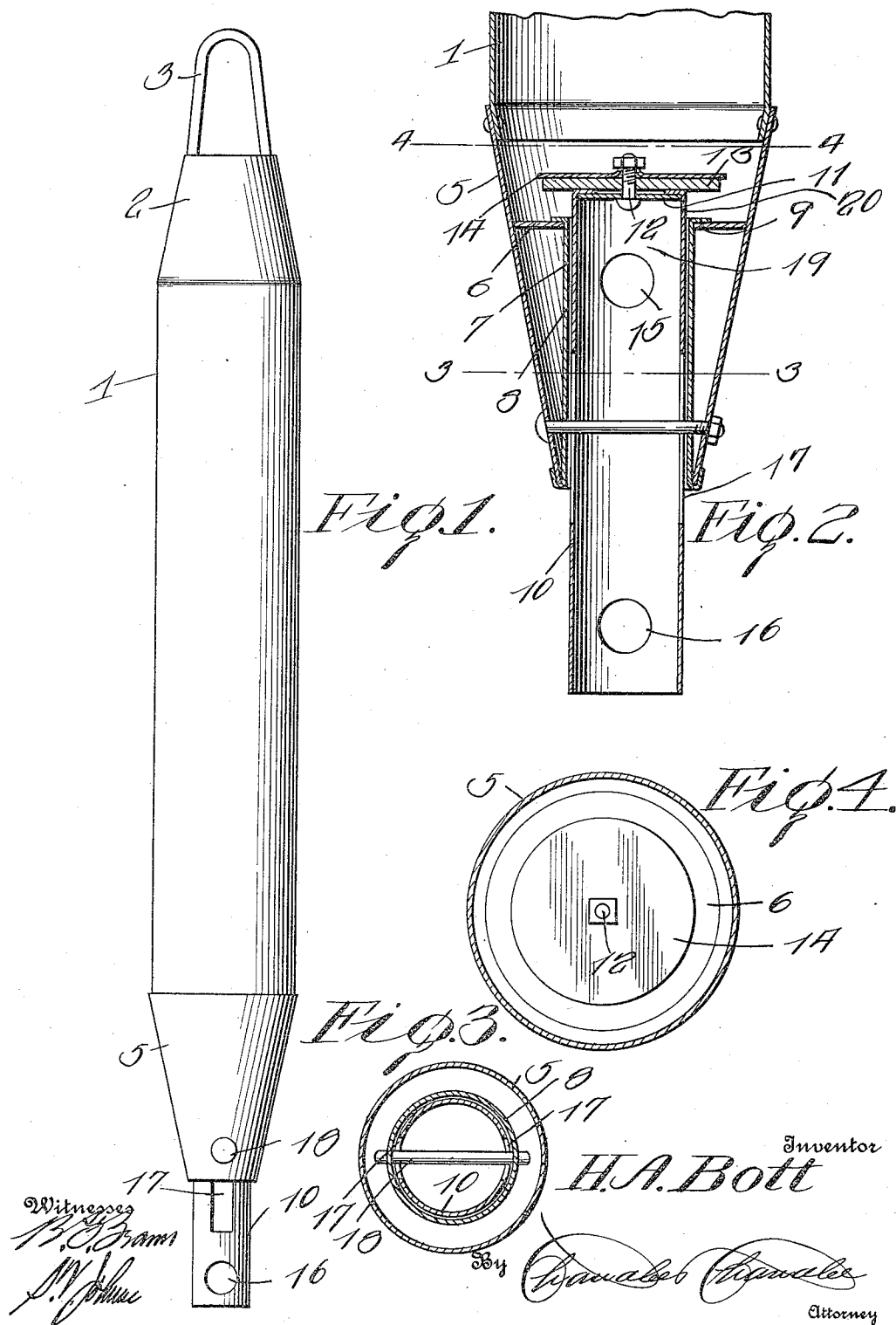


H. A. BOTT.
WELL BUCKET.
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1,065,024.

Patented June 17, 1913.



UNITED STATES PATENT OFFICE.

HENRY A. BOTT, OF McCURTAIN, OKLAHOMA.

