "	52
2 " "	54
1 " "	111c
2 " "	126



Model No. 1.145 Flying Boats



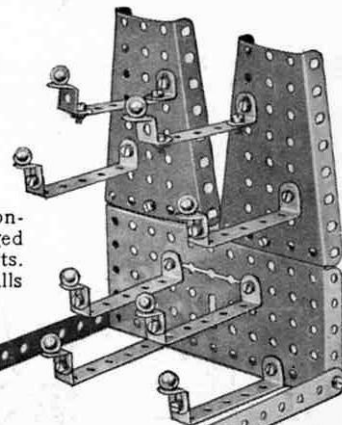
Model No. 1.146 Aeroplane



Parts
required :

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

Model No. 1.147
Coco-nut Shy



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

Model No. 1.144 Sedan Chair

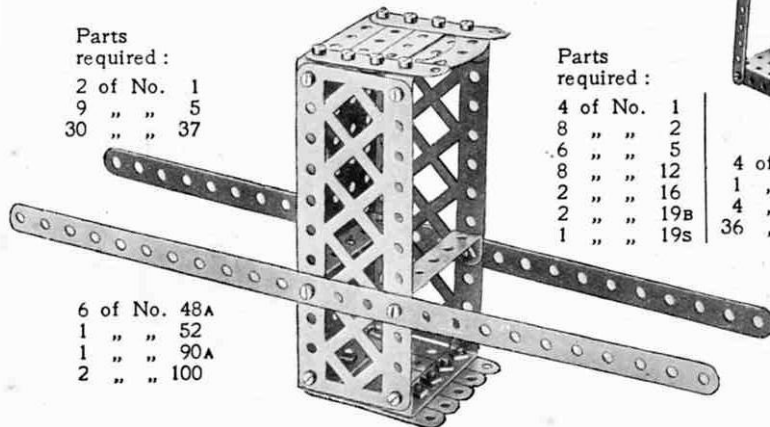
Parts
required :

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

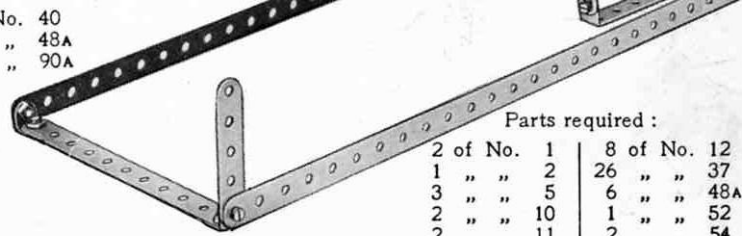
Parts
required :

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



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



Parts required :

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

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

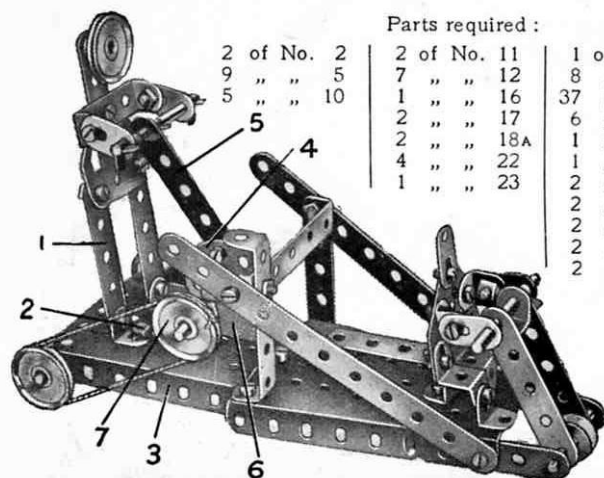
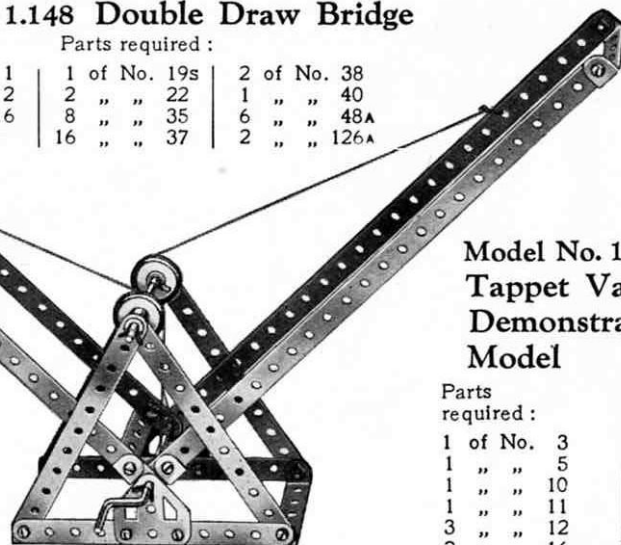
Model No. 1.148 Double Draw Bridge

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 journaled in the Cranked Bent Strip 6, the 1" fast Pulley 7 being connected to the road wheel by a cord as shown.



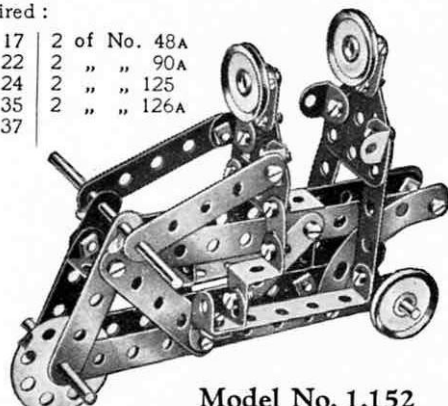
Parts required :

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

Model No. 1.151 Motor Cyclist and Pillion Rider

Parts required :

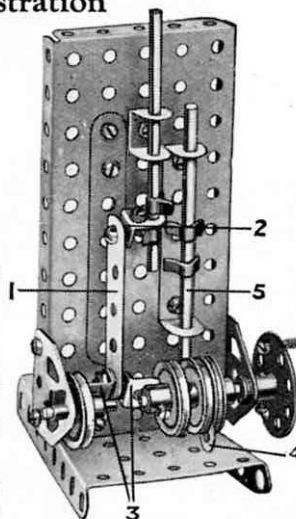
4 of No. 2	2 of No. 17	2 of No. 48A
9 " " 5	4 " " 22	2 " " 90A
4 " " 10	1 " " 24	2 " " 125
2 " " 11	2 " " 35	2 " " 126A
8 " " 12	30 " " 37	
1 " " 16		



Model No. 1.150 Tappet Valve Demonstration Model

Parts required :

1 of No. 3	1 " " 5
1 " " 10	1 " " 11
1 " " 12	2 " " 16
1 " " 17	1 " " 18A
4 " " 22	1 " " 24
1 " " 24	5 " " 35
5 " " 37	15 " " 37A
5 " " 37A	4 " " 38
4 " " 38	1 " " 48A
1 " " 52	1 " " 54
1 " " 54	2 " " 111c
2 " " 111c	2 " " 125
2 " " 125	2 " " 126A

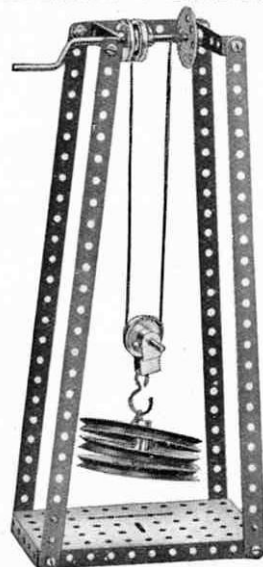


The upper end of the Strip 1 is connected pivotally by a Bolt and two Nuts to the crosshead bracket 2. The crankshaft is built up as follows: Two Angle Brackets 3 are each secured rigidly to the boss of a Pulley Wheel and are connected to each other by a ½" Bolt carrying three Nuts. The Nuts are screwed 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. 1.152 Chinese Windlass

Parts required :

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

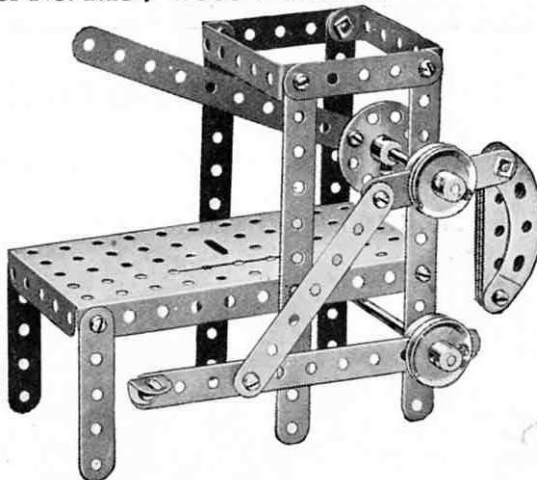


These Models can be built with MECCANO Outfit No. 1 (or No. 0 and No. 0A)

Model No. 1.154 Foot Hammer

Parts
required:

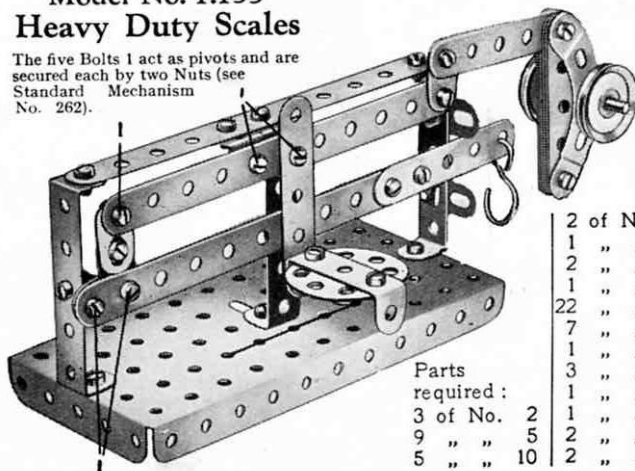
6 of No.	2
1 " "	3
9 " "	5
1 " "	12
2 " "	16
4 " "	22
1 " "	24
2 " "	35
15 " "	37
4 " "	37A
2 " "	38
2 " "	48A
1 " "	52
4 " "	90A
2 " "	111c



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

Model No. 1.155 Heavy Duty Scales

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



Parts
required:

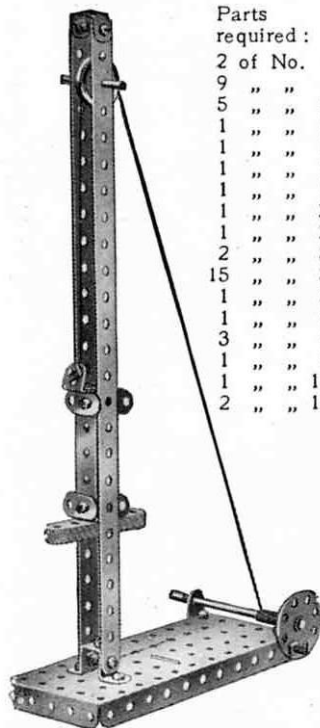
3 of No.	2
9 " "	5
5 " "	10

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

Model No. 1.153 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



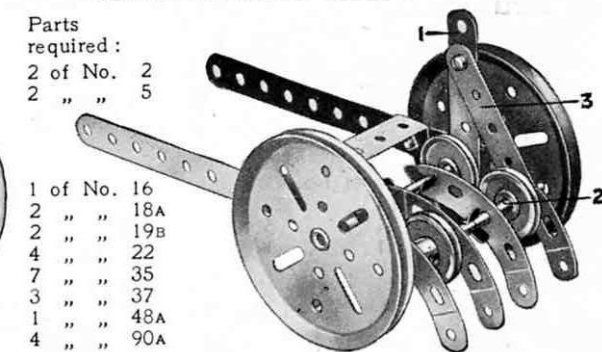
The winding cord is passed round the Pulley at the top of the model and is fastened to an Angle Bracket that is hooked under the protruding portion of a Flat Bracket bolted to the top of the driving head. When the Angle Bracket reaches the Pulley at the top it is pushed out a little, thus releasing the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

Model No. 1.156 Horse Rake

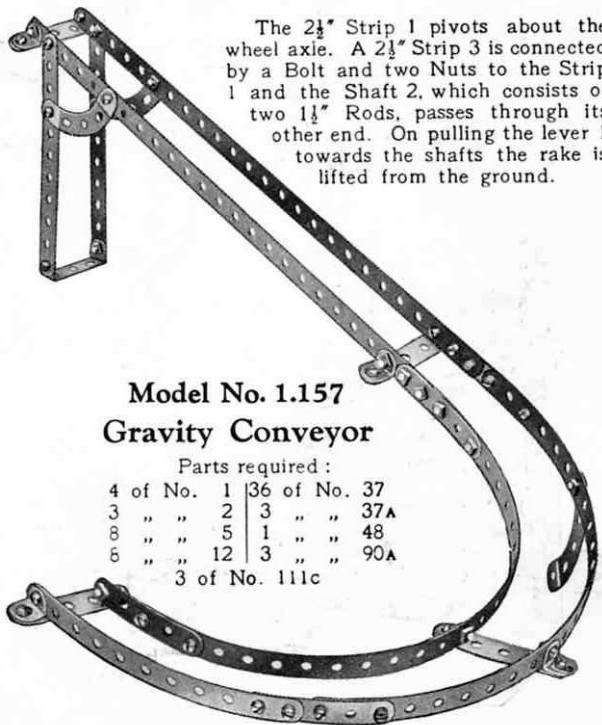
Parts
required:

2 of No.	2
2 " "	5

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



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



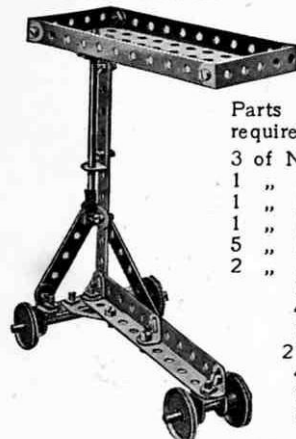
Model No. 1.157 Gravity Conveyor

Parts required:

4 of No.	1	36 of No.	37
3 " "	2	3 " "	37A
8 " "	5	1 " "	48
6 " "	12	3 " "	90A
3 of No. 111c			

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

Model No. 1.158 Bed Table



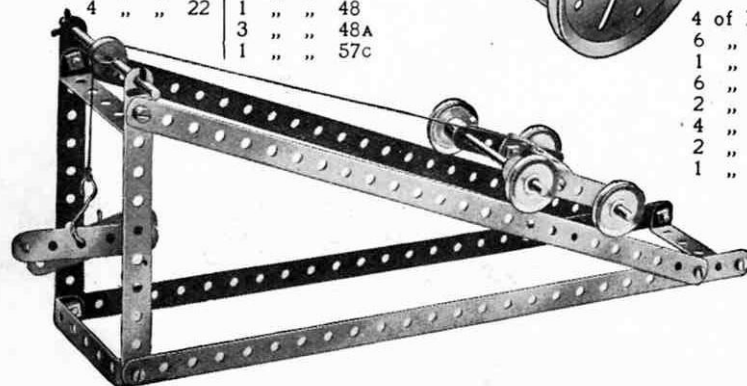
Parts required :

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 " "	57c

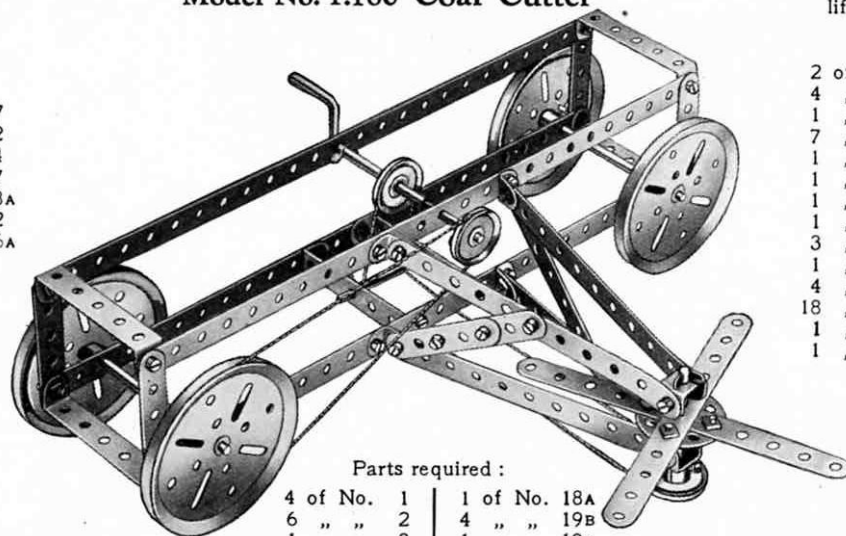


Model No. 1.161 Shepherd's Crook

Parts required :

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

Model No. 1.160 Coal Cutter



Parts required :

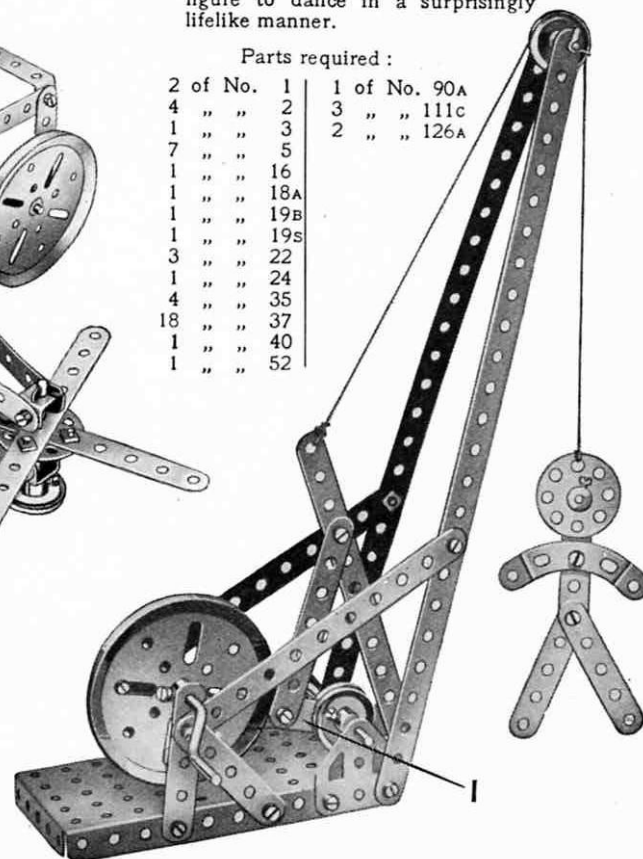
4 of No.	1	1 of No.	18A
6 " "	2	4 " "	19B
1 " "	3	1 " "	19S
6 " "	5	3 " "	22
2 " "	11	1 " "	24
4 " "	12	5 " "	35
2 " "	16	32 " "	37
1 " "	17	1 " "	40
		6 of No.	48A

Model No. 1.162 Meccano Dancer

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

Parts required :

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

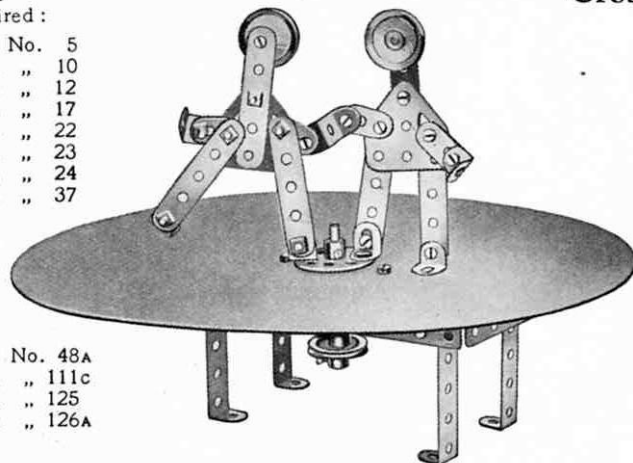


These Models can be built with MECCANO Outfit No. 1 (or No. 0 and No. 0A)

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

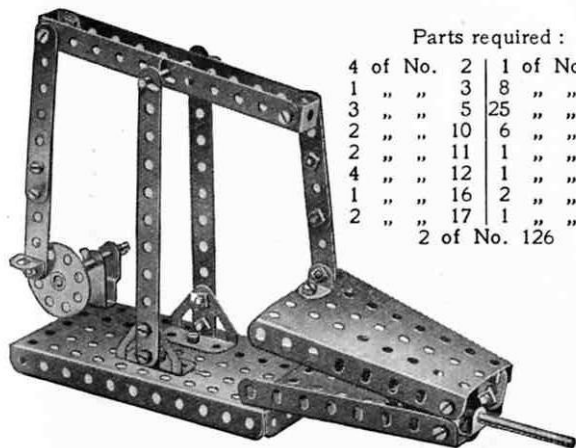


4 of No.	48A
2 " "	111c
1 " "	125
2 " "	126A

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

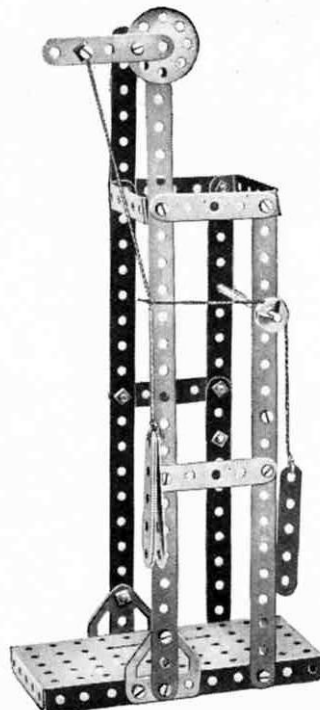


Model No. 1.165

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

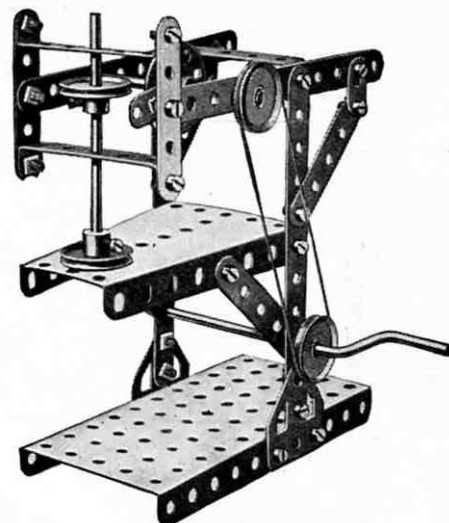


This is an apparatus for determining the forces that act at the crosshead of a reciprocating engine. The upper inclined length of cord represents the connecting rod and the lower, or vertical portion, the piston rod. The pull on the third cord indicates the pressure exerted on the slide bars of the engine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

