No. 799,489. PATENTED SEPT. 12, 1905.

D. J. O'DONNELL.

BUCKET OR TANK FOR WATER ELEVATORS.

APPLICATION FILED JAN. 13, 1905.

Fig. 1.

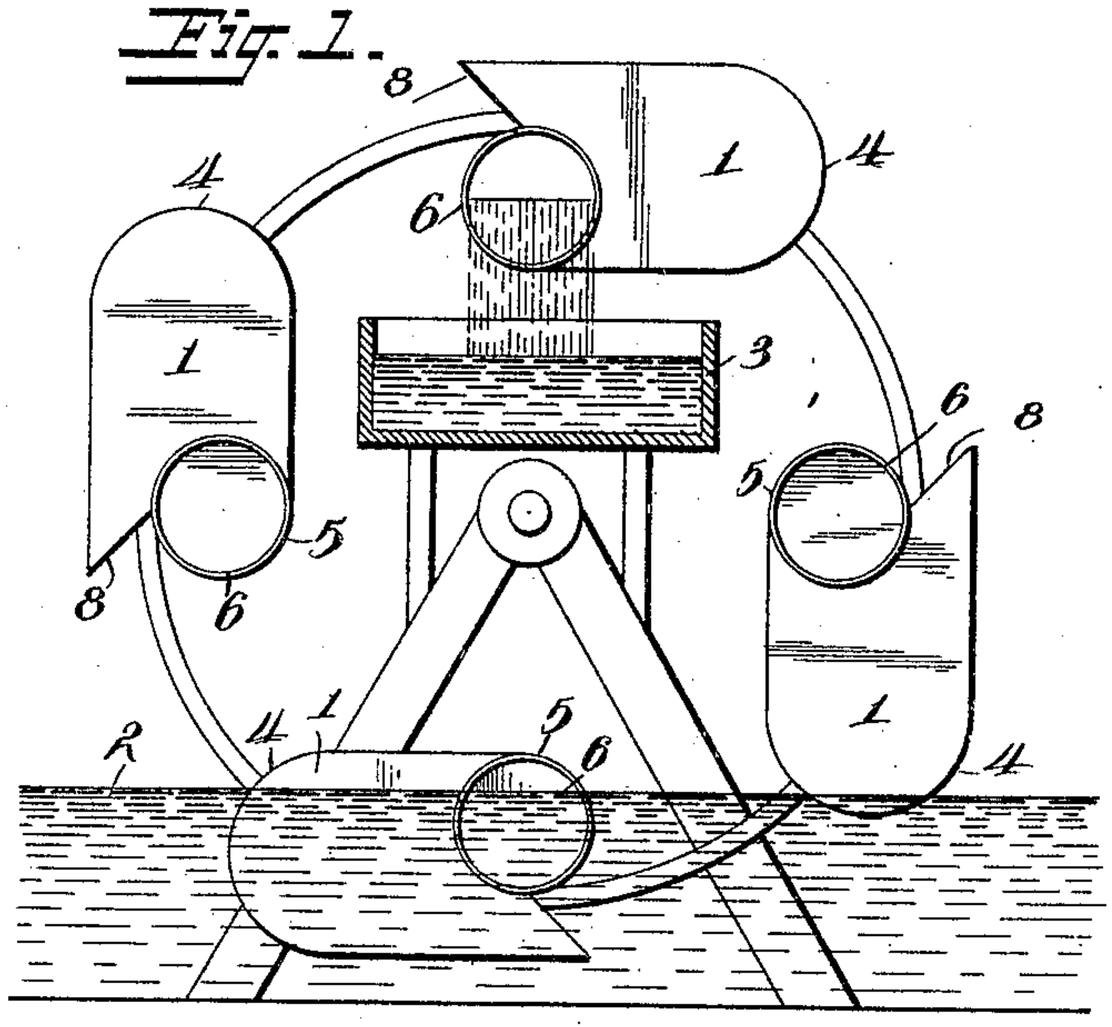


Fig. 2.

