

Fig. 2. Another view of the Trolley Bus.

a Crank 14. This Crank is fixed on the lower end of the steering column, which is mounted in a Flat Trunnion 15 and one of the chassis girders.

An E020 or E06 Electric Motor is attached to the chassis by Fishplates as shown, and is connected by a Driving Band to a 2" Pulley fixed on an $11\frac{1}{2}$ " Rod 16. This Rod is mounted in a $3\frac{1}{2}$ " and a $2\frac{1}{2}$ " Strip attached to the chassis by $\frac{1}{2} \times \frac{1}{2}$ " and 1×1 " Angle Brackets respectively. The Rod 16 is fitted with a Worm, which meshes with a $\frac{1}{2}$ " Pinion on the rear axle. The rear axle consists of a $6\frac{1}{2}$ " Rod, and is mounted in Flat Trunnions bolted to the chassis.

The roof is attached to $5\frac{1}{2}$ " Strips fixed to Obtuse Angle Brackets held by the Bolts 17. The edges of the roof are filled in by three $12\frac{1}{2}$ " Strips on each side, and the centre is formed by three $3\frac{1}{2} \times 2\frac{1}{2}$ " Flanged Plates and two $4\frac{1}{2} \times 2\frac{1}{2}$ " Flexible Plates. The front consists of a $5\frac{1}{2} \times 2\frac{1}{2}$ " Flexible Plate 18, and the rear portion is filled in by Flexible Plates of various sizes arranged as shown in Fig. 2.

Each of the trolley booms consists of a 5" and a $4\frac{1}{2}$ " Rod joined by a Rod Connector. The booms

are fitted at their lower ends with Collars, and a $\frac{1}{2}$ " Bolt 19 is passed through one of the lugs of a $1\frac{1}{2} \times \frac{1}{2}$ " Double Angle Strip 20 and screwed into each Collar. The Double Angle Strip 20 is attached by a lock-nutted bolt to a $2\frac{1}{2} \times 1\frac{1}{2}$ " Flanged Plate fixed to the centre of the roof by $\frac{3}{4}$ " Bolts. A Spring is bolted to the Flanged Plate and to a Coupling connecting the booms.

This Month's Model-Building Competition

Have you ever won a prize in a model-building Contest? If you have not, there is all the more reason why you should enter the contest announced here, for you may win one of the fine prizes offered. All you have to do is to build a Meccano model entirely from your own ideas. This may be of any type, and the only condition is that it must be your own unaided work. You are eligible to compete in this contest no matter what your age may be, and there is ample time before the closing date in which to find an interesting and original subject and then build it in Meccano.

Any size of Outfit may be used in building models.

After the model is built the next job is to obtain a suitable illustration of it. This may be either a photograph or a sketch. Write your age, name and address on the back of the illustration, and enclose it, together with a brief description of the model and its operation, in an envelope addressed "August General Model-Building Contest, Meccano Ltd., Binns Road, Liverpool 13."

Entries will be grouped into two Sections, and a competitor's age will be taken into consideration when assessing the merits of his work. Section A will be for competitors of all ages living in the British Isles, and all entries from Overseas competitors will be placed in Section B.

The prizes to be awarded in each Section for the best-built and most interesting models received are: First, Cheque for £2/2/-; 2nd, Cheque for £1/1/-; 3rd, P.O. for 10/6. There will be also consolation prizes of 5/- each for entries of merit that do not gain major awards.

The closing date for Section A is 30th September, but entries for Section B will be accepted until 31st December next. All prize-winners will be notified by letter.

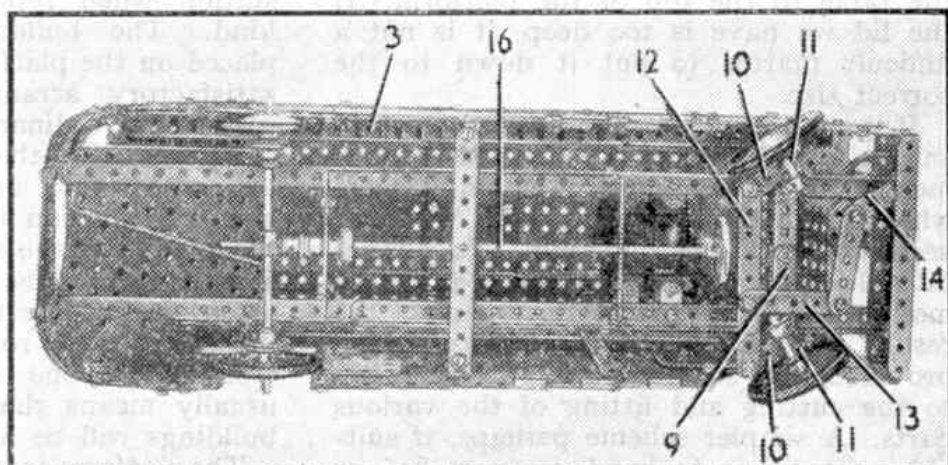


Fig. 3. The Trolley Bus seen from underneath, showing the steering and driving mechanisms.