Model No. 1.166 Drop Stamp

Parts
required :

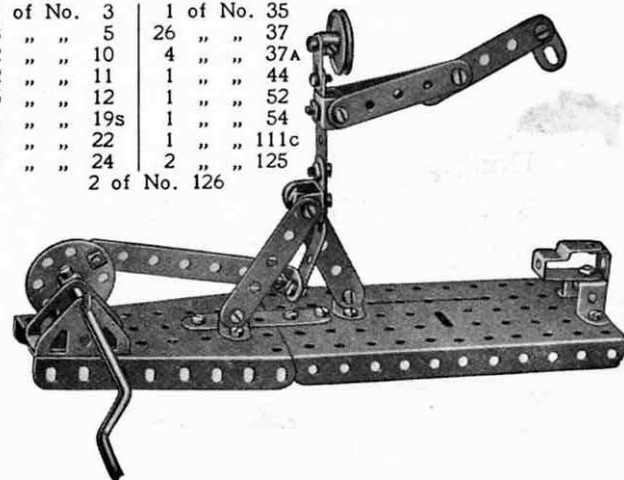
4 of No.	2
6 " "	5
3 " "	10
2 " "	16
1 " "	19s
4 " "	22
1 " "	24
2 " "	35
27 " "	37
1 " "	40
3 " "	48A
1 " "	52
1 " "	54
2 " "	126A



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

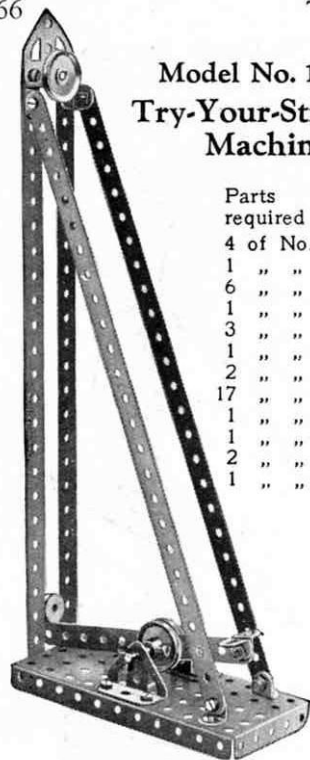


These Models can be built with MECCANO Outfit No. 1 (or No. 0 and No. 0A)

Model No. 1.168 Try-Your-Strength Machine

Parts required :

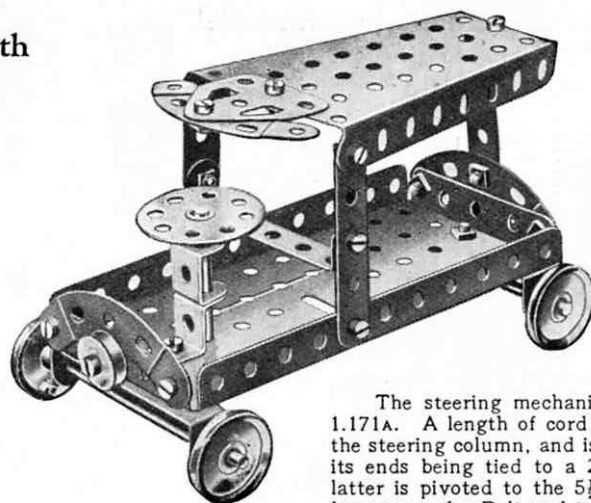
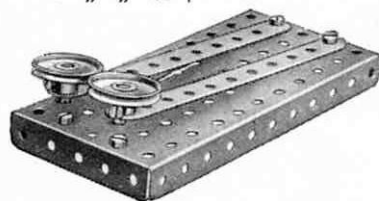
4 of No.	1
1 " "	2
6 " "	12
1 " "	17
3 " "	22
1 " "	23
2 " "	35
17 " "	37
1 " "	52
1 " "	111c
2 " "	126
1 " "	126A



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 $2\frac{1}{2} \times \frac{1}{2}$ " Double Angle Strip. The latter is pivoted to the $5\frac{1}{2} \times 2\frac{1}{2}$ " Flanged Plate of the lorry by means of a Bolt and two Nuts (see Standard Mechanisms Manual. Detail No. 262).

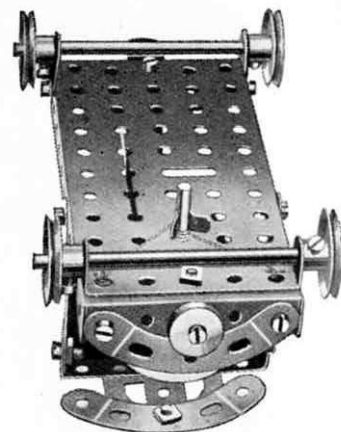
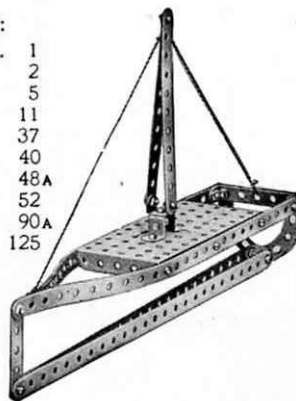


FIG. 1.171A

Model No. 1.170 Boat

Parts required :

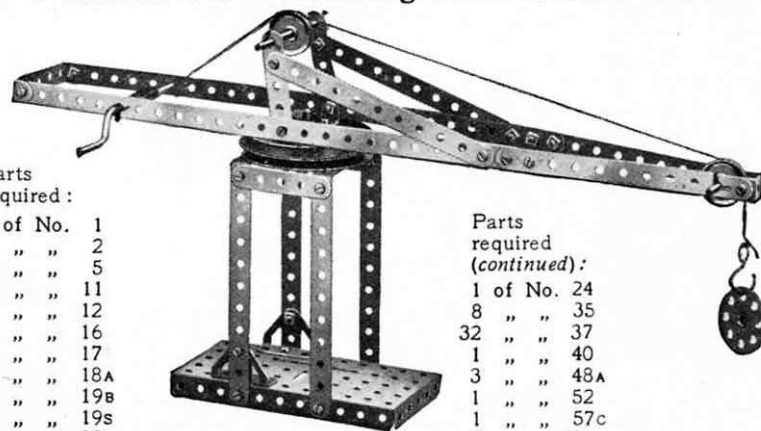
4 of No.	1
2 " "	2
1 " "	5
2 " "	11
21 " "	37
1 " "	40
1 " "	48A
1 " "	52
2 " "	90A
2 " "	125



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

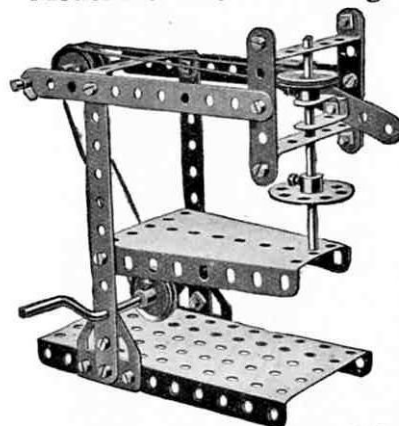


Parts required (continued):

1 of No.	24
8 " "	35
32 " "	37
1 " "	40
3 " "	48A
1 " "	52
1 " "	59c
2 " "	126

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

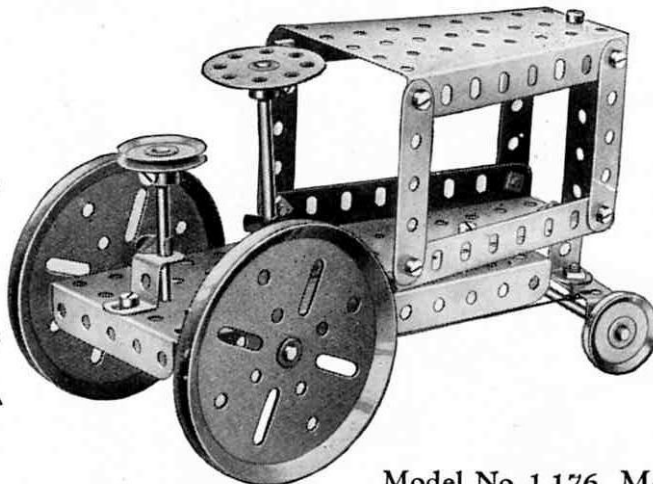
Model No. 1.173 Drilling Machine



Parts required :

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

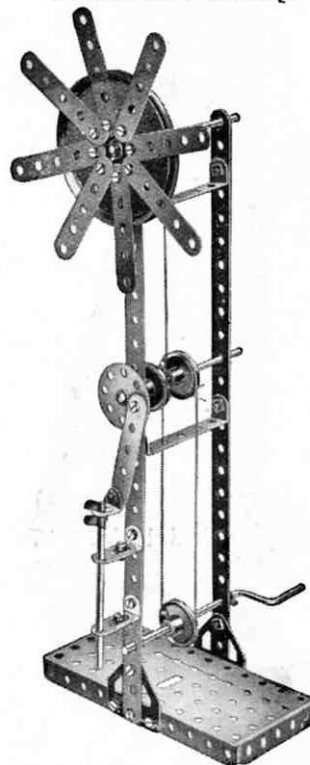
Model No. 1.175 Motor Tractor



Parts required :

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

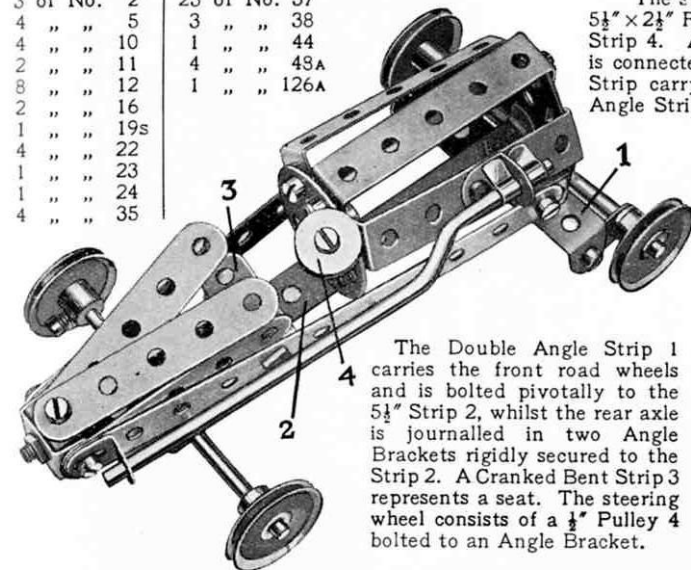
Model No. 1.177 Windmill Pump



Model No. 1.174 Racing Motor Car

Parts required :

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



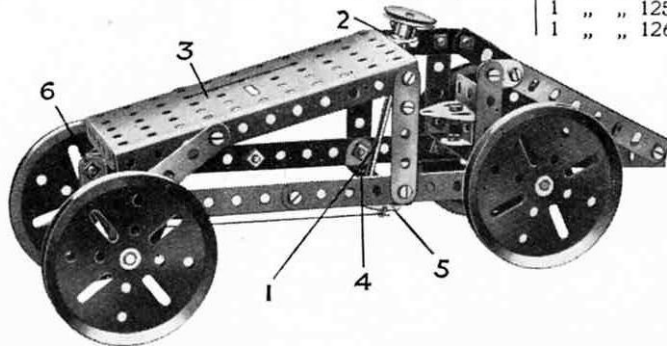
The Double Angle Strip 1 carries the front road wheels and is bolted pivotally to the 5½" Strip 2, whilst the rear axle is journaled in two Angle Brackets rigidly secured to the Strip 2. A Cranked Bent Strip 3 represents a seat. The steering wheel consists of a ½" Pulley 4 bolted to an Angle Bracket.

Model No. 1.176 Motor Car

The steering column 1 is journaled in an Angle Bracket 2 bolted to the 5½" x 2½" Flanged Plate 3, and in the second hole of the 2½" x 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" x 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	4 of No.	48A
7 " "	5	4 " "	19B	2 " "	37A	1 " "	52
1 " "	10	1 " "	22	4 " "	38	2 " "	54
1 " "	11	1 " "	24	1 " "	40	1 " "	111c
						1 " "	125
						1 " "	126

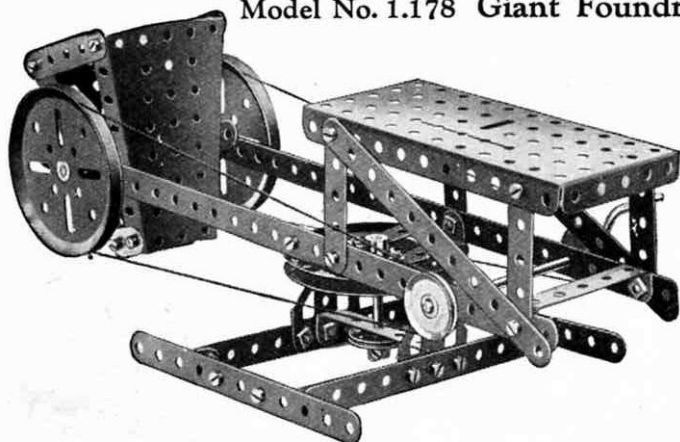


Parts required :

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

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

Model No. 1.178 Giant Foundry Ladle



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

Parts required :

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

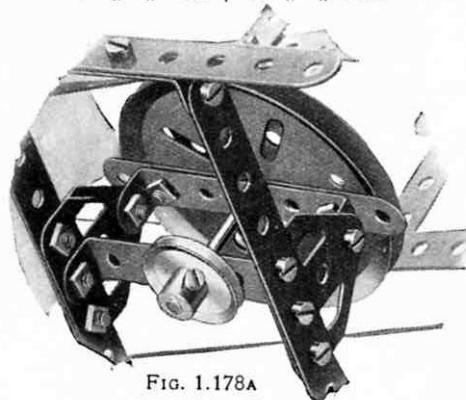
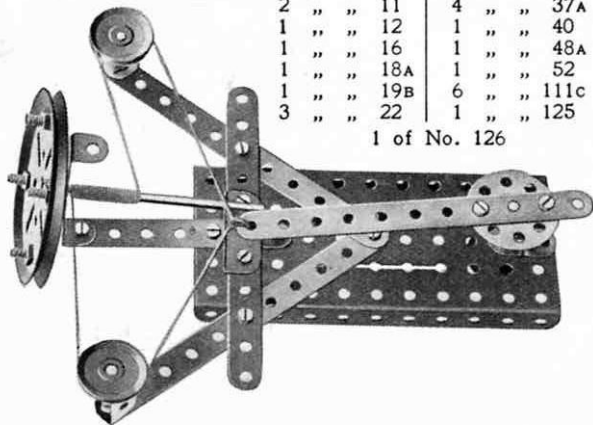


FIG. 1.178A

Model No. 1.179 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	

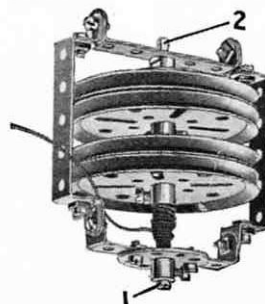


Model No. 1.180 Gyroscope

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 :

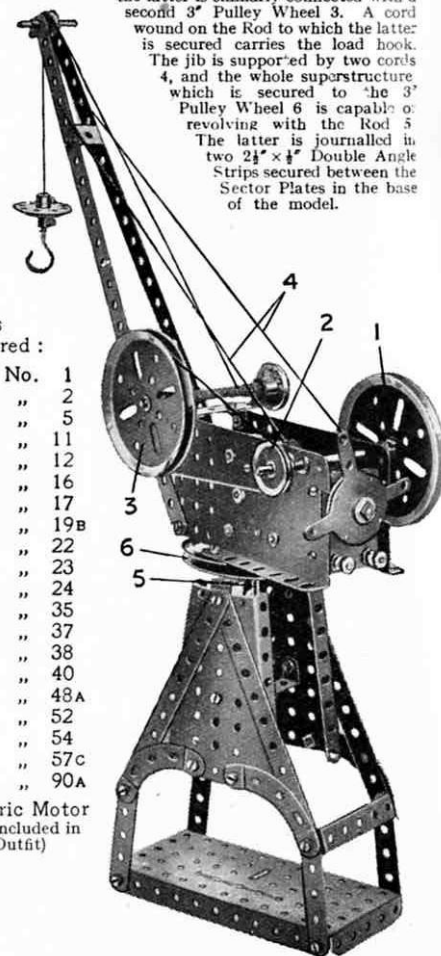
4 of No. 12
1 " " 16
4 " " 19B
1 " " 24
10 " " 37
1 " " 40
4 " " 48A



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 journaled in two $2\frac{1}{2}$ " x $\frac{1}{2}$ " Double Angle Strips secured between the Sector Plates in the base of the model.



Parts required :

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

Electric Motor
(not included in
Outfit)

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

Model No. 1.182 Telpher Span

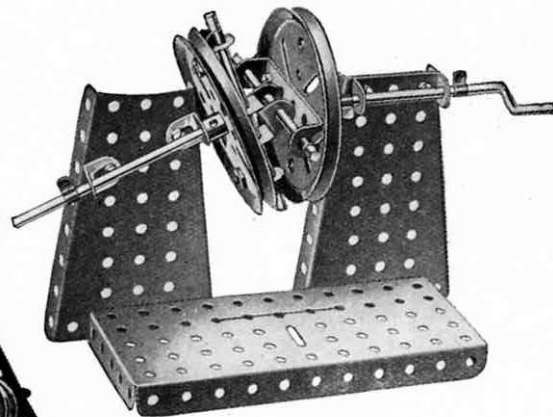
Parts required :

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 " " 57c
		2 " " 126A

Model No. 1.184 Hooke's Coupling

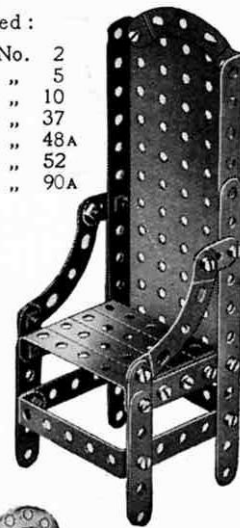
Parts required :

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



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



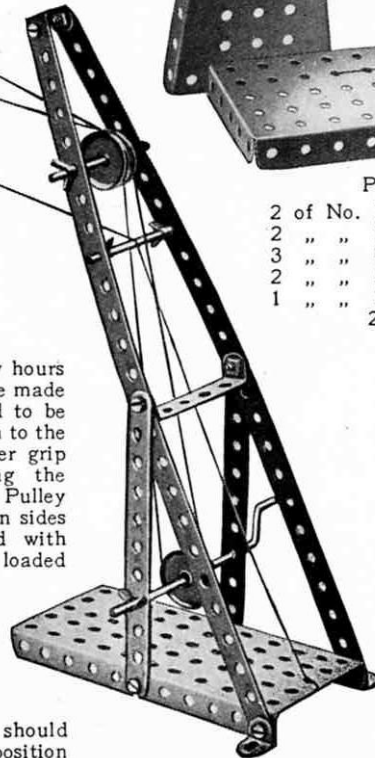
Model No. 1.183 Ladder on Wheels

Parts required :

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



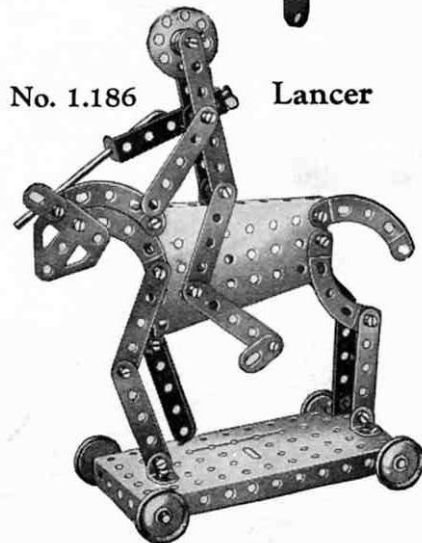
This model will provide many hours of enjoyment. The cords may be made to any length to allow the load to be carried from one side of the room to the other, and, if necessary, a better grip may be obtained by winding the operating cord twice round the Pulley on the Crank Handle. The open sides of the 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.

