

W. M. GOSS.
CONCRETE MIXER.
APPLICATION FILED JULY 8, 1911.

1,020,279.

Patented Mar. 12, 1912.

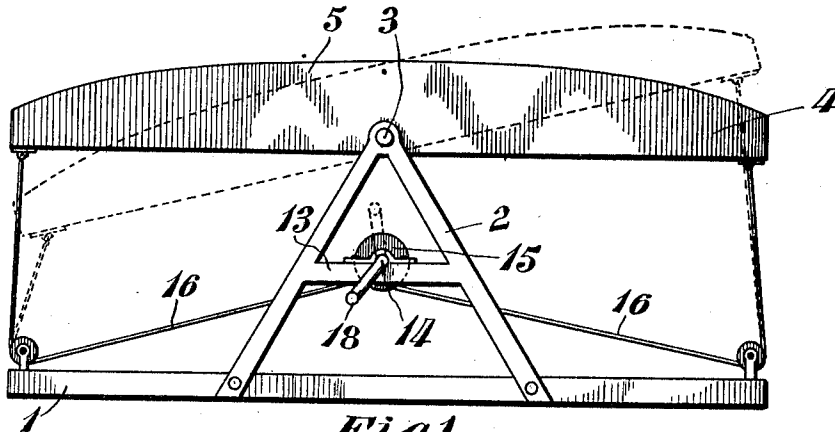


Fig. 1.

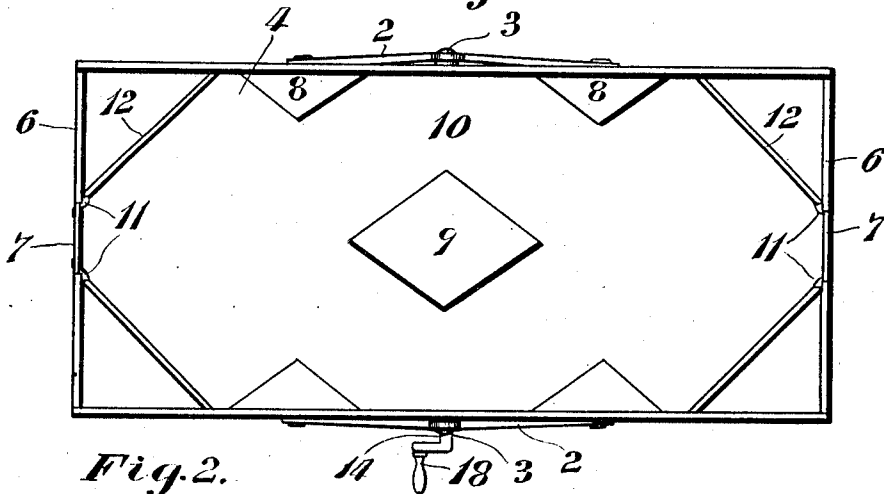


Fig. 2.

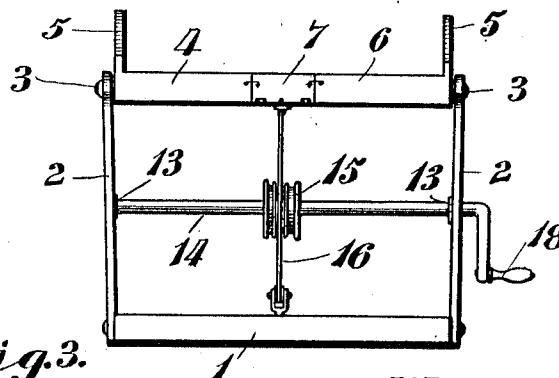


Fig. 3.

Witnesses
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WILLIAM M. GOSS, OF CHEYENNE, WYOMING.

CONCRETE-MIXER.

1,020,279.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, WILLIAM M. GOSS, a citizen of the United States, residing at Cheyenne, in the county of Laramie and State of Wyoming, have invented new and useful Improvements in Concrete-Mixers, of which the following is a specification.

This invention relates to concrete mixers and the object of the invention is to provide a simple, cheaply constructed and thoroughly efficient mixer which may be readily operated to mix the concrete and dump the same into a suitable receptacle.

Further objects of the invention will appear as the following specific description is read in connection with the accompanying drawing, which forms a part of this application, and in which:—

Figure 1 is a side elevation. Fig. 2 is a top plan view. Fig. 3 is an end elevation.

Referring more particularly to the drawing, 1 represents a base, preferably rectangular in form which has projecting upwardly from its sides, intermediate the ends thereof, the inverted V-shaped standards 2 in the upper ends of which is journaled a pivoting shaft 3. Mounted upon the shaft and having an area substantially equal to that of the base is a mixing table 4 having raised sides 5 and ends 6. The ends 6 are provided with suitable discharge gates 7 latched in closed position in any suitable manner and hinged to the table 4.

Projecting outwardly from the sides 5 and lying upon the table are V-shaped baffles 8 and a similarly shaped double baffle 9 is arranged in the center of the table so that as the concrete travels over the table it moves in the channels 10 formed by the baffles 8 and 9 and is thereby thrown from one side of the table to the other and thoroughly mixed. Suitable cleats 11 are secured to the ends 6 on opposite sides of the gates 7 and also to the sides between the baffles 8 and the ends, so as to receive re-

movable guiding boards 12 which are inserted when it is desired to dump the material upon the table through either of the gates.

Bridged across the legs of the standards 2 are bearing supports 13 in which a drum shaft 14 is journaled. This drum shaft is provided intermediate the bearing supports with a drum 15 around which a cable 16 is wound, the opposite ends of the cable passing over pulleys 17 secured to the base and having their terminals connected to opposite ends of the table. A suitable crank 18 is connected to the shaft 14 for winding the cable on the drum.

In the operation of the device the necessary ingredients, such as sand, gravel, broken rock or the like and cement, are placed upon the table and the table tilted in the manner of a see-saw by first turning the crank 18 in one direction and then reversing its motion. After the materials have been thoroughly mixed with water, the guide boards are applied to one end of the table and that end thrown downwardly so as to discharge the material through the gate into a suitable receptacle whereby the same may be transported to its point of use.

Having thus described the invention, what I claim as new is:—

A concrete mixer comprising a support, a table pivotally mounted on said support, and means mounted on said support for oscillating the table; said table having raised sides and ends, hinged discharge gates at one end thereof, V-shaped baffle plates arranged on its sides and a double baffle plate on its central horizontal portion, all substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM M. GOSS.

Witnesses:

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A. M. RIES.