

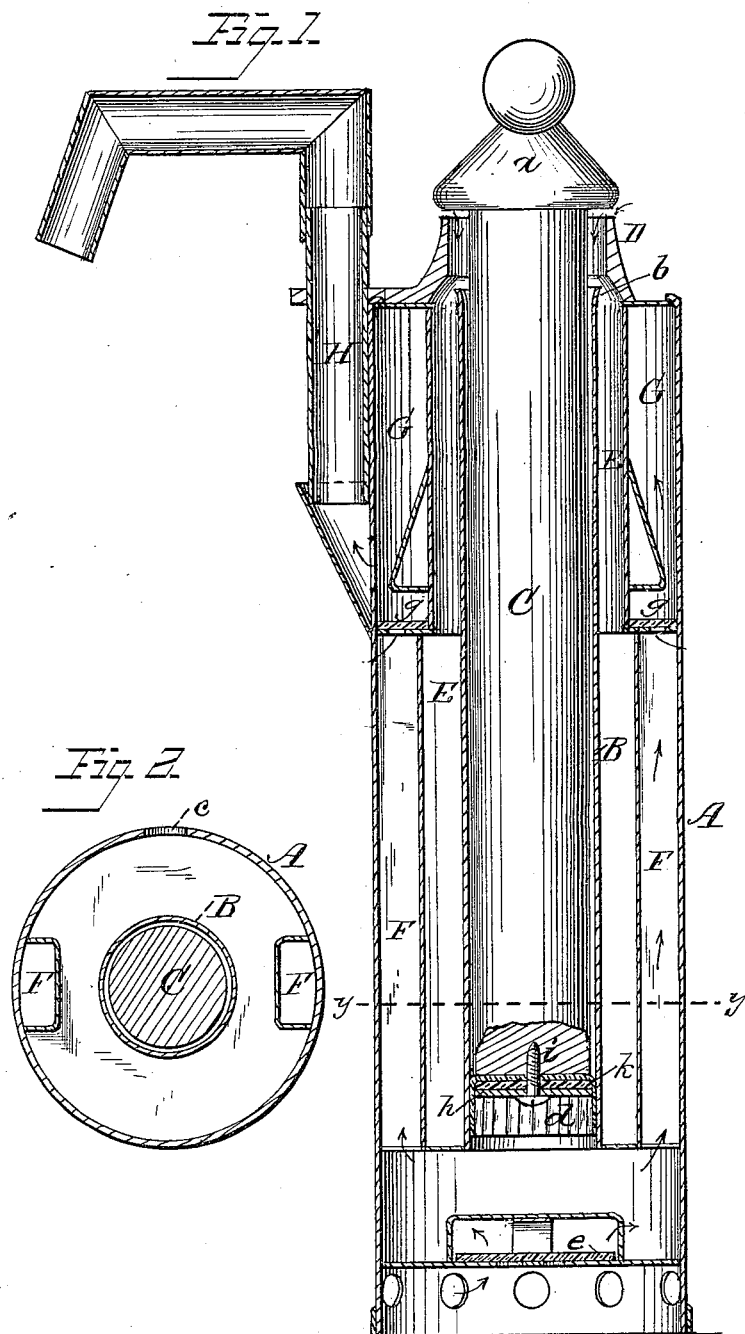
(No Model.)

M. B. BROOKS.

BARREL PUMP.

No. 263,384.

Patented Aug. 29, 1882.



Witnesses:  
F. L. Ourand  
L. L. Miller

Inventor:  
Mott B. Brooks  
per Cha. H. Fowler  
Attorney

# UNITED STATES PATENT OFFICE.

MOTT B. BROOKS, OF NORTH HAMMOND, NEW YORK.

## BARREL-PUMP.

SPECIFICATION forming part of Letters Patent No. 263,384, dated August 29, 1882.

Application filed June 13, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, MOTT B. BROOKS, a subject of Great Britain, residing at North Hammond, in the county of St. Lawrence and State of New York, have invented certain new and useful Improvements in Barrel-Pumps; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a vertical section of my invention, and Fig. 2 a horizontal cross-section taken on line *y y* of Fig. 1.

The present invention has for its object to provide a simple, cheap, effective, and practically-operating pump, that can be readily and securely attached to an oil-barrel or other vessel containing liquids, and that will throw a continuous stream by means of a single piston, and be free of any leakage or waste of oil around the piston. These objects I attain by the construction, substantially as shown in the drawings, hereinafter described and claimed.

In the accompanying drawings, A represents the outer cylindrical casing of the pump, having a central cylinder, B, of less height than the casing and open at both ends, said cylinder containing a piston, C, provided at its upper end with a suitable handle, *a*, for actuating it. The upper end of the cylinder B is made slightly flaring, as shown at *b*, and extends above the top of the casing A. This casing has a metal top, D, of substantially the form shown, so as to admit the passage of air between it and the upper end of the piston C, said air passing in its course between the piston and cylinder, and also down into a drip-chamber, E, extending the entire length of the cylinder. By this construction the oil or other liquid which is being pumped, and which escapes through the packing into the cylinder B, flows upward through the same and over the top, down into the drip-chamber E and out the escape-opening *e*, through the casing A, back into the vessel or barrel.

It will thus be seen that there is no waste or loss of oil or other liquid which passes up into the cylinder around the piston, as would be the case when the leather packing *d* wears away.

The leather packing *d* is secured to the lower end of the piston C by the metal disk *h* and screw *i*.

A rubber packing, *k*, is interposed between the metal disk *h* and leather packing, so as to equalize the suction and overcome any inequalities or unevenness in the cylinder, the leather turning down over said rubber, thus making it easy to work and preventing the tightening of the leather, as it would when the leather is turned upward on account of the swelling of the wood.

The continuous motion of the piston C will cause the liquid to raise the valve *e* and flow up into the casing A and through the tubes F, where it will force the valves *g* off their seats and pass in and around the chamber G, and thence out through the pipe H.

Having now fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a pump for barrels and other vessels, the casing A, having central cylinder, B, and the plunger or piston C, in combination with the chamber G and valves *g* and metal top D, said top and the cylinder B being open at their upper ends to form a space around the plunger or piston, substantially as and for the purpose set forth.

2. The combination, with the casing A, passages or tubes F, and chamber G, of the air-vent and drip-chamber E, central cylinder, B, plunger C, and the several valves, substantially as and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

MOTT BILLINGS BROOKS.

Witnesses:

ROBERT A. MACDOUGALL,  
C. MCC. MYERS.