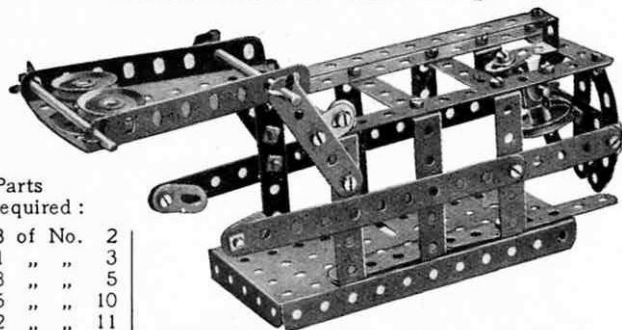


Model No. 1.186 Lancer

Parts required :

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



Model No. 1.187 Rat TrapParts
required :

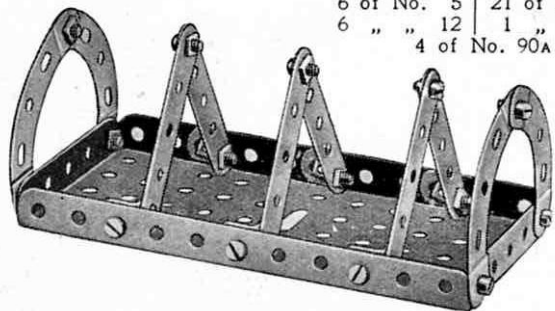
8 of No. 2			
1 " " 3			
8 " " 5			
5 " " 10			
2 " " 11			
6 " " 12	1 of No. 23	1 of No. 38	1 of No. 54
2 " " 16	1 " " 24	1 " " 48	2 " " 90A
1 " " 17	8 " " 35	6 " " 48A	3 " " 111c
3 " " 22	31 " " 37	1 " " 52	

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

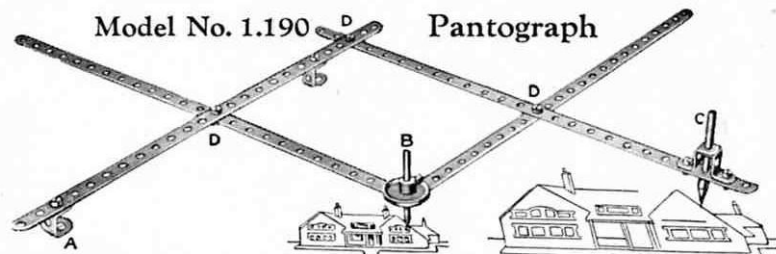
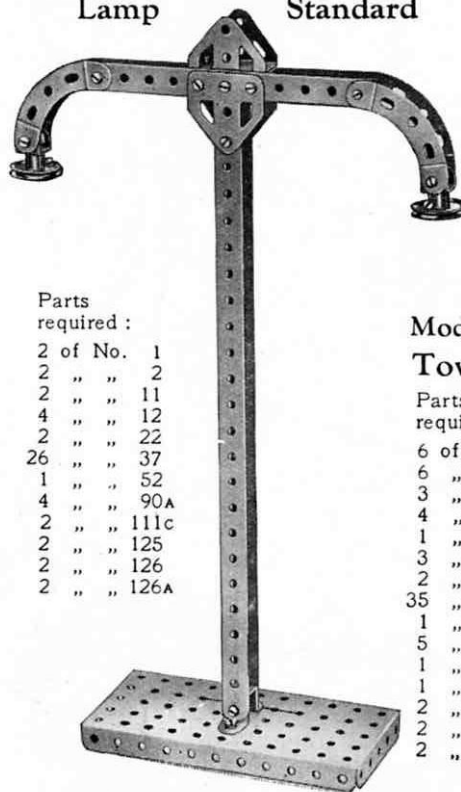
Model No. 1.188 Toast Rack

Parts required :

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

Parts
required :

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

Model No. 1.190 Pantograph**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	

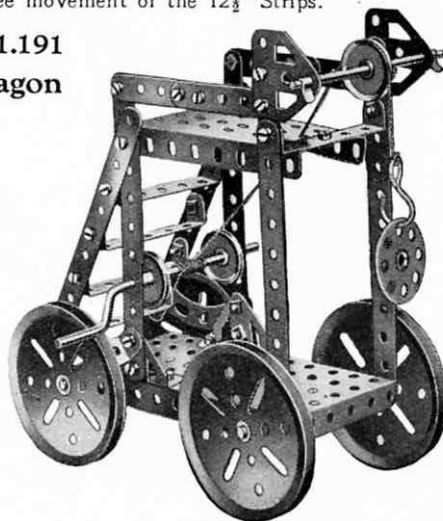
Most boys have heard of the Pantograph but not many have had an opportunity of seeing its principles demonstrated. It is an instrument for copying plans, etc., on the same or on a reduced or enlarged scale.

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

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

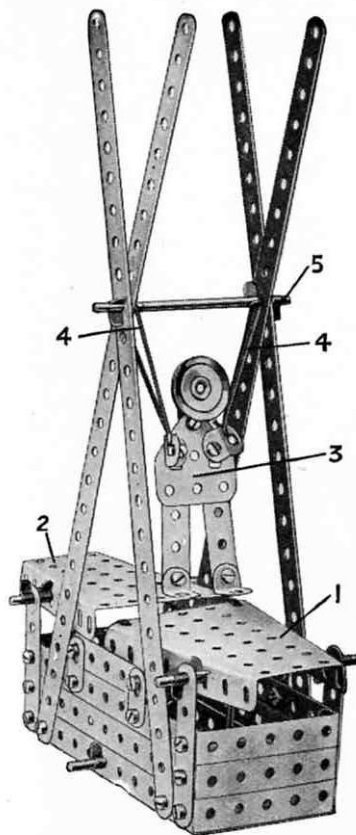
Model No. 1.191**Tower Wagon**Parts
required :

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



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

Model No. 1.192 A Sudden Appearance



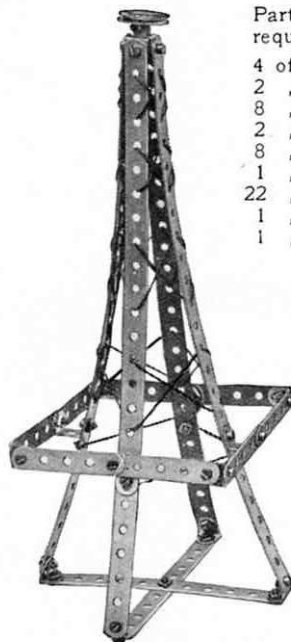
Parts required :

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

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 "Meccanition" 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 $3\frac{1}{2}$ " Axle Rod 5.

Model No. 1.193 Eiffel Tower

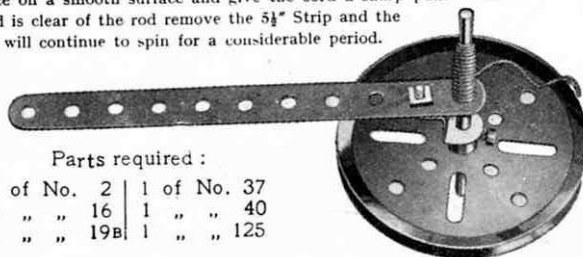


Parts required :

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

Model No. 1.194 Top

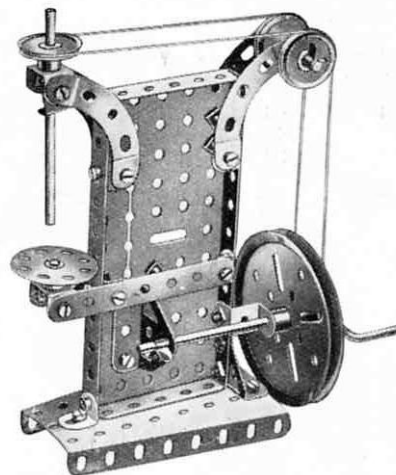
To spin the top wind a length of cord round the rod, as shown, place on a smooth surface and give the cord a sharp pull. When the cord is clear of the rod remove the $5\frac{1}{2}$ " Strip and the top will continue to spin for a considerable period.



Parts required :

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

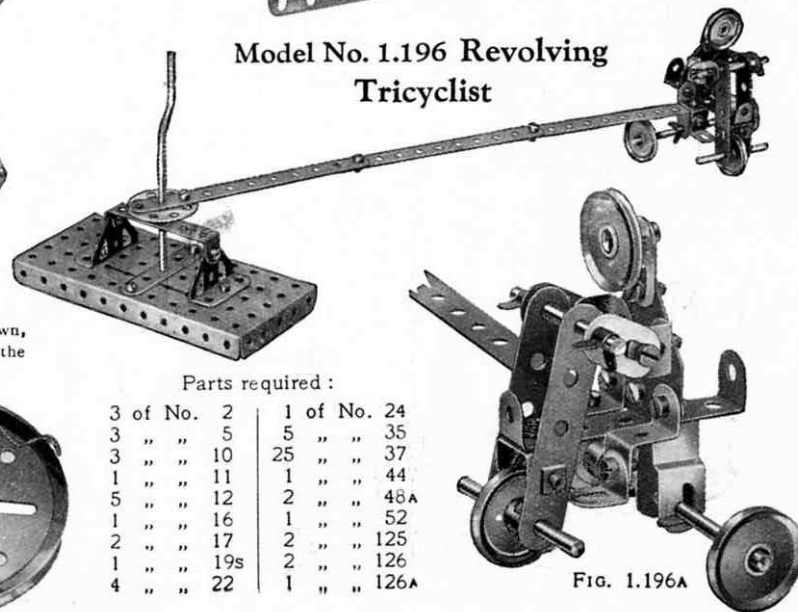
Model No. 1.195 Drill



Parts required :

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

Model No. 1.196 Revolving Tricyclist



Parts required :

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

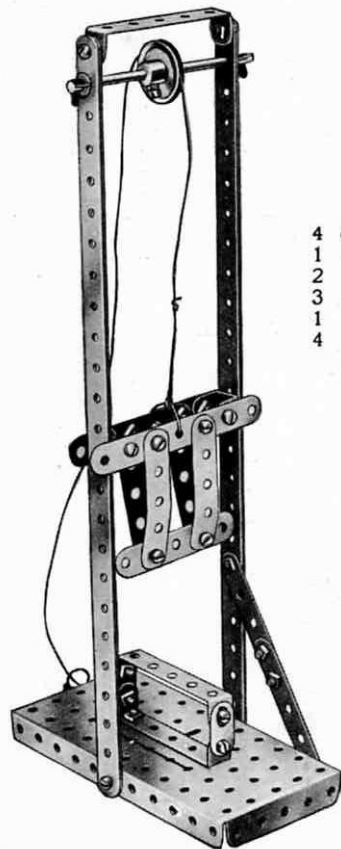
FIG. 1.196A

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

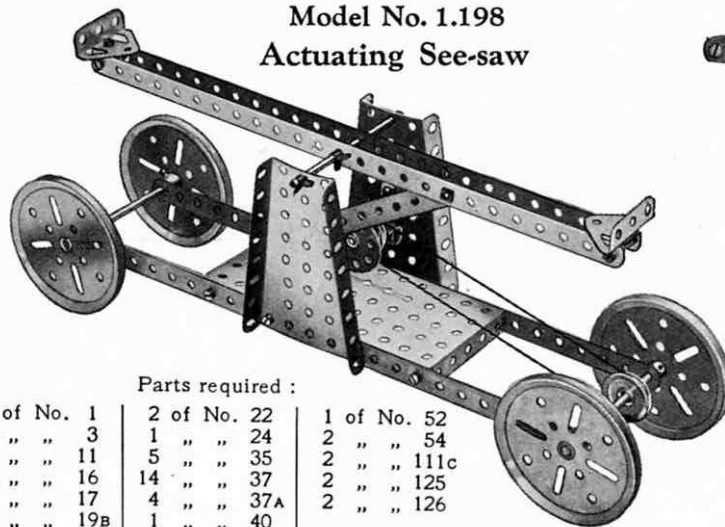
Model No. 1.197 Guillotine

Parts required :

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



Model No. 1.198 Actuating See-saw



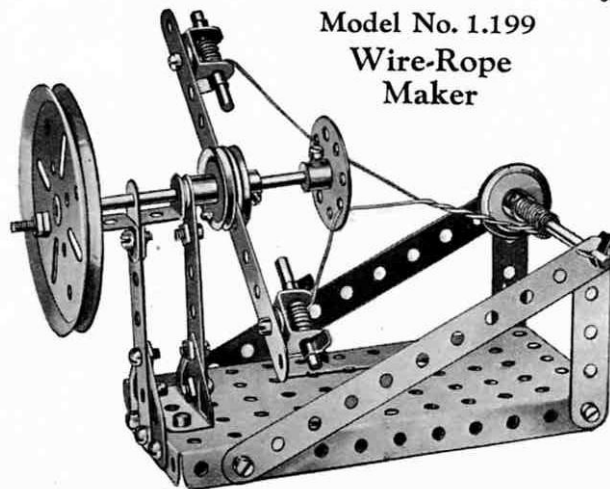
Parts required :

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

Parts
required :

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

Model No. 1.199 Wire-Rope Maker



Model No. 1.200 Coat Hanger



Parts required :

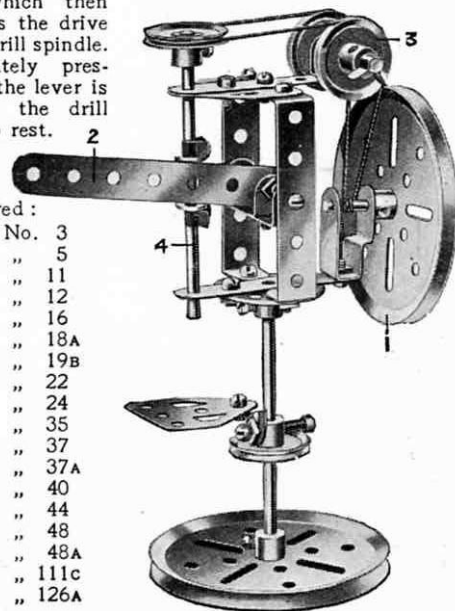
1 of No. 1	2 of No. 5	1 of No. 57c
2 " " 2	6 " " 37	

Model No. 1.201 Automatic Drill

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

Parts
required :

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



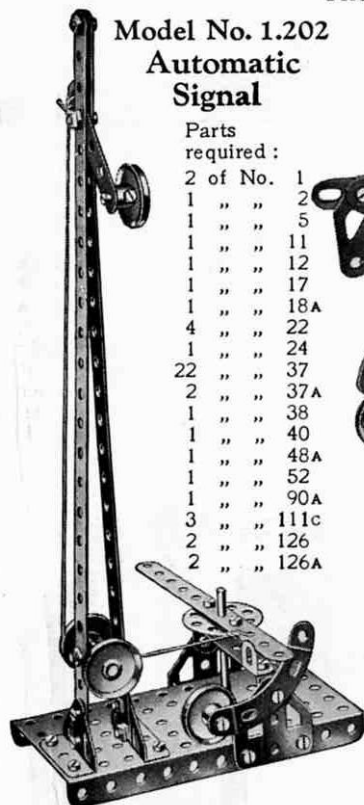
These Models can be built with MECCANO Outfit No. 1 (or No. 0 and No. 0A)

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Model No. 1.202

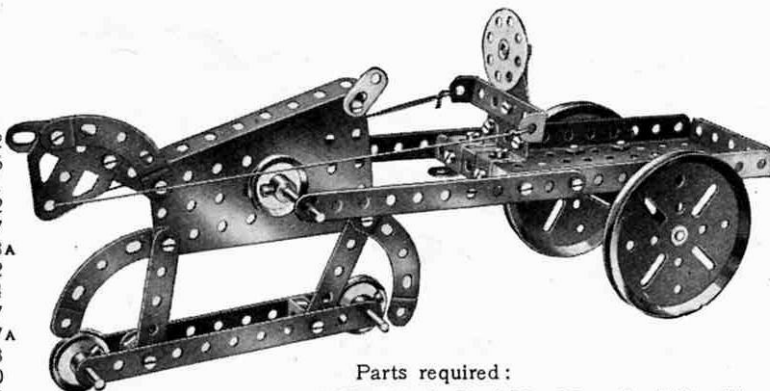
Automatic Signal

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



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

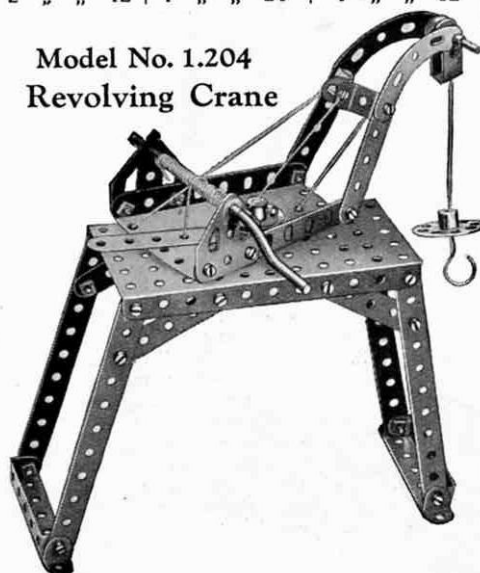
Model No. 1.203 Horse and Cart



Parts required:

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

Model No. 1.204 Revolving Crane

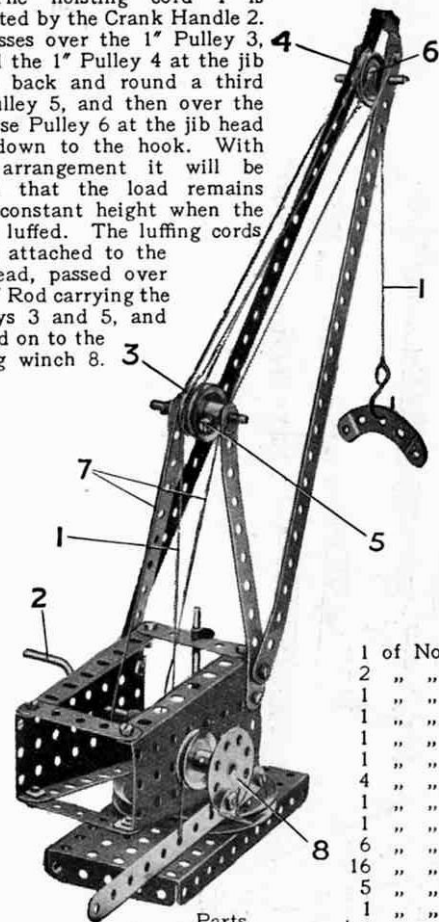


Parts required:

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

Model No. 1.205 Patent Luffing Crane

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



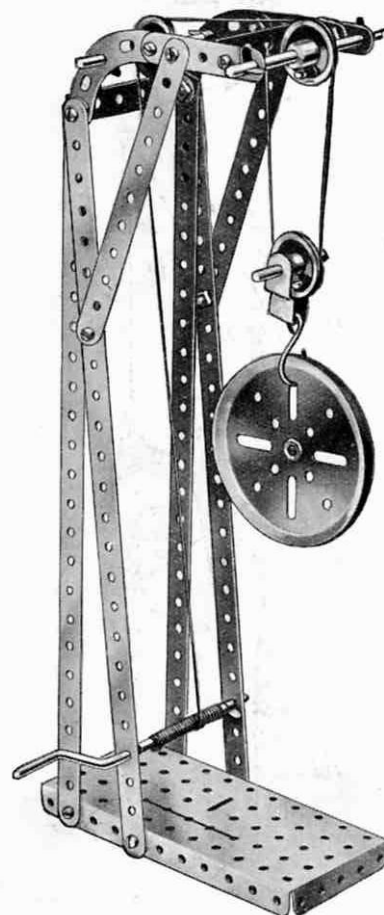
Parts required:

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

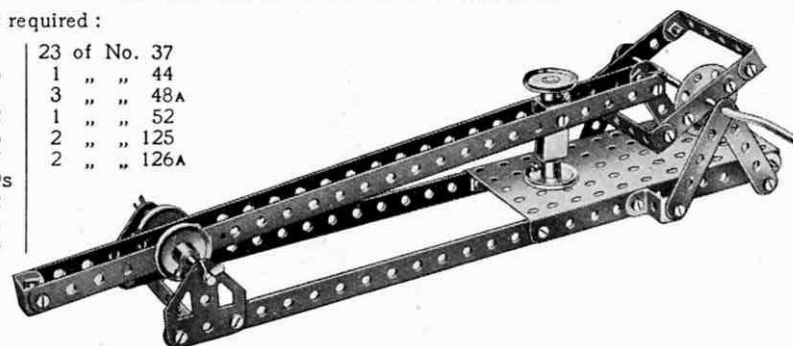
These Models can be built with MECCANO Outfit No. 1 (or No. 0 and No. 0A)

Model No. 1.206 Hoisting Block



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	

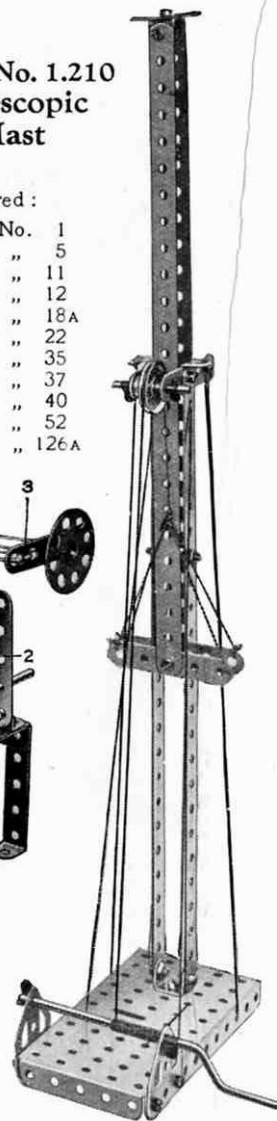


Model No. 1.208 Helve Hammer

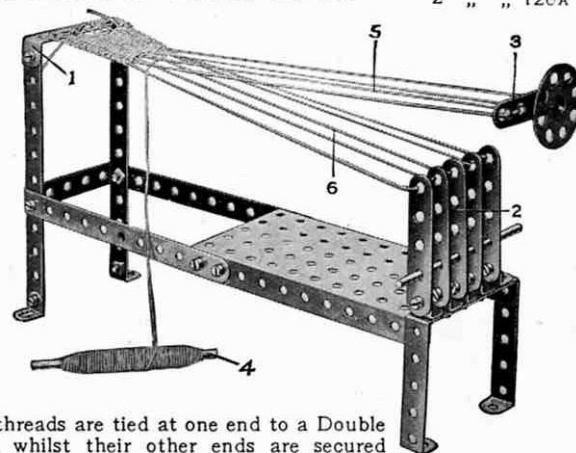
Model No. 1.210 Telescopic Mast

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. 1.209 Hand Loom



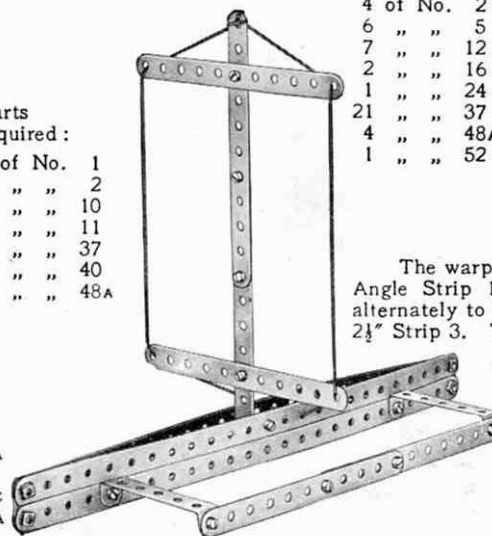
Parts required :

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

Model No. 1.207 Catamaran

Parts required :

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

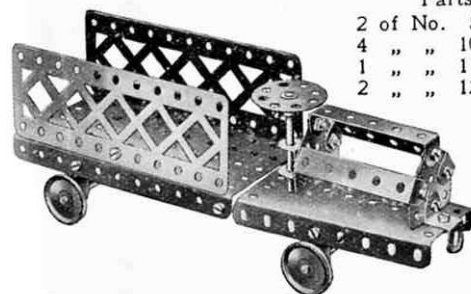


The warp threads are tied at one end to a Double Angle Strip 1, whilst their other ends are secured alternately to the tops of the upright Strips 2, and the 2½" Strip 3. The "shedding" movement of the warp is obtained by moving the Strip 3 up or down each time the shuttle—a 3½" Rod 4—is passed between 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.

