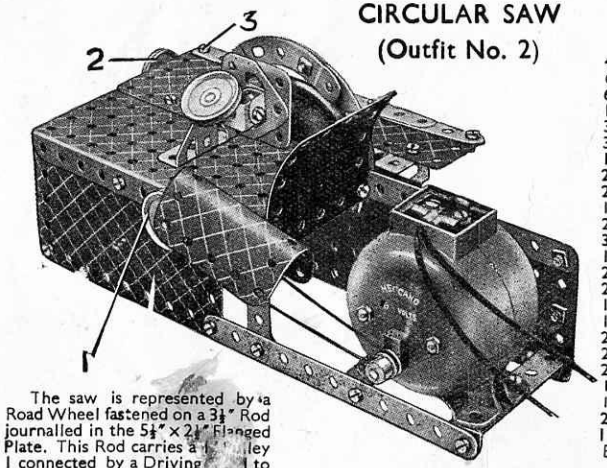
EXAMPLES OF MODELS FITTED WITH THE MECCANO ALL-ENCLOSED TYPE ELECTRIC MOTORS

CIRCULAR SAW (Outfit No. 2)



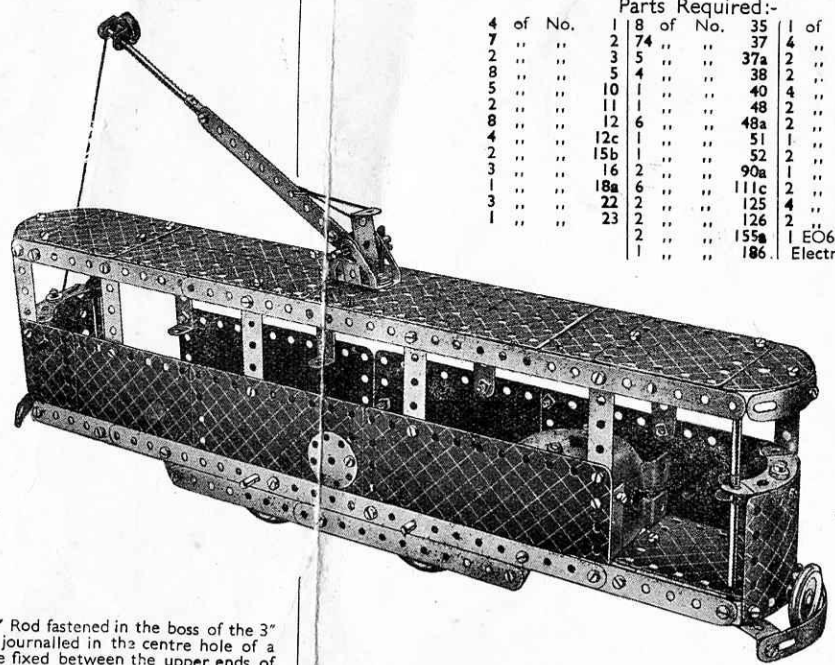
The saw is represented by a Road Wheel fastened on a 3½" Rod journalled in the 5½" × 2½" Flanged Plate. This Rod carries a 1" Pulley 1 connected by a Driving Band to the Motor pulley.

The 1" Pulley 2 is connected to a 2½" Strip bolted to the Flanged Plate and an Angle Bracket held by Bolt 3.

Parts Required :-

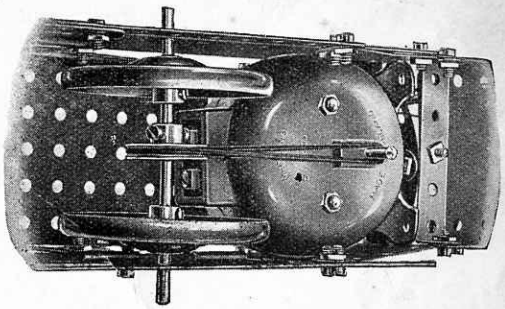
4	of	No.	2
6	,,	,,	5
6	,,	,,	12
1	,,	,,	16
3	,,	,,	22
37	,,	,,	37
1	,,	,,	37a
2	,,	,,	38
2	,,	,,	48a
1	,,	,,	52
2	,,	,,	90a
3	,,	,,	111c
1	,,	,,	125
2	,,	,,	126
2	,,	,,	126a
1	,,	,,	186b
1	,,	,,	187
2	,,	,,	188
2	,,	,,	189
2	,,	,,	90
1	,,	,,	191
1	,,	,,	199
2	,,	,,	200
1 EO6 or EO20 Electric Motor			