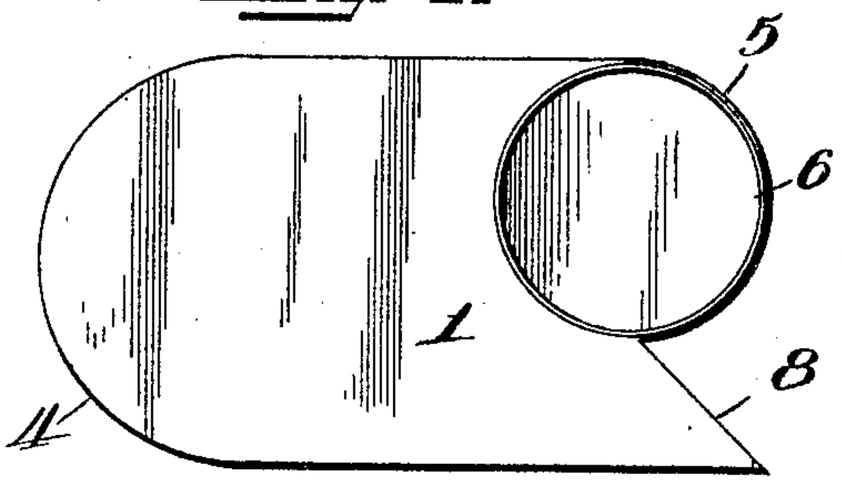


Fig. 3.

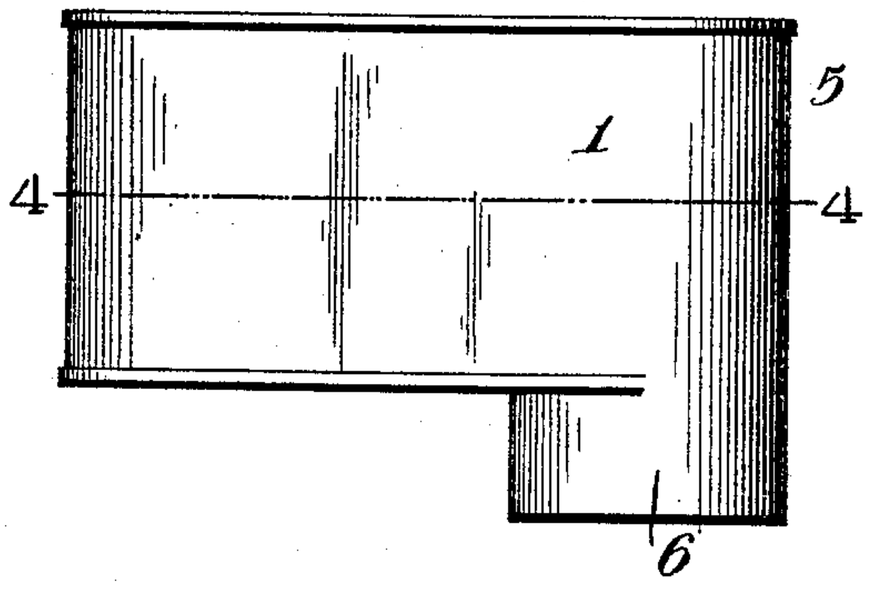


Fig. 4

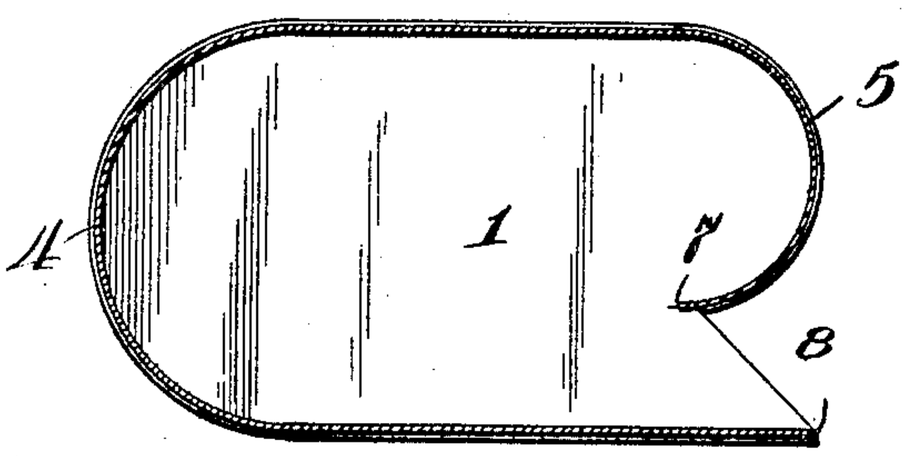
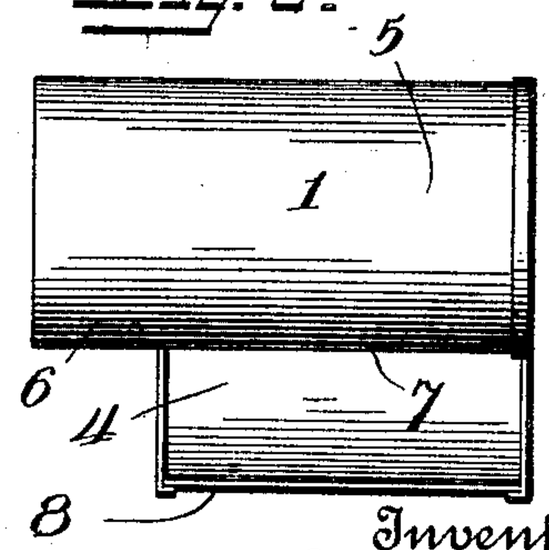


