FINE BUS WITH A MECCANO CHASSIS

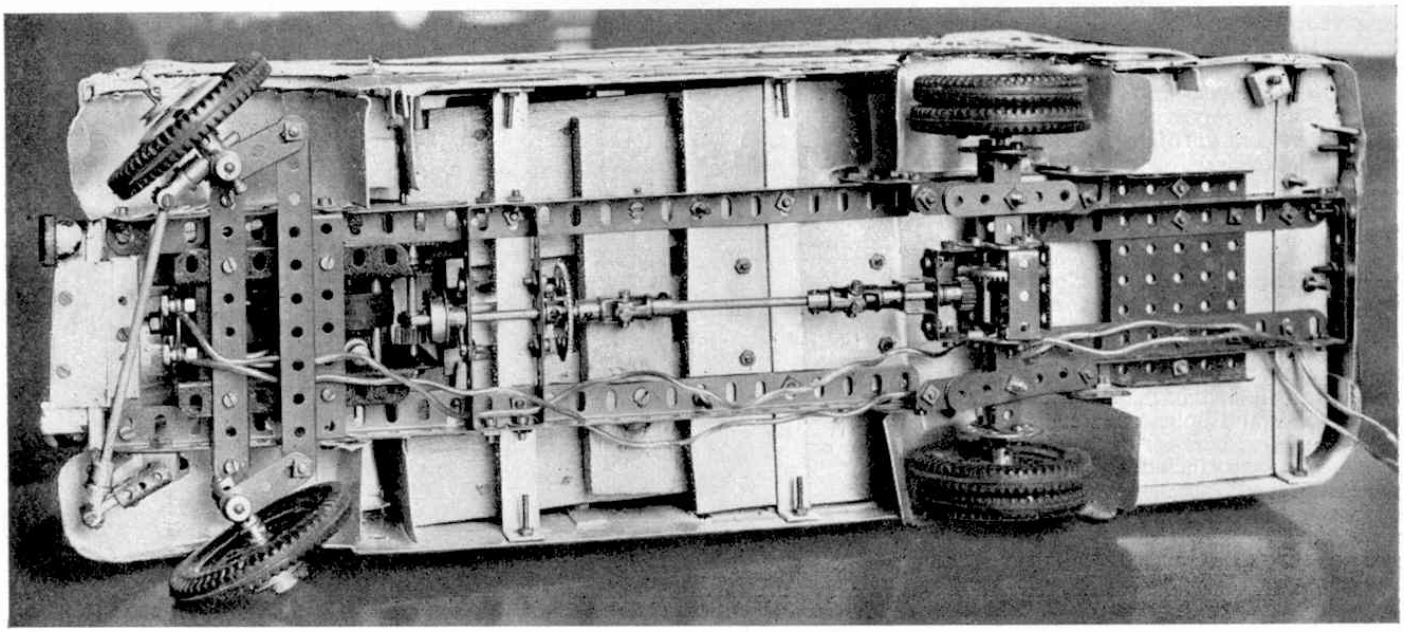
Among the Model-Builders

BY SPANNER

THE illustrations on this page show a fine hand-made model of a Guy Bus, based on one of a type owned by Birkenhead Corporation Passenger Transport Department. It was built by Mr. D. Nicholas, of Birkenhead, and represents many hours of painstaking work. The bus is built upon a Meccano chassis, seen in the underneath view, and the bodywork is constructed from sheet aluminium with wood veneer facings. The wheels are made from tin lids. The windows are glazed with Perspex, and the upper and lower decks are fitted with neatly-made modern type seats. Other attractive and realistically executed details can be seen in the illustrations.

AN AUTOMATIC GEAR-CHANGE MECHANISM

This useful Meccano mechanism is shown in the lower illustration on the next page. The Rod on which the 1½″ Contrate Wheel 1 is mounted, is journalled in the Motor side-plates and is driven from the armature shaft through 3:1 ratio reduction gearing. A similar Contrate 2 is fixed on a Rod that is journalled in the gear-box, in such a manner that it is in line with the Rod carrying the Contrate 1. A Coupling, which holds a 1″ Rod in each of its ends, is then placed on the Rod, and a ½″ Pinion is mounted loosely on each 1″ Rod, the Pinions being held in place by Collars 3. The Contrates mesh with the Pinions and it should be noted that the Coupling is *free to rotate* about its Rod.

Fixed to the Rod that carries the

A fine model bus built by Mr. D. Nicholas, Birkenhead. It is fitted with a Meccano Chassis seen in the underneath view of the bus below.