

# Among the Model-Builders

By "Spanner"

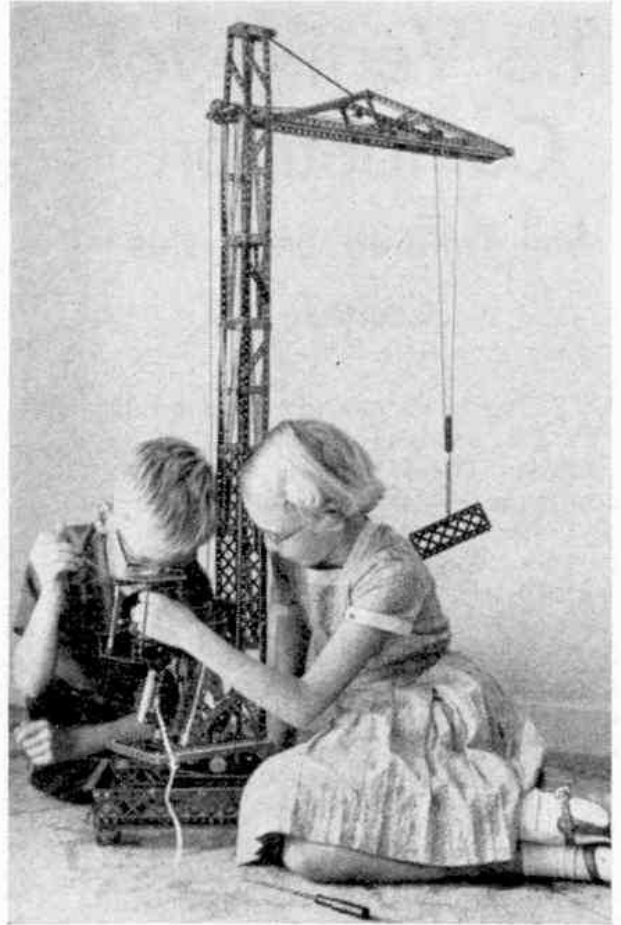
## A Simple Reversing Mechanism

The mechanism shown in Fig. 1 will provide model-builders with a very useful reversing mechanism for use in a variety of models. For instance, it could form a worthwhile addition to many small model cranes and other simple models in which it is desired to change the direction of operations.

The frame of the model consists of a  $2\frac{1}{2}'' \times 1\frac{1}{2}''$  Flanged Plate to which are bolted two  $1'' \times 1''$  Angle Brackets, and two Trunnions spaced from the Flanged Plate by Washers. A 2" Rod journalled in the upper holes of the Trunnions carries a 57-tooth Gear and a 1" Pulley.

To the  $1'' \times 1''$  Angle Bracket 1 a Fishplate is fixed by means of a Threaded Pin 2. A second Threaded Pin 3 is fixed in the remaining free hole of the Fishplate.

Two  $\frac{1}{2}''$  Pinions 4 and 5 are carried on a rocker, which consists of a Double Arm Crank 6 carrying



Brian Hill, age 8, and his sister Carole, age 9, of West Norwood, London S.E.27, putting finishing touches to a model tower crane they have built.

a Triangular Plate 7, one hole of which is passed over the Rod. 8. The Triangular Plate carries two  $\frac{1}{2}''$  Pinions, one of which is supported on a  $\frac{3}{4}''$  Bolt that is lock-nutted in place. The Pinion 4 is mounted on a 2" Rod passed through the remaining free hole of the Triangular Plate.

A  $1\frac{1}{2}''$  Strip is bolted at right-angles to the Double Arm Crank 6, and a piece of elastic, fixed at one end on a Bolt 9 and then looped through the  $1\frac{1}{2}''$  Strip as shown, keeps either of the Pinions in engagement with the 57-tooth Gear as required. By moving the  $1\frac{1}{2}''$  Strip, either of the Pinions 4 and 5 can be made to mesh with the 57-tooth Gear, a drive in either

forward or reverse directions thus being obtained.

## A Novel Weather Prophet

Mr. Andreas Konkoly, Budapest, Hungary, is a very keen Meccano enthusiast who has previously sent me details of

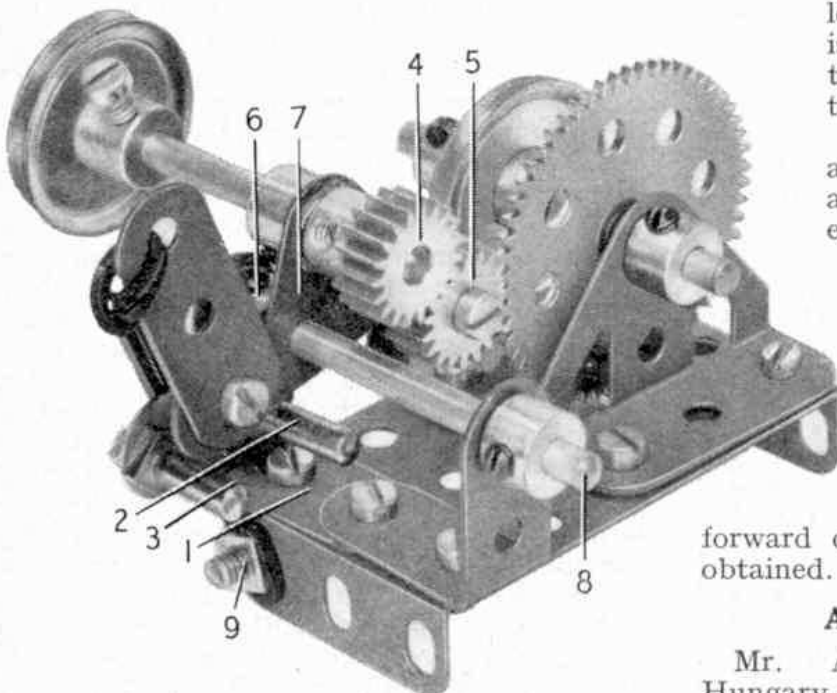


Fig. 1. A useful Reversing Gear.