D. C. BASOLO AND I. K. SHERO.

CONCRETE MIXER AND CONVEYER.

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1,307,803. Patented June 24, 1919.

Fig. 1.

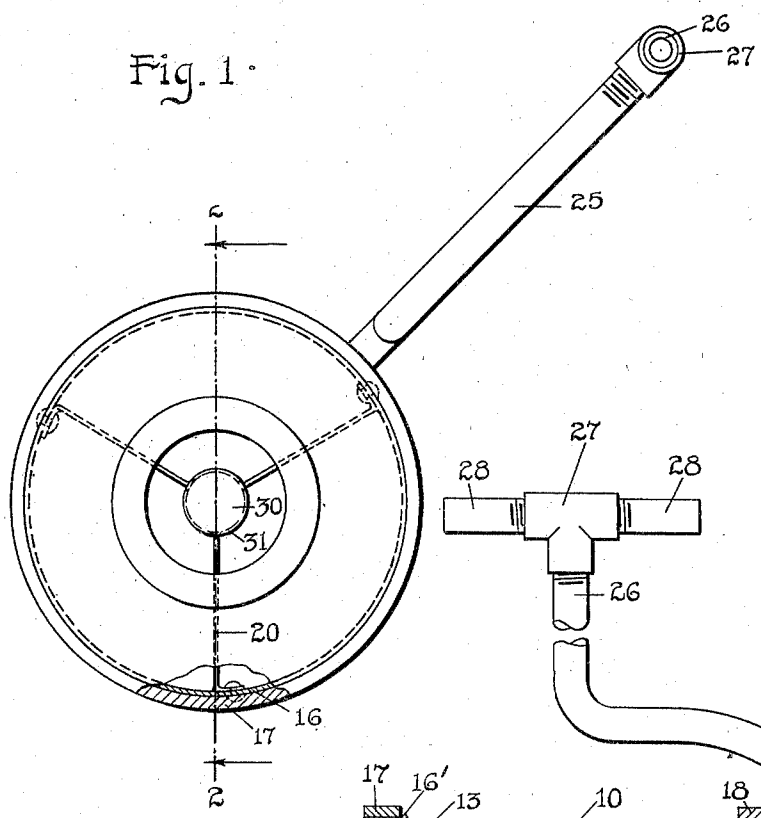
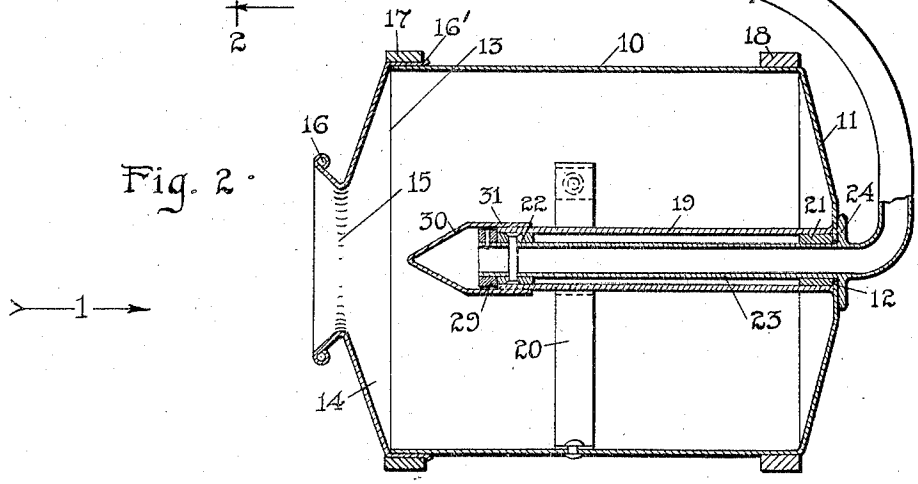


Fig. 2.



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CONCRETE MIXER AND CONVEYER.

1,307,803. Specification of Letters Patent. Patented June 24, 1919.

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To all whom it may concern:

Be it known that we, DOMENITH C. BASOLO and ISAAC K. SHERO, citizens of the United States, residing at Fillmore, in the county of Ventura and State of California, have invented new and useful Improvements in Concrete Mixers and Conveyers, of which the following is a specification.

Our invention relates to a combined concrete mixer and carrier.

An object of our invention is to provide a simple inexpensive concrete mixer which may be easily operated by hand.

