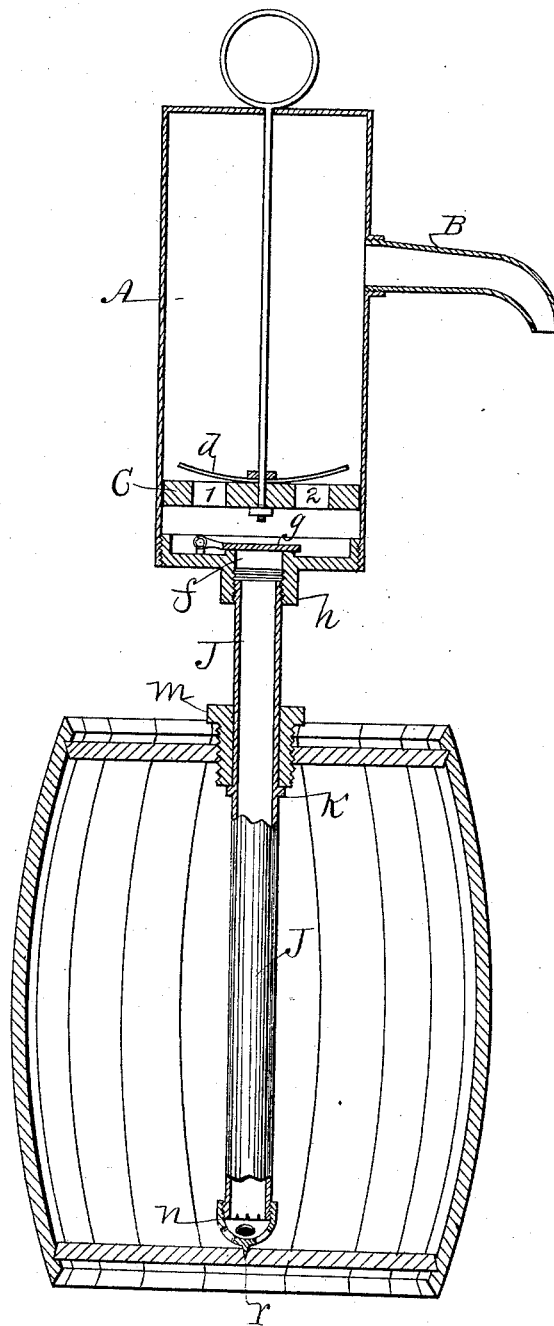


(No Model.)

J. W. McKINLEY.
HAND PUMP AND BARREL ATTACHMENT.

No. 418,469.

Patented Dec. 31, 1889.



Witnesses:

M. P. Smith }
G. H. Lues. }

[Signature]

Inventor:

James W. McKinley,
By Thomas G. Orwig, Atty.

UNITED STATES PATENT OFFICE.

JAMES W. MCKINLEY, OF OSKALOOSA, IOWA.

HAND-PUMP AND BARREL ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 418,469, dated December 31, 1889.

Application filed March 11, 1889. Serial No. 302,836. (No model.)

To all whom it may concern:

Be it known that I, JAMES W. MCKINLEY, a citizen of the United States of America, and a resident of Oskaloosa, in the county of Mahaska and State of Iowa, have invented a new and useful Hand-Pump and Barrel Attachment, of which the following is a specification.

My object is to fasten a pump securely in a barrel in such a manner that it need not be held by hand while it is operated to draw liquid from the barrel.

My invention consists in the combination of a pump and fastening devices with a barrel or other vessel adapted to contain liquid, as hereinafter set forth, pointed out in my claims, and illustrated in the accompanying drawing, in which—

A represents a pump-cylinder, closed at its top and provided with a discharge-spout B at its side and top portion.

C is a plunger provided with ports Nos. 1 and 2 and a duplex valve *d*, adapted to simultaneously close the ports at each upward motion and to open them at each downward motion of the plunger, as required, to lift water therewith to be discharged from the cylinder through the spout B.

f is a valve-seat adapted in size to serve as a bottom in the cylinder. It is screw-threaded on its periphery and engages a corresponding internal screw in the end of the cylinder.

g is a valve hinged to the valve-seat.

h is an integral tubular extension on the under side of the valve-seat.

J is a tube detachably connected with the extension *h* at the bottom of the valve-seat by means of screw-threads.

k represents an annular flange or collar formed on or fixed to the outside of the tube.

m is a metal bushing slipped over the top end of the tube to engage the collar *k* before the tube is attached to the bottom of the pump-cylinder. An external screw-thread on the bushing adapts it to be detachably and adjustably connected with the end of a bar-

rel by inserting it in a spigot-hole and then revolving it by means of a wrench applied to its head or in any suitable way.

n is a perforated cap that has an internal screw adapted to engage an external screw on the lower end of the tube J.

r is a pointed integral projection on the cap adapted to penetrate the inside face of a barrel-head when the tube is pressed downward by means of the adjustable bushing that engages the collar *k*, as required, to retain the tube and pump fixed to the barrel and in a perpendicular position, so that the plunger in the piston can be advantageously operated to pump liquid contents from a barrel without taking hold of the cylinder or tube to retain the pump stationary while in operation.

To fasten the tube to the bottom of the sheet-metal vessel, the cap *n* can be removed and the end of the tube notched or perforated and then pressed down upon the bottom of the vessel with sufficient force to hold it stationary and perpendicular without perforating or damaging the sheet metal.

I am aware that a pump-stock provided with a collar has been combined with a sink and a vessel by means of a bushing and a screw-cap fixed on top of the bushing to engage the collar on the pump-stock; but my manner of combining a bushing with a tube having a collar, so that the lower end of the bushing will engage the collar on the inside of a vessel, is novel and greatly advantageous.

I claim as my invention—

An externally-screw-threaded bushing having a head adapted to be engaged by a wrench, a pump-tube having a shoulder to engage the bushing, and a cap on the lower end of the tube having a pointed projection, combined with a vessel whose bottom it engages, in the manner set forth, for the purposes stated.

JAMES W. MCKINLEY.

Witnesses:

J. W. BATEMAN,
JOHN N. MARTIN.