

No. 755,535.

PATENTED MAR. 22, 1904.

O. PIERRE.
WELL BUCKET.

APPLICATION FILED OCT. 30, 1903.

NO MODEL.

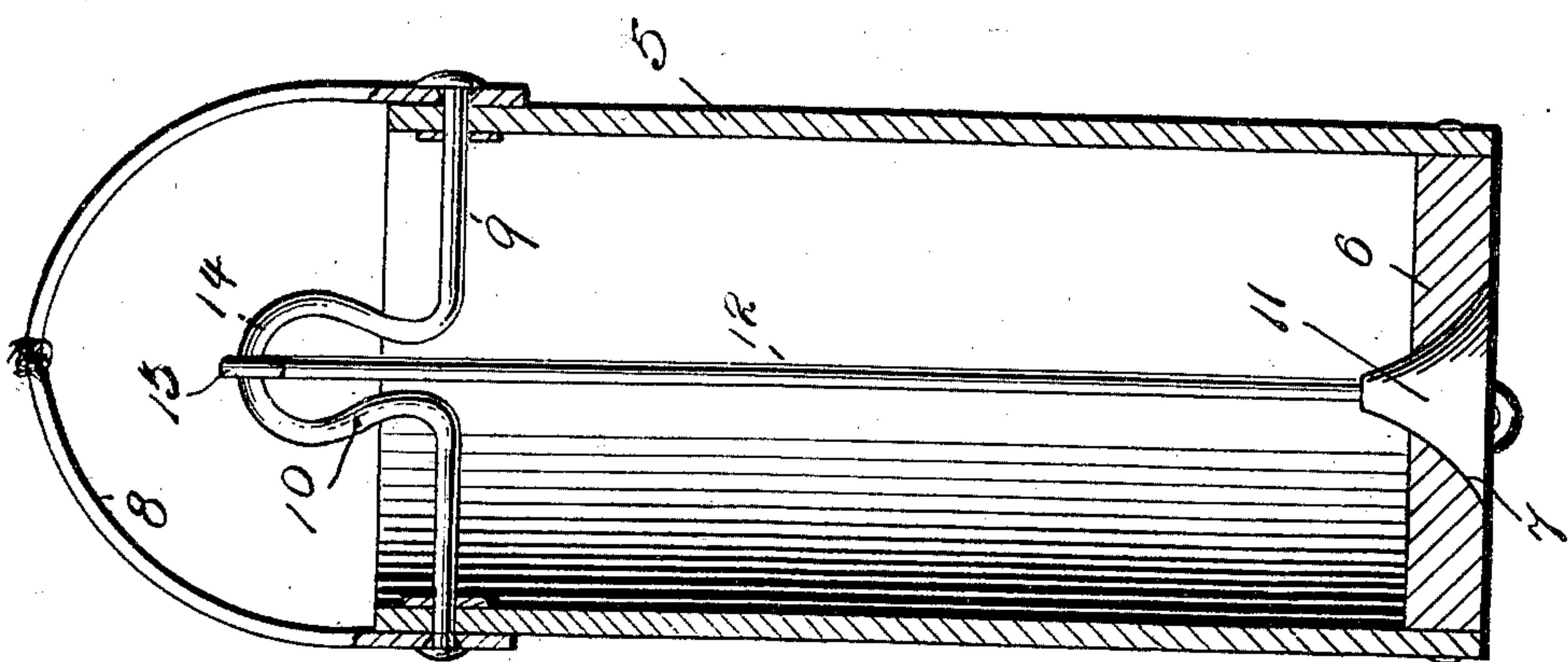
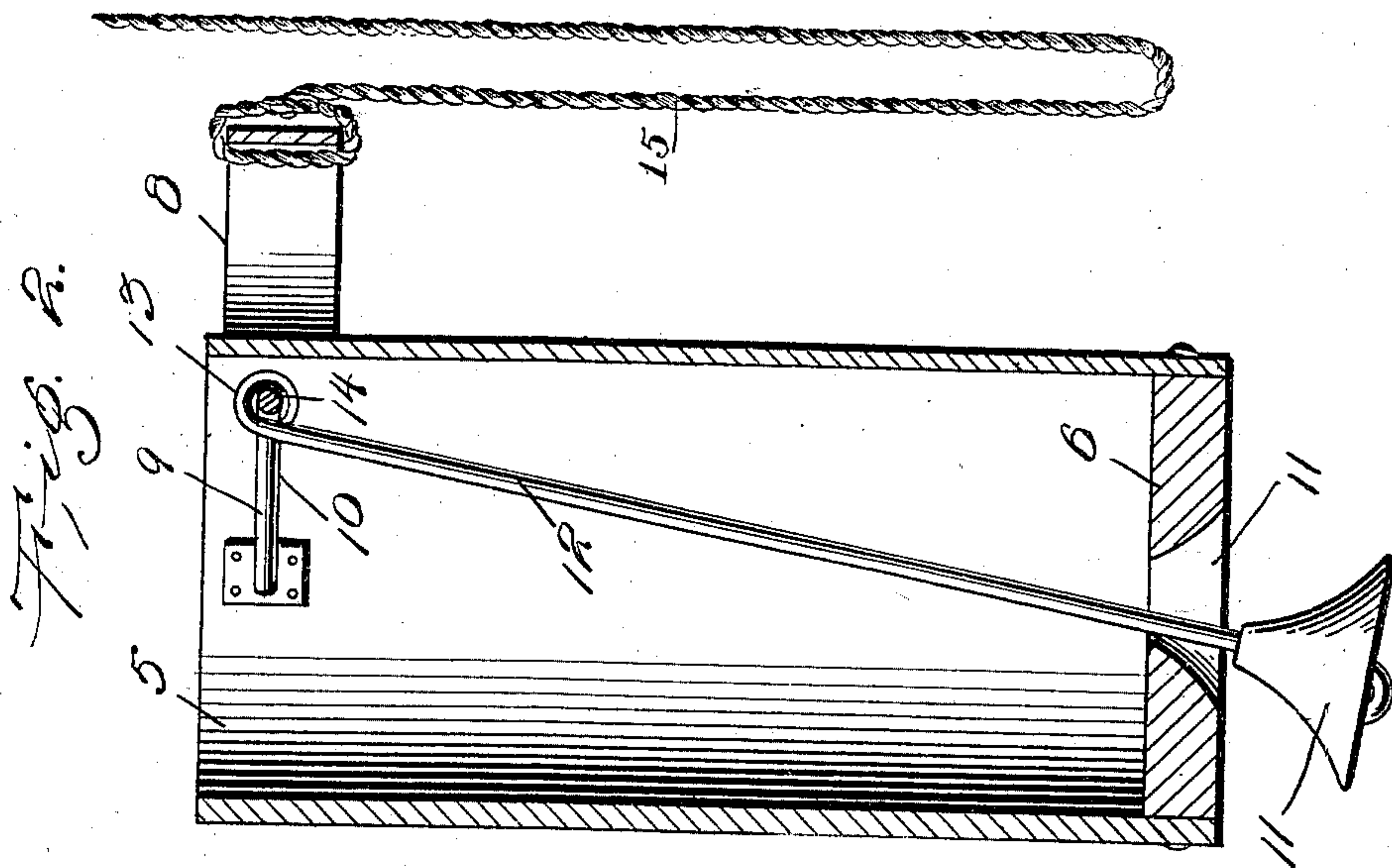


