

which is bolted to the Flanged Sector Plate.

The tower is rotated on the base by means of a belt of Cord which passes around the lower 3" Pulley 4 and a Pinion 18 that is fixed by nuts between two $\frac{3}{4}$ " Washers on a $3\frac{1}{2}$ " Screwed Rod 19. The Screwed Rod is mounted in a Stepped Bent Strip and is held in place by lock-nuts 20. A 57-Tooth Gear is locked on the Screwed Rod to form a hand wheel.

The jib consists of two pairs of $12\frac{1}{2}$ " Strips separated from each other at the inner end by a $1\frac{1}{2} \times \frac{1}{2}$ " Double Angle Strip and by a Double Bracket 21 at the outer end. The jib pivots on a $3\frac{1}{2}$ " Rod that is journalled in the lugs of the $2\frac{1}{2} \times \frac{1}{2}$ " Double Angle Strip 11. A 1" loose Pulley 22 at the jib head is mounted on a $1\frac{1}{2}$ " Rod and two 1" Pulleys 23 are free on a 2" Rod 24. A 2" Rod is journalled in the Flat Trunnions 9 at the top of the tower and it carries three further 1" Pulleys 25. A piece of Cord is tied to a Cord Anchoring Spring on the $4\frac{1}{2}$ " Rod 15 and then taken over one of the outer Pulleys 25 and the 1" Pulley 22 at the

jib head. A Loaded Hook is fastened to the end of the Cord and a $\frac{1}{2}$ " loose Pulley, which is threaded on the Cord, forms an additional weight.

A second length of

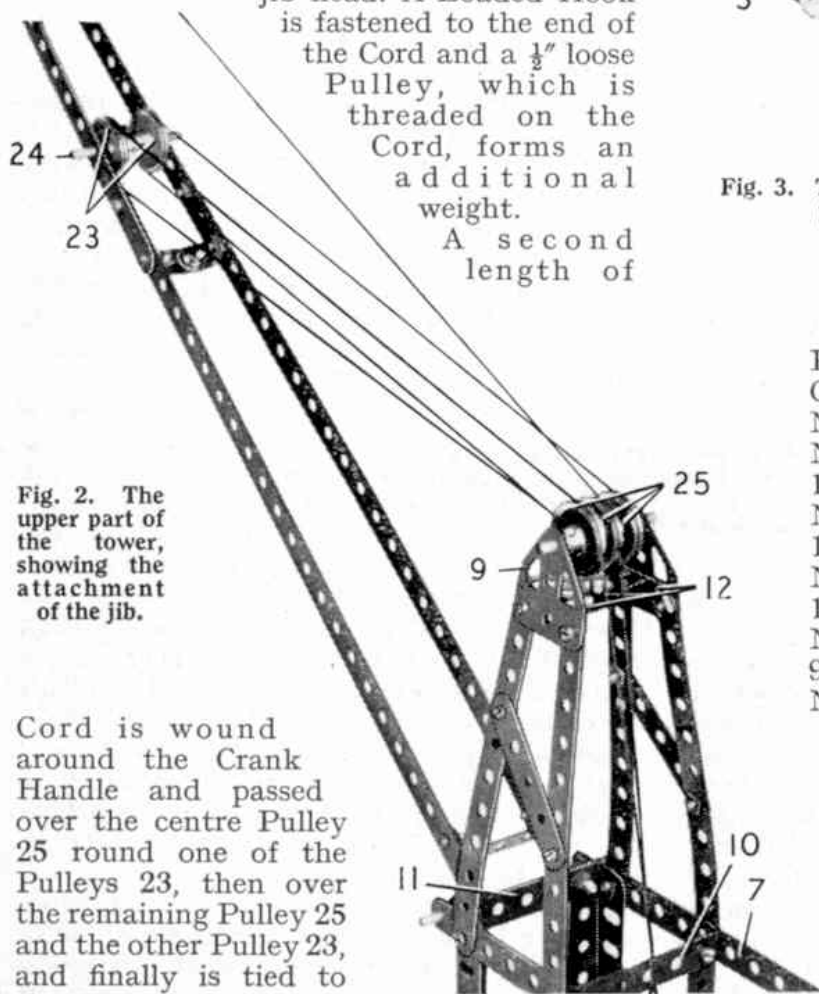


Fig. 2. The upper part of the tower, showing the attachment of the jib.

