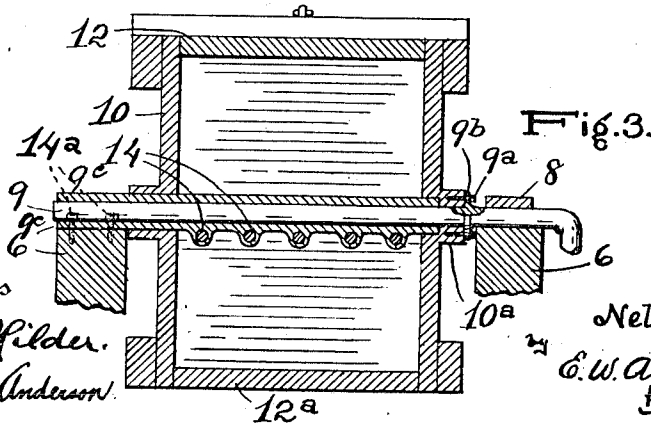
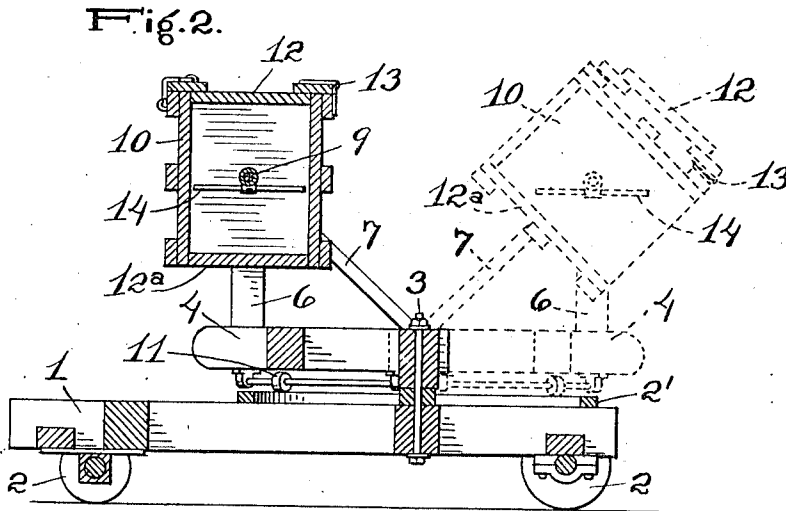
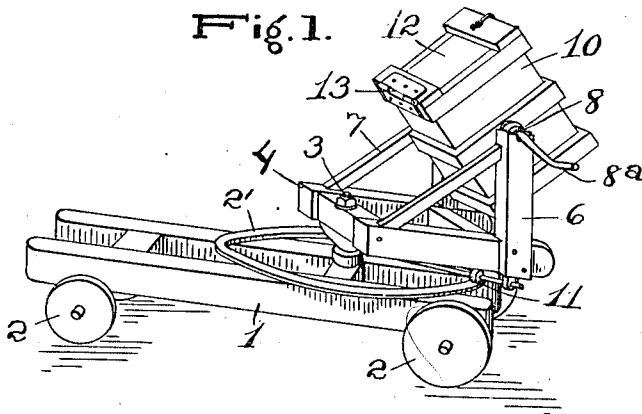


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CONCRETE AND CEMENT MIXER.
APPLICATION FILED JAN. 16, 1912.

1,048,317.

Patented Dec. 24, 1912.



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UNITED STATES PATENT OFFICE.

NELS JOHNSON, OF BIBLE GROVE, ILLINOIS.

CONCRETE AND CEMENT MIXER.

1,048,317.

Specification of Letters Patent.

Patented Dec. 24, 1912.

Application filed January 16, 1912. Serial No. 671,505.

To all whom it may concern:

Be it known that I, NELS JOHNSON, a citizen of the United States, resident of Bible Grove, in the county of Clay and State of Illinois, have made a certain new and useful Invention in Concrete and Cement Mixers; and I declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it appertains to make and use the invention, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 is a perspective view of my invention, with the tumbler in dumping position. Fig. 2 is a central vertical longitudinal section of the invention with the tumbler in position for transportation and for filling in full lines and in dumping position in dotted lines. Fig. 3 is a detail central vertical cross section of the tumbler.

The invention has relation to concrete or cement mixers, and it consists in the novel construction and combinations of parts, as hereinafter set forth and claimed.

In the accompanying drawings, illustrating the invention, the numeral 1 designates a horizontal base frame, mounted on rollers or wheels 2, 2 for easy movement from place to place, and 2' is a circular horizontal track upon said base frame, spanning about or a little more than one-half thereof from one end of said frame. Mounted upon the base frame centrally of said track is a vertical pivot stud 3, upon which turns an upper horizontal frame 4, one end of which engages said stud and the other end of which carries standards 6, 6, braced to the frame 4 at 7 one of said standards having at its upper end a bearing for one end of a horizontal shaft 9, said shaft engaging and turning in a sleeve 9^c, said sleeve having at one end a fixed bolt connection 14^a with the other standard to render it stationary. The tumbler 10 has perforations 10^d in its lateral walls, engaging and turning upon the sleeve, said sleeve being at its other end seated in a recess 9^d of said tumbler. The tumbler is connected to the shaft 9 to turn therewith by bolts 9^a engaging a collar 9^b of the shaft, said tumbler being carried by both the shaft and the sleeve. This tumbler consists preferably of a rectangular pris-

matic box, having at one end a top 12 which may be removable or hinged at 13 for the insertion of the concrete or cement mixture, and at its other end a closed bottom 12^a. The sleeve 9^c carries a number of stirrer rods 14. Upon rotation of the shaft the tumbler will move therewith, the stirrer rods remaining stationary, to effectually mix together the sand or sand and gravel and the cement contained in the tumbler.

In the use of the mixer, which is mounted upon the rotary upper frame 4 wholly on one side of the center of the track 2' and directly over the same, the frame 4 with said mixer is first moved around upon the track until the tumbler box occupies a position at the inner side of the track substantially central of the base frame, the tumbler being then turned by means of its shaft crank handle 8^a, to bring its top upward, the cover raised or removed and the cement or concrete mixture shoveled in, the location of the tumbler with relation to the base frame being such that the base frame will not be tilted upon the rollers at one end thereof by the weight of the tumbler box and its heavy contents, and the tumbler being held in upright position by holding the crank handle. The shaft 9 is then turned, to revolve the tumbler and thoroughly mix the cement or concrete, and after the mixing is completed the frame 4 is turned pivotally around upon the track until the tumbler box is brought to one end of the base frame, when said box is tilted or turned over said end and held by the shaft 9^a to dump the contents.

When the mixer is to be transferred from place to place, the upper frame 4 and the tumbler box carried thereby are turned around upon the track until the tumbler is substantially central of the base frame.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:

A cement and concrete mixer, comprising a longitudinally extending base frame, a horizontal circular track upon said base frame, extending from one end to about the center thereof, a rotary upper frame having a vertical pivot central of said track, and a bearing upon said track, and a tiltable mixer receptacle mounted upon said rotary upper frame wholly on one side of the

center of said track and directly over the same and movable with said frame upon said track from a position intermediate of the ends of said base frame to a position at
5 one end of said base frame, to permit said receptacle to be tilted over said end to discharge the contents thereof.

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

NELS JOHNSON.

Witnesses:

ELLIS HALL,
HARRY MOMCAL.