New Meccano Models

Further Applications of New Blue-Gold Parts

LAST month we dealt with the new introductions to the Meccano range and showed a few examples of their many applications. The models illustrated here show more instances where great improvements are effected by the use of the new parts. In general, the Strip Plates and Flexible Plates give the models a much more solid appearance, and in consequence add to their realism.

Stamping Mill

This simple model can be built with Outfit A, yet it has quite a solid appearance, and is interesting to construct and operate. An added feature is the use of the lanterns from the Meccano Lighting Set to illuminate the operating mechanism. One of the lanterns can be seen at the back of the model, and the other is mounted under the roof.

A $5\frac{1}{2}$" Strip is bolted to each corner of the $5\frac{1}{2}" \times 2\frac{1}{2}"$ Flanged Plate forming the base, and these are connected together at their upper ends by $2\frac{1}{2}$" Curved Strips as shown. Two $2\frac{1}{2}$" Strips are bolted between Angle Brackets secured to the $5\frac{1}{2}$" Strips, and carry $2\frac{1}{2}" \times 2\frac{1}{2}"$ Flexible Plates that are attached to the Curved Strips by a $2\frac{1}{2}" \times \frac{1}{2}"$ Double Angle Strip. Two Flat Trunnions, bolted to the side Flanges of the base plate, carry $2\frac{1}{2}$" Strips that are joined at the top by a $2\frac{1}{2}" \times \frac{1}{2}"$ Double Angle Strip to which a Reversed Angle Bracket is bolted. A $3\frac{1}{2}$" Rod slides in the upper hole of the Reversed Angle Bracket and in the centre hole of the Double Angle Strip and carries two 1" Pulleys. The lower Pulley forms the stamp and the upper one is struck on the underside by Flat Brackets bolted to a Bush Wheel. The Bush Wheel is carried on a Crank Handle journalled in two vertical $2\frac{1}{2}$" Strips, and retained in place by Spring Clips. As the Bush Wheel rotates, the brackets raise the stamp, which drops again as soon as it is released.

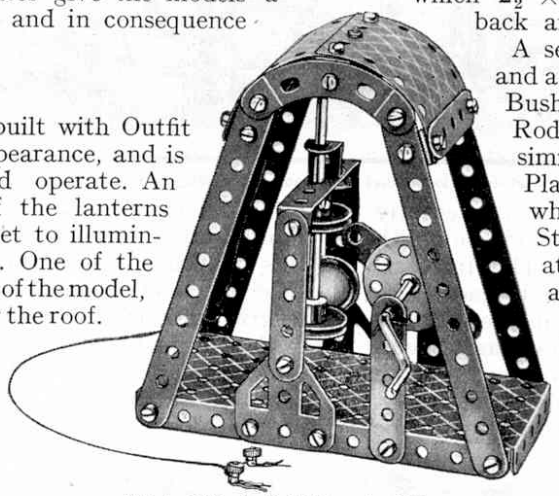

Fig. 1. A Simple Model Stamping Mill.

Parts required for Stamping Mill: 4 of No. 2; 6 of No. 5; 2 of No. 10; 4 of No. 12; 1 of No. 16; 1 of No. 19s; 2 of No. 22; 1 of No. 24; 2 of No. 35; 33 of No. 37; 2 of No. 48a; 1 of No. 52; 2 of No. 90a; 1 of No. 125; 2 of No. 126a; 1 Lighting Set.

Motor Breakdown Crane

The chassis of the model shown in Fig. 2 is made by extending a $5\frac{1}{2}" \times 2\frac{1}{2}"$ Flanged Plate by means of a Sector Plate, the two being joined together by $5\frac{1}{2}$" Strips bolted along the edges. The sides are each formed from two Flexible Plates, $5\frac{1}{2}" \times 2\frac{1}{2}"$ and $4\frac{1}{2}" \times 2\frac{1}{2}"$, strengthened by means of Strips as shown. The Strips support also a further Sector Plate used for the top of the bonnet, and the new $2\frac{1}{2}" \times 1\frac{1}{2}"$ Flanged Plate is mounted at the front, between the upper and lower Sector Plates, to form the radiator. The cab is built up from Strips to which $2\frac{1}{2}" \times 2\frac{1}{2}"$ Flexible Plates are bolted at the back and top.