Fig. 5.



Witnesses
Milton C. Genoir.
Sarah L. Lockwood

Inventor
David J. O'Donnell
by Geo. S. Lawlis
his Attorney

UNITED STATES PATENT OFFICE.

DAVID J. O'DONNELL, OF CLINTON, IOWA.

BUCKET OR TANK FOR WATER-ELEVATORS.

No. 799,489. Specification of Letters Patent. Patented Sept. 12, 1905.

Application filed January 13, 1905. Serial No. 240,973.

To all whom it may concern:

Be it known that I, DAVID J. O'DONNELL, a citizen of the United States, residing at Clinton, county of Clinton, and State of Iowa, have invented certain new and useful Improvements in Buckets or Tanks for Water-Elevators, of which the following is a specification.

My invention relates to buckets or tanks for water-elevators.

The object of the present invention is the provision of a water-holding bucket or tank for use on water-elevators, particularly those of the rotary-wheel type, which will be simple, cheap, strong, and durable and constructed in a novel fashion, with the receiving and discharging parts thereof at the same end of the bucket, whereby the greatest possible capacity is obtained, the water retained in the best possible manner, and the operations of receiving and discharging the water are had at the desired predetermined times without necessitating the use of operating means other than the water-wheel itself.

Having the foregoing objects in view, the invention consists in certain improved features of construction set forth fully hereinafter and recited in the appended claims.

In the accompanying drawings, Figure 1 is a side view showing a complete water-elevator equipped with my improved buckets or tanks, illustrating the manner of use thereof; Fig. 2, a detail side view of the bucket; Fig. 3, a plan view; Fig. 4, a section on line 4 4 of Fig. 3, and Fig. 5 an end view looking into the receiving-mouth.

Buckets or tanks 1 made according to my invention may be suitably connected to a rotary wheel at regular intervals at the periphery thereof to turn therewith to dip the water from the flowing or stationary body of water 2 and elevate it into the receptacle 3.

The buckets or tanks 1 are made of sheet metal of any desired material and are of rectangular box-like form, being preferably rounded at one end 4. At the other end the bucket is rounded at 5 for about one-half the depth of the bucket, and this rounded portion is extended into a tubular discharge-mouth 6, which extends laterally from the bucket 1. As the rounded portion 5 terminates in the transverse edge 7 within the bucket 1, the rounded portion 5 and the discharge-mouth 6 are in free water communication with the interior of the bucket. Below the rounded portion 5 the bucket is formed into an open scoop-like receiving part 8.

As the rotary wheel carrying the buckets or tanks 1 turns the scoop-like portions 8 of the buckets successively dip into the body of water 2 and scoop up a suitable quantity of water into the bucket as the bucket continues in its movement and rises, and thus the water is carried in the bucket, of which the rounded portion 4 is now lowermost, until the continued turning of the rotary wheel causes the bucket to assume its highest position just before it is going to descend, whereupon the scoop portion 8 is uppermost and the discharge-mouth 6 is lowermost, and the water then flows out laterally from the discharge-mouth 6 into any suitable receptacle 3.

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

1. A bucket or tank for water-elevators, comprising a fluid-containing body having a scoop at one end thereof, and an independent discharge-mouth opening through the side of the body adjacent the scoop aforesaid and adapted to deliver the water laterally from the body.

2. A bucket or tank for water-elevators, comprising a body adapted to contain the fluid, which has a scoop at one end and a laterally-extending discharge-mouth at the same end of said bucket or tank.

3. A bucket or tank for water-elevators, comprising a sheet-metal body having one portion of one end closed and extended laterally into a discharge-mouth and the remaining portion of said end being open and in the form of a scoop.

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

DAVID J. O'DONNELL.

Witnesses:

WILLIAM KREIM,

LIZZIE SCHNELL.