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

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

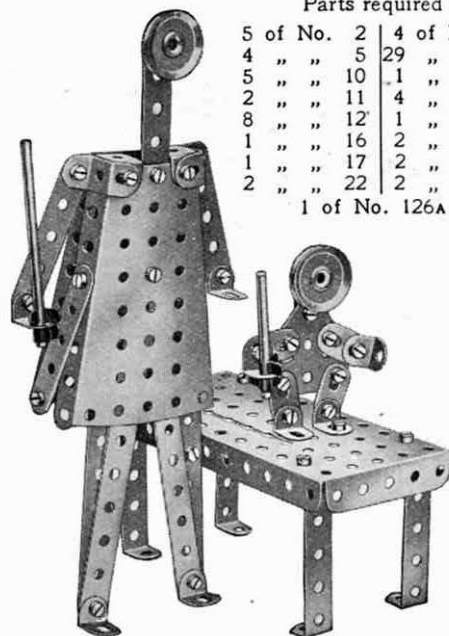
Model No. 1.211 Motor Lorry



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. 1.213 Dignity and Impudence

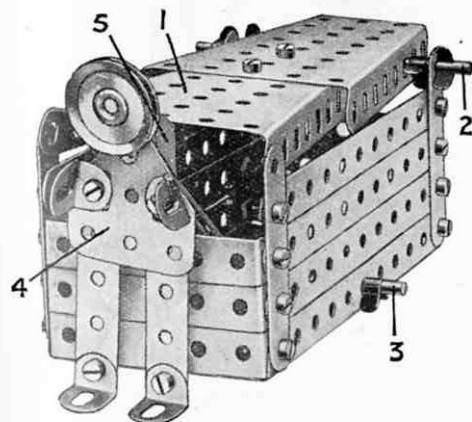


Parts required :

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. 1.212 Disappearing Meccanitian

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



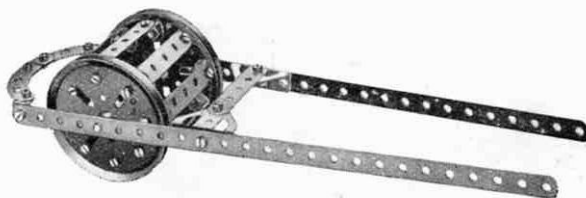
Parts required :

6 of No. 2	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. 1.214 Field Roller

Parts required :

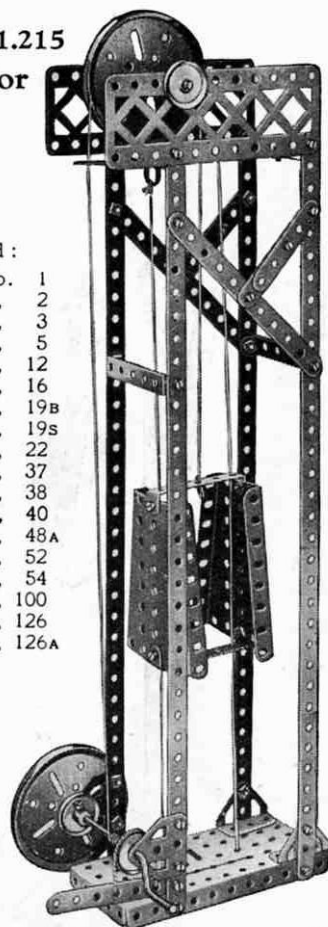
2 of No. 1	1 of No. 16	6 of No. 48A
3 " " 5	2 " " 19B	2 " " 90A
6 " " 12	30 " " 37	2 " " 126



Model No. 1.215 Elevator

Parts required :

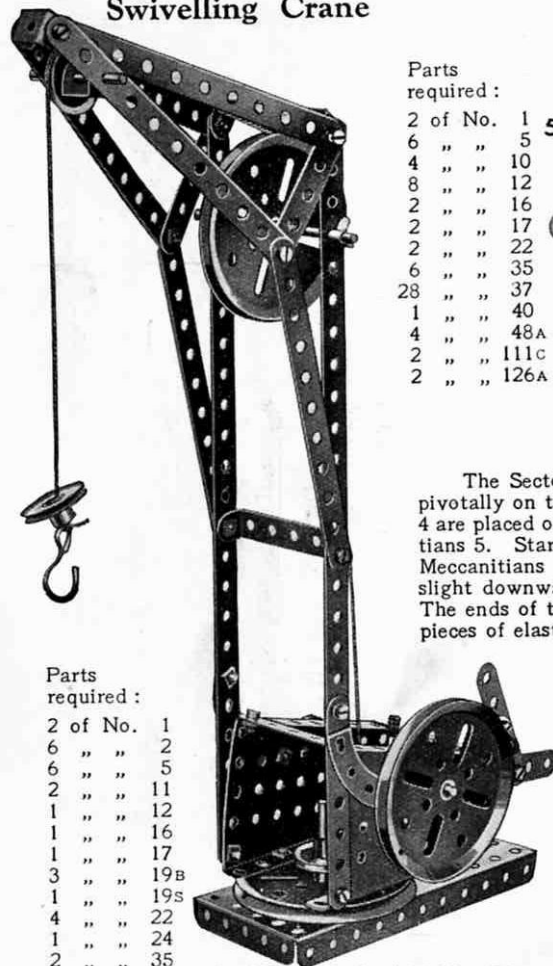
4 of No. 1	
7 " " 2	
1 " " 3	
4 " " 5	
1 " " 12	
1 " " 16	
2 " " 19B	
1 " " 19S	
4 " " 22	
33 " " 37	
3 " " 38	
1 " " 40	
6 " " 48A	
1 " " 52	
2 " " 54	
2 " " 100	
2 " " 126	
2 " " 126A	



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.

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

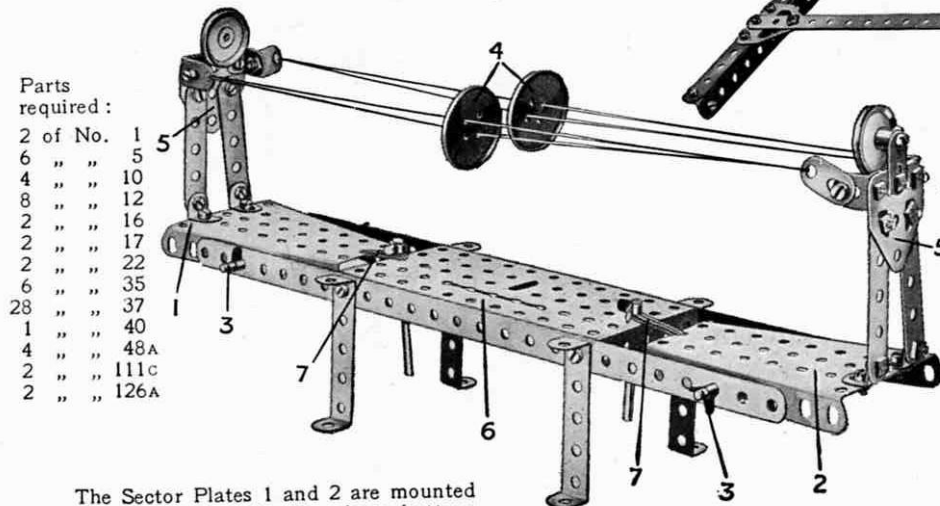
**Model No. 1.216
Swivelling Crane**



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	2 of No.	48A
1 "	37A	1 "	52
1 "	40	2 "	54
		1 of No.	57c
		2 "	90A
		1 "	111c

Model No. 1.217 Spinning Buttons



Parts
required :

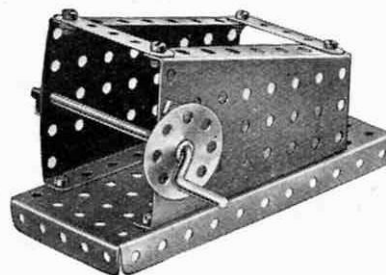
2 of No.	1		
6 "	5		
4 "	10		
8 "	12		
2 "	16		
2 "	17		
2 "	22		
6 "	35		
28 "	37		
1 "	40		
4 "	48A		
2 "	111c		
2 "	126A		

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 Meccanities 5. Start the model as follows: twist the threads a little with your fingers, pull the Meccanities outward, then release them sharply. As soon as the buttons are spinning a slight downward touch on the feet of each Meccanitian is sufficient to keep them going. The ends of the Sector Plates 1 and 2 are connected to the Flanged Plate 6 by means of pieces of elastic 7.

Model No. 1.218 Safety Catch for Winding Gear

Parts
required :

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



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

Model No. 1.219 Large Rake

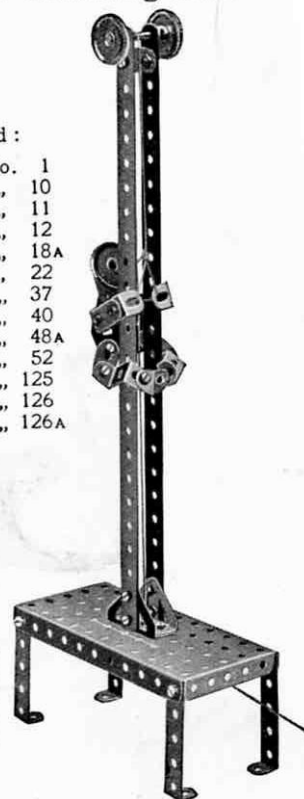
Parts required :

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		

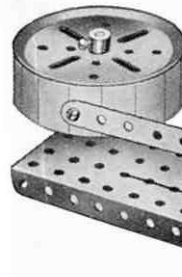


These Models can be built with MECCANO Outfit No. 1 (or No. 0 and No. 0A)

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Model No. 1.221 Seismograph

Parts required :



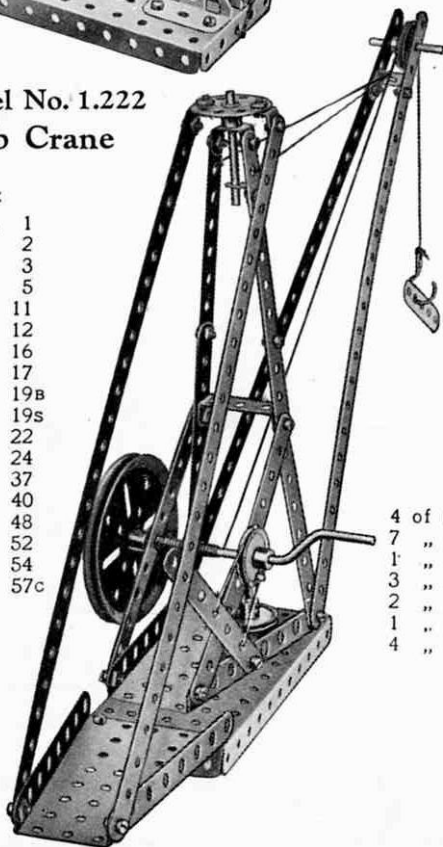
1	of No. 2	6	of No. 37
1	" "	1	" " 37A
1	" "	1	" " 52
1	" "	1	" " 111c
2	" "	2	" " 126

A short length of elastic

Model No. 1.222 Jib Crane

Parts required :

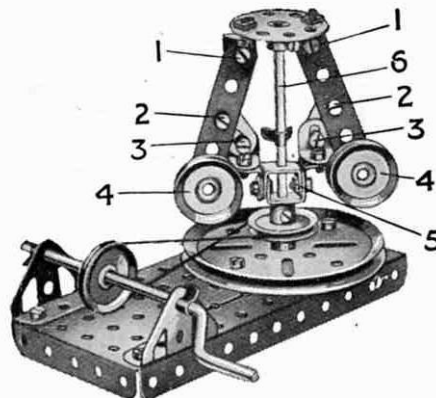
4	of No. 1
6	" " 2
1	" " 3
1	" " 5
2	" " 11
3	" " 12
1	" " 16
2	" " 17
1	" " 19B
1	" " 19s
4	" " 22
1	" " 24
23	" " 37
1	" " 40
1	" " 48
1	" " 52
2	" " 54
1	" " 57c



Model No. 1.223 Centrifugal Governor

Parts required :

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

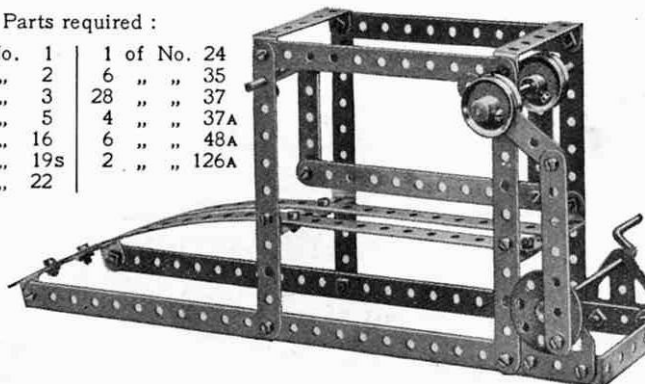


The 3" Pulley Wheel is bolted to the 5½" x 2½" Flanged Plate as shown, and the Rod 6 is free to rotate in its boss. The Bolts 1, 2, 3, are provided with lock-nuts. When the engine to which the governor is attached works at too great a speed, the 1" fast Pulley Wheels 4 fly outward and lift the two Double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

Model No. 1.224 Stone-Sawing Machine

Parts required :

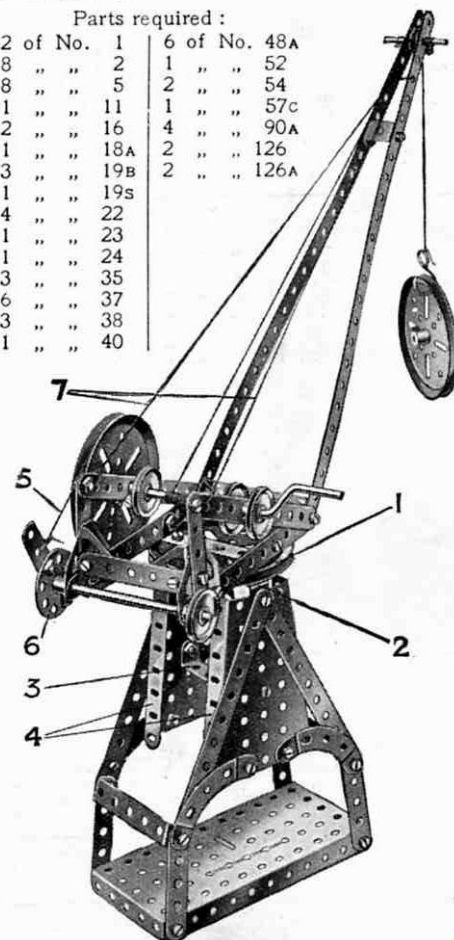
4	of No. 1	1	of No. 24
7	" " 2	6	" " 35
1	" " 3	28	" " 37
3	" " 5	4	" " 37A
2	" " 16	6	" " 48A
1	" " 19s	2	" " 126A
4	" " 22		



Model No. 1.225 Elevated Crane

Parts required :

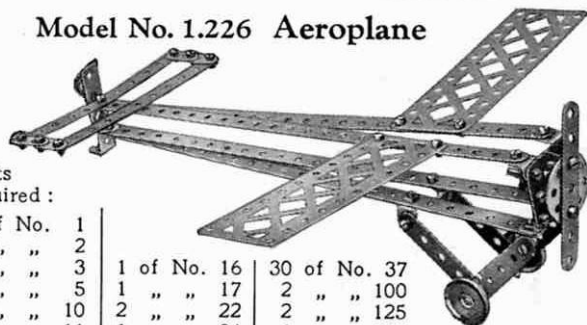
2	of No. 1	6	of No. 48A
8	" " 2	1	" " 52
8	" " 5	2	" " 54
1	" " 11	1	" " 57c
2	" " 16	4	" " 90A
1	" " 18A	2	" " 126
3	" " 19B	2	" " 126A
1	" " 19s		
4	" " 22		
1	" " 23		
1	" " 24		
3	" " 35		
36	" " 37		
3	" " 38		
1	" " 40		



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.

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

Model No. 1.226 Aeroplane



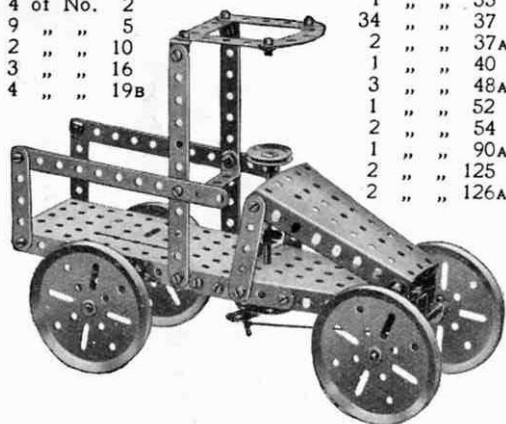
Parts
required :

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

Model No. 1.227 Motor Truck

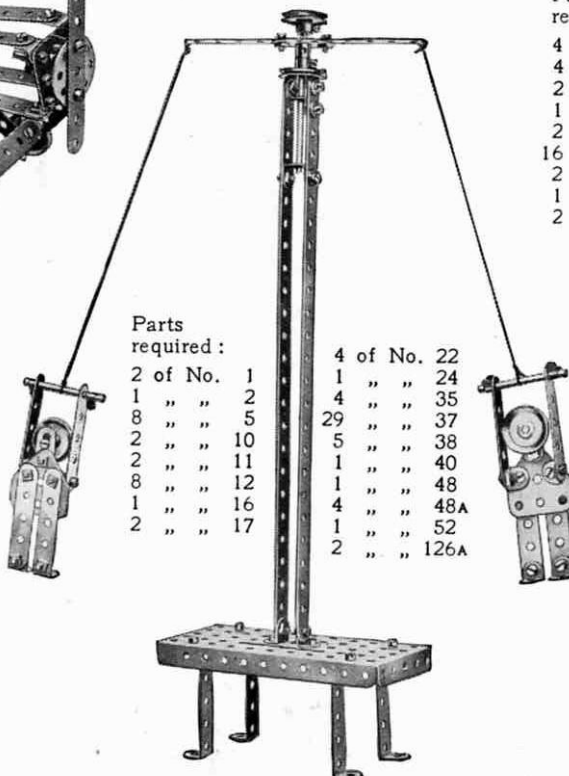
Parts
required :

4 of No. 2
9 " " 5
2 " " 10
3 " " 16
4 " " 19B



1 of No. 22
1 " " 24
1 " " 35
34 " " 37
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
1 " " 2
8 " " 5
2 " " 10
2 " " 11
8 " " 12
1 " " 16
2 " " 17

4 of No. 22
1 " " 24
4 " " 35
29 " " 37
5 " " 38
1 " " 40
4 " " 48
1 " " 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

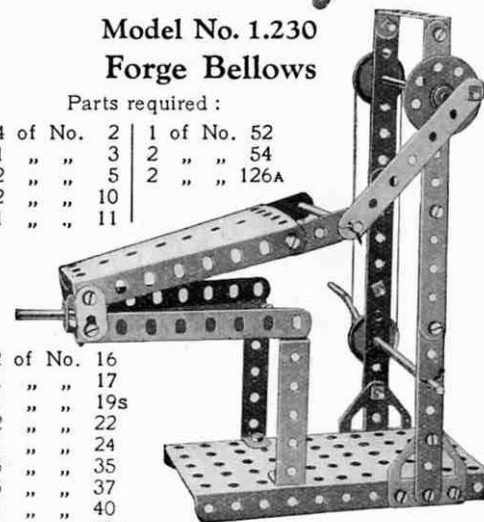


**Model No. 1.230
Forge Bellows**

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



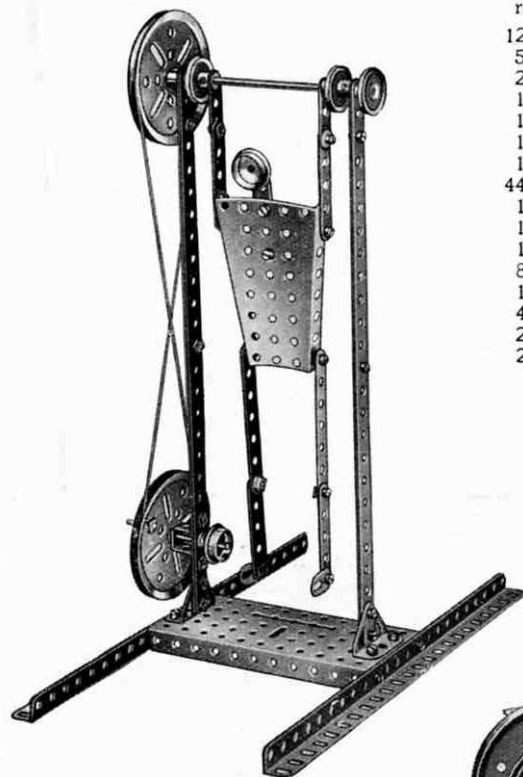
HOW TO CONTINUE

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.