Cord is wound around the Crank Handle and passed over the centre Pulley 25 round one of the Pulleys 23, then over the remaining Pulley 25 and the other Pulley 23, and finally is tied to the top of the tower.

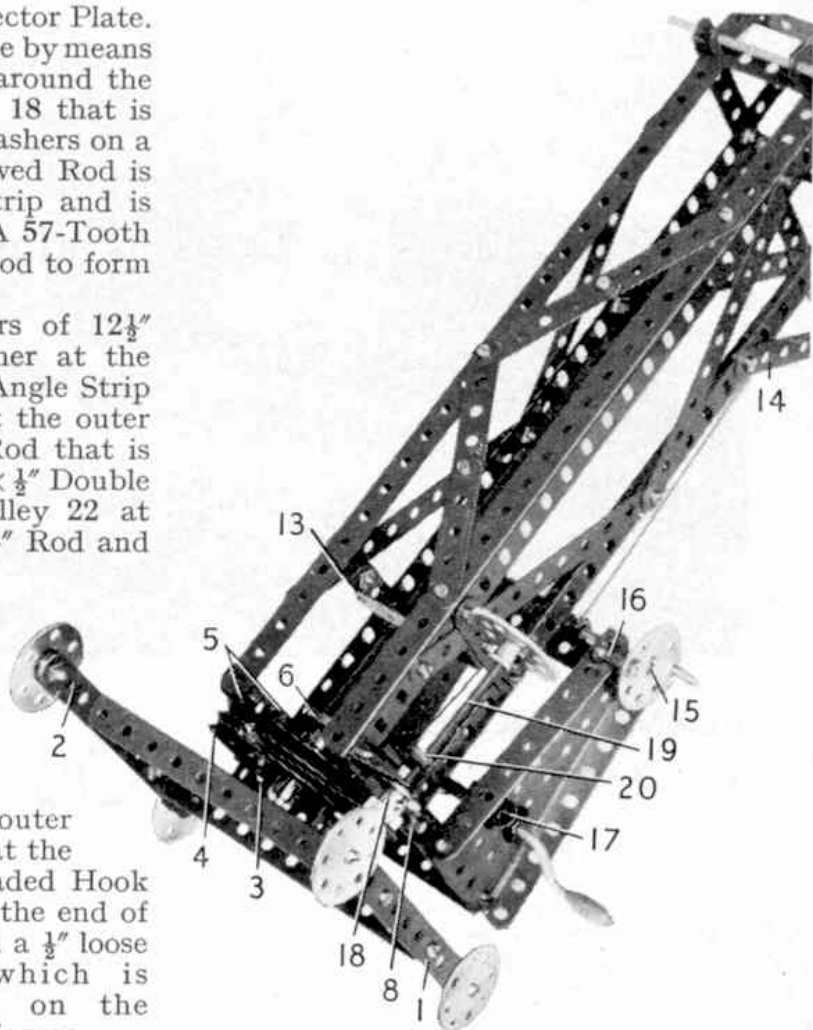


Fig. 3. This view shows the details of the lower part of the tower and the base.

Parts required to build the Tower Crane: 6 of No. 1; 14 of No. 2; 1 of No. 3; 9 of No. 5; 4 of No. 8; 1 of No. 10; 1 of No. 11; 3 of No. 12; 1 of No. 15a; 1 of No. 15b; 1 of No. 16; 2 of No. 17; 1 of No. 18a; 1 of No. 19g; 2 of No. 19b; 5 of No. 22; 2 of No. 22a; 1 of No. 23; 1 of No. 24; 2 of No. 24a; 2 of No. 24c; 1 of No. 26; 1 of No. 27a; 9 of No. 35; 97 of No. 37a; 82 of No. 37b; 9 of No. 38; 2 of No. 38d; 1 of No. 40; 1 of No. 44; 1 of No. 48; 6 of No. 48a; 1 of No. 51; 1 of No. 52; 2 of No. 54; 1 of No. 57c; 1 of No. 80c; 6 of No. 111c; 1 of No. 115; 4 of No. 125; 2 of No. 126; 2 of No. 126a; 1 of No. 147b; 1 of No. 176; 4 of No. 192.