

"MECCANO, LIVERPOOL" FULLY PATENTED
IN ENGLAND
& ABROAD

MECCANO

may be had in Six Progressive Boxes to make up these & many other Models.

MECCANO LTD LIVERPOOL.

## Meccano No. 1

HIS outfit comprises a variety of simple parts, which by the aid of the drawings and directions furnished, may be built up into a number of interesting and beautiful WORKING MODELS and structures. No tools are necessary beyond the appliances supplied, and the toy is well adapted for parlour use.

All parts are made to gauge, and the necessity for accuracy of work is clearly taught.

By means of additional parts as required, an almost endless variety of models may be built; the parts are of metal and almost unbreakable, and when one structure is finished the same parts can be used repeatedly for different structures.

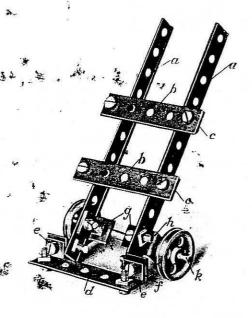
Parents will find co-operation with the Children an interesting and stimulating exercise and in many instances a pleasant mode of exercising their own inventive faculties.

The designs given have been accurately prepared from the actual structures themselves, and if in assembling the parts, care be taken to ensure that the proper sizes of strips are used, and that the bolts, brackets, and axles are attached to the proper holes as shown, little difficulty will be experienced in erecting. Care should be taken to count the holes, as they are uniformly spaced throughout, and so form a most excellent guide in erecting.

The simple designs should in all cases be proceeded with first, and skill gradually acquired in following the designs and correctly connecting the parts together. Strips when they require to be attached at right angles to each other, are attached by means of the angle brackets and screws and nuts, the nuts being preferably on the inside. The axles are adapted to fit any of the holes, and their positions in the various designs can always be ascertained by counting the holes.

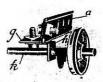
Successive lengths of strips may be united together by means of one or, where a very rigid connection is required, two bolts.

## Figure No. 1. Luggage Truck



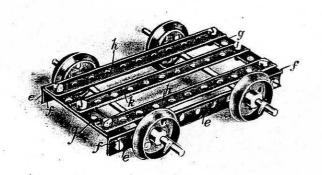
PARTS REQUIRED.

- 2 51 Perforated Strips
- 3
- 12 Angle Brackets.
  - I 31" Rod.
  - 2 Wheels.
  - 18 Nuts and Bolts.
  - 2 Keys.



This is a simple and neat little model, very easily constructed. Commence by screwing the two cross pieces B tower the two side frames A, four angle brackets and eight nuts and bolts are required for this. The lowest cross is piece D may then be carried from the end holes of the frames A by a combination of the two angle pieces E F at each end, and the bearings for the wheel axle are each somewhat similarly constructed of two angle pieces G H, as will be readily understood by referring togethe small detail view. When these are in place the axle K is inserted, keys L put over the ends, and the wheels secured thereon.

## Fig. No. 2. Truck



#### PARTS REQUIRED.

- 5 51" Perforated Strips.
- $2 \quad 2\frac{1}{2}'' \qquad ,,$
- 4 Angle Brackets.
- 2 5" Rods.
- 4 Wheels.
- 10 Nuts and Bolts.
  - 4 Keys.

This is an interesting model, which can easily be constructed by means of the following instructions:—

To construct this design, take a  $5\frac{1}{2}''$  strip E and attach by means of screws and nuts an angle piece F at each end. Then take a second  $5\frac{1}{2}''$  strip, and in the same way attach angle pieces at each end of it. These strips are to form the sides of the truck in which the axles of the wheels run. Now connect each end pair of angle pieces with two  $2\frac{1}{2}''$  strips G at right angles to the  $5\frac{1}{2}''$  strips forming the sides, and over these short strips G lay two  $5\frac{1}{2}''$  strips H, fastening each corner of the truck, where the ends of the strips H and G overlay the angle pieces F, by means of screws and nuts. Now attach the  $5\frac{1}{2}''$  piece K at each end to the centre hole of the strips G. This with the two pieces H forms the bottom of the truck. Next insert two axles, as shown, through the third holes from the ends of the side pieces E, then push on the four wheels and secure them in position by the keys.

## Fig. No. 3. Endless Rope Railway

PARTS REQUIRED.

7  $5\frac{1}{2}$  Perforated Strips. 6  $2\frac{1}{2}$  , , ,

13 Angle Brackets.

2 5" Rods.

I Crank Handle.