Fig. 1.

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UNITED STATES PATENT OFFICE.

OLEN PIERRE, OF HUSSER, LOUISIANA.

WELL-BUCKET.

SPECIFICATION forming part of Letters Patent No. 755,535, dated March 22, 1904.

Application filed October 30, 1903. Serial No. 179,155. (No model.)

To all whom it may concern:

Be it known that I, OLEN PIERRE, a citizen of the United States, residing at Husser, in the parish of Tangipahoa, State of Louisiana, have
5 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
10 make and use the same.

This invention relates to buckets for wells; and it has for its object to provide a bucket having in its bottom an opening for ingress and egress of water and a valve for the said
15 opening so connected with the bail of the bucket that when the bail falls laterally, as when the well-rope is slack when the bucket reaches the bottom of the well or the water-level, the valve will be positively open, so
20 that water will run into the bucket without necessitating tilting of the bucket, as is customary, to cause the bucket to take water over its edge or rim.

A further object of the invention is to provide a construction wherein the valve will be held positively in closed position when the bucket is raised by its bail and cannot open until the bail is released and swung laterally.

In the drawings forming a portion of this
30 specification, and in which like numerals of reference indicate similar parts in both the views, Figure 1 is a vertical section taken centrally through a well-bucket embodying the present invention, the valve, the bail, and
35 the connections between the bail and valve being in elevation with the valve in closed position. Fig. 2 is a vertical section through the bucket with the valve and its rod in elevation and the bail with its crank-arm in section.
40

Referring now to the drawings, the present bucket comprises a body portion 5 of any suitable dimension, having a bottom 6, centrally of which is formed a downwardly-flared
45 opening or valve-seat 7, this opening being designed for ingress and egress of water.

A rigid bail 8 is provided for the bucket and is substantially U-shaped, the ends of the
50 bail being disposed against the outer face of the bucket at diametrically opposite points

adjacent to the upper edge thereof, these ends of the bail being connected to the ends of a shaft 9, which has bearings in the wall of the bucket, the central or middle portion of the shaft being bent upwardly into U shape in
55 the plane of the bail to form a crank-arm 10. With this arrangement it will be seen that when the bucket is suspended by its bail the crank-arm will stand vertical within the inclosure of the bail.
60

A conical valve 11 is provided for the opening in the bottom of the bucket, said valve being carried at the lower end of a valve-rod 12, which is passed upwardly and centrally of the bucket and is pivotally connected at its
65 upper end through the medium of an eye 13, which engages the bight portion 14 of the shaft 9.

The valve-rod is of such length that when the bail is in vertical position and the bucket
70 is suspended thereby the valve will be held firmly in the valve-seat, the shaft 9 being more or less resilient, so that the valve may engage the seat before the bail has quite reached the vertical position, and the shaft
75 will then be placed under tension to hold the valve more securely in closed position and prevent any movement from its seat, as the bucket may swing while being drawn from a well.
80

The bucket is raised and lowered by means of a rope or other connection 15, and while being lowered into a well the valve is held in closed position, as above described. When the bucket reaches the water and rests there-
85 on, the bail falls over to one side, which action is assisted by the weight of the rope and the tension of the shaft 9, and further movement of the bail serves to open the valve, so that water may run into the bucket and sink
90 it. As soon as an attempt is made to raise the bucket by its bail, whether the bucket be full or not, the valve is closed, and the water therein is retained and raised from the well. The bucket may then be emptied by tilting it
95 or by manipulation of the bail to open the valve.

In practice modifications of the specific construction shown may be made, and any suitable materials and proportions may be used
100

for the various parts without departing from the spirit of the invention.

What is claimed is—

1. A bucket having an inlet-opening provided with a valve, a pivoted bail for the bucket and connections between the bail and the valve, said valve being movable with the bail into and out of closed position when the bail is swung into and out of active position to suspend the
10 bucket.

2. A bucket having an inlet-opening, and outwardly-opening valve for the opening, a

pivoted bail for the bucket, a crank-arm movable with the bail and a rod connected with the valve and crank-arm and adapted to hold
15 the valve in closed position when the bucket is suspended by its bail.

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

OLEN PIERRE.

Witnesses:

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