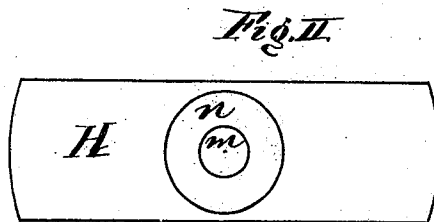
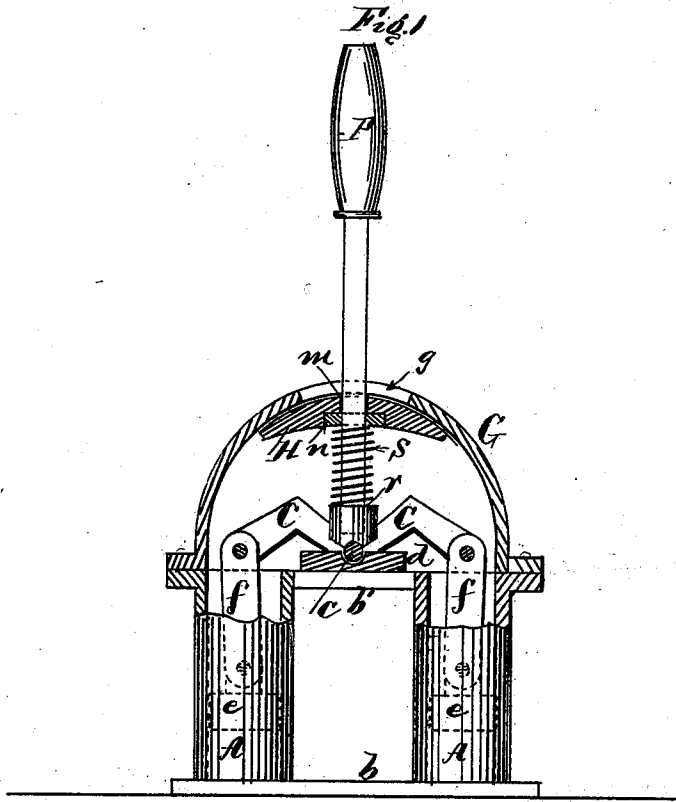


W. D. BAXTER.

PUMP.

No. 172,842

Patented Feb. 1, 1876.



Witnesses:
Richard Gerner
Franklin Barritt

Inventor:
William D. Baxter
Per: Henry Gerner,
Atty.

UNITED STATES PATENT OFFICE.

WILLIAM D. BAXTER, OF NEW YORK, ASSIGNOR TO CHARLES E. BAXTER,
OF WILLIAMSBURG, NEW YORK.

IMPROVEMENT IN PUMPS.

Specification forming part of Letters Patent No. 172,842, dated February 1, 1876; application filed
September 13, 1875.

To all whom it may concern:

Be it known that I, WILLIAM DAVID BAXTER, of New York city, county and State of New York, have invented certain Improvements in Pumps, of which the following is a specification:

The object of my invention is to provide for a water-tight joint for the pump-handle of a double-cylinder pump, such packing being readily adjusted or removed for renewal or repair.

My invention consists in cutting a slot in the top of a hollow semicircular cover, which cover is adjusted by screws over the top of both cylinders. Between the cylinders is placed a fixed journal, in which the axle of the double lever, operating the two pistons, is placed. To the top of this double lever is cast a circular socket, into which the lower end of the pump-handle is placed, after first being introduced into the circular cover, through the forementioned slot in the top of the same.

In order to prevent the water from being forced out through this slot a joint is formed by a segment, having the form of the semicircular cover. Through the center of this segment is cut a hole, through which the pump-handle passes, after being provided with a packing of india-rubber, to prevent the water from entering the said hole.

A spiral spring surrounding the lower part of the pump-handle and resting on the top of the double lever, and against the under side of the india-rubber packing in the bottom of the segment, presses the said segment up against the under side of the circular cover,

and forms thus a reliable self-packing water-tight joint for the pump-handle, in its movements back and forth in the slot of the cover.

In order to describe my invention more fully, I refer to the accompanying drawing, forming a part of this specification.

Figure I is a vertical section of a pump embodying my invention. Fig. II is a detached bottom view of the segment forming the joint.

A A are the two cylinders of the pump, connected by pieces *b b'*. C is the double lever, with axle *c* resting in the journal *d* on the top of piece *b'*. *e e* are the pistons of the pumps, connected to the double lever by the connecting-links *f f*. G is the hollow semicircular cover, fastened to piece *b'* by screws. *g* is the slot in the top of the cover. H is the segment forming the packing, with hole *m* and india-rubber packing *n*. P is the pump-handle, passing through slot *g* and the hole *m*, and resting in the circular socket *r*, formed on the top of the double lever C. S is the spiral spring.

Having thus described my invention, I desire to claim—

The segment H with hole *m* and packing *n*, in combination with pump-handle P, double lever C, with socket *r*, cover G and cylinders A A, substantially as described, and for the purpose set forth.

This specification signed this 8th day of September, 1875.

WILLIAM DAVID BAXTER.

Witnesses:

RICHARD GERNER,
ANTON C. CRONDAL.