

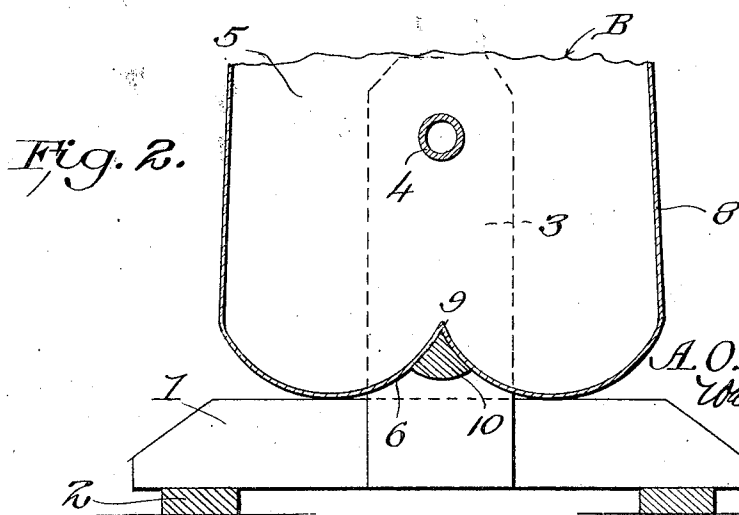
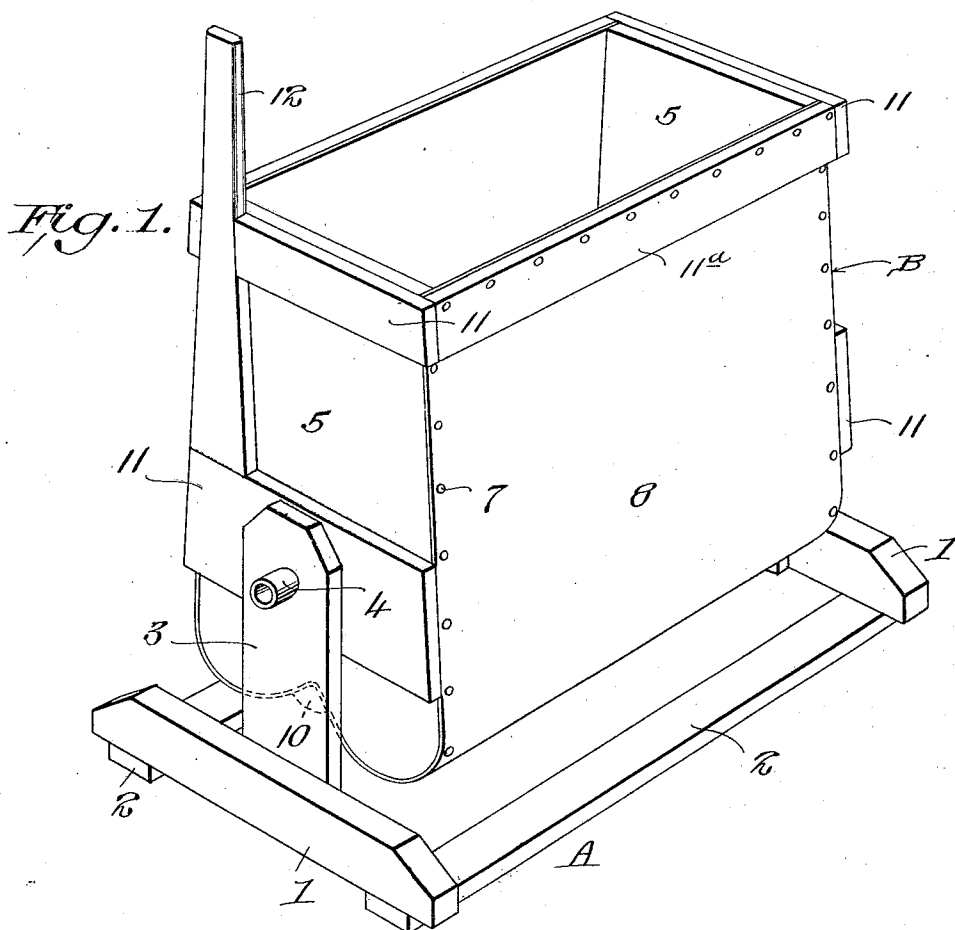
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A. O. HEWITT

CEMENT MIXER

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CEMENT MIXER.