TRAMCAR (Outfit No. 4)



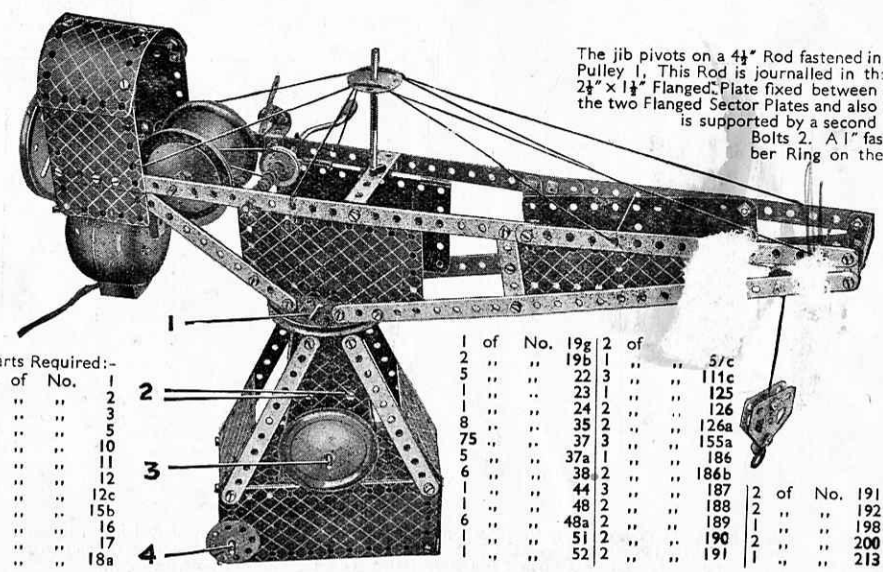
Parts Required:-

4	of	No.	1	8	of	No.	35	1	of	No.	186b
7	,,	,,	2	74	,,	,,	37	4	,,	,,	187
2	,,	,,	3	5	,,	,,	37a	2	,,	,,	188
8	,,	,,	5	4	,,	,,	38	2	,,	,,	189
5	,,	,,	10	1	,,	,,	40	4	,,	,,	190
2	,,	,,	11	1	,,	,,	48	2	,,	,,	191
8	,,	,,	12	6	,,	,,	48a	2	,,	,,	192
4	,,	,,	12c	1	,,	,,	51	1	,,	,,	198
2	,,	,,	15b	1	,,	,,	52	2	,,	,,	200
3	,,	,,	16	2	,,	,,	90a	1	,,	,,	212
1	,,	,,	18a	6	,,	,,	111c	2	,,	,,	214
3	,,	,,	22	2	,,	,,	125	4	,,	,,	215
1	,,	,,	23	2	,,	,,	126	2	,,	,,	217a
				2	,,	,,	155a	1 EO6 or EO20 Electric Motor			
				1	,,	,,	186				



The trolley of the tramcar is a 5½" trip extended by a 3½" Rod, and it is mounted at its lower end on a 1½" Rod. The Trunnions carrying the 1½" Rod are fixed to the roof of the car by a lock-nutted ⅜" Bolt that has a Washer on its shank to space them from the Flanged Plate. The Motor is fixed in position to the side of the tramcar by an Angle Bracket, and the drive is taken direct from the Motor shaft to a 1" Pulley on the front axle by a Driving Band.