WELL-BUCKET.

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Specification of Letters Patent.

Patented June 17, 1913.

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To all whom it may concern:

Be it known that I, HENRY A. BOTT, a citizen of the United States, residing at McCurtain, in the county of Haskell, State of Oklahoma, have invented certain new and useful Improvements in Well-Buckets; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The present invention is directed to improvements in well buckets, and has for its object to construct a bucket of this character having a valve in its bottom so that it will quickly fill when lowered in a drilled or other well.

A further object of the invention is to provide a well bucket of this type with an improved form of valve which will positively seat upon the upper face of the bottom after water has entered the bucket body.

With these and other objects in view, this invention resides in the novel features of construction, formation, combination and arrangements of parts to be hereinafter more fully described, claimed and illustrated in the accompanying drawing, in which:—

Figure 1 is a side elevation of the bucket. Fig. 2 is a vertical sectional view through the same. Fig. 3 is a sectional view on line 3—3 of Fig. 1. Fig. 4 is a similar view on line 4—4 of Fig. 1.

Referring to the drawing, the numeral 1 designates the body of the bucket, which is formed from tubular metal and has secured to its upper end a tapered cap 2 to which is secured in any suitable manner a bail 3, said tapered cap serving to guide the bucket in its upward movement from the well.

Secured to the lower end of the body 1 is a tapered sleeve 5, having mounted therein a bottom 6, said bottom having a central aperture 7 formed therein, and in which is secured the upper end of the valve tube 8 which forms in conjunction with the bottom 6 a valve seat 9.

Slidably mounted in the valve tube 8 is a hollow valve stem 10, the upper end of which is closed by a plate 11. Carried by the plate 11 is a bolt 12, which engages a leather valve disk 13, the diameter of which being such that the disk will engage the seat 9 when the bucket is in its filled state. A metal disk 14 is connected to the bolt 12

and is of the same dimensions as the valve disk 13, said disk serving to hold the valve disk 13 firmly in place.

The valve stem 10 is provided near its upper end with a plurality of ports 15, which permit water to enter through the stem and into the body 1 and when the valve disk disengages the valve seat 9.

Formed near the lower end of the valve stem 10 is a plurality of ports 16 which serve to aid in admitting water to the valve stem 10.

The valve stem 10 is formed with registered slots 17 which are engaged by the bolt 18, said bolt passing through the sleeve 5 and serves to limit the movement of the valve stem in one direction, or in other words prevents displacement of the valve stem when the bucket is being emptied.

It will be noted that the ports 15 are arranged below the plate 11, whereby when the bucket is lowered in the well and the water enters the valve stem 10, and before the valve disk leaves the seat 9, an air chamber 19 will be formed, and as the bucket continues in a downward direction air from the chamber will escape through the vent 20, and at which time the ports 15 will be positioned above the bottom 6, thereby permitting the water to flow to the body 1 until the same is filled. When the bucket is moved upwardly the weight of the water upon the disk 12 will positively cause the valve disk 13 to seat.

What is claimed is:—

1. A well bucket comprising a body, a sleeve connected to the lower end of said body, a bottom mounted in the sleeve, a valve tube having its upper end connected to the bottom and its lower end to the sleeve, a valve stem slidably mounted in the tube and having a valve disk secured to its upper end, ports formed near the upper end of the valve stem and being closed by the valve tube when the valve disk is seated upon the bottom.

2. A well bucket comprising a body having a tapered sleeve secured to its lower end, a bottom mounted in the sleeve, said bottom having an aperture formed centrally thereof, a valve tube having its upper end secured in the aperture and its lower end secured to the lower end of the sleeve, a hollow valve stem slidably mounted in the tube, a plate closing the upper end of the stem, a valve

disk connected to the plate, ports formed
in the stem and below the plate, said ports
being closed by the tube when the valve
disk is seated upon the bottom, said ports
5 being adapted to disengage the valve tube
when the bucket is lowered in the well and
the valve disk disengages the bottom.

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

HENRY A. BOTT.

Witnesses:

HENRY SWANSON,
SAMUEL BERNARD.

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