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To all whom it may concern:

Be it known that I, ALBURN O. HEWITT, a citizen of the United States, residing at Terry, in the county of Prairie and State of Montana, have invented new and useful Improvements in Cement Mixers, of which the following is a specification.

My invention has reference, in general terms, to improvements in cement mixers, and more particularly it is designed for the purpose of providing a simplified cement mixer formed with a single medial rib for intercepting the load as the mixer trough is oscillated from side to side.

It is my principal object, among others, to greatly facilitate the thorough mixing of a load of cement, sand, water, and the like, by hand; and to this end I have devised an exceedingly compact and simplified mixer, the center of gravity of which is placed sufficiently low to afford ready oscillation.

To these and other ends, my invention consists in the construction, arrangement and combination of parts described herein-after and pointed out in the claim forming a part of this specification.

One embodiment of my invention is represented by way of example in the accompanying drawing, wherein:—

Figure 1, is a perspective view of the cement mixer assembly, and

Figure 2, is a fragmentary end view showing to advantage the cross-sectional configuration of the trough.

Like characters of reference designate like or similar parts throughout the several views of the drawings, in which,

The frame (A) of my concrete mixer is formed with end cross-pieces (1) superimposed upon and suitably attached to side-rails (2). Bolted or otherwise secured to each of the end cross-pieces is a vertical post (3), through which is journaled a shaft (4), constituting the pivoting element for an oscillating trough (B).

The trough (B) has end pieces (5), the side edges of which slightly converge toward the substantially rectangular mouth or top thereof; and the bottom edges of which are cut to form a double arc terminating in a medial declivity. The ends may be formed of wood or any other suitable, and substantially impermeable substance. Attached as at (7), to, and about, the side and bottom edges of the end pieces (5) is a single sheet of metal (8) constituting the flat, slightly

and upwardly converging sides and the bottom of the trough. The bottom edges of the end-pieces (5) being formed with a medial declivity, the trough has a medial rib (9) extending medially, and longitudinally thereof, and the bottom of the trough slopes away from the apex of the rib and then upwardly to the sides in a gradual, uniform curve thereby preventing the formation of eddies in the load as it is agitated. The rib is supported by a longitudinal bar (10) which is secured by means of the attaching means, such as nails or the like, (7) driven through the ends of the bar (10) and through the material forming the bottom, into the ends (5), and, which also serves to preserve the configuration of the bottom of the trough. It will be seen from the foregoing, that when the trough is oscillated the load is moved over the rib from side to side and thereby becomes thoroughly mixed.

Each end piece (5) is reinforced by two cross-pieces (11), and side pieces 11^a, the ends of the uppermost of which are connected by stringers (11^a) to which the top edges of the sides are secured, but one end of one of the upper cross pieces is cut away or terminated short of the side edge of the end piece, and a handle (12) is secured in the space so provided. The lower end of the handle engages the lowermost corresponding cross-piece, and as the uppermost cross-piece engages the upper part of the handle the same is securely held in place and reinforced—see Figure 1.

In operation the desired materials are placed in the mixing trough and the same is oscillated through the medium of the handle (12) until such materials are thoroughly mixed together. It will be noted that the center of gravity of the trough is purposely low to facilitate oscillation of the load, and the peculiar configuration of the bottom of the trough serves to prevent eddies and the like.

While in the foregoing, there has been illustrated and described such combination and arrangement of elements as constitute the preferred embodiment of my invention, it is nevertheless desired to emphasize the fact that interpretation of the invention should only be conclusive when made in the light of the subjoined claim.

Having described my invention and its objects with such attention to detail as will thoroughly acquaint one skilled in the art

with its construction and advantages, I claim,

5 A concrete mixer comprising a frame and a medially and longitudinally ribbed trough, end pieces for the trough cut to correspond in shape to a transverse section through the trough, a single sheet of material bent to form the sides and bottom of the trough and secured to the side and bottom edges of the
10 end pieces, spaced cross pieces carried by each of the end pieces for reinforcing the same, a shaft extending through the lowermost cross pieces and through the end pieces

above the rib of the trough and journalled at its ends in the frame whereby to support 15 the trough, the ends of the upper cross pieces disposed to extend past the side edges of the end pieces, and stringers connecting the ends of the upper cross pieces and secured to the top edges of the sheet of material forming 20 the sides and bottom of the trough whereby to reinforce the top edges of the sides of the trough and form a mouth.

In testimony whereof, I affix my signature hereto.

ALBURN O. HEWITT.