J. A. VAN PELT.

WELL BUCKET.

APPLICATION FILED MAY 17, 1920.

1,350,348. **Patented Aug. 24, 1920.**

Fig. 1.

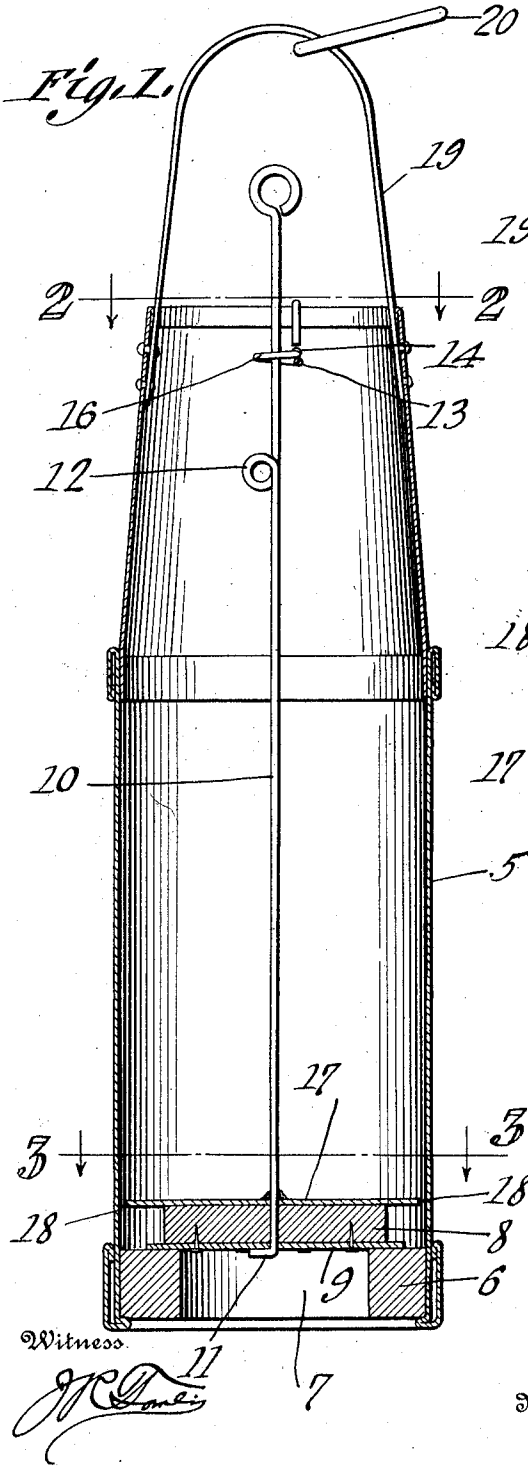


Fig. 2.

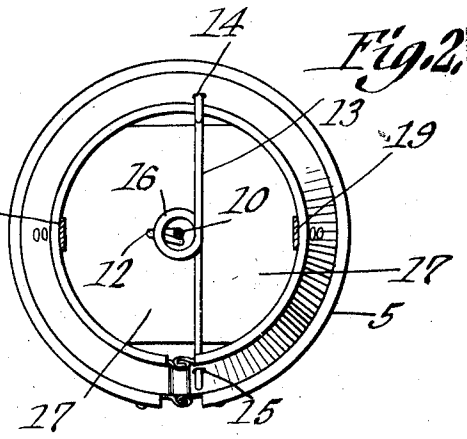


Fig. 3.

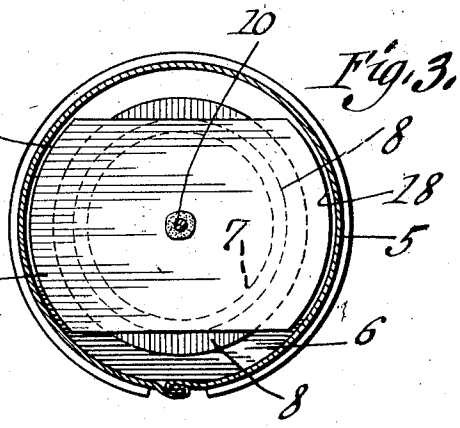
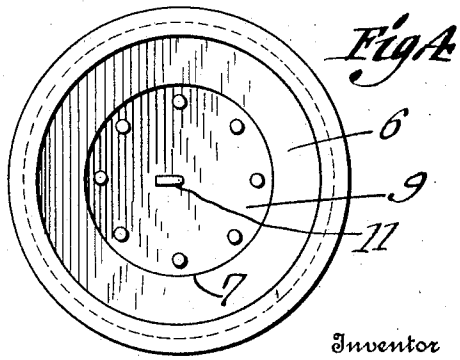


Fig. 4.



Witness

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UNITED STATES PATENT OFFICE.

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WELL-BUCKET.

1,350,348. Specification of Letters Patent. Patented Aug. 24, 1920.

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To all whom it may concern:

Be it known that I, JAMES A. VAN PELT, a citizen of the United States, residing at Morrillton, in the county of Conway and State of Arkansas, have invented a new and useful Well-Bucket, of which the following is a specification.

This invention has reference to well buckets, and more particularly to a novel form of bucket employed in bailing drilled wells.