A seat is made from a Double Angle Strip, and a dummy steering wheel is represented by a Bush Wheel on a $3\frac{1}{2}$" Axle Rod. A 4" Axle Rod is journalled in the Flanged Plate and a similar Rod is journalled in the lower Sector Plate. These Rods carry Road Wheels for which mudguards are provided by $5\frac{1}{2}$" Strips at the front and by $2\frac{1}{2}$" Strips fitted at each end with Obtuse Angle Brackets, at the rear.

Two $5\frac{1}{2}$" Strips are bolted to the upper holes of Trunnions that are secured to the $5\frac{1}{2}" \times 2\frac{1}{2}"$ Flanged Plate, and at their upper ends are extended by $2\frac{1}{2}$" Curved Strips. Cords are tied to the top of the jib so formed and to the back of the cab to retain the jib in position. A Crank Handle carries two $\frac{1}{2}$" Pulleys between which the hoisting cord is wound, and the other end of the cord passes over a $\frac{1}{2}$" loose Pulley at the jib head and is tied to the hook.

A 1" Pulley is mounted on a $\frac{3}{8}$" Bolt carried in an Angle Bracket that is bolted to the cab top. The Pulley represents a searchlight but can be replaced by one of the lanterns from the Meccano Lighting Set.

Parts required for Breakdown Crane: 8 of No. 2; 1 of No. 3; 9 of No. 5; 4 of No. 10; 1 of No. 11; 7 of No. 12; 4 of No. 12c; 2 of No. 15b; 1 of No. 16; 2 of No. 17; 1 of No. 19s; 4 of No. 22; 1 of No. 23; 1 of No. 24; 4 of No. 35; 66 of No. 37; 1 of No. 37a; 2 of No. 38; 1 of No. 40; 1 of No. 44; 5 of No. 48a; 1 of No. 51; 1 of No. 52; 2 of No. 54a; 1 of No. 57c; 4 of No. 90a; 2 of No. 111c; 2 of No. 126; 2 of No. 126a; 1 of No. 176; 4 of No. 187; 3 of No. 190; 2 of No. 191; 2 of No. 192.

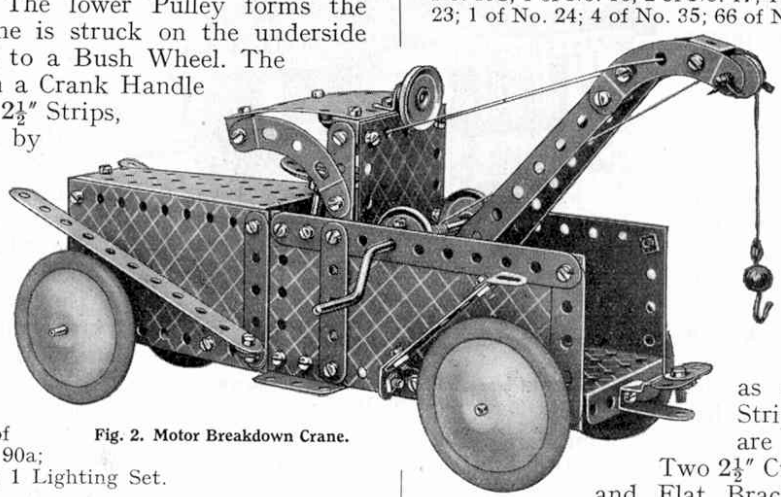

Fig. 2. Motor Breakdown Crane.

Hay Cart

This amusing model shows a novel use for the $2\frac{1}{2}" \times 2\frac{1}{2}"$ Flexible Plates. The body of each horse is formed by curving a Plate as shown and securing $2\frac{1}{2}$" Strips to Angle Brackets that are bolted inside the Plate. Two $2\frac{1}{2}$" Curved Strips form the neck, and Flat Brackets are bolted to these for the head.

The cart consists of a $5\frac{1}{2}" \times 2\frac{1}{2}"$ Flanged Plate to which are bolted a pair of Trunnions and a pair of Flat Trunnions for carrying the wheel axles. The Plate is mounted with the flanges uppermost and the shafts are bolted to two Double Brackets that are secured to the front