RADIAL CRANE (Outfit No 4)



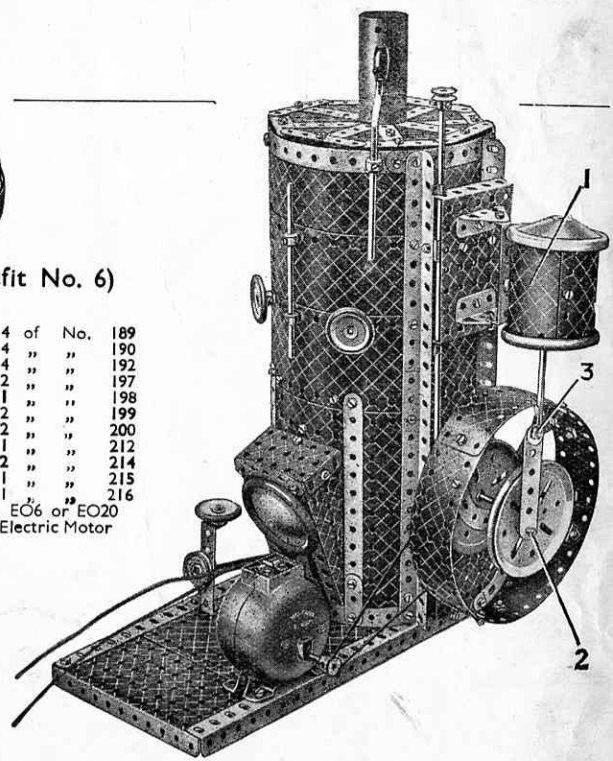
The jib pivots on a 4½" Rod fastened in the boss of the 3" Pulley 1. This Rod is journalled in the centre hole of a 2½" × 1½" Flanged Plate fixed between the upper ends of the two Flanged Sector Plates and also in a Trunnion that is supported by a second Trunnion held by Bolts 2. A 1" fast Pulley with Rubber Ring on the 4½" Rod rests on the rim of the small pulley (supplied with the Motor) on Rod 3. Rod 3 also carries a 1" Pulley connected by a 6" Driving Band to Rod 4. The Band is retained on the Rod, by a Washer and a Spring Clip.

The hoisting mechanism used in this model is similar to that of the Dragline overleaf.

Parts Required:-

4	of	No.	1	1	of	No.	19g	2	of		5/c
8	,,	,,	2	2	,,	,,	19b	1	,,	,,	111c
2	,,	,,	3	5	,,	,,	22	3	,,	,,	125
3	,,	,,	5	1	,,	,,	23	1	,,	,,	126
2	,,	,,	10	1	,,	,,	24	2	,,	,,	126a
2	,,	,,	11	8	,,	,,	35	2	,,	,,	155a
8	,,	,,	12	75	,,	,,	37	3	,,	,,	186
2	,,	,,	12c	5	,,	,,	37a	1	,,	,,	186b
2	,,	,,	15b	6	,,	,,	38	2	,,	,,	187
3	,,	,,	16	1	,,	,,	44	3	,,	,,	188
2	,,	,,	17	1	,,	,,	48	2	,,	,,	189
1	,,	,,	18a	6	,,	,,	48a	2	,,	,,	190
				1	,,	,,	51	2	,,	,,	191
				1	,,	,,	52	2	,,	,,	192
								2	,,	,,	198
								2	,,	,,	200
								1	,,	,,	213
								1	of	No.	214
								2	,,	,,	217a
								2	,,	,,	217b
								1 EO6 or EO20 Electric Motor			

VERTICAL STEAM ENGINE (Outfit No. 6)