6 Wheels.

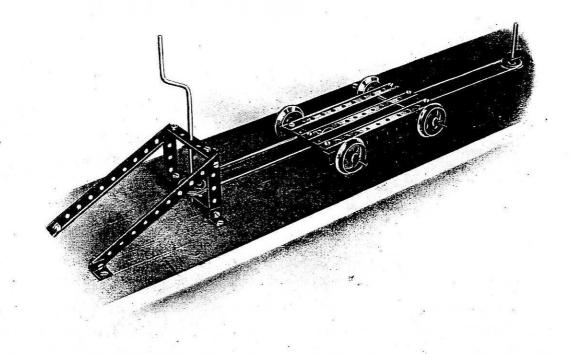
Nuts and Bolts.

5 Wood Screws.

6 Keys.

This is an attractive little combination working model, which will well repay a little trouble in making.

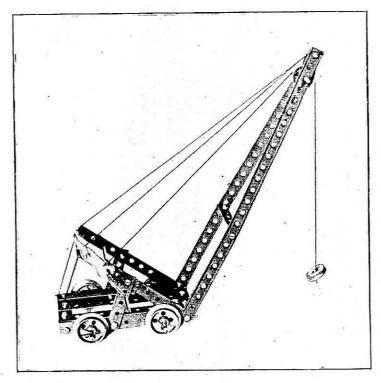
The truck made according to the previous design is used, and it is connected to an endless cord which passes from a pulley attached to the board to another pulley and shaft carried on the bracket shown. In the illustration, the two pulleys are shown close together to save space, but they may, of course, be placed at any distance desired.



The bracket is constructed as follows: Two vertical  $2\frac{1}{2}$ " side pieces are connected together at the top and bottom by two more  $2\frac{1}{2}$ " pieces attached by angle pieces as shown. From the angle pieces at the top, two  $5\frac{1}{2}$ " pieces are carried down to two angle pieces screwed to the board as shown, and angle pieces are placed at the feet of the uprights, which are also screwed to the board. The pulley is keyed to the vertical spindle, which is threaded through the central holes of the two  $2\frac{1}{2}$ " cross pieces, and a second pulley, attached to a U-shaped piece as shown, is screwed opposite to the bracket.

A piece of string is then formed into an endless rope running over the two pulleys, and the truck is attached to one side of the string, so that by rotating the handle in one direction or another, the truck is moved as desired.

## Fig. No. 4. Travelling Jib Crane



#### PARTS REQUIRED.

2	121"	Perforated	Strips.	-	6		Wheels.	
7	51"	,,	,,		I	1"	Pinion.	
6	$2\frac{1}{2}''$				I	_	Pawl.	
8	2	Angle Brac	ckets.		23		Nuts and	Bolts.
2	5"	Rods.			I	8)	Hook.	
T	2"	Rod.			8		Keys.	
т	_	Crank Han	ıdle.					

A very fine model which cannot fail to interest and instruct the budding mechanic. It is designed on thoroughly scientific lines, and it will teach a boy more about the principles of a crane's action than hours of book study.

The truck of Example 2 is used in the construction of the crane, with the following additions:—

Two  $5\frac{1}{2}$ " strips sloping back to carry the spindle, and two  $12\frac{1}{2}$ " strips to form the jib, are attached by the same screws to the end holes of the truck; the two  $5\frac{1}{2}$ " strips being braced to the truck by the two  $2\frac{1}{2}$ " strips as shown, and being connected together at their ends by a  $2\frac{1}{2}$ " strip and angle pieces.

The spindle, to which the pinion is keyed, is carried in the third pair of holes in the  $5\frac{1}{2}''$  strips as shown, and the pawl is pivoted on the screw which holds the angle piece in position.

The jib is braced by a  $2\frac{1}{2}$ " strip and angles at the ninth hole from the end, and the two sides are bolted together at the top hole, and the short spindle carrying the pulley is carried in the third hole from the top, over which pulley the string is passed and tied to the pinion spindle; the whole structure is braced by tie rods formed of strings attached to the ends of the truck, the  $5\frac{1}{4}$ " strips, and the jib.

### Fig. No. 5. Windmill

#### PARTS REQUIRED.

- 4 12½" Perforated Strips.
- $2 \quad 5\frac{1}{2}'' \quad , \quad , \quad ,$
- 12 Angle Brackets.
- I 3½" Rod.
- r Crank Handle.
- 3 Wheels.
- 25 Nuts and Bolts.
- 8 Keys.

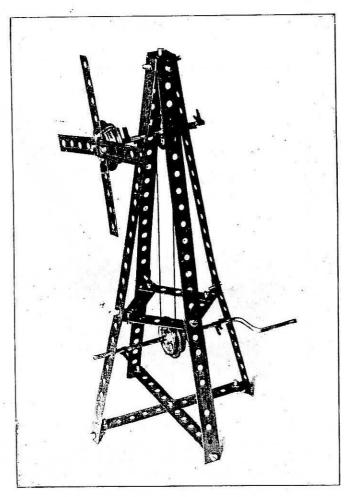
An effective model which calls for no special instructions to construct.