These Models can be built with MECCANO Outfit No. 2 (or No. 1 and No. 1A)

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Model No. 2.1 Acrobat



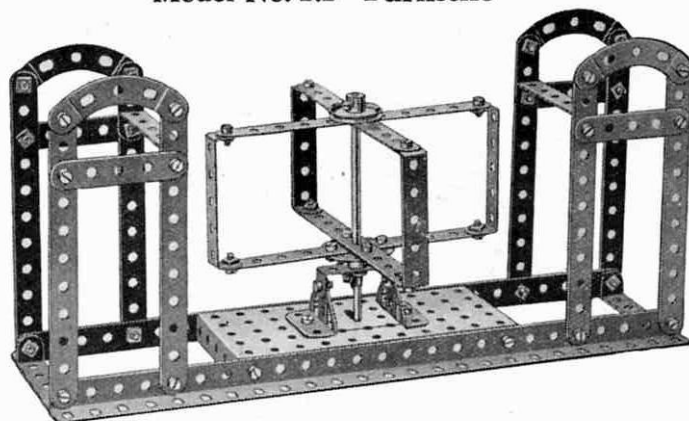
Parts required :

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	

Parts required :

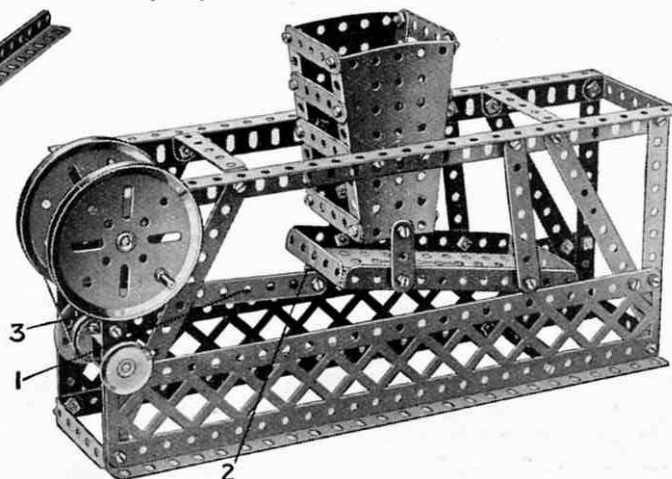
12 of No. 2	5
5 " " 5	8
2 " " 8	15A
1 " " 22	24
1 " " 24	35
1 " " 35	37
44 " " 37	38
1 " " 38	40
1 " " 40	48
1 " " 48	48A
8 " " 48A	52
1 " " 52	90A
4 " " 90A	99
2 " " 99	126

Model No. 2.2 Turnstile



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.



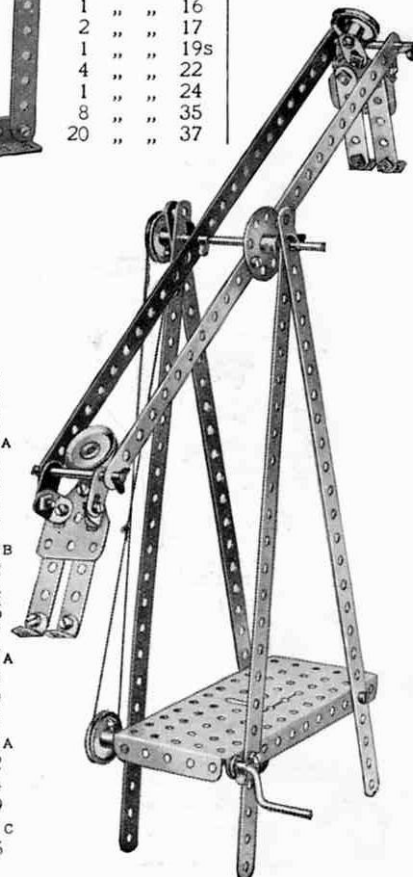
Parts required :

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

Model No. 2.4 Revolving Meccanicians

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	



These Models can be built with MECCANO Outfit No. 2 (or No. 1 and No. 1A)

Model No. 2.5

Easel



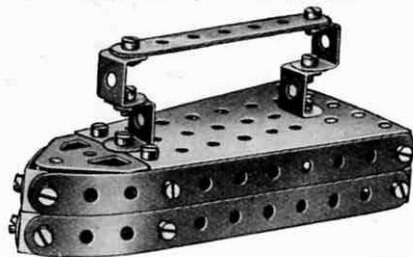
Parts
required :

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

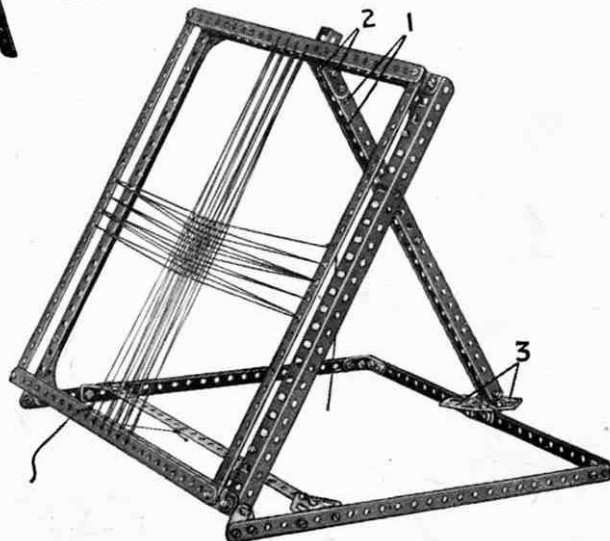
Parts required :

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



Model No. 2.7 Mat Frame

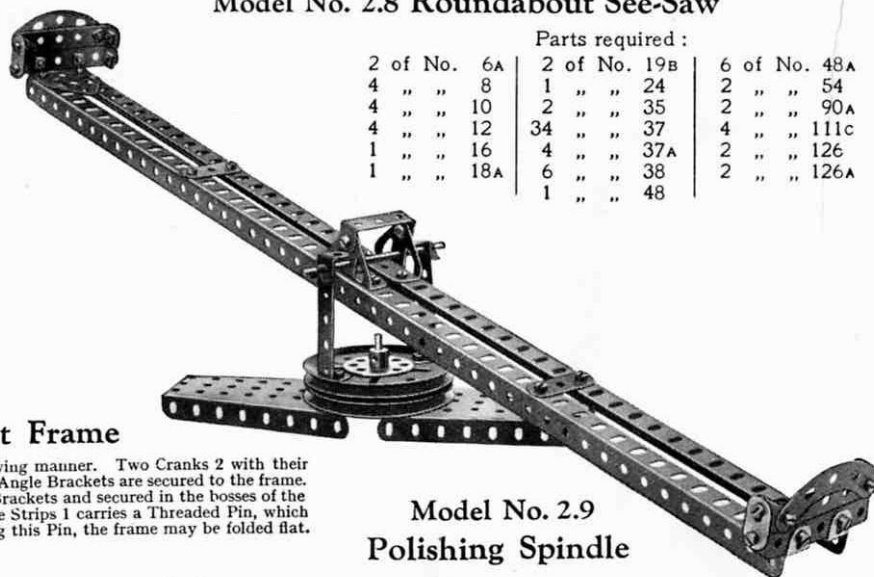
The Strips 1 are hinged to the frame in the following manner. Two Cranks 2 with their bosses facing inward are bolted to the Strips 1 and two Angle Brackets are secured to the frame. A Rod is then pushed through the holes in the Angle Brackets and secured in the bosses of the Cranks. A Double Bracket 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.



Model No. 2.8 Roundabout See-Saw

Parts required :

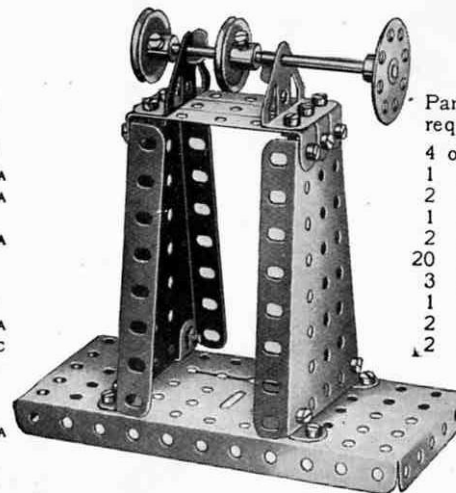
2 of No.	6A	2 of No.	19B	6 of No.	48A
4 " "	8	1 " "	24	2 " "	54
4 " "	10	2 " "	35	2 " "	90A
4 " "	12	34 " "	37	4 " "	111c
1 " "	16	4 " "	37A	2 " "	126
1 " "	18A	6 " "	38	2 " "	126A
		1 " "	48		



Model No. 2.9 Polishing Spindle

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



Parts
required :

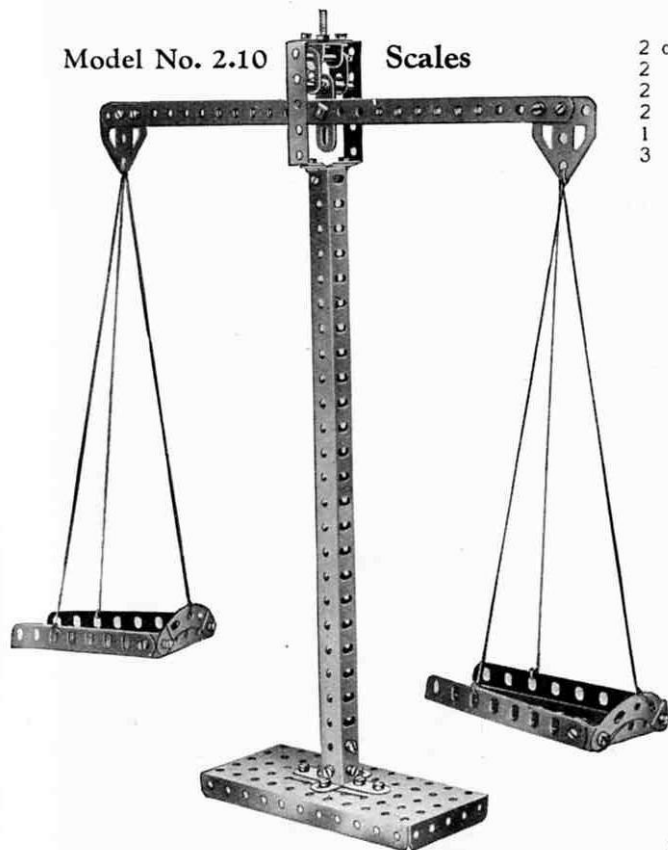
4 of No.	12
1 " "	16
2 " "	22
1 " "	24
2 " "	35
20 " "	37
3 " "	48A
1 " "	52
2 " "	54
2 " "	126

These Models can be built with MECCANO Outfit No. 2 (or No. 1 and No. 1A)

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Model No. 2.10

Scales



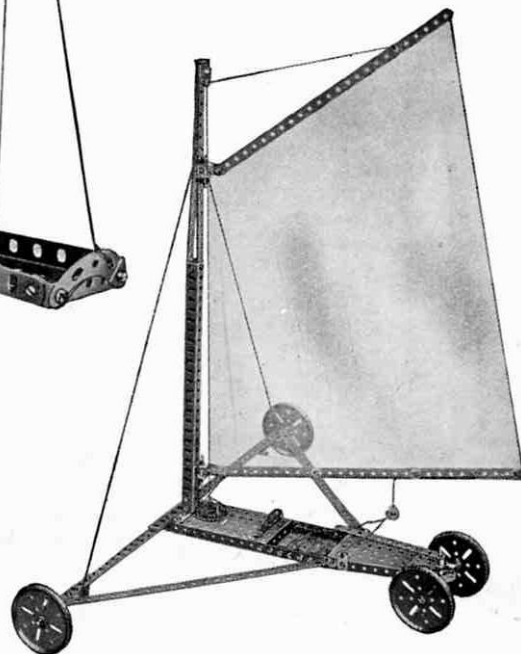
Parts required :		
2 of No. 1	2 of No. 18A	1 of No. 52
1 " " 6A	2 " " 35	2 " " 54
2 " " 8	31 " " 37	2 " " 62
2 " " 10	4 " " 38	2 " " 90A
1 " " 11	1 " " 40	1 " " 115
2 " " 12	1 " " 45	2 " " 126A
2 " " 12A	4 " " 48A	

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 journaled in the end holes of the Double Angle Strip.

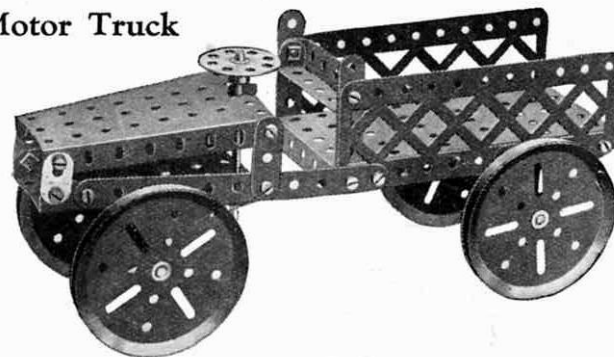
Model No. 2.11 Sand Yacht



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. 2.12 Motor Truck



Model No. 2.13 Towel Horse

Parts required :		
4 of No. 12		
2 " " 22A		
28 " " 37		
2 " " 37A		
8 " " 38		
4 " " 90A		
2 " " 111c		



These Models can be built with MECCANO Outfit No. 2 (or No. 1 and No. 1A)

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 $2\frac{1}{2}$ " Strips bolted to the top rear corners of the

Sector Plates, and by two further $2\frac{1}{2}$ " Strips that are mounted on the axle of the running wheels and bolted to the ends of the lower Angle Girders of the fuselage.

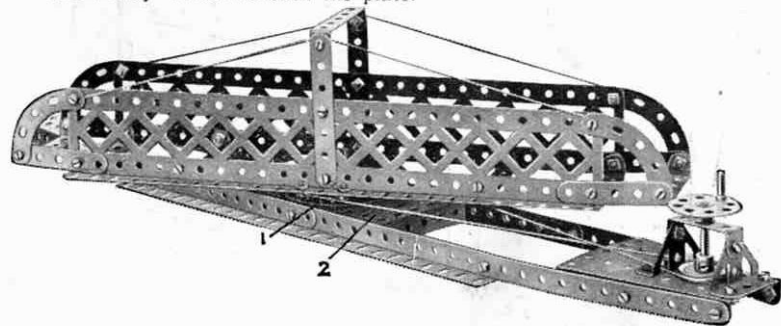
Parts required:

6	of No.	1
9	" "	2
1	" "	3
12	" "	5
2	" "	6A
4	" "	8
5	" "	12
1	" "	15A
1	" "	17
2	" "	20B
2	" "	22
1	" "	24
60	" "	37
4	" "	37A

1	of No.	45	2	of No.	99
1	" "	48	2	" "	100
2	" "	48A	4	" "	111c
2	" "	54	2	" "	126
2	" "	62	2	" "	126A

Model No. 2.15 Turntable

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

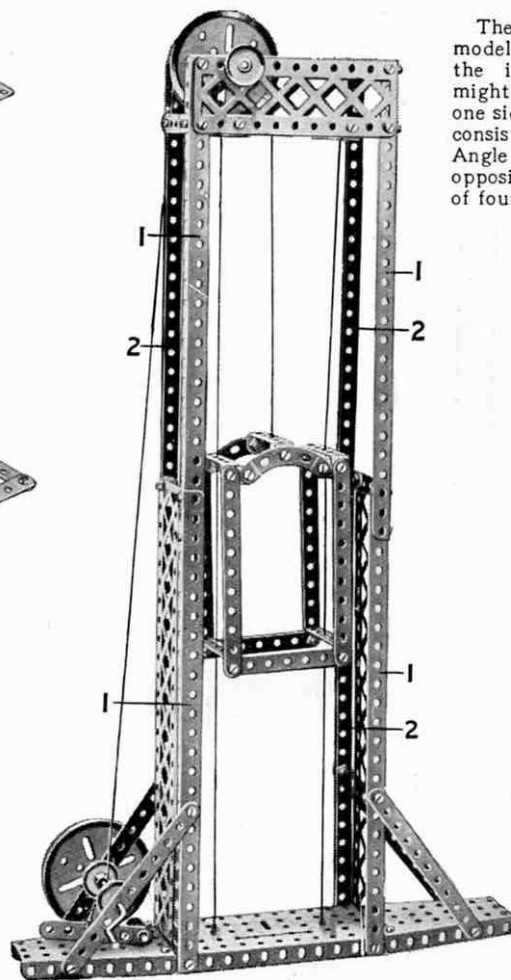


Parts required:

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 $12\frac{1}{2}$ " Angle Girders 1 while the opposite side is composed of four $12\frac{1}{2}$ " Strips 2.



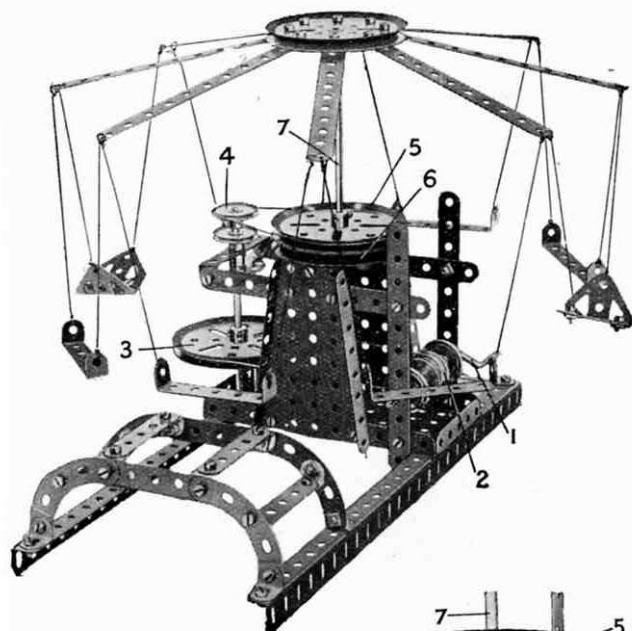
Parts required:

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

These Models can be built with MECCANO Outfit No. 2 (or No. 1 and No. 1A)

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Model No. 2.17 Roundabout



When the Crank Handle is turned, the drum 2 (formed by butting together two $\frac{3}{4}$ " 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.

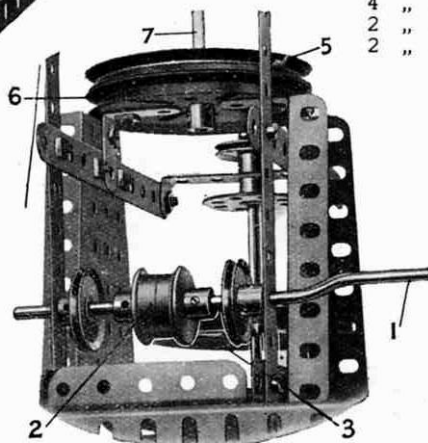


FIG. 2.17A

Parts
required :

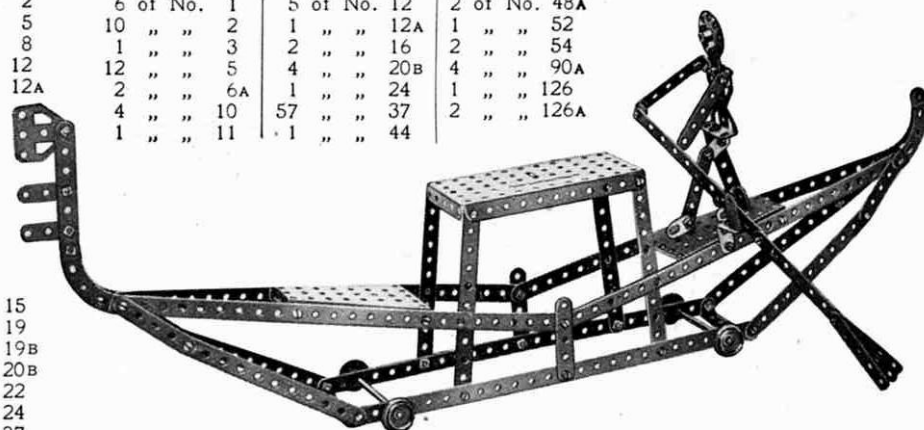
13 of No.	2
6 " "	5
2 " "	8
12 " "	12
2 " "	12A

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

Model No. 2.18 Gondola

Parts required :

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

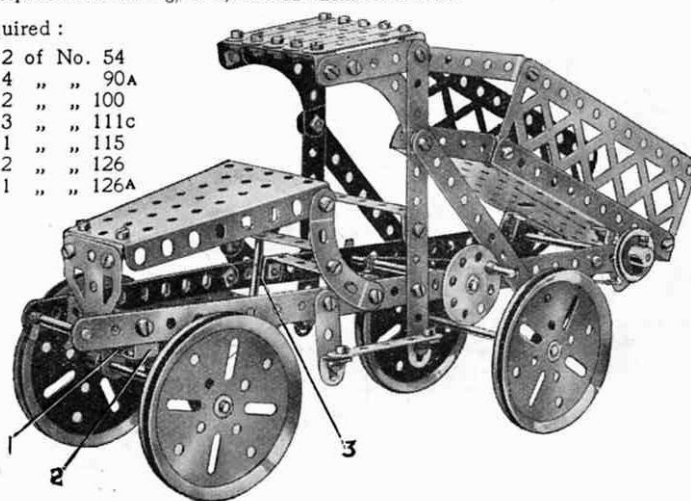


Model No. 2.19 Tipping Motor Wagon

The front Axle Rod is journaled in a $2\frac{1}{2}$ " x $\frac{1}{4}$ " 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.

