

W. L. DEMING.
 BUCKET PUMP.
 APPLICATION FILED OCT. 26, 1908.

913,203.

Patented Feb. 23, 1909.

Fig. 1.

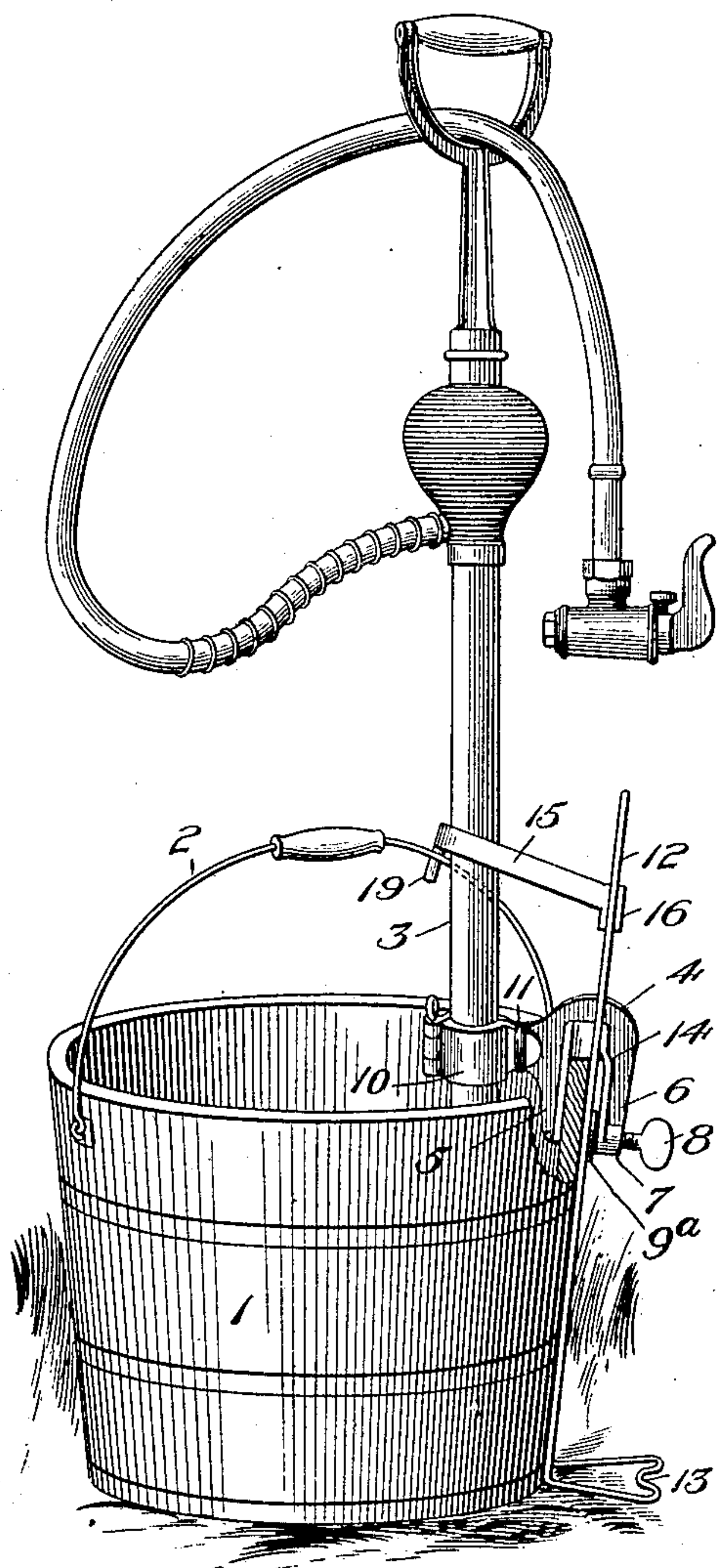


Fig. 2.