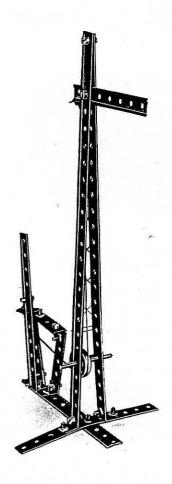
It will not be described quite so fully as the preceding ones, in order that its construction may be a test for the young model-maker, and may be of use in developing his faculties for constructional work.

It will suffice to say that the four  $12\frac{1}{2}''$  strips are formed at the top by four angle pieces, and are stiffened lower down by the four  $2\frac{1}{2}''$  strips formed into a square, the corners of which are connected by angle pieces to the  $12\frac{1}{2}''$  strips.

The wind sails are made by attaching four  $2\frac{1}{2}''$  strips to the bush wheel, and keying the latter to the spindle.

Note.—This spindle has a second pulley on the frame connected by the string band to the pulley on the spindle below.





## Fig. No. 6. Railway Signal

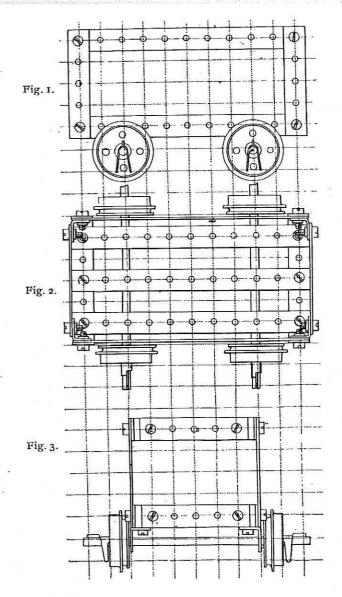
#### PARTS REQUIRED.

2 12½" Perforated Strips.
3 5½" " "
1 3½" " "
3 2½" " "
8 Angle Brackets.
2 2" Rods.
I Wheel.
Nuts and Bolts.
I Key.

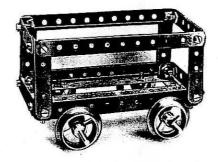
A simple model which explains itself.

Very little difficulty will be found in constructing it after Model 5 has been accomplished. It will therefore form another test for the young model-maker.

In fixing the lever to the angle bracket at the bottom, lock the nuts so as to prevent the screw from working out.



## Fig. No. 7. Truck



PARTS REQUIRED.

7 5½" Perforated Strips.

16 Angle Brackets.

2 5" Röds.

Wheels.
Nuts and Bolts.

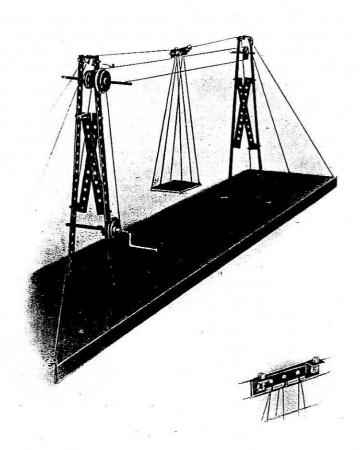
4 Keys.

We have given here an example of the actual kind of drawing which an engineer would make to represent such a model. The top figure would be called an elevation, the middle one a plan, and the lower one an end view. It will be noticed that the views are on squared paper, and the elevation and plan are projected from each other, as should be the case with all views on an engineering drawing.

This model is constructed in precisely the same way as preceding models, and we confidently leave our young friend to make

it up for himself.

## Fig. No. 8. Model of Telpher Span



	Par	RTS REQUIRED.
4	$12\frac{1}{2}''$	Perforated Strips
4	$5\frac{1}{2}''$	,,
I	$2\frac{1}{2}''$	2, 3,
18		Angle Brackets.
I	$3\frac{1}{2}''$	Rod.
I	2"	27
I		Crank Handle.
4		Wheels.
30		Nuts and Bolts.
4		Wood Screws.
6		Keys.

For the information of our young friends we may say that Telpher is the name of the man who invented this device. It was designed to overcome the difficulty of transporting goods over hilly and difficult country. Its construction cannot fail to fix in the mind the principles on which it works.

We recommend that the standards be screwed down before connecting the cords. The crank-pulley cord may be wound twice around the pulleys to ensure a better grip.

