

MESSENT'S PATENT CONCRETE MIXER.

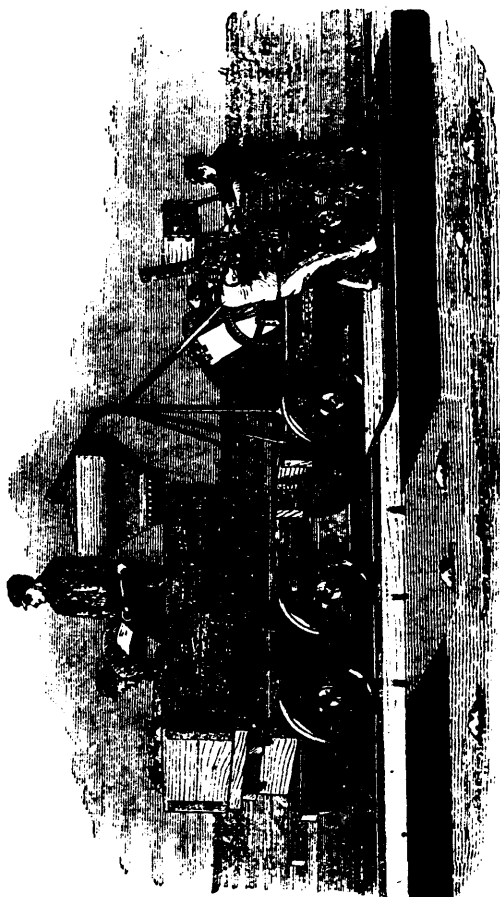


FIG. 1.

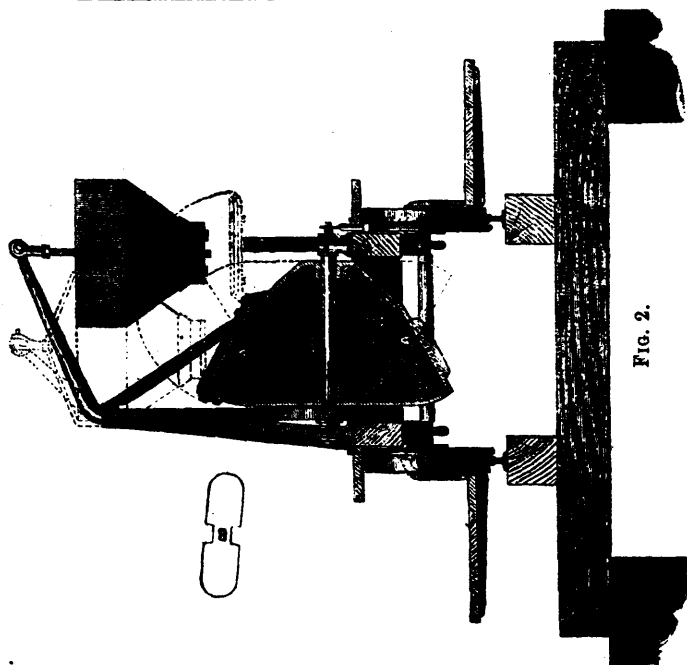


FIG. 2.

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The mixing chamber may be said to be of trapezoidal form, its two longest planes at right angles to each other, rotating on a horizontal axis; this arrangement is adopted in order that the stuff falling from a contracted into an enlarged space or capacity may be thoroughly rolled over, and therefore intimately incorporated. When the chamber is half filled with the materials for making concrete, the whole contents are turned over sideways, as well as endways, four times in each revolution of the chamber, so that in from six to twelve revolutions—the number necessary being varied according to the weight and nature of the materials—a more perfect mixture is effected than can be produced by hand.

Fig. 2 shows a vertical section through the mixing chamber, the dotted lines AA representing the altered view of the mixer after a quarter revolution. Fig. 1 shows the mixer mounted on a stout timber frame supported on four flanged wheels for running on rails, though plain wheels may be substituted for ordinary ground. In this arrangement it is driven by four men by means of gear, which can be adjusted to move the truck along, or can be thrown out when the truck is propelled by other means. The truck also carries, at one end, a tank holding the proper quantity of water for a charge of concrete, and at the other end

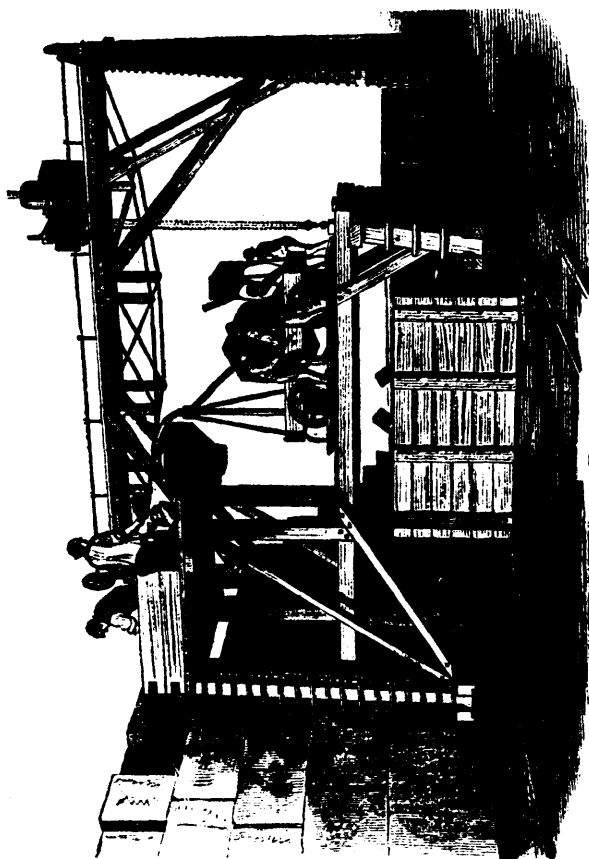


FIG. 3.