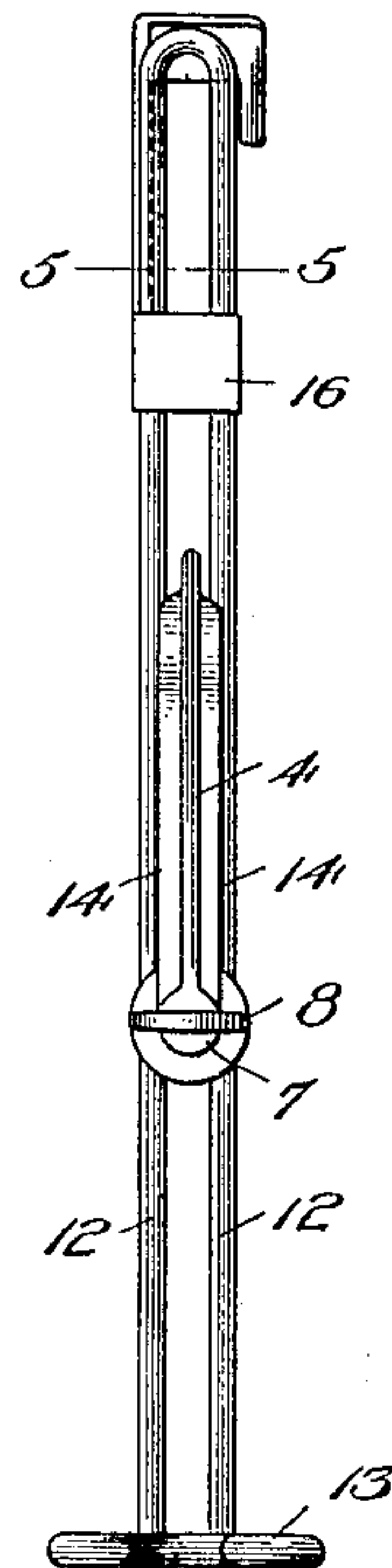


Fig. 4.