#### Further Possibilities

Although this completes the models which we are able to illustrate here, it by no means exhausts the possibilities of MECCANO. For the guidance of our customers we have illustrated a number of elaborate and very beautiful working models, the construction of which will prove a never-ending source of delight and instruction. With each illustration will be found a list of the parts required, together with a list of the extra parts to a No. I MECCANO outfit, which it will be necessary to purchase before they can be made. All the parts may be purchased separately through any dealer, or direct from ourselves; and at the end of this book will be found a detailed price list, which we recommend our customers to study before ordering. We would add, that new and interesting models are constantly being designed by ourselves and users of MECCANO, and we are at all times glad to receive suggestions and designs from our customers, and to criticise and help in any way in our power. If our instructions are carefully read and followed there should be no difficulty in building up any of the models illustrated; but we are at all times glad to answer any questions, and to give any further instructions necessary.



#### Fig. No. 13. Luggage Barrow

#### PARTS REQUIRED.

- 6 51" Perforated Strips.
- 13 2½″,
- 8 Angle Brackets.
- 2" Rod.
- I Bush Wheel.
- 30 Nuts and Bolts.
- 2 Keys.

List of Parts required in addition to Meccano No. 1.

1 2½" Perforated Strip.



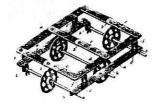
#### Fig. No. 14. Revolver Truck

#### PARTS REQUIRED.

- 4 53" Perforated Strips.
- 6 21" ..
- Angle Brackets.
- 3 5" Rods.
- 4 Wheels.
- 27 Nuts and Bolts.
- 10 Keys.

List of Parts required in addition to Meccano No. 1.

1 5" Rod.



42

#### Fig. No. 15. Railway Waggon

PARTS REQUIRED.

5 5½" Perforated Strips.

2 3½" ,, ,,

5 2½" ,, ,,

10 Angle Brackets.

2 5" Rods.

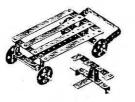
4 Wheels.

23 Nuts and Bolts.

Keys.

List of Parts required in addition to Meccano No. 1.

1 3½" Strip.



#### Fig. No. 17. Drawbridge

Parts Required.

9 12½" Perforated Strips.

11 5½" ,, ,,

8 2½" ,, ,,

12 Angle Brackets.

1 Crank Handle.

2 1" Pulley Wheels.

Nuts and Bolts.

3 12½" Perforated Strips.
1 5½" ,, ,,
12 Nuts and Bolts.

List of Parts required in

addition to Meccano No. 1.

Keys.

#### Fig. No. 16. Ladder on Wheels

Parts Required.

6 12½" Perforated Strips.

2 5½" ,, ,,

13 2½" ,, ,,

18 Angle Brackets.

2 5" Rods.

4 Wheels.

48 Nuts and Bolts.

4 Keys.

List of Parts required in addition to Meccano No. 1.

1 2½" Strip.
18 Nuts and Bolts.

4



#### Fig. No. 18. Travelling Jib Crane

PARTS REQUIRED.

2 2" ,,
I Crank Handle.
6 Wheels.

Bush Wheel.

Bush Wheel.

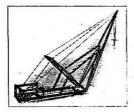
Pinion.

Pawl.
38 Nuts and Bolts.
Hook.

10 Keys.

List of Parts required in addition to Meccano No. 1.

6 12½" Perforated Strips.
4 5½" "
Rod.
8 Nuts and Bolts.



#### Fig. No. 19. Warehouse with Hoist

		TS REQUIRED.	List of Parts required in addition to Meccano No. 1.
9	$12\frac{1}{2}''$	Perforated Strips.	3 12½" Perforated Strips.
18	53"	22 22	, , , , , ,
4	-	Angle Girders.	4 Angle Girders.
12		" Brackets.	19 Nuts and Bolts.
2	2"	Rods.	1 Wood Screw.
1		Crank Handle.	
3		Wheels.	
I		Pawl.	
49		Nuts and Bolts.	
6		Wood-Screws.	
1		Hook.	
6		Keys.	

#### Fig. No. 20. Wheel

	PART	s Required.			Parts required in
8	122"	Perforated Strips.	aa		to Meccano No. 1.
8	51/	., .,	2	$12\frac{1}{2}''$	Perforated Strips.
8	21"	·	4	13"	Angle Girders. Pulleys.
4		Angle Girders.	18	-	Nuts and Bolts.
4 8		" Brackets.			
2	5"	Rods.			
3	12"	Pulleys.			
2	1"	,,			( AAA
1		Bush Wheel.			
48		Nuts and Bolts.			
4		Wood Screws.		4	

Keys.

