May 24, 1927. **1,629,912**

P. E. GETZ

WELL BUCKET

Filed July 12, 1926

Fig. 1.

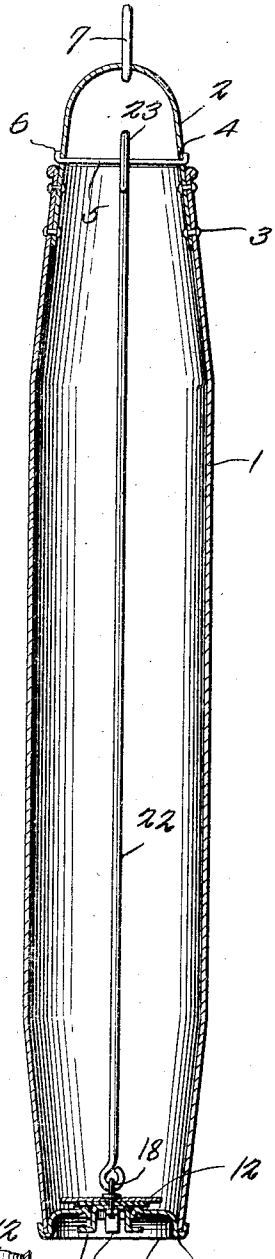
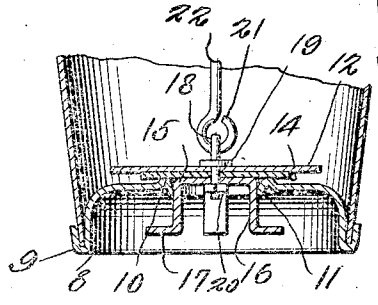


Fig. 2.



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UNITED STATES PATENT OFFICE.

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WELL BUCKET.

Application filed July 12, 1926. Serial No. 121,969.

This invention aims to provide a novel form of valve for the bottom of a well bucket, and to provide novel means for operating the valve.

It is within the province of the disclosure to improve generally and to enhance the utility of devices of that type to which the invention appertains.

With the above 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.

In the drawings:—

Figure 1 shows in longitudinal section, a bucket constructed in accordance with the invention;

Figure 2 is a detail enlarged from Figure 1.

The numeral 1 marks the tubular body of a well bucket. A U-shaped bail 2 is attached by securing elements 3 to the upper end of the body 1, the side portions of the bail 2 having openings 4 in which is mounted a cross rod 5, the ends 6 of the cross rod being bent at right angles to the rod, so as to engage the side portions of the bail 2 and to hold the cross rod 5 in place in the openings 4. The suspension means whereby the bucket is raised and lowered is marked by the numeral 7 and is engaged with the bail 2.

The bottom of the bucket is denoted by the numeral 8 and is supplied at its periphery with an annular U-shaped bead 9 in which the lower end of the body 1 is received and secured. The bottom 8 has an upstanding annular rib 10 that is continued to form a depending collar 11.

The valve of the bucket includes a metal plate 12 and a compressible gasket 14 below the plate 12. The numeral 15 designates a guide, the upper portion of which abuts against the lower surface of the gasket 14, the guide 15 including depending arms 16 which are spaced apart transversely, the arms being slidably received within the collar 11, the arms being supplied at their lower ends with outstanding fingers 17. The fingers 17 are adapted to cooperate with the lower end of the collar 11 to limit the upward movement of the valve. The numeral 18 designates a securing element, such as an eye bolt, passing downwardly through the plate 12 and the gasket 14 and through the central portion of the guide 15. The securing element 18 has an abutment 19 which engages the upper portion of the plate 12. A securing device, such as a nut 20, is threaded on the lower end of the eye bolt 18 and engages the central portion of the guide 15 to bind the guide, the gasket 14 and the plate 12 securely together. The eye bolt 18 is interengaged pivotally at its upper end to an eye 21 formed on the lower end of an operating member 22, such as a rod, the operating member 22 being supplied with an eye 23 mounted on the cross rod 5 and cooperating therewith to aid in holding the rod in place within the well bucket.

The weight of the water in the bucket presses the valve downwardly, and the gasket 14 is compressed on the annular rib 10 of the bottom 8, thereby to secure a watertight closure at the point indicated, the upward movement of the valve being limited by the engagement between the fingers 17 of the guide 15 and the lower end of the collar 11, the collar 11 being, in substance, a downward continuation of the inner wall of the rib 10.

What is claimed is:—

A well bucket comprising a bottom which is provided with an upstanding annular rib, the inner wall of the rib being continued to form a depending collar; a valve comprising a top plate, a compressible gasket abutting against the lower surface of the top plate and adapted to cooperate with the rib, a guide abutting against the lower surface of the gasket and slidable in the collar, the guide having means cooperating with the lower end of the collar to limit the movement of the valve as the valve is raised to an open position, and a securing element uniting the plate, the gasket and the guide; and means connected to the securing element for raising the valve to open position.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature.

PHARES E. GETZ.