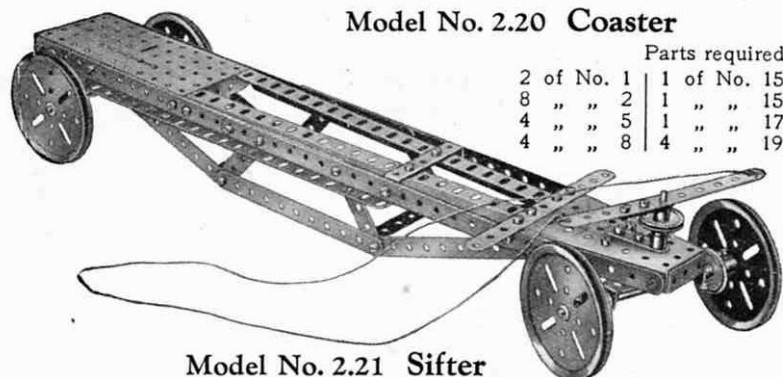
Parts required :

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



These Models can be built with MECCANO Outfit No. 2 (or No. 1 and No. 1A)

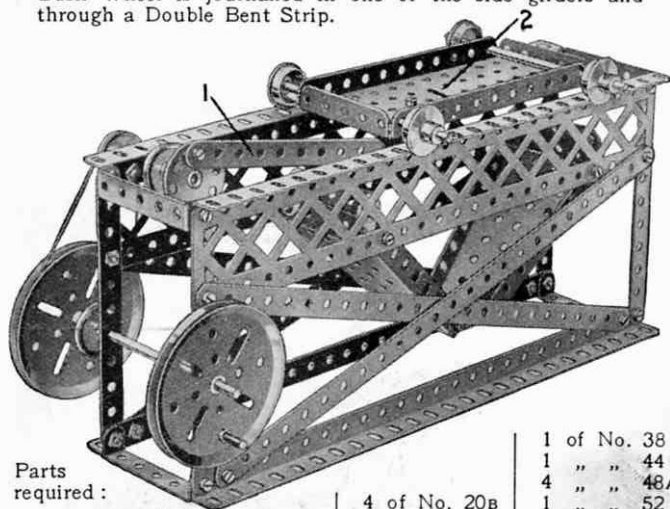
Model No. 2.20 Coaster



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 $5\frac{1}{2}$ " 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 journaled in one of the side girders and through a Double Bent Strip.



Parts required :		
4 of No. 1	4 of No. 10	1 of No. 38
5 " " 2	2 " " 15	1 " " 44
4 " " 5	1 " " 15A	4 " " 48A
2 " " 6A	1 " " 17	1 " " 52
4 " " 8	2 " " 19B	2 " " 54
		2 " " 99
		2 " " 111c
		1 " " 115
		1 " " 126

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	

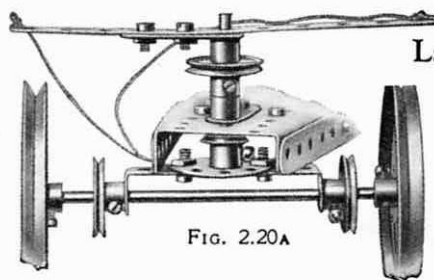
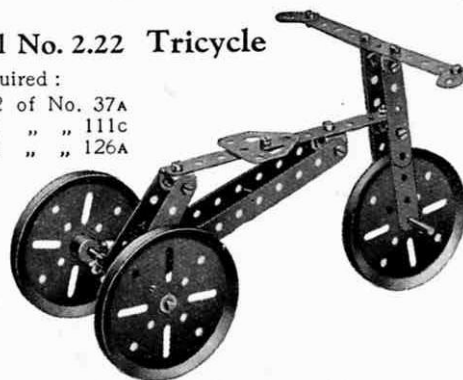


FIG. 2.20A

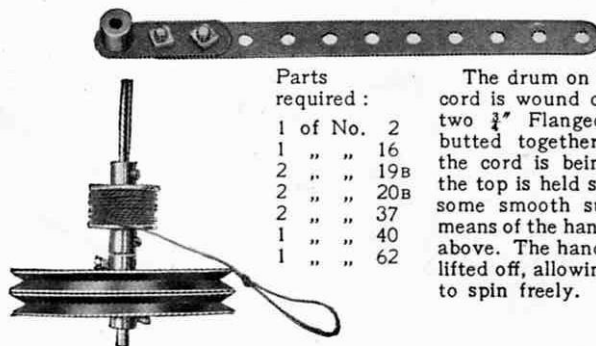
Model No. 2.22 Tricycle

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	

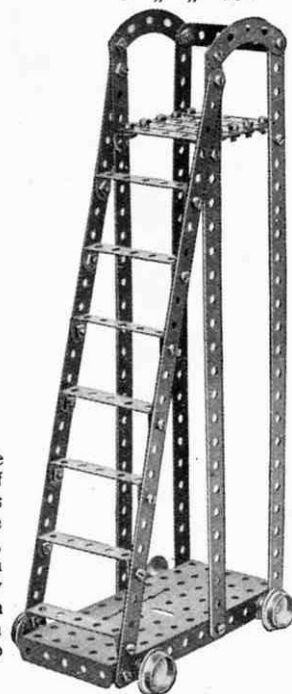


Model No. 2.23 Spinning Top



Parts required :	
1 of No. 2	
1 " " 16	
2 " " 19B	
2 " " 20B	
2 " " 37	
1 " " 40	
1 " " 62	

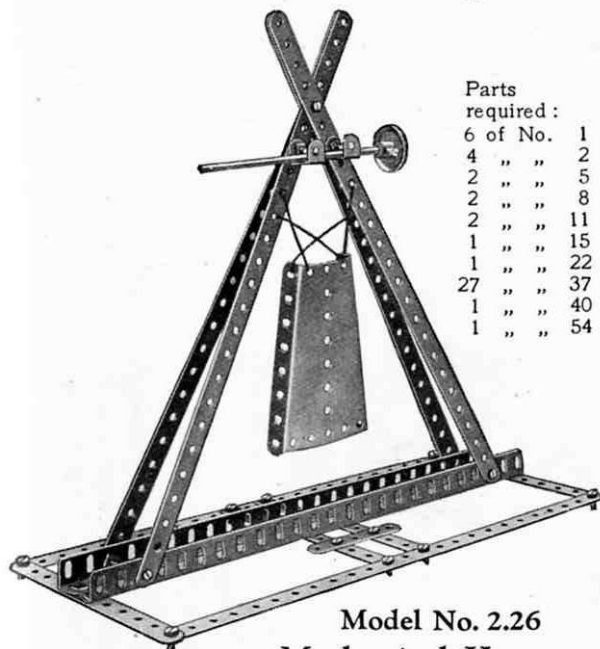
The drum on which the cord is wound consists of two $\frac{1}{2}$ " Flanged Wheels butted together. While the cord is being pulled, the top is held steadily on some smooth surface by means of the handle shown above. The handle is then lifted off, allowing the top to spin freely.



These Models can be built with MECCANO Outfit No. 2 (or No. 1 and No. 1A)

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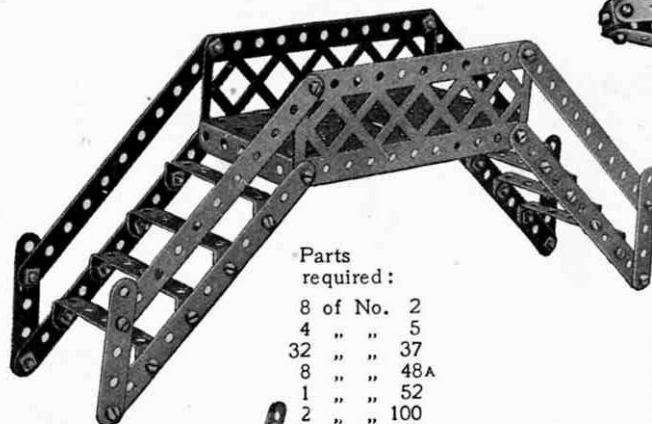
Model No. 2.25 Gong



Parts required :

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

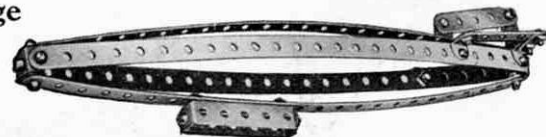
Model No. 2.27 High Level Bridge



Parts required :

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

Model No. 2.28 Airship

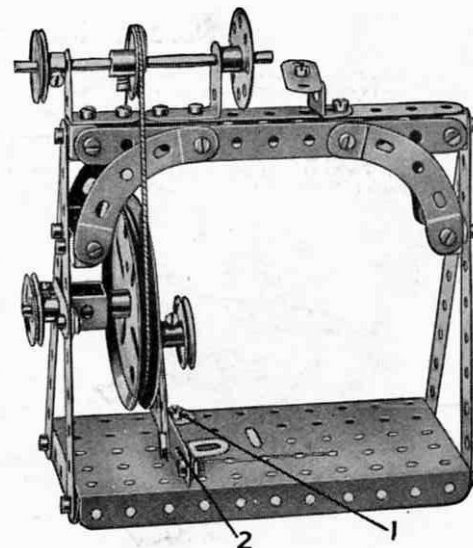


Parts required :

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 $2\frac{1}{2}$ " 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 $2\frac{1}{2}$ " Strip is connected by the same means to the $2\frac{1}{2}$ " Strip 2, and the other end is mounted on a Threaded Pin secured to the 3" Pulley Wheel.

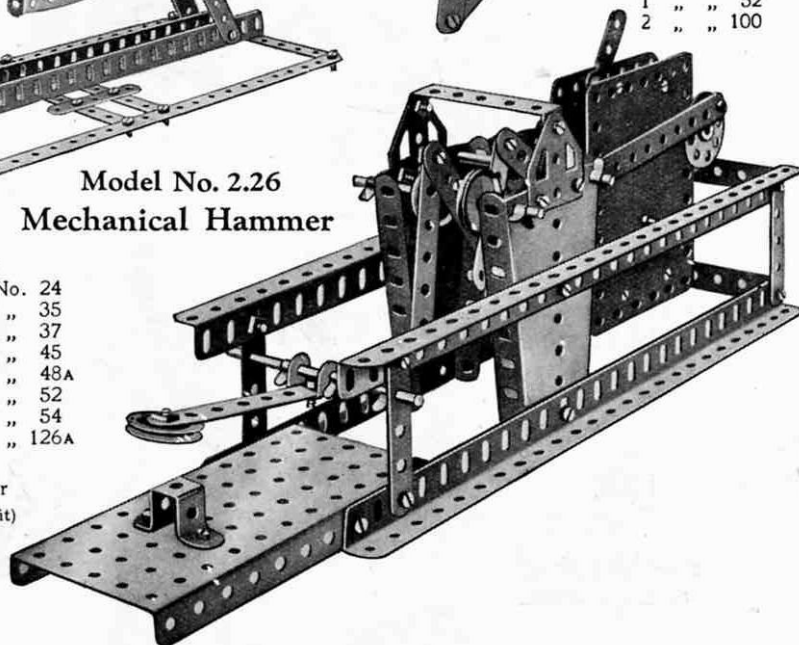


Model No. 2.26 Mechanical Hammer

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)



Parts required :

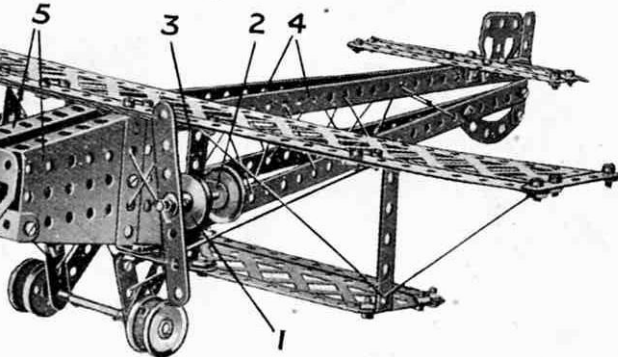
7 of No.	2
1 " "	3
1 " "	5
2 " "	6A
4 " "	11
6 " "	12
2 " "	12A
1 " "	16
1 " "	17
3 " "	19B
4 " "	22
1 " "	24
1 " "	35
34 " "	37
2 " "	37A
4 " "	38
1 " "	40
1 " "	45
1 " "	52
4 " "	90A
1 " "	115
1 " "	125

These Models can be built with MECCANO Outfit No. 2 (or No. 1 and No. 1A)

Model No. 2.30 Aeroplane

Parts
required :

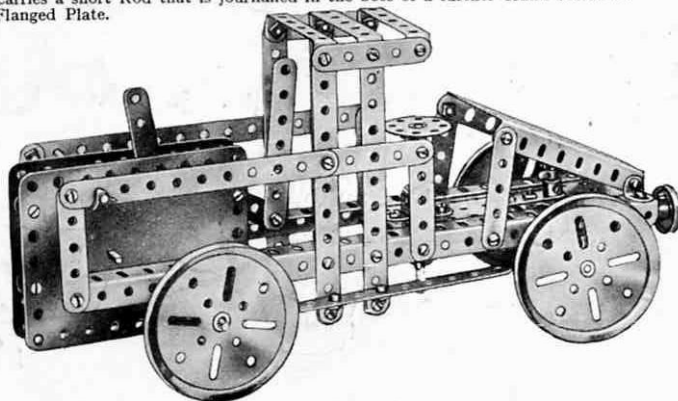
7 of No.	1		
2 "	2		
2 "	3		
7 "	5	8 of No.	35
2 "	6A	58 "	37
8 "	10	6 "	38
2 "	11	2 "	40
2 "	12	1 "	48
1 "	16	6 "	48A
2 "	17	2 "	54
2 "	20B	1 "	90A
4 "	22	2 "	99
2 "	22A	2 "	100
2 "		2 "	126A



Each engine is represented by a $\frac{1}{2}$ " Flanged Wheel 1 and a $1\frac{1}{2}$ " fast Pulley Wheel secured to a 2" Rod journaled in a Double Bracket 2, which is bolted to the $2\frac{1}{2}$ " x $\frac{1}{2}$ " vertical Double Angle Strip 3. The $12\frac{1}{2}$ " 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 $5\frac{1}{2}$ " 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 $3\frac{1}{2}$ " 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 $3\frac{1}{2}$ " Rod journaled 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 journaled 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 $5\frac{1}{2}$ " Strips 4. The Strips 4 are pivoted as shown (Fig. 2.32A) on a $1\frac{1}{2}$ " Rod 5, and on their opposite ends rests a $\frac{1}{2}$ " loose Pulley Wheel 6. When the Bush Wheel 1 is struck, the $5\frac{1}{2}$ " Strips fling the Pulley Wheel 6 upward, but the wheel is guided by the vertical $12\frac{1}{2}$ " Strips 7. The weight of the Strips 4 then causes the Bush Wheel to resume its original position.

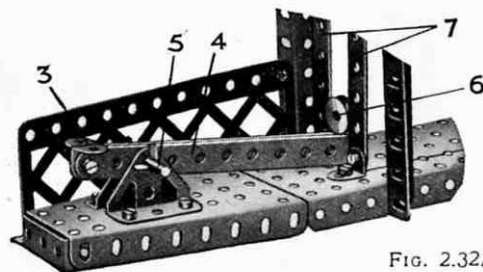


FIG. 2.32A

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
		2 "	52
		2 "	54
		3 "	90A
		2 "	100
		2 "	126

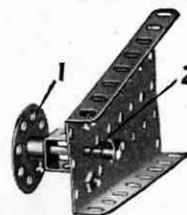
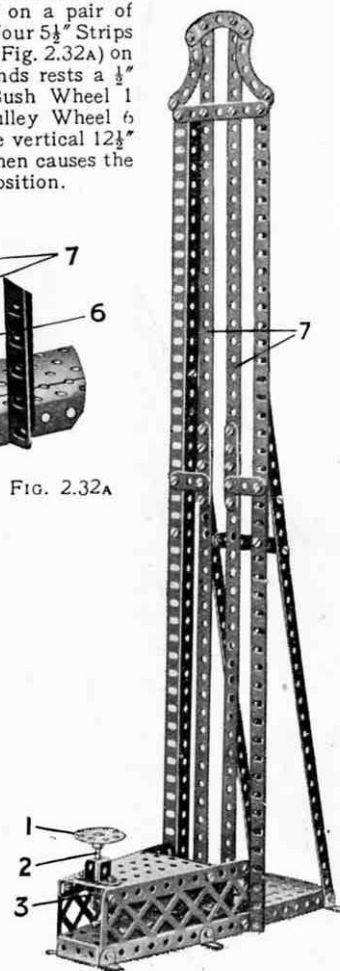


FIG. 2.32B

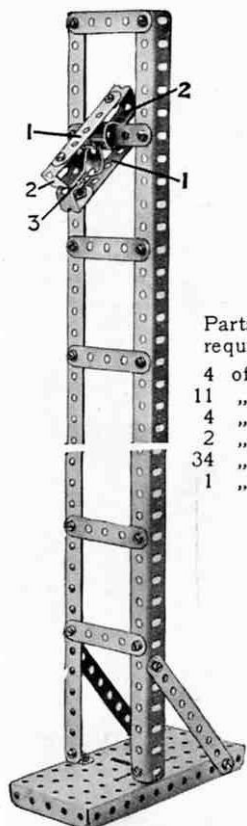


These Models can be built with MECCANO Outfit No. 2 (or No. 1 and No. 1A)

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Model No. 2.33

Performing Meccanitian



Parts
required :

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

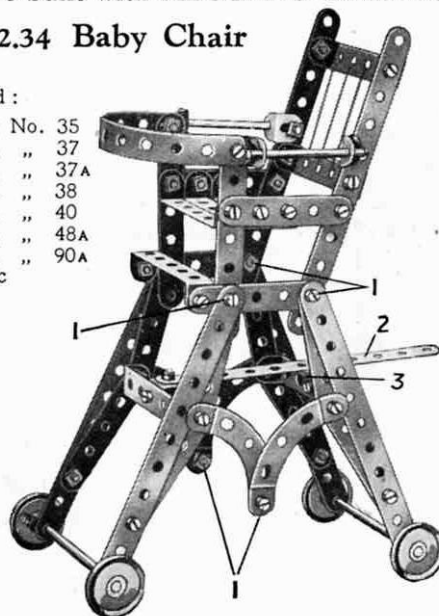
The Meccanitian consists of two $2\frac{1}{2}$ " Strips 1 to the ends of which two $5\frac{1}{2}$ " Strips 2, bent as shown, are bolted. The slot 3 should be passed over the top strip of the ladder, when the device will fall "head over heels" to the bottom.

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

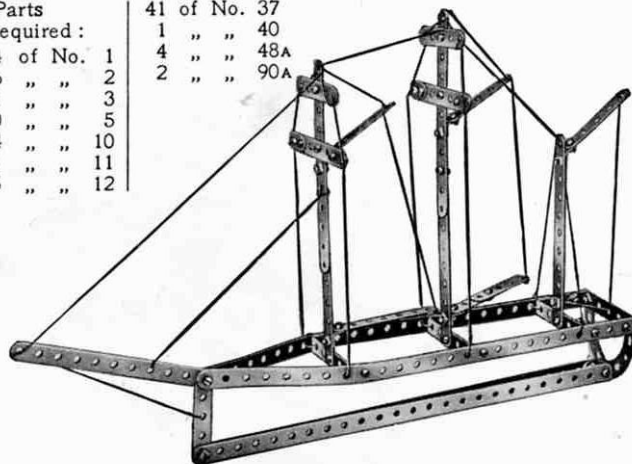
The Bolts 1 are all secured pivotally (see S.M. Nos. 262 and 263), and the height of the chair may be adjusted by fitting any hole in the Strip 2 over the shank of a Bolt that is secured in an Angle Bracket bolted to the Double Angle Strip 3.



