

Among the Model-Builders

By "Spanner"

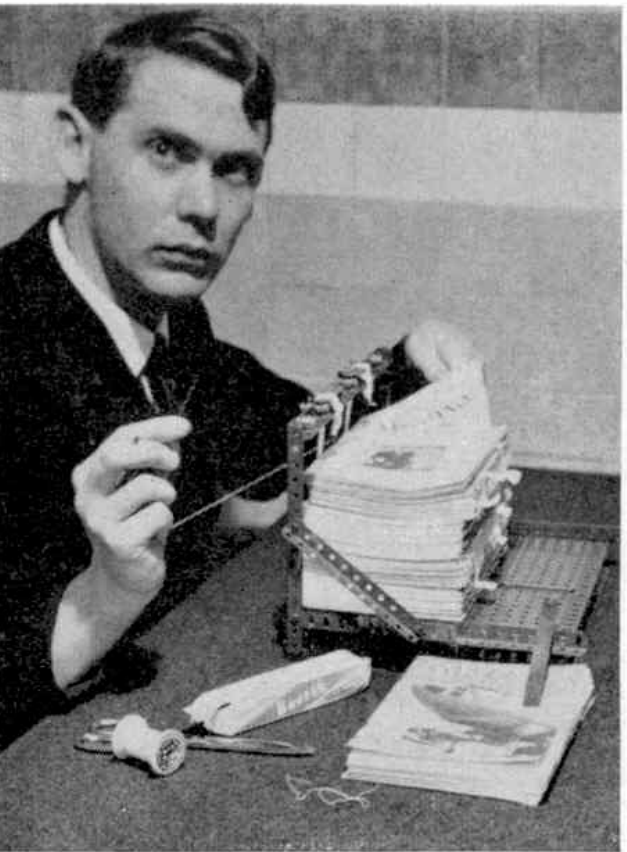
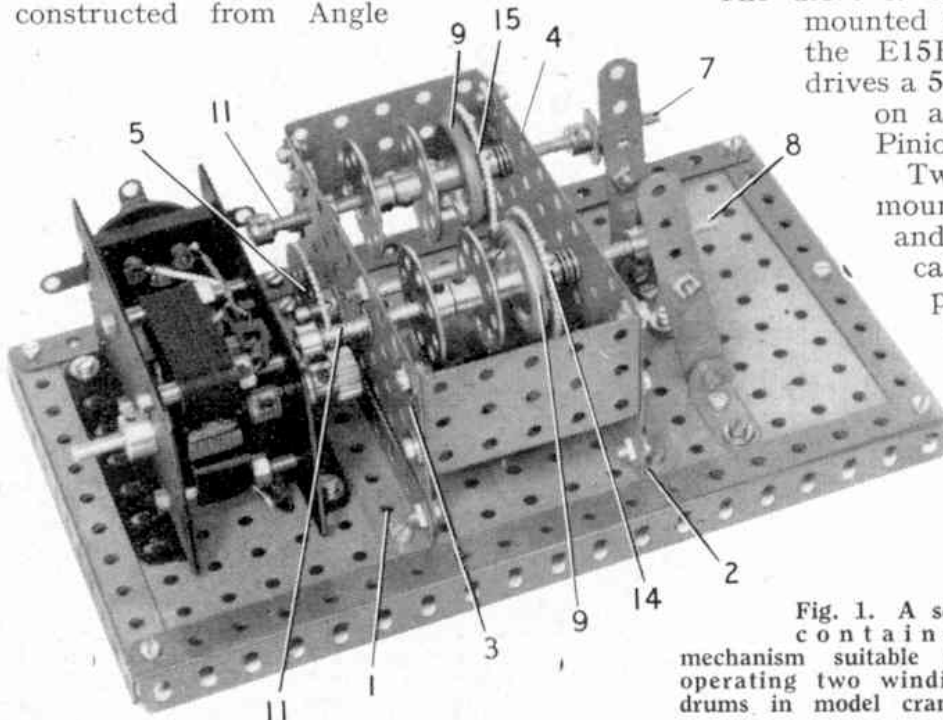
A Novel Use for Meccano

The upper illustration on this page shows one of my valued correspondents, Mr. Alan B. Partridge, Northampton, engaged in binding his *Meccano Magazines* with the aid of a useful stitching frame he made up from Meccano parts. Mr. Partridge likes doing things for himself and he says that the stitching frame has proved very successful.

Winding Drum Unit for Cranes

The mechanism shown in Fig. 1 is a self-contained arrangement for operating two winding drums in model cranes. One of the drums can be used to control the luffing of the jib and the other to control raising and lowering of the load. The mechanism is a complete unit ready for installing in the cab of the crane and is actuated by an E15R Electric Motor.

The base of this mechanism, which of course will be the floor of the cab in an actual model, is suitably constructed from Angle



Mr. Alan B. Partridge, Northampton, and his binding apparatus. See note on this page.

Girders and Flat Plates. Two $3\frac{1}{2}$ " Angle Girders 1 and 2 are bolted across the floor, and to them are bolted the two side-plates 3 and 4 that provide the bearings for the mechanism shafts. These are joined together by a $2\frac{1}{2}$ " \times $1\frac{1}{2}$ " Flanged Plate at each end.

The drive is taken from a $\frac{1}{2}$ " Pinion mounted on the driving shaft of the E15R Motor. This Pinion drives a 57-Tooth Gear 5 mounted on a Rod that carries a $\frac{1}{2}$ " Pinion 6 inside the side-plates.

Two Rods 7 and 8 are mounted in the side-plates 3 and 4 as shown, and each carries between the side-plates a loose 57-tooth Gear 14 or 15, a fixed 1" Pulley 9 fitted with a Rubber Ring, two fixed Bush Wheels placed boss to boss to form a winding drum, and a Collar, in one of the screwed holes of which a $\frac{3}{8}$ " Bolt 10 is fixed.

Fig. 1. A self-contained mechanism suitable for operating two winding drums in model cranes.

Outside the side-plate 3 a