

GRANDFATHER'S CLOCK

Fig. No. 360

PARTS REQUIRED

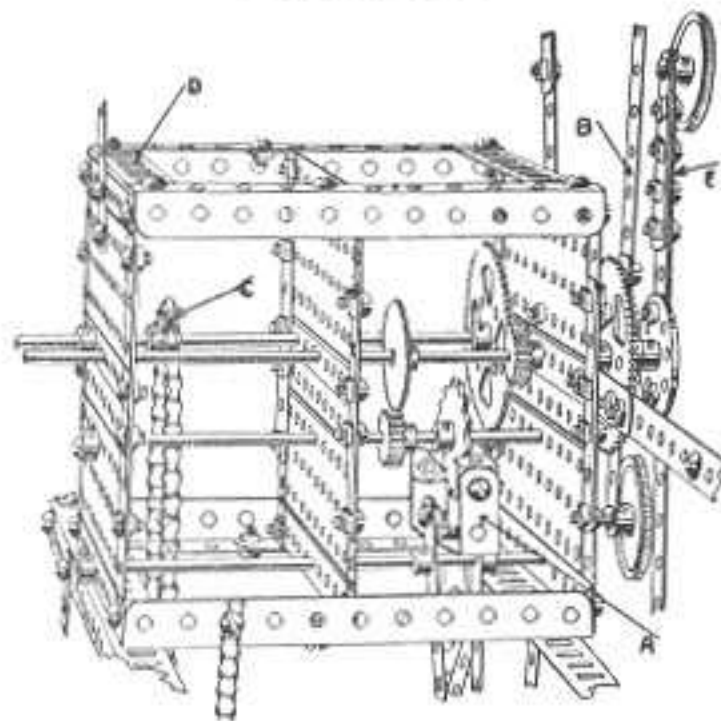
2-1½" Pulleys	6-3" Strips	6-5½" Flat Plates
2-Bush Wheels	23-2½" Strips	2-5" Axle Rods
1-1½" Gear Wheel	29-2" Strips	2-6" Axle Rods
2-2¼" Gear Wheels	22-12½" Angle Girders	1-3½" Axle Rod
3-¾" Pinions	12-5½" Angle Girders	2-2" Axle Rods
17-Collars	32-Angle Brackets	2-4" Chalus
34-12½" Strips	1-Large Bent Strip	2-1" Sprockets
72-5½" Strips	4-5½" Angle Strips	1-1½" Sprocket
40-3½" Strips	2-Sector Plates	350-Nuts and Bolts

The Grandfather's Clock is beyond a doubt the most interesting model shown in the book. When properly constructed, it will actually run for two hours with one winding. By means of the gearing used, the hour hand will move from one figure to the next, while the minute hand is making a complete revolution of the face.

The entire mechanism is shown in the detail. The upper and lower framework of this detail is made of four 5½" Angle Girders "D," and these are supported on the sides and in the center by two 5½" Flat Plates, although the center plate can be omitted entirely. The weight is carried by two 1" Sprocket Wheels attached to the Axle at point "C." At the opposite end of this Axle is attached a 2¼" Gear which meshes with the ¾" Pinion. On the same Axle with the ¾" Pinion is mounted a 1½" Gear which meshes with the ¾" Pinion on the escapement Axle. The escapement "A" is made with a Double Bent Strip, at each end of which is attached an Angle Bracket which regulates the escapement in connection with the 1½" Sprocket Wheel. The hour hand "B" is fastened to a 2¼" Gear and meshes with the ¾" Pinion shown on the face of the Clock in the large cut. The Set Screw on this 2¼" Gear should not be fastened so as to allow the Axle Rod supporting the minute hand to move freely. When constructing this model the minute hand should be properly balanced by means of extra Nuts, as shown at point "E." The weight for operating this model is made up of 5½" and 3½" Strips and has a 1" Sprocket mounted in the top of it, around which the Chain passes.

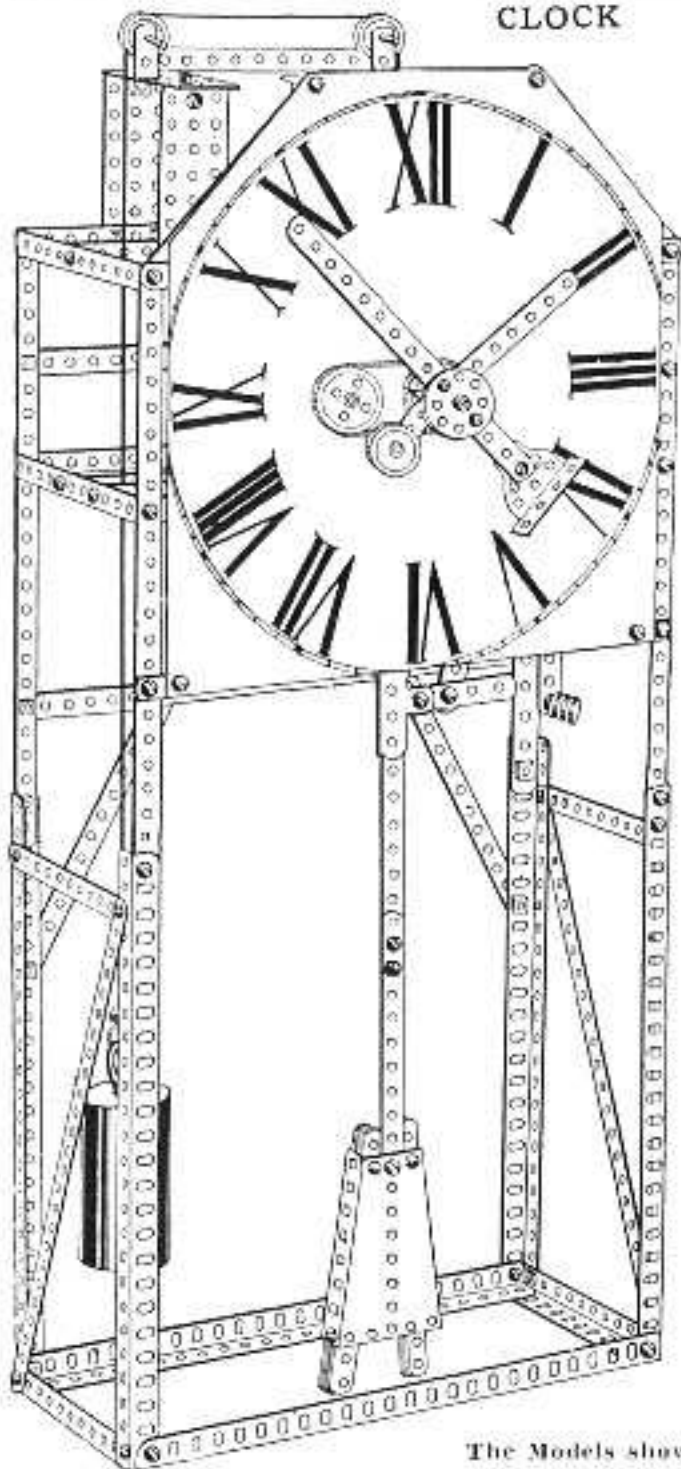
Boys, don't fail to build one of these models.