The primary object of the invention is to provide a well bucket having a valve operating at one end thereof, the valve being provided with means for insuring the true seating of the valve after the bucket has been emptied.

A further object of the invention is to provide a bucket wherein the elements thereof may be readily removed and replaced to facilitate the cleaning or repairing thereof.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed, may be made within the scope of what is claimed, without departing from the spirit of the invention.

Referring to the drawing:—

Figure 1 illustrates a longitudinal sectional view through a bucket constructed in accordance with the present invention.

Fig. 2 illustrates a sectional view taken on line 2—2 of Fig. 1.

Fig. 3 illustrates a sectional view taken on line 3—3 of Fig. 1.

Fig. 4 is a bottom plan view of the same.

Referring to the drawing in detail, the reference character 5 designates the body of the bucket, which is relatively long, to permit the same to fit within the usual drilled well, the same being formed preferably of metal and having its edges crimped or turned in to secure the edges together.

The bucket bottom 6 is formed preferably of wood and is of a diameter equal to the interior diameter of the body portion 5 to permit the bottom to closely engage the side walls of the body to form a leak-proof connection between the bottom and body, and as shown, this bottom is provided with a central opening indicated at 7, through which the bucket is filled and emptied.

Operating in the body of the bucket, is a valve member indicated at 8, which supports the washer 9, on the lower surface thereof, the washer being of a diameter greater than the diameter of the valve proper, to insure a water-tight connection between the valve and valve bottom, to prevent the leakage of water between the valve and the bottom when the bucket is filled, and being raised from the well.

A controlling rod 10 has one of its ends formed at right angles to the body portion thereof as at 11, the end being anchored under the valve 8 to secure the rod 10 to the valve, in a manner to prevent movement of the valve with relation to its rod. This rod is provided with a loop portion 12 providing a stop for the controlling rod, to restrict vertical movement of the rod when the same is being operated to unseat the valve 8.

Extending across the upper end of the body portion of the bucket is a rod 13, positioned in openings 14 and 15 provided in the body 5 and disposed diametrically opposite each other so that the loop portion 16 of the rod will be positioned centrally of the bucket, and this loop portion accommodates the controlling rod 10, to prevent lateral movement thereof with relation to the body, and insure the true seating of the valve.

To further insure against lateral movement of the valve 8, a guide plate 17 is provided, the guide plate being provided with a central opening to receive the controlling rod 10, the rod 10 being however secured to the guide plate in any suitable manner to move therewith.

The guide plate 17 is provided with curved ends 18 adapted to conform to the curvature of the inner surface of the bucket to permit the guide plate to move within the bucket when the controlling rod 10 is actuated, and since the guide plate is relatively narrow, it will be seen that water will be permitted to flow upwardly in the body 5 between the side edges of the guide plate and the inner curved surfaces of the bucket.

Secured to the upper end of the bucket, is the usual bail 19, on which is supported the ring 20, through which the bucket may be connected to the usual lifting chain to permit the bucket to be withdrawn from the well.

In the operation of the device, the weight of the bucket contacting with the water,

causes the bucket to sink into the water, the water pressure unseating the valve to cause the bucket to fill, the weight of the water within the bucket, when the same has become filled causing the seating of the valve, whereupon the bucket may be drawn from the well.

The controlling rod 10 is now moved to unseat the valve 8 to cause the water within the bucket to discharge therefrom, whereupon the bucket is again dropped into the well and the operation repeated.

It might be further stated that due to the construction of the rod 13, it is obvious that the same may be easily and readily removed, to accomplish the removal of the valve 8, to facilitate cleaning or repairing the same.

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

1. A well bucket including a relatively long body portion, a bottom member secured within the body portion and having a central opening, a controlling rod extending into the body portion and carrying a valve member on one end thereof adapted to close the central opening, means for supporting the upper end of the controlling rod against lateral movement, and means supported adjacent the valve member for preventing lateral movement of the valve member.

2. A well bucket including a body portion, a bottom member secured in the body portion, and having a central opening, a valve member operating in the body portion and adapted to close the opening, a controlling rod having connection with the valve member for moving the valve member, a guide plate secured to the valve member and having connection with the controlling rod for preventing lateral movement of the valve member, and means disposed adjacent the upper end of the bucket for preventing lateral movement of the upper end of the controlling rod.

3. A well bucket including a body portion, a bottom member forming a part of the bucket, said bottom member having an opening formed therein, a valve for controlling the passage of fluid through said opening, a guide plate carried by the valve and having curved edges contacting with the inner surfaces of the body portion, a controlling rod having connection with the valve member for moving the same, and means adjacent to the upper end of the body portion for preventing lateral movement of the controlling rod.

4. A well bucket including a body portion, said body portion having a bottom provided with a central opening, a valve member for closing said opening, a controlling rod for actuating the valve member, means carried by the valve member for preventing lateral movement thereof, a rod passing through the side walls of the body portion adjacent to the upper end thereof, the latter rod having a looped portion adapted to accommodate the controlling rod to prevent lateral movement thereof.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

JAMES A. VAN PELT.

Witnesses:
N. B. SKIPPER,
S. O. TUCKER.