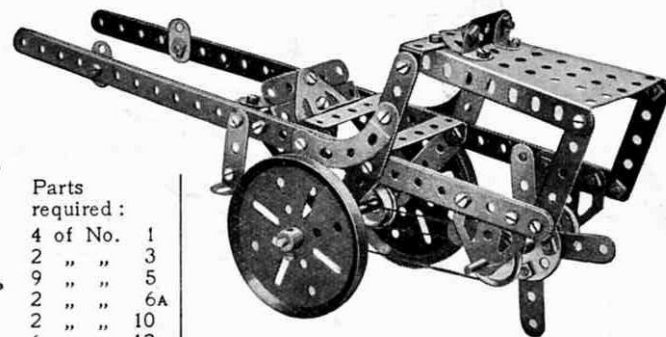
Model No. 2.35 Square-topsail Schooner

Parts
required :

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



Model No. 2.36 Hay Tedder



Parts
required :

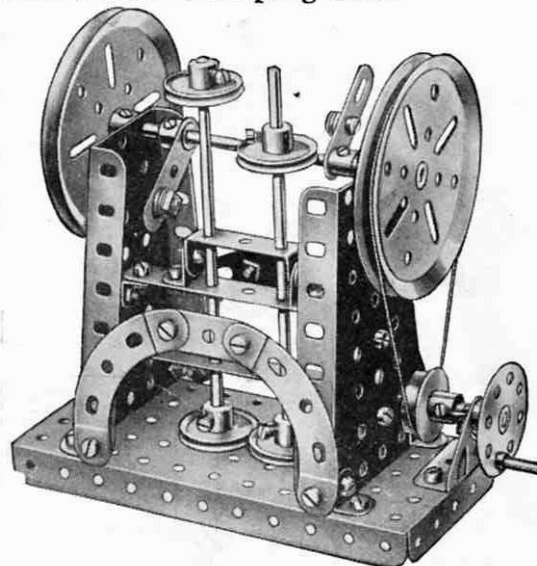
4 of No.	1
2 " "	3
9 " "	5
2 " "	6A
2 " "	10
6 " "	12
1 " "	15A
1 " "	16
2 " "	19
2 " "	20B
2 " "	22

1 of No.	24	4 of No.	38	3 of No.	90A
2 " "	35	1 " "	40	6 " "	111c
34 " "	37	4 " "	48A	2 " "	126
6 " "	37A	1 " "	54	2 " "	126A

Model No. 2.37 Stamping Mill

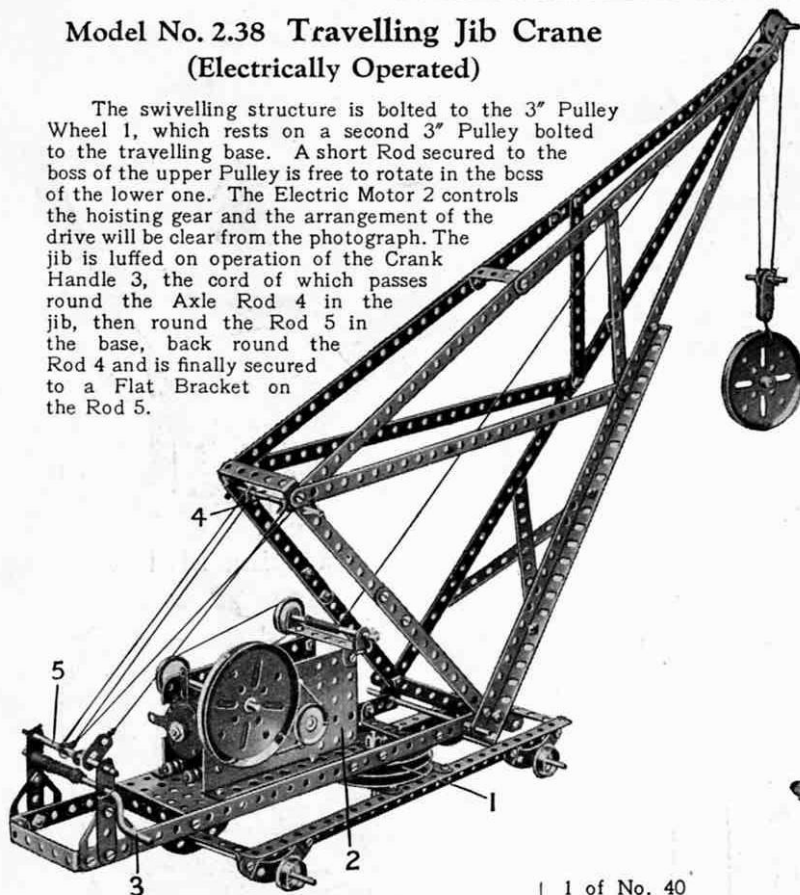
Parts
required :

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
2 " "	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.

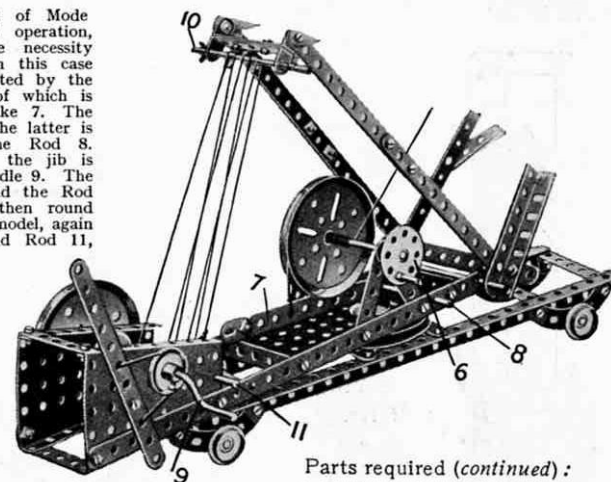


Parts required :					
10 of No. 1	2 of No. 12	4 of No. 20B			
9 " " 2	2 " " 15	4 " " 22			
2 " " 3	1 " " 15A	1 " " 23			
2 " " 5	2 " " 16	1 " " 24			
2 " " 6A	1 " " 17	14 " " 35			
4 " " 8	2 " " 18A	60 " " 37			
1 " " 10	1 " " 19	6 " " 37A			
1 " " 11	4 " " 19B	14 " " 38			

1 of No. 40	
1 " " 48	
7 " " 48A	
1 " " 52	
1 " " 57c	
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 Mode 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 hand 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.

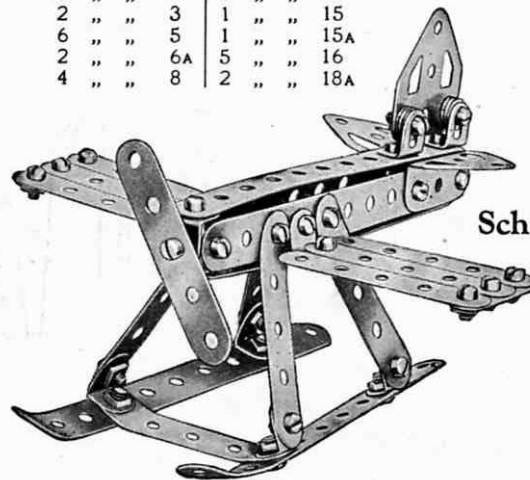


Parts required :

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 " " 57c
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	

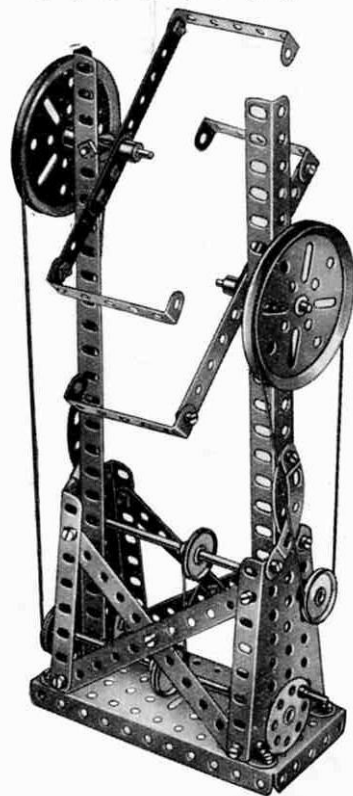
These Models can be built with MECCANO Outfit No. 2 (or No. 1 and No. 1A)

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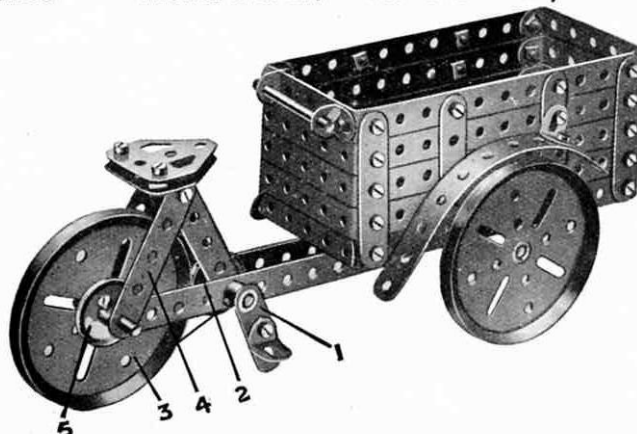
Model No. 2.41 Candy Puller

Parts required :

6 of No.	2	36 of No.	37
2 "	8	4 "	38
2 "	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 $1\frac{1}{2}$ " 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 $2\frac{1}{2}$ " 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

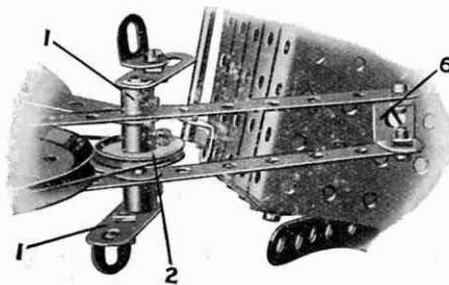


FIG 2.42A

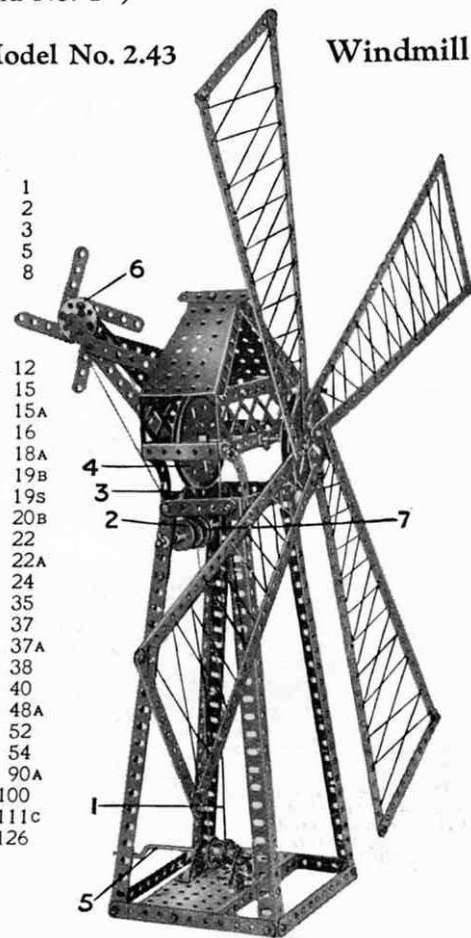
Model No. 2.43

Windmill

Parts required :

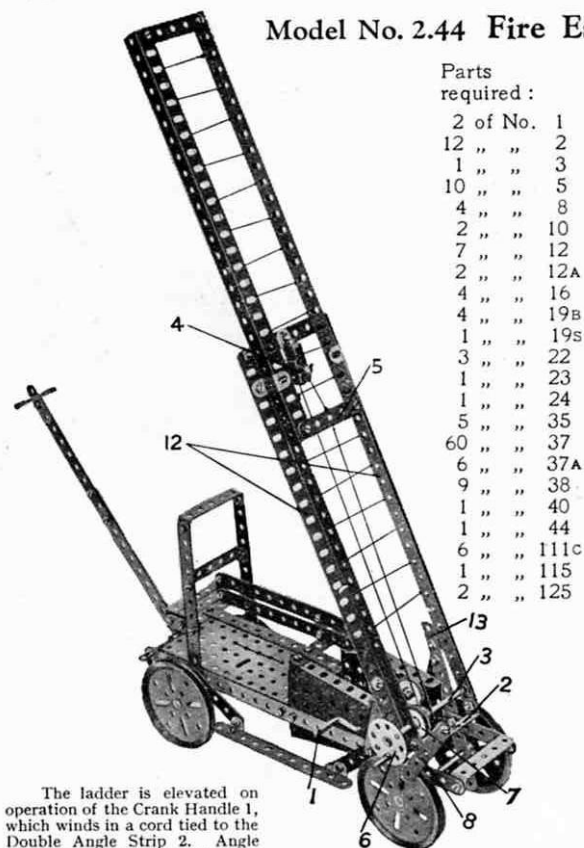
8 of No.	1
13 "	2
2 "	3
10 "	5
4 "	8

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 $\frac{3}{4}$ " Flanged Wheels 2. It is then led round the 1" Loose Pulley 3, over the 3" Pulley 4, then down and round the $\frac{3}{4}$ " 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

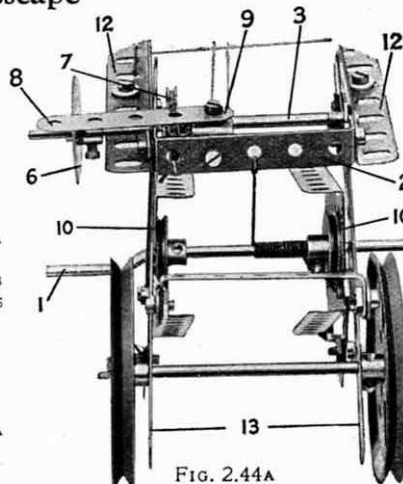
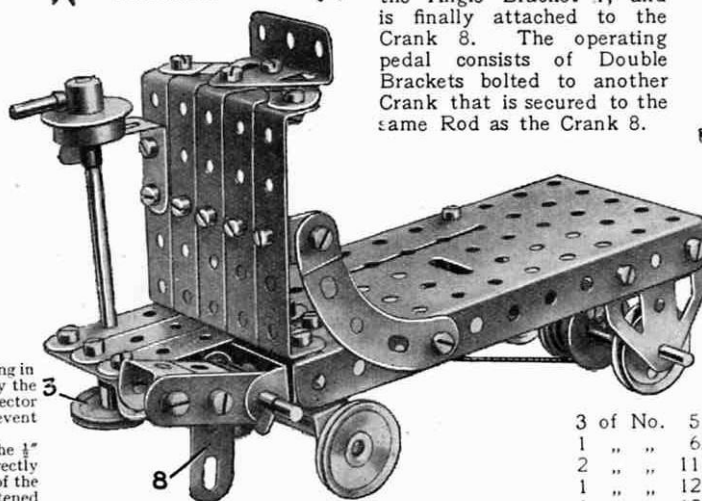


FIG. 2.44A



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 1" loose Pulley 4 and tied to the 2½" Strip 5, the opposite end being carried directly to the same Wheel 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.

Model No. 2.45 Electric Truck

An underneath view of the truck is shown in Fig. 2.45A. The front axle is journaled in a 1½" x 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 Bent Strip 2, wrapped several times round the ½" 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.

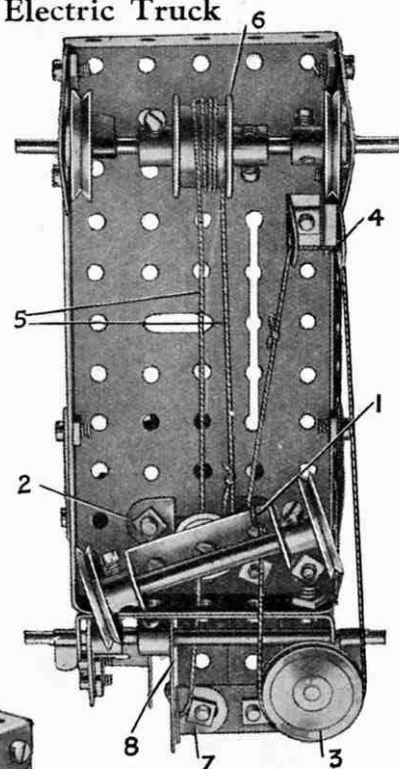


FIG. 2.45A

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
1 "	38	1 "	115
3 "	40	1 "	126
1 "	44	2 "	126A

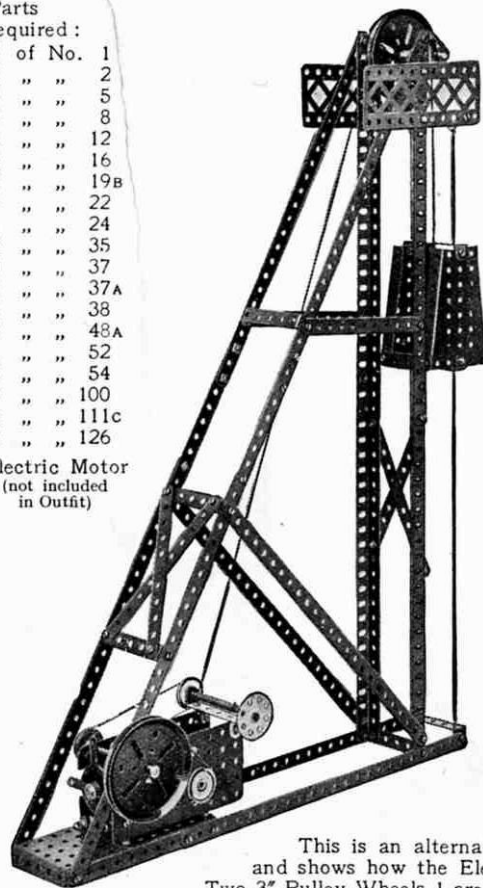
These Models can be built with MECCANO Outfit No. 2 (or No. 1 and No. 1A)

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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	" "	48A
1	" "	52
2	" "	54
2	" "	100
6	" "	111c
2	" "	126

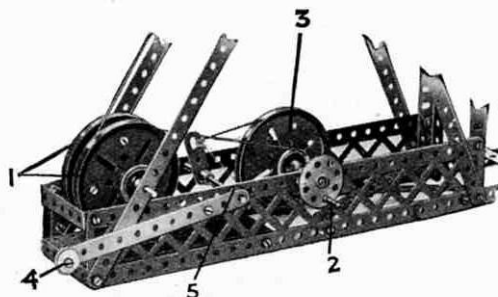
Electric Motor
(not included
in Outfit)

Parts required :		
2 of No.	3	4 of No. 20B
10	" "	3 " "
2	" "	1 " "
1	" "	1 " "
3	" "	5 " "
3	" "	60 " "
1	" "	5 " "
1	" "	1 " "
2	" "	8 " "
		1 of No. 52
		2 " "
		1 " "
		3 " "
		2 " "
		4 " "
		1 " "
		2 " "

Model No. 2.47 Pit Head Gear (Hand Operated)

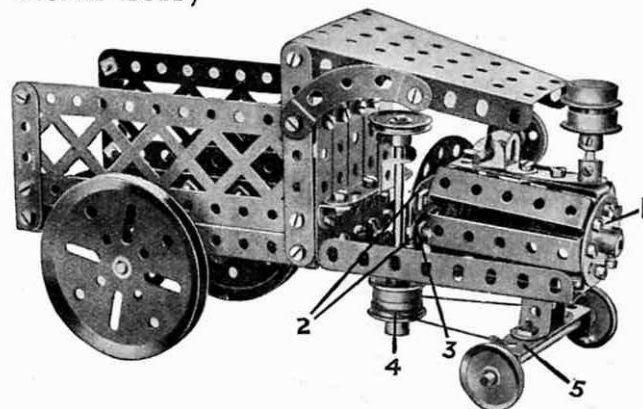
Parts required :

6 of No.	1	4 of No. 22	2 of No. 54
7	" "	1 " "	2 " "
3	" "	1 " "	2 " "
4	" "	3 " "	2 " "
4	" "	60 " "	6 " "
6	" "	6 " "	1 " "
4	" "	8 " "	2 " "
4	" "	1 " "	



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 $\frac{1}{2}$ " loose Pulley Wheel 4, which is secured to the end of a $5\frac{1}{4}$ " Strip that is bolted to the crank 5.