Parts Required:-

12	of	No.	1	1	of	No.	19g	2	of	No.	54a
14	,,	,,	2	2	,,	,,	19b	4	,,	,,	59
2	,,	,,	3	5	,,	,,	22	2	,,	,,	90
2	,,	,,	4	1	,,	,,	23a	4	,,	,,	90a
11	,,	,,	5	1	,,	,,	24	2	,,	,,	111a
2	,,	,,	6a	4	,,	,,	35	6	,,	,,	111c
4	,,	,,	8	103	,,	,,	37	2	,,	,,	126
4	,,	,,	10	4	,,	,,	37a	2	,,	,,	126a
8	,,	,,	12	14	,,	,,	38	1	,,	,,	147b
1	,,	,,	13	4	,,	,,	48a	3	,,	,,	155a
1	,,	,,	14	1	,,	,,	48b	1	,,	,,	176
1	,,	,,	15a	1	,,	,,	51	1	,,	,,	186b
2	,,	,,	16	1	,,	,,	52	3	,,	,,	187
1	,,	,,	18b	2	,,	,,	53	4	,,	,,	188

4	of	No.	189
4	,,	,,	190
4	,,	,,	192
2	,,	,,	197
1	,,	,,	198
2	,,	,,	199
2	,,	,,	200
1	,,	,,	212
2	,,	,,	214
1	,,	,,	215
1	,,	,,	216
1 EO6 or EO20 Electric Motor			

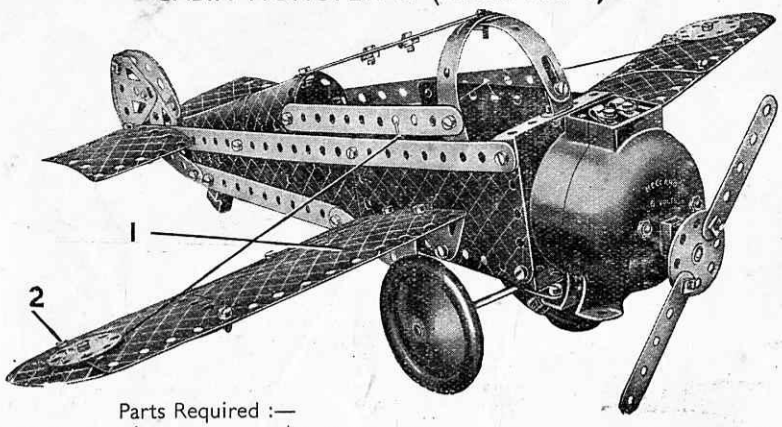
The oscillating cylinder 1 is fastened to the 2½" × ½" Double Angle Strip by a lock-nutted Pivot Bolt, on which a 1" fast Pulley is used as a distance piece.

The ½" Bolt 2 is lock-nutted, and it carries a Spring Clip that spaces the 3" Strip from the 3" Pulley.

The Bolt 3 is tightened so that the 4" Rod and 3" Strip are in line with each other.

EXAMPLES OF MODELS FITTED WITH THE MECCANO ALL-ENCLOSED TYPE ELECTRIC MOTORS

CABIN MONOPLANE (Outfit No. 3)

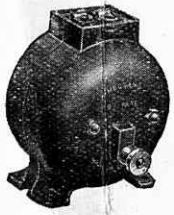


Parts Required :—

2	of	No.	1	2	of	No.	38	2 of No. 190
6	"	"	2	1	"	"	44	2 " " 191
9	"	"	5	2	"	"	48a	2 " " 192
4	"	"	10	4	"	"	90a	2 " " 199
3	"	"	12	6	"	"	111c	2 " " 200
1	"	"	15b	2	"	"	126	2 " " 214
2	"	"	22	2	"	"	126a	3 " " 215
1	"	"	24	2	"	"	187	2 " " 217a
48	"	"	37	2	"	"	188	1 EO6 or EO20
6	"	"	37a	2	"	"	189	Electric Motor

The trailing edge of each wing is formed by a 2½" × 1½" Flexible Plate, which is fastened at the rear of the Flexible Plate 1, and a 5½" Strip. The Strip is secured at one end to the 2½" × 1½" Flexible Plate, and its other end is held by Bolt 2. The Motor is mounted on two Flat Brackets that are bolted to a 2½" × ½" Double Angle Strip fastened between the sides of the fuselage.