#### Fig. No. 30. Cable Railway

	9			
	PARTS REQUIRED.			
6	51" Perforated Strips.			
6	31" ,,			
12	21"			
4	Angle Girders.			1
4 18	" Brackets.			
	5" Rods.			
I	13" Pulley.			
4 1 2 2 1	5" Rods.  1 1 Pulley.  1" ,,		A	
2	3" Pinions.		8	
1	Gear Wheel.			305150
2	3" Contrite Wheels.			
44	Nuts and Bolts.			
12	Wood Screws.			
13	Keys.			
	List of Parts required	in	addition	to Meccano No. 1.
5	31" Perforated Strips.		I	Gear Wheel.
	Angle Girders.		2	3" Contrite Wheels.
4	•			Nuts and Bolts.
4 2 1	5" Rods.		14	
	1½" Pulley Wheel.		7	Wood Screws.
2	<sup>3</sup> " Pinions.		1	Key.

#### Fig. No. 31. Warehouse with Elevator

1	, 18.	TAO.	31.	Y	v al	CIII	Jusc	. *****	.11 1		rui
9		TS REG	-		*			Parts to Med			
16	5½"	,,	arou	,,	-	3	121"	Perfor	ated	Strip	os.
4	31"	,,,		,,		5	52"	,,		12	
16 4	$2\frac{1}{2}''$	Angle	Girde	ers.		3	31"	**		11	
42		11	Bracl			4	21"	,,		,,	
1	5"	Rod.				4		Angle	Gird	lers.	
I	3½"	"				24		,,	Brac	kets.	
I	•	Crank	Han	dle.		1	2"	Rod.			
2		ulley V		S.		I	3"	Pinion	ı Wl	neel.	
I	4	Pinion. Gear				· 1		Gear	,,		
1		Pawl.	VV IICC	•		38		Nuts	and I	Bolts.	
68		Nuts				5		Wood	Scre	ws.	
9		Wood Keys.		ws.	*						
		-									



in

20

I

10 8

76

Keys.

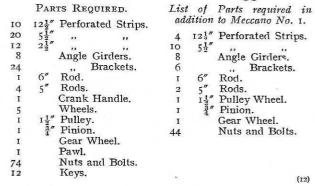
#### Fig. No. 32. Swing Bridge



#### PARTS REQUIRED.

4 16	121"	Perforated Strips.	I	Crank Handle.
16	51"	"	I	Bush Wheel.
4	33"	"	I ½"	Pinion.
IO	21"	**	I	Worm Wheel.
4		Angle Girders.	78	Nuts and Bolts.
34		" Brackets.	6	Keys.
I	5"	Rod.		
	List	of Parts required	in addition to	Meccano No. 1.
6	53"	Perforated Strips.	16	Angle Brackets.
6	32"	77	I	Worm Wheel.
4	100000000000000000000000000000000000000	Angle Girders.	48	Nuts and Bolts.

#### Fig. No. 33. Tower Waggon



#### Fig. No. 34. Swivelling & Luffing Jib Crane

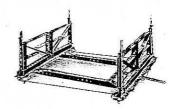
	PARTS REQUIRED.	
12	123" Perforated Strips.	1
8	5½" ,, ,,	an /
4 8	$3\frac{1}{2}''$	
S	$2\frac{1}{2}''$ ,,	
35	Angle Brackets.	11 -1 10/
3 1	5" Rods.	
	3½"	poor had 1
2	2" ,,	
1	Crank Handle.	
2	1½" Pulleys.	List of Parts required in
2	ı" "	addition to Meccano No. 1.
2 2 2 1 1	2" Pinions.	6 123" Perforated Strips.
I	1,"	3 3½" ,, ,,
1	Gear Wheel.	17 Angle Brackets.
2	3" Contrites.	I 5" Rod.
1	Pawl.	I I" ,,
71	Nuts and Bolts.	2 1½" Pulley Wheels.
6	Wood Screws.	<ol> <li>Pinions.</li> <li>Gear Wheel.</li> </ol>
I	Hook.	<ul> <li>Gear Wheel.</li> <li>3" Contrite Wheels.</li> </ul>
19	Keys.	Nuts and Bolts.
	*	I Wood Screw.
		7 Keys.

#### Fig. No. 35. Pit Head Gear

					10100 St.	
PAR	TS REQUI	RED.				required in
121"	Perforate	d Strips.	ada	utron	to Me	eccano No. 1.
5章"	2.7	**	4	$12\frac{1}{2}''$	Perfor	ated Strips.
37	"	"	10	51"	**	".
21/	11	,,	3	31/	,,	,,
	Angle Gir	ders. ickets.	I	3"	12	**
5"	Rod.	.0.10101	8		Angle	Girders.
2"	,, Crank Ha	_ 31_	2		"	Brackets.
11"		ndie.	I	11"	Pulley	Wheel.
I 1 " 3" 4 " 1 " 2"	Pinion.		1	3"	Pinion	n.
Gear Wheel.		1		Gear Wheel.		
	Pawl.		46		Nuts	and Bolts.
	TARES STREET	DOLES.				