Another object is to provide an efficient mixer which may be employed also as a concrete carrier.

Another object is to provide a combined concrete mixer and carrier in which the mixing of the ingredients proceeds while the material is being transferred to a point in which it is to be used.

With these and other objects in view our invention consists in the construction, combination and arrangement of parts hereinafter described and claimed.

In the accompanying drawings which form a part of this specification,

Figure 1 is a view in side elevation of a concrete mixer embodying the principles of our invention as seen looking in the direction indicated by arrow 1 in Fig. 2, a part being broken away to more clearly disclose the construction.

Fig. 2 is a vertical longitudinal section taken on the line 2—2 of Fig. 1 showing the construction of the bearing parts.

The mixer is formed of a cylindrical shell or container 10 having one end open and the other end closed by a bulging end wall 11 with an opening 12 in its center. The open end 13 is equipped with a removable conical end piece 14 having a relatively large central opening 15 equipped with a flaring mouth 16. The end piece is formed with a peripheral flange 16′ adapted to telescope over the open end 13 of the cylindrical container 10 like a cover on a can. A ring band 17 which serves as a tire or tread is rigidly attached to the outer surface of the flange 16′, and a similar ring band 18 is attached to the opposite end of the container to serve the same purpose. A bearing tube 19, having one end fixed to the end wall 11 of the container concentric with the opening 12 in its center, extends longitudinally toward the opening 15 somewhat over half the length of the container and is rigidly held in its central position by radial bracing arms 20, each of which has one end rigidly attached to the bearing tube and the other to the wall of the cylinder. Bearing rings 21 and 22 are fitted in the ends of the bearing tube. A tubular shaft 23 extends longitudinally through the bearing tube 19 and through the opening 12 in the end wall 11 of the container. It is provided with a circular flange 24 just outside the end wall 11, the flange serving as a thrust bearing for the container. The tubular shaft outside the container is bent at right angles and is formed into an arcuate section 25 which returns over the middle of the container where it is again bent at right angles to form a handle section 26 in radial alinement with the longitudinal center of the container. The end of the handle section 26 is equipped with a T connection 27 having a pipe section 28 in each end which forms a cross handle. The shaft and handle parts are preferably formed of standard piping. The tubular shaft 23 projects slightly beyond the end of the bearing tube 19 and is provided with a thrust ring 29 on its end which bears against the free end of the central tube 19. A conical cap 30 provided with a sleeve 31 telescopes over the free end of the bearing tube and covers the thrust bearing 29 and the open end of the tubular shaft 23. It is evident that the central tube 19 with the bearing ring 21 turns around the shaft 23 and is held between the thrust ring 29 and the flange 24 so that the container, as a whole, can be rolled along on the tires 17 and 18 and can be guided by means of the handle 26. The ring 22 is fixed to the end of the tubular shaft 23, and the ring 21 may be loose upon the shaft and tight in the central tube 19.

Operation: The mixer is set in an inclined position by grasping the cross handle and turning the open end 15 upwardly so that the container rests on the closed end 11. The concrete ingredients are then introduced into the mixer through the opening 15 in sufficient quantity to be slightly below the level of the opening 15 when the mixer is turned into its horizontal position. The mixer is then turned down into the position shown in Fig. 2 and is rolled along like a lawn mower on the tires 17 and 18 to the point where the concrete is to be used. The mixer is then tipped toward its open end

and the mixture is poured out of the opening 15. A thorough intermixing of the concrete ingredients thus takes place while they are being transferred from place to place.

While we have shown the preferred construction of our concrete mixer, as now known to us, it will be understood that various changes in construction and arrangement of parts may be made by those skilled in the art without departing from the spirit of our invention as claimed.

We claim:

A concrete mixer and carrier comprising a cylindrical shell, a bulging end wall rigidly closing one end of the cylinder, a conical end piece fixed to the other end of the cylinder and having a large central opening, tires fixed upon the ends of the cylinder, a bearing tube fixed to the bulging end wall and extending inwardly at the axial center of the cylinder, braces supporting the inner end of the bearing tube, and a shaft rotatably mounted in the bearing tube and extending outwardly through the bulging end wall and then extending radially beyond the tires, then inwardly to the longitudinal center of the cylinder and then radially outwardly to form a handle.

In testimony whereof we have signed our names to this specification.

DOMENITH C. BASOLO.
ISAAC K. SHERO.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."