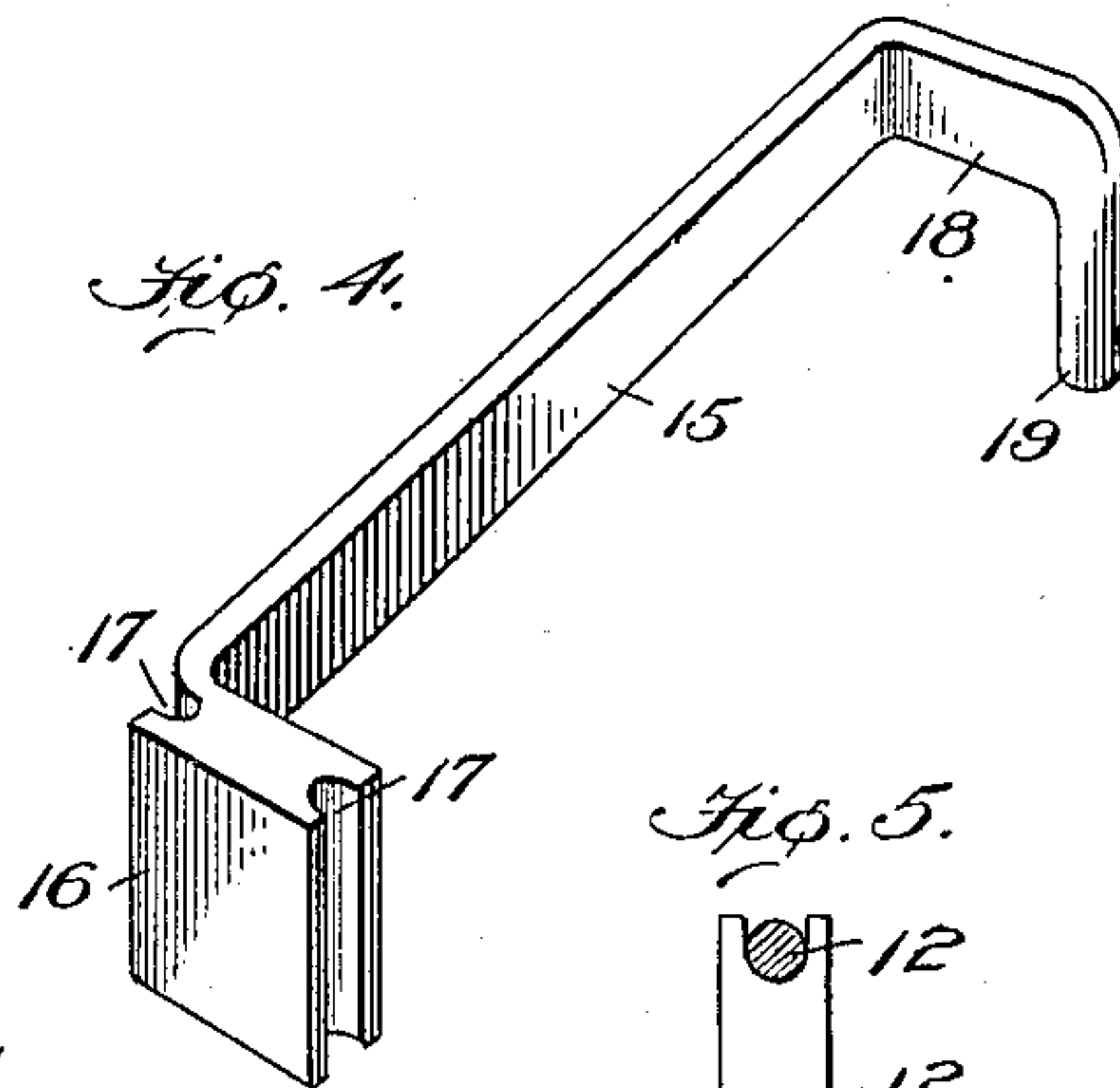


Fig. 5.

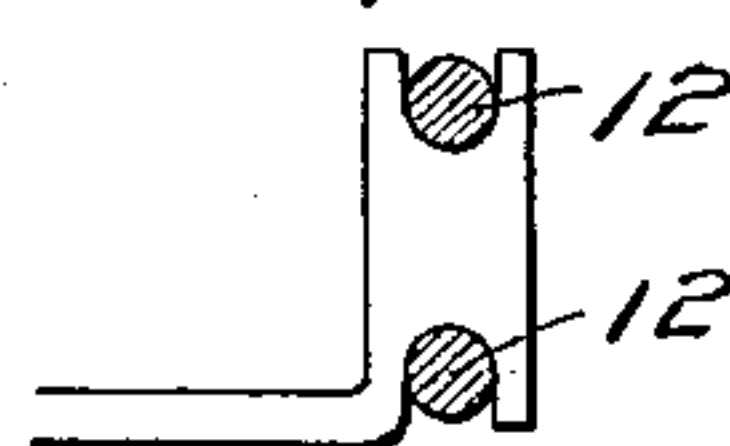
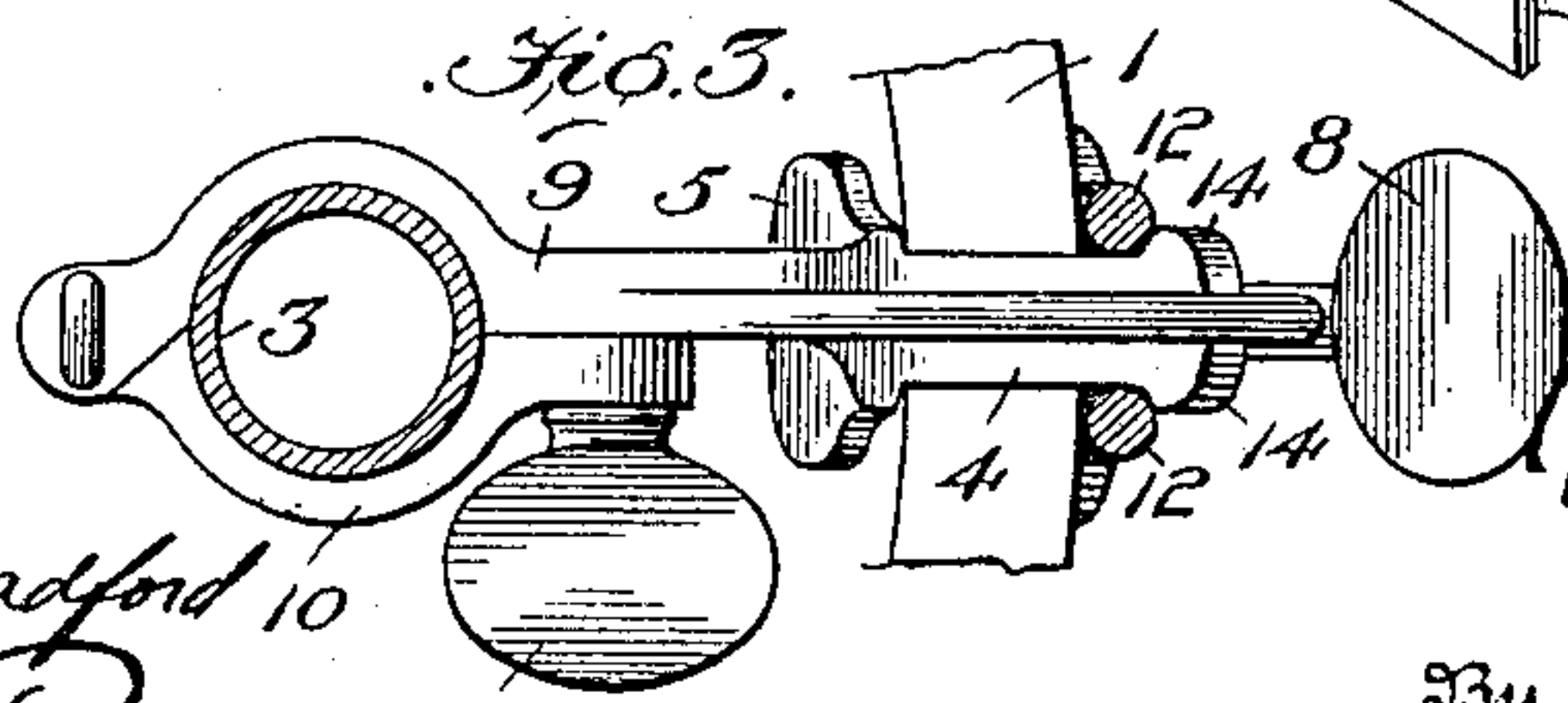