Details of Clock

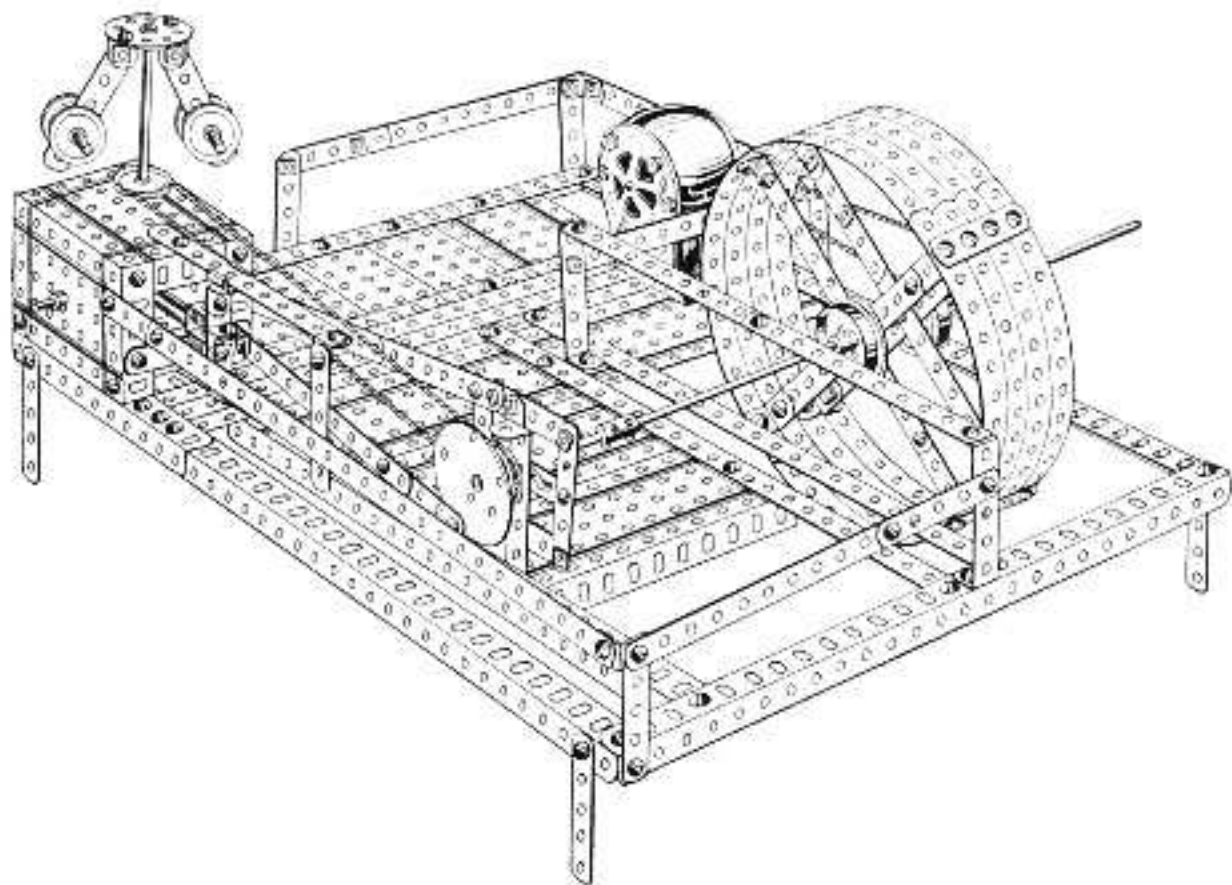


The Model shown on this page can be made with The American Model Builder Outfit No. 7, or with No. 6 and No. 6½ Combined.
HALF THE FUN IS BUILDING THE MODELS—THE OTHER HALF IS OPERATING THEM WHEN COMPLETED.

CLOCK



CORLISS ENGINE



The Models shown on this page can be made with The American Model Builder Outfit No. 5, or with No. 4 and No. 4½ Combined.
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