NEW MECCANO ELECTRIC MOTORS Nos E06 and E020



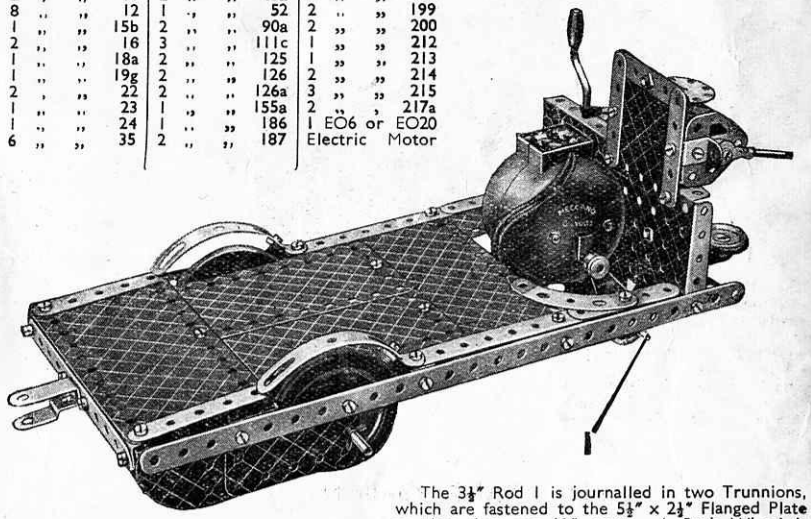
The new Nos. EO6 and EO20 Meccano Electric Motors are realistic models of the all-enclosed type of motor used in actual engineering. The No. EO6 (6-volt) Motor can be run from A.C. mains through a Meccano T6, T6A or T6M Transformer, or from a 6-volt accumulator. The No. EO20 (20-volt) Motor is operated from A.C. mains through a Meccano T20, T20A or T20M Transformer. The Motors are non-reversing.

Each Motor will drive all the working models built with Outfits Nos. 1-5, and also some of the lighter models built with Outfits Nos. 6-8.

Parts Required:—

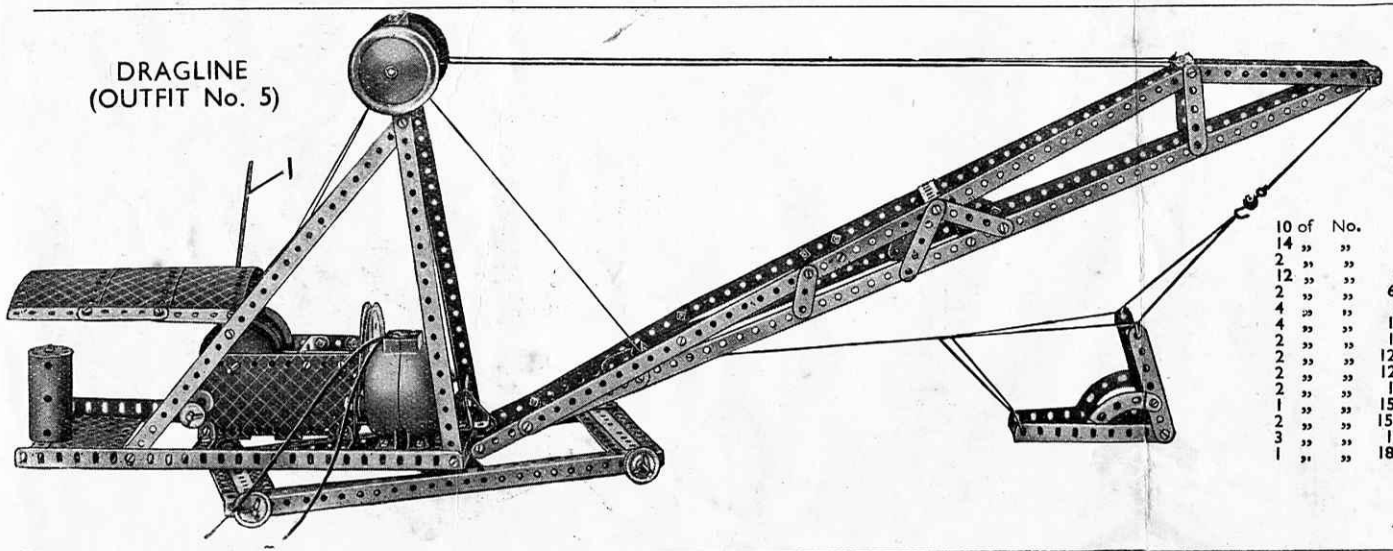
2	of	No.	1	45	of	No.	37	2 of No. 188
5	"	"	2	3	"	"	37a	2 " " 189
7	"	"	5	6	"	"	38	2 " " 190
2	"	"	10	1	"	"	44	2 " " 191
2	"	"	11	2	"	"	48a	2 " " 192
8	"	"	12	1	"	"	52	2 " " 199
1	"	"	15b	2	"	"	90a	2 " " 200
2	"	"	16	3	"	"	111c	1 " " 212
1	"	"	18a	2	"	"	125	1 " " 213
1	"	"	19g	2	"	"	126	2 " " 214
2	"	"	22	2	"	"	126a	3 " " 215
1	"	"	23	1	"	"	155a	2 " " 217a
1	"	"	24	1	"	"	186	1 EO6 or EO20
6	"	"	35	2	"	"	187	Electric Motor