Fig. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

WILLIAM L. DEMING, OF SALEM, OHIO, ASSIGNOR TO THE DEMING COMPANY, OF SALEM, OHIO, A CORPORATION OF OHIO.

BUCKET-PUMP.

No. 913,203.

Specification of Letters Patent.

Patented Feb. 23, 1909.

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To all whom it may concern:

Be it known that I, WILLIAM L. DEMING, a citizen of the United States, residing at Salem, in the county of Columbiana and State of Ohio, have invented certain new and useful Improvements in Bucket-Pumps; 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.

My invention relates in general to water distribution, but has particular reference to pumps of that class known to the trade as bucket pumps, and has for its especial object the production of simple, inexpensive and durable means for effectually securing a suitable pump-stock within a bucket or other receptacle in operative position.

In the accompanying drawings which form part of this application, and whereon like reference characters indicate corresponding parts in the several views; Figure 1 represents in perspective my invention as arranged and combined with an ordinary bucket and a suitable pump in position for use. Fig. 2 is an end elevation of the attaching means for securing bucket and pump together. Fig. 3 is a top plan view partly in section of parts shown by Fig. 2 including a horizontal section through pump stock, and a fragment of a bucket rim. Fig. 4 is a view in perspective of the bucket-bail-support detached, and Fig. 5 a detail sectional view taken on the line 5—5, Fig. 2.

Reference being had to the drawings and numerals thereon, 1 indicates a bucket or water-tight receptacle of any suitable material and form having a pivotally connected bail 2 such as is common to buckets generally.

The numeral 3 indicates the cylinder or barrel of a hand pump which obviously may be of any approved pattern, but adapted in any event for attachment within the bucket 1 as shown by Fig. 1.

The rim of bucket 1 at one point is bridged by the body 4 of the attachment for securing said bucket and pump together in position for use, and by preference, but not necessarily, said body is formed of cast metal in one piece having downwardly projecting, inner and outer, relatively fixed jaws 5, 6, respectively, the former of which normally rests against and bears upon the

inner surface of the bucket rim as clearly shown by Fig. 1, while through an enlargement or boss 7 at the lower end of said jaw 6 is threaded a flat-head thumb-screw 8 in swiveled connection at its inner end with a clamping washer 9^a by agency whereof the attachment is secured in place, as will later appear.

