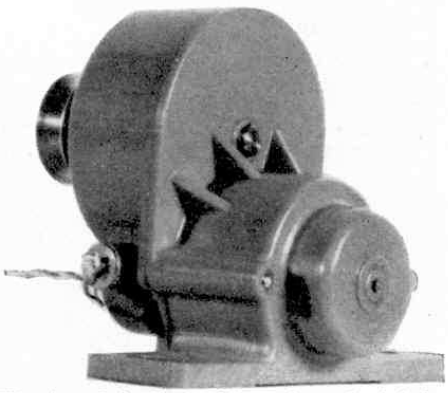
NEW MECCANO BATTERY-DRIVEN MOTOR

The Emebo—A Compact Job With Amazing Power



This view of the Emebo Motor shows the ½ inch Pulley, which can be removed and replaced by a different-sized Pulley, Meccano Gear or Sprocket Wheel.

MECCANO enthusiasts everywhere will welcome the news that a fine new Electric Motor is now appearing in the shops. Known as the Emebo, it will strengthen the existing range of Meccano Clockwork and Electric Motors and should prove of great value to the keen modeller.

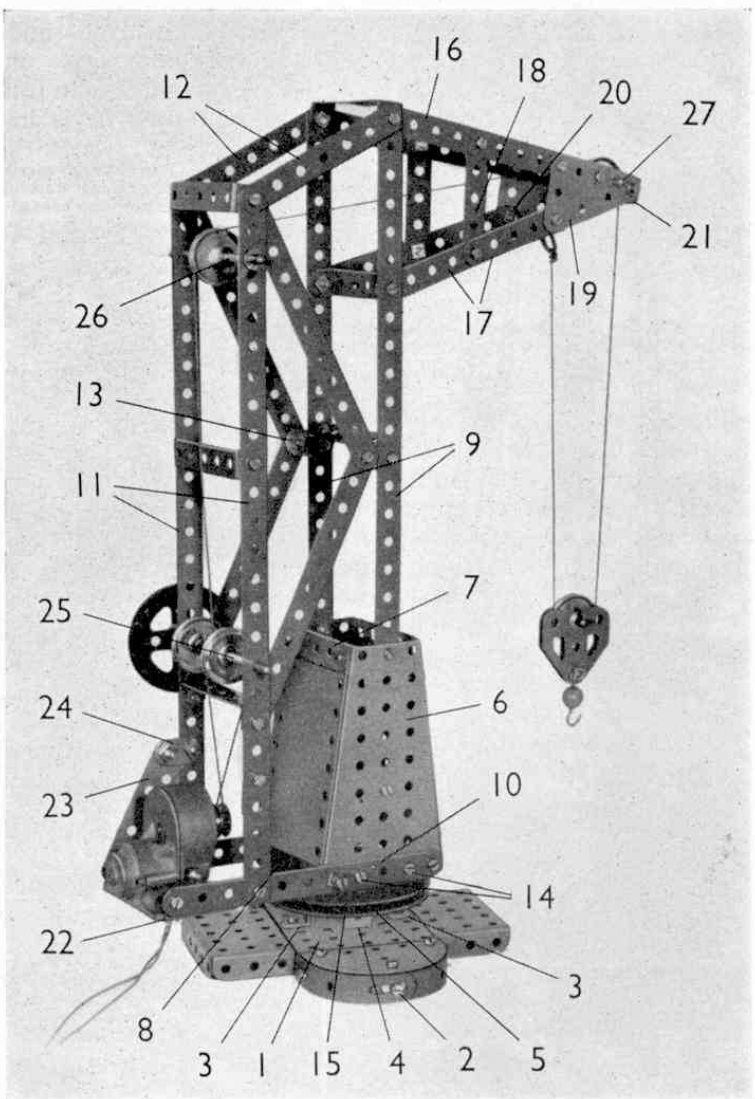
The new motor has a rating of 4–12 volts D.C. and has been designed to operate from dry batteries such as Exide H30 or Ever Ready 126 or, indeed, a 6-volt accumulator. If it is operated from batteries, a variable voltage can be obtained by using a suitable battery controller which will provide speed control both forward and reverse.

Although the unit is quite small and compact it develops amazing power and is quite capable of driving models built from Outfits up to No. 6 or even larger.

Moulded in an attractive red plastic the *Emebo* Motor is fitted with a removable ½ inch pulley and grub screw and is provided with three different lengths of Driving Band. It is 2½ inches high and its overall width is 2⅜ inches.

On this page we show the *Emebo* Motor separately and (bottom picture) fitted to a Forge Crane, built from Outfit No. 6, which is illustrated in the new-style Meccano Model Book for Outfits 4/5/6.

The base of the model is a 5½″×2½″ Flanged Plate across which a 4½″×2½″ Flat Plate 1 is bolted at right angles. This is extended at each end by a Semi-Circular Plate at the same time bolting in two Angle Brackets. Two Formed Slotted Strips are bolted to these Angle Brackets and to the Angle Bracket held by Bolt 2. Two Reversed Angle Brackets 3 and two Double Brackets 4 are fixed to the centre of the base and 3″ Pulley 5 is bolted to their other lugs.



By "SPANNER"

The tower is built up from two Flanged Sector Plates 6 joined by two 4½″×2½″ Flexible Plates edged by 2½″ Strips 7 and 8. Two 12½″ Strips 9 and two 5½″ Strips 10 are bolted to the Sector Plates, and to the Strips 10 a further two 12½″ Strips 11 are fixed. Each pair of 12½″ Strips is connected by three 2½″×½″ Double Angle Strips as shown and a strengthening lattice-work is given to each side by two 5½″ Strips, a 3½″ Strip 12 and a Fishplate 13. A Trunnion is fixed to each of the Sector Plates 6 by Bolts 14 and to these is bolted a further 3″ Pulley 15. The tower is connected to the base by a 2″ Rod pushed through the 3″ Pulleys and fixed by a 1″ Pulley with Boss beneath the base and a Collar in the tower.

Each side of the jib is made up from a 5½″ Strip 16, two 2½″ Strips 17, a further 2½″ Strip 18 and a 2½″×1½″ Triangular Flexible Plate 19. They are joined by a 1½″×½″ Double Angle Strip 20 and a 1″×½″ Double Bracket 21. The load hook is made from two Flat Trunnions with a 1″ Rod, carrying a 1″ Pulley without Boss, journalled in them, and with a small Loaded Hook bolted at their apex.

A 2½″×1½″ Flanged Plate 22 is bolted between Strips 10 to form a bed for the *Emebo* Motor and this is strengthened by two 2½″×1½″ Triangular Flexible Plates 23 joined by Fishplates 24 to Strips 11. In the illustration one has been removed to show the Motor. Two 3½″ Rods 25 and 26 are journalled in Strips 11, 25 carrying two 1″ Pulleys with Boss, and held in place by a 2″ Pulley, and 26 carrying one 1″ Pulley with Boss (*Cont. on page 327*)