

New Meccano Models

Tradesman's Delivery Van—Simple Crane

THE three-wheeler delivery van shown in Fig. 1 is a fine subject for model-builders who have a fairly large stock of Meccano Parts at their disposal, and it is quite simple in construction. Younger model-builders who possess only small Outfits will find the simple revolving crane shown in Fig. 2 within their scope. Although it is very easy to build, the crane works quite well.

The tradesman's van is built up in two main parts, the van itself and the rear portion consisting of the driving wheel, saddle and frame. The van is constructed mainly from Flat Plates bolted to Angle Girders at the corners, with a $5\frac{1}{2}" \times 2\frac{1}{2}"$ Flanged Plate for the base. The lid is also a $5\frac{1}{2}" \times 2\frac{1}{2}"$ Flat Plate, fitted to one side by means of a Hinge. Suitable bearings for the front wheel axle can be formed in various ways, for example by bolting Flat Trunnions to the sides of the van, or by bolting a Double Angle Strip to the underside of the base. The head-lights are $\frac{3}{4}"$ Contrates fixed to Flat Brackets, and the mudguards are Formed Slotted Strips attached to Angle Brackets. The wheels are 2" Pulleys shod with Rubber Tyres.

Two Strips 1 are pivoted to the underside of the van by bolting them to a Double Bracket. To these Strips are attached two $3\frac{1}{2}"$ Strips 2, which pivot on the crank Rod 3, and at their upper ends are joined by a Double Bent Strip. This Double Bracket carries also the two Strips 4, the lower end holes of which support the rear axle. The axle also passes through the rear end holes of the Strips 1.

A 1" Sprocket Wheel on Rod 3 is linked by chain with a $\frac{3}{4}"$ Sprocket Wheel on the rear axle. The Rod 3 is fitted at each end with a Crank, and each Crank carries a Threaded Pin 5 that forms one of the pedals.

The saddle consists of Flat Trunnions

6 and 7, which are spaced apart by Compression Springs placed on the three Bolts that hold the Trunnions together. The lower Flat Trunnion is bolted to the Double Bent Strip. The rear mudguard consists of two Formed Slotted Strips joined together.

Model-builders who possess the necessary Meccano parts will find it a good idea to build up a simple figure of a man with pivoted legs, which can be mounted on the saddle with his feet touching the pedals. A figure of this kind would add considerably to the realism of the model, but in building

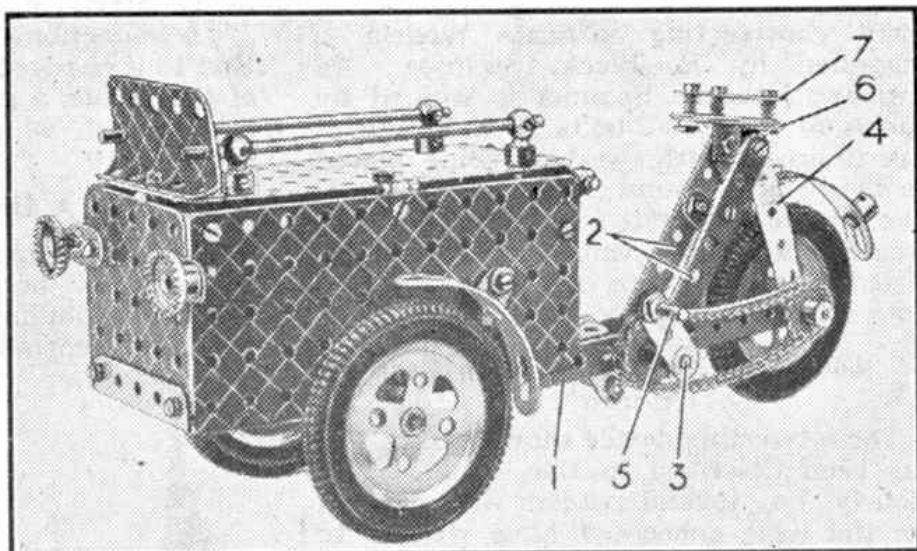


Fig. 1. A fine delivery van that runs well and is easy to build. It can easily be fitted with a rider whose legs move realistically.

it care should be taken to ensure that its proportions are in keeping with the general scale of the van. The legs should be formed from Strips, and must be locknotted to the body so that they are quite free to pivot or move as the pedals rotate.

Model-builders who do not possess all the particular parts specified will find it possible by the exercise of a little ingenuity to use other parts in constructing the model. For example, instead of hinging the lid of the van to the body a Hinged Flat Plate could be used to form both the one side and the hinged lid. Similar variations in other parts of the construction will readily suggest themselves to a keen model-builder.

Parts required to build model Tradesman's Delivery Van: 2 of No. 2; 2 of No. 3; 2 of No. 4; 4 of No. 9d; 1 of No. 9f; 3 of No. 11; 4 of No. 12; 2 of No. 15; 1 of No. 16; 2 of No. 16a; 2 of No. 17; 3 of No. 20a; 2 of No. 29; 43 of No. 37a; 39 of No. 37b; 6 of No. 38; 1 of No. 45; 1 of No. 52; 1 of No. 59; 2 of No. 62;