#### Fig. No. 36. Level Crossing Gates



	PARTS REQUIRED.		of Parts re	
18	53" Perforated Strips.	addit	ion to Mecca	no No. 1.
4	32" "	8 9	½" Perforate	ed Strips.
17	$2\frac{1}{2}''$ ,, .,	3 3	32" ,,	,,
6	Angle Girders.	5 2	21," ,,	,,
32	" Brackets.	6	Angle Gi	rders.
4	Pulley Wheels.	14	,, Br	ackets.
75	Nuts and Bolts.	45	Nuts and	Bolts.

#### Fig. No. 40. Maxim Flying Machine

	0	 		o		
	PARTS REQUIRED.			Parts to Med		
8	12½" Perforated Strips.	2	121"	Perfor	ated	Strips
15	5½"	5 2	51"	.,		,, *
3	3½" ,, ,,		3½"	A "1	0:.1	**
		4		Angle		ers.
4	$2\frac{1}{2}''$ ,, ,,	2	112"	Rods.		
4	Angle Girders.	1		Bush		
18	D 1	2	3"	Pinion	1 Whe	els.
10	" Brackets.	1	,	Gear	Wheel	
2	11½" Rods.	1	13"	Contr	ite W	heel.
1	Crank Handle.	42		Nuts	and B	olts.
2	Bush Wheels.				,	
2	3" Pinions.		-			1
1	Gear Wheel.		1	M	1	
1	1½" Contrite.		11/	V	XIII	

Nuts and Bolts. Wood Screws. Keys.

#### Fig. No. 41. Travelling Crane

	PARTS REQUIRED.	List of Parts re	quired in
14	121" Perforated Strips.	addition to Meccan	io No. 1.
10	5½" 3"	8 121" Perforate	d Strips.
<del>4</del> 8	$3^{"}$ ,, ,, $2\frac{1}{2}^{"}$ ,, ,,	4 3″ ,,	,,
4	Angle Girders.	4 Angle Gi	rders.
34	" Brackets.	16 ,, Br	ackets.
2	5"	I II½" Rod.	
3	5" " "	2 2" ,,	
1 2 3 3 8	Crank Handles. Flanged Wheels.	2 Crank Ha	ındles.
1	1" Pulley.	8 Flanged V	Wheels.
I	Bush Wheel.	I 3" Pinion W	/heel.
	3″ Pinion.	4 ½" ,,	o.
5	Gear Wheel.	I Gear Who	eel.
1 82	Pawl. Nuts and Bolts.	52 Nuts and	
ı	Hook.	6 Keys.	
18	Keys.	12	



#### Fig. No. 42 Crane

	0			OI all	_	
	PARTS REQUIRED.	List	of	Parts	required a	in
18	121" Perforated Strips.	ada	dition	to Mecc	cano No. 1.	•
14	51" " "	12	121"	Perfora	ated Strips	
2 14	3½ ,, ,, ,,	4	51"	,,	,,	
40	Angle Brackets.	I	3₺"	**	,,	
	5" Rods.	2	21"	,,	,,	
3 5 2	2" ,, Crank Handles.	22		Angle :	Brackets.	
8	Flanged Wheels.	1	5"	Rod.		
2	I" Pulleys.	4	2"	,,		
2	¾" Pinions.	1		Crank	Handle.	
I	2" "	8		Flange	d Wheels.	
2 I	Gear Wheels. Worm Wheel.	2	3."	Pinion	s.	
ī	Pawl.	2		Gear V	Vheels.	
88	Nuts and Bolts.	I		Worm	,,	
1	Hook.	58		Nuts a	and Bolts,	
20	Keys.	8		Keys.		



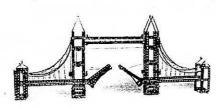
#### Fig. No. 43. Elevated Jib Crane

PARTS REQUIRED.	List of Parts required
121" Perforated Strips.	addition to Meccano No. 1
5 1 , , ,	10 5½" Perforated Strips
31" " "	5 3½" .,
Angle Girders.	4 Angle Girders.
" Brackets.	2 114" Rods.
115 Rods.	1 Crank Handle.
2" ,,	1 3" Pinion.
Crank Handles.	1 Gear Wheel.
	1 13" Contrite Wheel.
1"	1 Worm Wheel.
	33 Nuts and Bolts.
	1 Key.
Nuts and Bolts.	
Keys.	
	121" Perforated Strips.  51" " " 32" " " Angle Girders. " Brackets.  111" Rods. 32" " 2" " Crank Handles.  1" Pulleys. 3" Pinion. 1" Gear Wheel. 111" Contrite. Worm Wheel.