ELECTRIC TRUCK (OUTFIT No. 3)

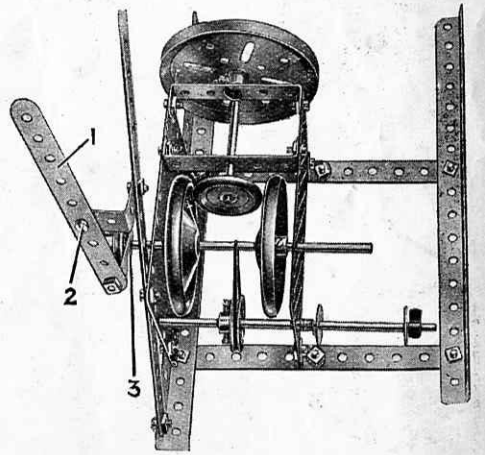


The 3½" Rod 1 is journalled in two Trunnions, which are fastened to the 5½" × 2½" Flanged Plate so that they are 1½" apart. A Bush Wheel is fastened on Rod 1 between the Trunnions to form the driving wheel.

DRAGLINE (OUTFIT No. 5)



10	of	No.	1	1	of	No.	18b	2 of No. 80c
14	"	"	2	1	"	"	19g	2 " " 90a
2	"	"	3	2	"	"	19b	2 " " 111c
12	"	"	5	5	"	"	22	1 " " 126
2	"	"	6a	2	"	"	22a	1 " " 155a
4	"	"	8	1	"	"	23	1 " " 176
4	"	"	11	1	"	"	24	1 " " 186
2	"	"	12	14	"	"	35	1 " " 186b
2	"	"	12a	78	"	"	37	4 " " 187
2	"	"	12c	13	"	"	37a	2 " " 189
2	"	"	15	1	"	"	38	3 " " 190
1	"	"	15a	1	"	"	40	3 " " 192
2	"	"	15b	1	"	"	44	1 " " 198
3	"	"	16	1	"	"	45	1 " " 212
1	"	"	18a	1	"	"	48	1 " " 213
				7	"	"	48a	2 " " 214
				1	"	"	51	1 " " 216
				1	"	"	52	1 " " 217a
				2	"	"	54a	2 " " 217b
				1	"	"	57c	1 EO6 or EO20
								Electric Motor



The 5½" Strip 1 controls the reversing mechanism, the construction of which can be seen in the illustration on the right. This Strip pivots on a lock-nutted Bolt at 2, and to ts lower end a Cranked Bent Strip 3 is fastened also by a lock-nutted Bolt, as shown.

MECCANO LIMITED - BINNS ROAD - LIVERPOOL 13

1 838/200