Model No. 2.48 Steam Lorry

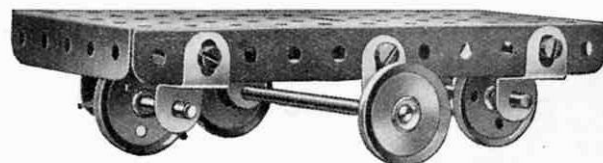


The boiler of the engine is built up of $2\frac{1}{2}$ " x $\frac{1}{2}$ " Double Angle Strips bolted to the Bush Wheel 1, and to two $2\frac{1}{2}$ " Strips 2, which are joined together by Flat Brackets 3. A $2\frac{1}{2}$ " Curved Strip (small radius) is bolted to the upper Strip 2. A cord is passed completely round two $\frac{3}{4}$ " Flanged Wheels 4 secured to the steering column, and its ends are tied to the $2\frac{1}{2}$ " x $\frac{1}{2}$ " 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	" "	4 " "	4 " "
2	" "	6 " "	

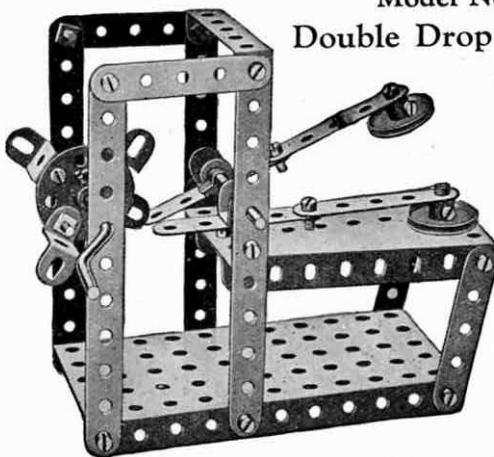


Model No. 2.50

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 journaled in a $2\frac{1}{2} \times \frac{1}{2}$ " 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	1 of No.	38	2 of No.	54
10 " "	5	1 " "	45	3 " "	111c
1 " "	10	1 " "	48	2 " "	125
2 " "	12	6 " "	48A	2 " "	126A
1 " "	15	1 " "	52		
1 " "	15A				
1 " "	16				
4 " "	19B				
3 " "	22				
1 " "	24				
5 " "	35				
35 " "	37				
2 " "	37A				

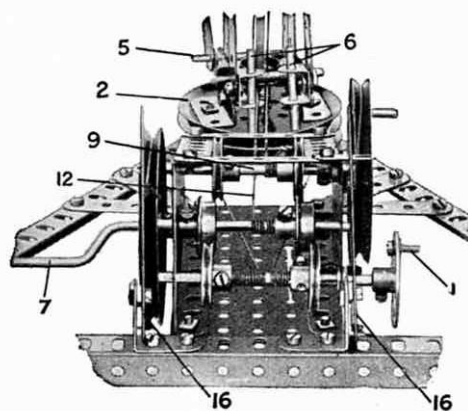
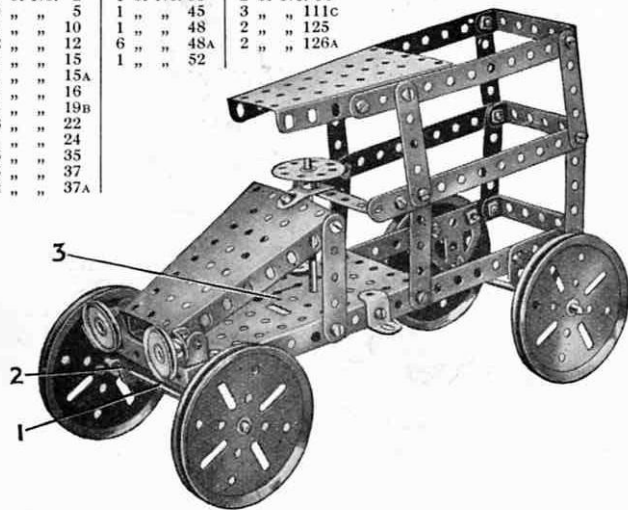


FIG. 2.52A

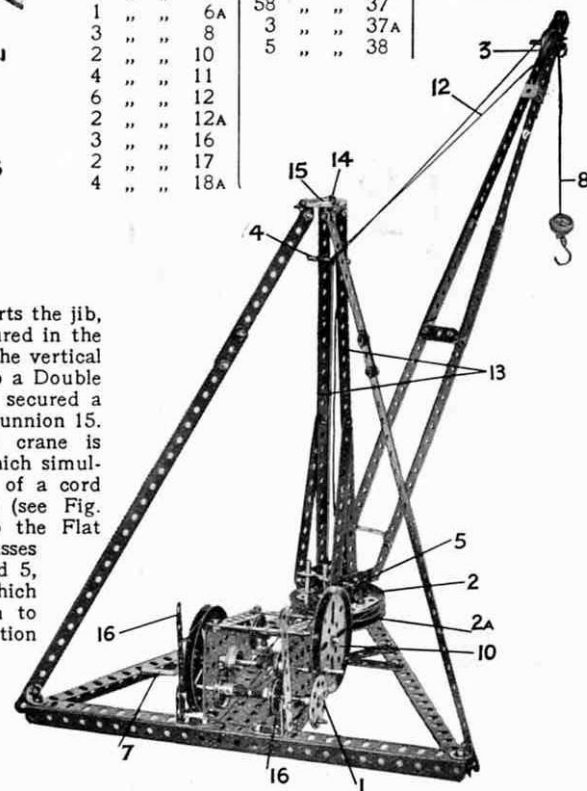
Model No. 2.52 Derrick

Parts
required :

8 of No.	1
4 " "	2
2 " "	3
2 " "	5
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 " "	57c
1 " "	111c
1 " "	115
2 " "	126



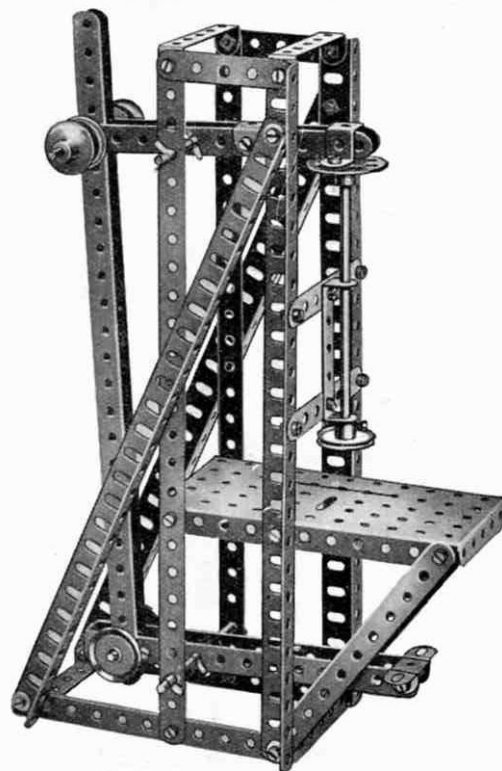
The 3" Pulley Wheel 2, which supports the jib, is free to turn on a short Axle Rod secured in the boss of the lower 3" Pulley Wheel 2a. The vertical $12\frac{1}{2}$ " Strips 13 are bolted at their tops to a Double Bracket, to the centre hole of which is secured a Bolt 14 that is free to turn in the Flat 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.

9 of No.	2	1 of No.	19B	4 of No.	48A
1	6A	4	20B	1	52
4		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		

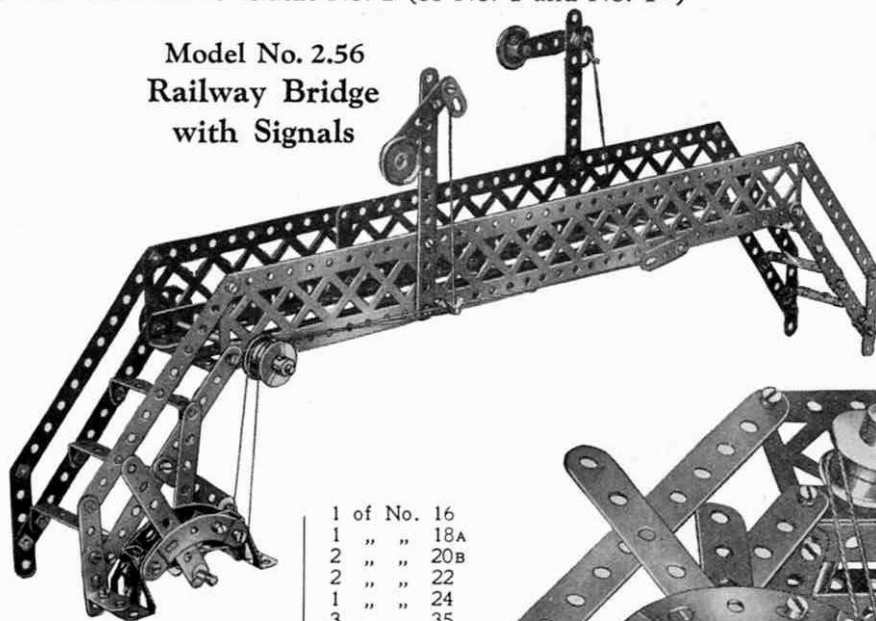
These Models can be built with MECCANO Outfit No. 2 (or No. 1 and No. 1A)

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

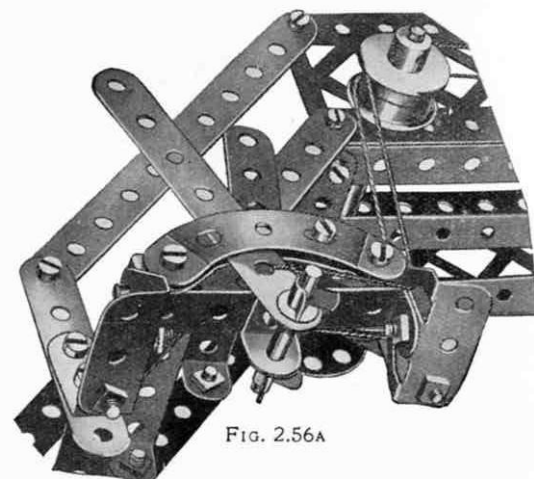


FIG. 2.56A

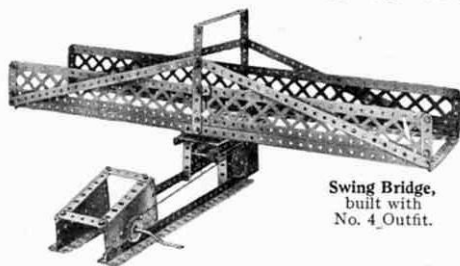
HOW TO CONTINUE

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.

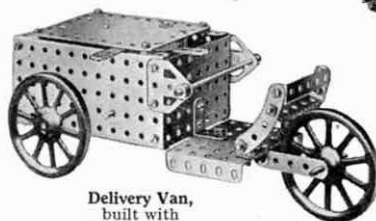
Build Bigger and Better Models



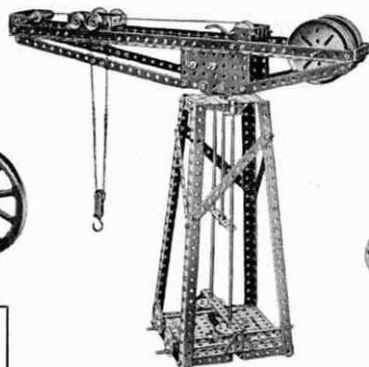
Vertical Drill,
built with
No. 5 Outfit.



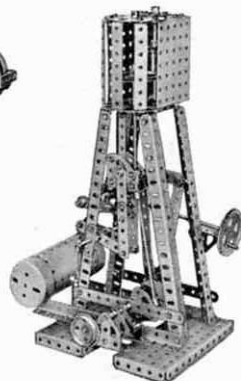
Swing Bridge,
built with
No. 4 Outfit.



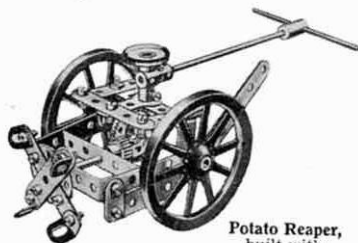
Delivery Van,
built with
No. 5 Outfit.



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

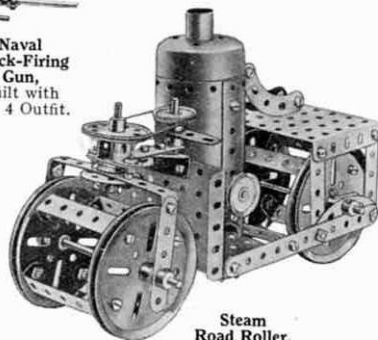
The more Meccano parts you have, the bigger and better the models you are able to build. Keen and enthusiastic model-builders keep adding to their Outfits, until they are able to build all the wonderful models shown in the Meccano Manuals.

The model-building possibilities of the Meccano System are limitless. All the fine models illustrated on this page and page 96 are examples of the types you will be able to build as your Outfit develops.

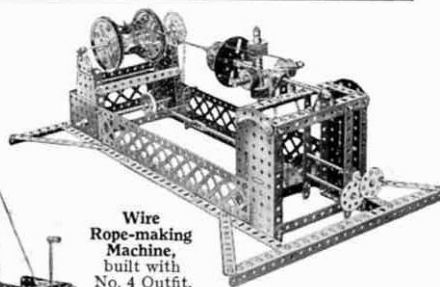
You can purchase separate Meccano parts as you require them, or, if you prefer, you can purchase Accessory Outfits that connect all the main Outfits.



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



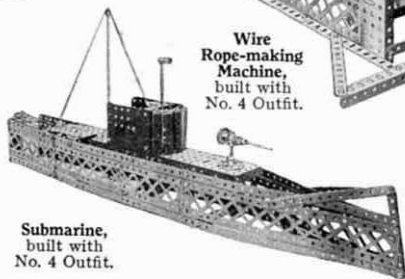
**Steam
Road Roller,**
built with
No. 3 Outfit.



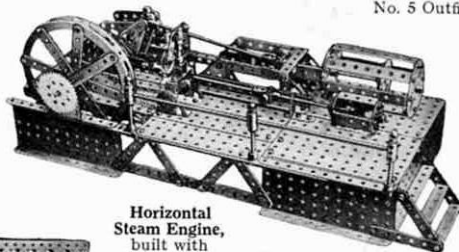
**Wire
Rope-making
Machine,**
built with
No. 4 Outfit.



Steam Wagon,
built with
No. 3 Outfit.



Submarine,
built with
No. 4 Outfit.



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

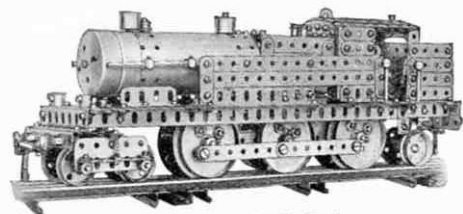


Tower Wagon,
built with
No. 3 Outfit.

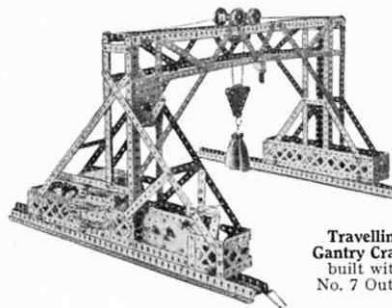


Gantry Crane,
built with
No. 5 Outfit.

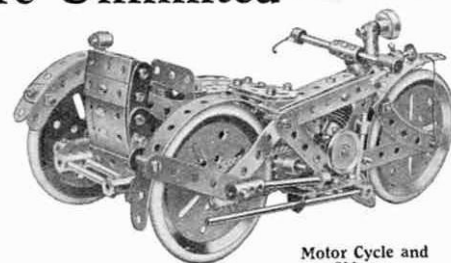
The Possibilities of Meccano are Unlimited



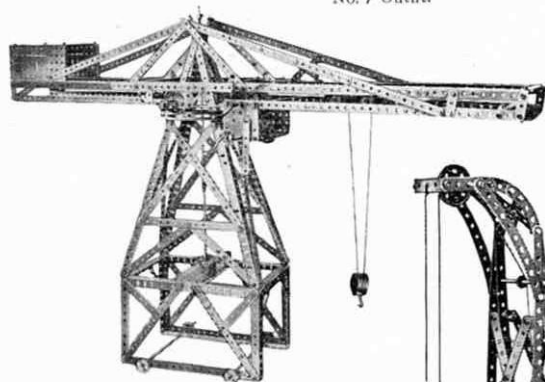
Pacific Tank
Locomotive,
built with
No. 7 Outfit.



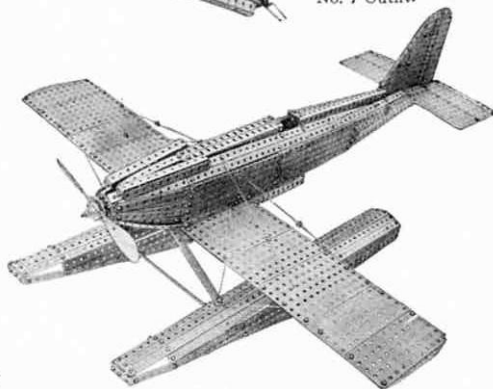
Travelling
Gantry Crane,
built with
No. 7 Outfit.



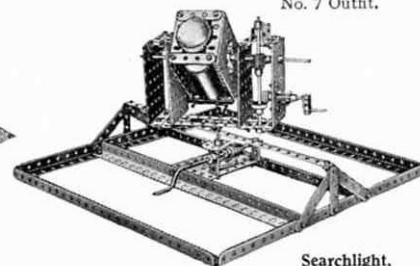
Motor Cycle and
Sidecar,
built with
No. 7 Outfit.



Radial
Travelling Crane,
built with
No. 6 Outfit.



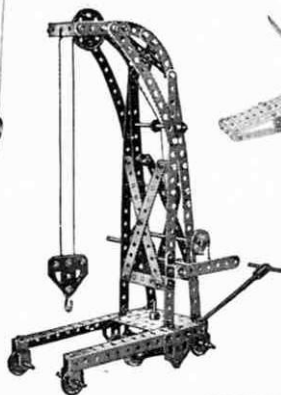
Racing
Seaplane,
built with
No. 7 Outfit.



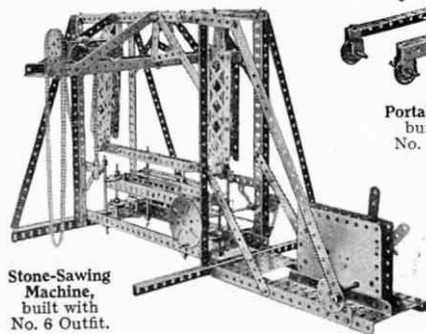
Searchlight,
built with
No. 6 Outfit.



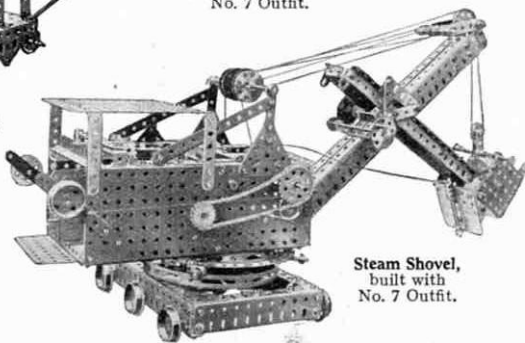
Grandfather
Clock,
built with
No. 7 Outfit.



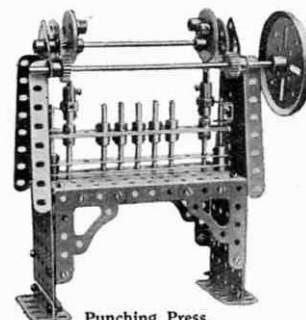
Portable Crane,
built with
No. 6 Outfit.



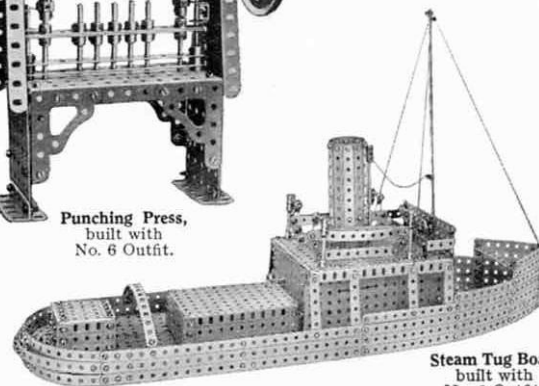
Stone-Sawing
Machine,
built with
No. 6 Outfit.



Steam Shovel,
built with
No. 7 Outfit.



Punching Press,
built with
No. 6 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"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1A	" " 9½"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1B	" " 7½"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2	" " 5½"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2A	" " 4½"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
3	" " 3½"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
4	" " 3"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
5	" " 2½"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
6	" " 2"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
6A	" " 1½"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
7	Angle Girders, 24½"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
7A	" " 18½"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
8	" " 12½"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
8A	" " 9½"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
8B	" " 7½"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
9	" " 5½"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
9A	" " 4½"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
9B	" " 3½"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
9C	" " 3"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
9D	" " 2½"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
9E	" " 2"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
9F	" " 1½"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
10	Flat Brackets...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
11	Double Brackets	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
12	Angle Brackets, 1" x 1"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
12A	" " 1" x 1"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
12B	" " 1" x 1"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
13	Axle Rods, 11½"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
13A	" " 8"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
14	" " 6½"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
15	" " 5"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
15A	" " 4½"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
16	" " 3½"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
16A	" " 2½"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
16B	" " 3"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
17	" " 2"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
18	" " 1½"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
18A	" " 1"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
18B	" " 1"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
19	Crank Handles (5" shaft)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
19S	" " (3½" ")	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
19A	Wheels, 3"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
19B	Pulley Wheels, 3"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
20	Flanged Wheels, 1½"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
20A	Pulley Wheels, 2"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
20B	Flanged Wheels, 1"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
21	Pulley Wheels, 1½"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
22	" " 1" (fast)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
22A	" " 1" (loose)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
23	" " 1"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
23A	" " 1" (fast)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
24	Bush Wheels...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
25	Pinion Wheels, 3" diam., 1" wide	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
25A	" " 3" 1" 1"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
26	" " 1" 1" 1"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
26A	" " 1" 1" 1"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
27	Gear Wheels, 50-teeth	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
27A	" " 57	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
27B	" " 133 (31" diam.)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
28	Contrate Wheels, 1½"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
29	" " 1"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
30	Bevel Gears, 1"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
30A	" " 1" 1" 1"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
30C	" " 1½"	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
31	Gear Wheels, 1", 38-teeth	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
32	Worms	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
34	Spanners	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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38	Washers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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Contents of Outfits—continued

[illegible]

Contents of Outfits—continued

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

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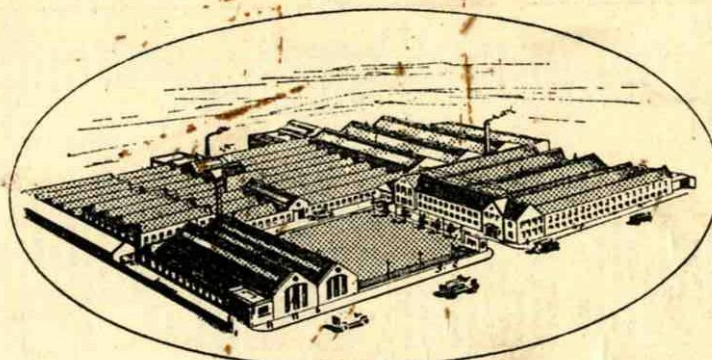
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Paris Office :
Meccano (France) Ltd.
78-80, Rue Rébeval, Paris, XIXe.
Factory : Bobigny (Seine).