#### Fig. No. 50. Eiffel Tower

	PARTS REQUIRED.	List	of	Parts z re	quired in
13	121" Perforated Strips.		ition	to Meccai	no No. 1.
28	5 ½" ,, ,,	7	122"	Perforate	d Strips.
6	3 2 " "	18	53"	••	.,
13	31, " "	5	33"		.,
40 82	Angle Brackets.	1.3	3"	,,	
	5" Rods.	28	21"	1.00	.,
4	2" ,,	- 64		Angle Br	ackets.
2	11" Pulleys.	3	5"	Rods.	
1	Bush Wheel.	2	1 1 "	Pulleys.	
1	3" Pinion.	I	3"	Pinion V	Theel.
I	½" ,,	2	11"	Contrite	Wheels.
2	1½" Contrites.	I	100	Worm W	heel.
I	Worm Wheel.	158		Nuts and	Bolts.
188	Nuts and Bolts.				
12	Keys.				

#### Fig. No. 51. Tower Bridge



	PARTS REQUIR	ED	List	of 1	Parts req	uired in
35	12½" Perforate				to Meccan	
35 28	5.1"	,,	29	121"	Perforate	d Strips.
66	$2\frac{1}{2}''$	**	18	5 1 "	.,	,.
8	13"		54	2 !"	**	,,
92	Angle Bra	ickets.	8	1 1"	,,	,,
5	3½" Rods.		74	-	Angle Bra	nckets.
1	Crank Ha 1" Pulleys.	naie.	4	31"	Rods.	
1	4" Pinion.		I	-	Worm W	heel.
T	Worm WI	neel.	184		Nuts and	Bolts.
214	Nuts and		11		Wood Scr	ews.
16	Wood Scr	ews.	3		Keys.	
15	Keys.		***			

#### Fig. No. 52. Big Wheel

	1 18. 110.	U Di	5 Willeel
	PARTS REQUIRED.	List of	Parts required is
46	121" Perforated Strips.	addition	to Meccano No. 1.
38	5½"	40 121"	Perforated Strips.
4 18	3½",	$28 - 5\frac{1}{2}$	**
	3"	$\frac{3}{18} \frac{31}{3}$	., .,
26	2 1	18 3"	., .,
S	Angle Girders.	16 21"	
96	., Brackets.	8	Angle Girders.
4	11½" Rods.	78	Brackets.
τ	6" ,,	1 . 6"	Rod.
1 6	Flanged Wheels.	6	Flanged Wheels,
I	14" Pulley.	1 12'	Pulley.
4	Bush Wheels.	3	Bush Wheels.
4	3" Pinion.	1 3'	Pinien.
1	Gear Wheel.	1	Gear Wheel.
268	Nuts and Bolts.	235	Nuts and Bolts.
23	Kevs.	3	Wood Screws.
I	Length of Chain.	11	Keys.
S	Wood Screws.	ī	Length of Chain.
		4 111	





#### Fig. No. 53. Transporter

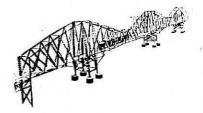
	PARTS REQUIRE	D.	List	of
20	121" Perforated	Strips.	udd	ition
38	5½" .,	,,	14 28	121"
2	3½" "	,,	1	31"
33	21" ,,	,,	21	21"
12	Angle Gird	ers.	12 14	
32	" Brac	kets.	2	11"
1	5" Rod.		4	1 1 "
I	31" "		137	
I	Crank Han	dle.		0
2	11" Pulley Who	eels.		KA
2	.1" ,, ,,		- /	
4	1" " " "			T
67	Nuts and E	olts.	15	
7	Keys			

	12½" Perfor: 5½" 3½" 2½" Angle 1½" Pulley	cano No. 1. ated Strips.  " Girders. Brackets. Wheels.
28 1 21 12 14 2 4	5½" ,, 3½" ,, Angle ,	Girders. Brackets. Wheels.
1 21 12 14 2 4	Angle Angle	Brackets. Wheels.
21 12 14 2 4	Angle Angle	Brackets. Wheels.
12 14 2 4	Angle Angle	Brackets. Wheels.
1.4 2 4	Li" Pulley	Brackets. Wheels.
2 4	11" Pulley	Wheels.
4	1"	
	1"	
	Nute a	
5.	Trillio a	nd Bolts.