Projecting inwardly from the body portion 4 is the pump coupling comprising an integral member 9 and a relatively movable member 10, hinged to the latter, which together encircle the pump cylinder 3 in clamping relation, the coupling member 10 being removably secured to its cooperating member 9 by means of flat-head thumb-screw 11, or similarly.

Crossing the attachment body 4 in a direction substantially parallel with its jaws 5, 6 is a relatively stiff wire frame 12 which terminates at its base in a foot rest 13, and is preferably continuous in form as best shown by Fig. 2. The parallel sides of this frame 12 are adapted to spring over the outer jaw 6 and its lateral flanges 14, 14 between which and the outer surface of bucket 1 it may be securely clamped, by agency of the washer 9^a and screw 8 aforesaid, with its upper end projecting above as shown.

Upon the upper end of frame 12 is mounted a latch member 15 comprising, preferably in a unitary structure, a sliding block 16 configured on opposite edges by vertical grooves 17, 17 into which the parallel members of frame 12 are sprung to serve as tracks or guides; its opposite or inner end being curved or angled as at 18 and terminating in a downturned hook 19 having for its purpose to engage the bucket-bail 2 and retain it in a vertical position.

This being a description of my invention in its preferred form of construction it should be noted that the parts hereinbefore particularly described may be variously changed and modified to produce substantially the same results without departing from the spirit of the invention.

The operation is quite evident, but it may here be noted that screw 8 performs the double function of securing the attachment as a whole, and also the foot rest 13 in operative position; the attachment at same time being vertically adjustable both with relation to the pump cylinder 3 and height

of the bucket 1. In like manner latch 15 is vertically movable to accommodate bucket-bails of varying height; and, when secured as indicated by Fig. 1, obviously the bail is
5 at all times accessible for the ready removal of the entire structure without disarrangement of any of its parts.

Having thus described my invention, what I claim and desire to secure by Letters Patent is:
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1. In an attachment for securing a pump to a bucket or other vessel the combination with a clamp for engaging both bucket and pump, a superposed frame, and a latch vertically movable upon said frame to engage
15 and retain the bucket-bail in a vertical position, substantially as described.

2. In an attachment for securing a pump to a bucket or other vessel the combination
20 with a clamp for engaging both bucket and pump, a superposed frame, and a latch for engaging the bucket-bail provided with a block slidingly mounted upon said frame, substantially as described.

25 3. In an attachment for securing a pump to a bucket or other vessel the combination with a clamp for engaging both bucket and pump, a superposed frame, and a latch for engaging the bucket-bail provided with a
30 block having grooved sides slidingly mounted upon the sides of said frame, substantially as described.

4. In an attachment for securing a pump to a bucket or other vessel the combination
35 with a clamp for engaging both bucket and pump, a superposed frame having parallel spring sides, and a bucket-bail-latch pro-

vided with a supporting block slidingly mounted between the spring sides of said frame, substantially as described. 40

5. In an attachment for securing a pump to a bucket or other vessel the combination with a clamp for engaging both bucket and pump, a frame crossing said clamp and terminating in an angular foot rest, and a
45 bucket-bail-latch slidingly mounted upon said frame above the clamp aforesaid, substantially as described.

6. In an attachment for securing a pump to a bucket or other vessel the combination
50 with a clamp for engaging both bucket and pump, a double skeleton frame crossing and adjustably secured to said clamp, a foot rest upon the frame, and a bucket-bail-latch carried by a supporting block slidingly
55 mounted between opposite sides of said frame, substantially as described.

7. In an attachment for securing a pump to a bucket or other vessel the combination with a clamp for engaging both bucket and
60 pump, an adjustable frame crossing said clamp, a foot rest upon the frame, a bucket-bail-latch carried by a supporting block slidingly mounted upon said frame, and a
65 screw for securing all parts together including the adjustable frame aforesaid, substantially as described.

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

WM. L. DEMING.

Witnesses:

WM. E. DYRE,
J. C. BOONE.