#### Fig. No. 60. Big Wheel

	PARTS	Requir	RED.				uired in
98	123" I	Perforate	d Strips.	add	ition	to Meccan	o No. 1.
193	5 1 "	••		92	123"	Perforate	ed Strips.
60	3 2	**	••	183	53"		.,
120	3	,,	,,	59	31"		,,
194	23		1	120	3"		6
198		Angle Br	ackets.	182	21"	,,	.,
6	$11\frac{1}{2}''$		Wheels	6	112"	Rods.	
		Flanged '	wheels.	6		Flanged	Wheels.
1	1.5	Pulley.		1		Pulley	
2	2// 1	D: :-		3	3 *	Pinion	,;
2		Pinions.		3		Gear	,,
. 3		Gear Wh		860		Nuts and	l Bolts.
890		Nuts and		3		Wood Sc	rews.
8		Wood Sci	rews.	3 8		Keys.	
20		keys.	Service of the service of	I		Length o	f Chain.
1	]	Length o	f Chain.	•			





### Fig. No. 61. Forth Bridge

		Requii		List add	of i	Parts requi	ired in No. 1.
164		Perforate	ed Strips	158	121"	Perforated	Strips.
264	5 ½"	••		- 254	51"	,,	
122	3½"	••	* *	121	31"		.,
112	21"	••	. "	100	21"	1)	**
248	P	Ingle Br	ackets.	230		Angle Brac	kets.
850	1	Vuts and	Bolts.	820		Nuts and I	

## Contents of Box

No.	DESCRIPTION	OF	DADTE
INO.	DESCRIPTION	Or.	T WILLS.

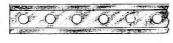
- 6 121" Perforated Strips.
- 10 51"
- I 3½" ,,
- .12  $2\frac{1}{2}''$
- 18 Angle Pieces.
- 2 5" Grooved Rods.
- 1 31"
- I 2"
- 1 Crank Handle.
- I Bush Wheel.
- 6 Wheels.
- 1 1 mion Wheel.
- 1 Pawl.
- 30 Nuts and Screws.
- 5 Wood Screws.

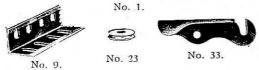
Hogk.

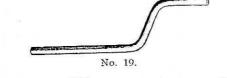
- 12 Kers.
- I Driver.
- 1 Hank Cord.
- 1 Ball Cord.
- , 1 Bent Strip.

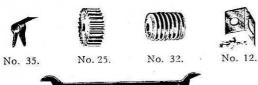
## Separate Parts

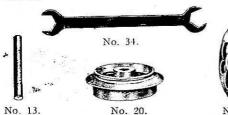












# CCC

## Price List of Additional Parts

									S.	d.
1.—Pe	erforate	d Strips	100				per !	doz.	0	9
2	"		52	, ,,		-	- 1	,	0	4
3.—	,,	**	32	,,	• •	• •	,	,	0	3
4.—	,,	**	3"	••		• •	,	,	0	3
5	,,	**	234	,,				•	O	3
6.—	9.9	**	2"	**	• • •		,	,	0	3
		ders, 12	½" lor	ng	• •		. 3	•	I	0.
12.—A	ngle Br	ackets		0.00			per	dozen	0	6
13.—A	xle Rod	, 11½" lo	ng	• •				each	O	3
14	**	6"	.,			2000		,,	0	2
15	**	5"	**	• •				.,	0	2
16.—	31	31"	**		# 150 ES			**	0	2
17	,,	2"							0	I
19.—C1	rank Ha	indle .			19030				0	3
20.—F	langed a	and Gro	oved	Wheel	• •	• •		e "	0	9
21.—P1	ılley W	heel, 1½	"long	ζ	• •	• •	140	.,	0	6
22	n :	,, I"				***		10 Met 2	0	4
23.—	,,	., 1"	,,		• •			2.2	0	2
24.—B	ash Wh	eel .					• •	**	0	6
25.—Pi	nion W	heel, 🚏	long					,,	0	9
26.—	1.7	,, ½"	37			• •			0	6
27.—G	ear Who	eel, 1½"	"	15558	***		0.50.51	• • •	0	10
28.—Co	ontrite \	Wheel,	1½" lo	ng				,,	I	3
29.—	.,	,,	3"			• •		,,	1	0
32.—W	orm W	heel .	•			* *		**	0	9
33.—Pa	twl			• •				••	0	3
34.—SI	anner	9.	•	3.51			10.00	•••	0	3
35K	evs			• •			per	dozen	0	6
36,—Tı	ırn Scre	ews .		* *	12023			each	0	3
37.—N	uts and	Bolts .	-		• •	1.00	per 2	dozen	1	0
39.—B	all Cord	(Specia	1)					each	O	2
40.—H	ank Co	rd .		• •	• •		••	,,	0	1

## Price List

No.	1	•	Meccano Out	it .			5/-
,,,	2		"		•	•	10/-
,,	3		, , , , , , , , , , , , , , , , , , ,	•		•	15/-
. ,,	4		,,,	•			25/-
,,	5		,,				42/-
93	6		99 1				84/-



