

G. Page, Force Pump,

N^o 5071.

Patented Apr. 17, 1847.

Fig. 2.

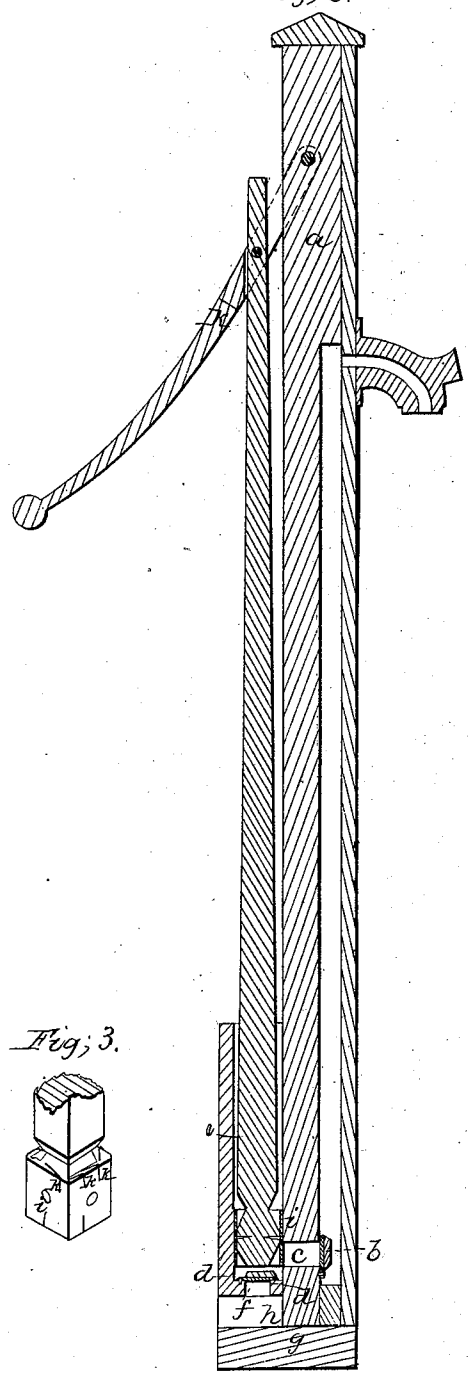


Fig. 1.

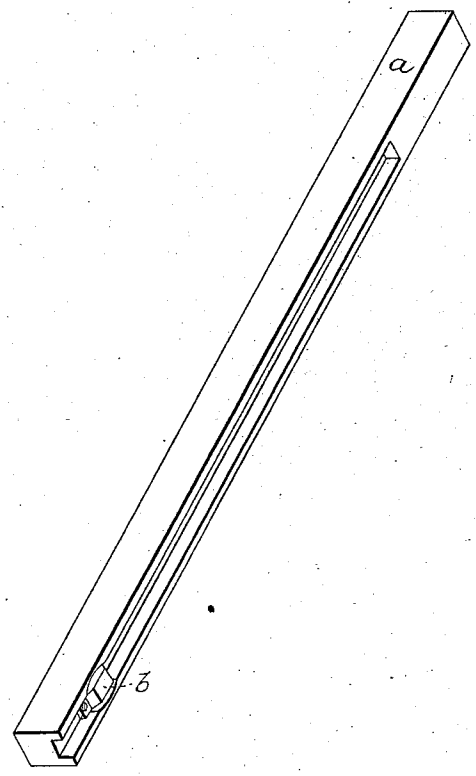
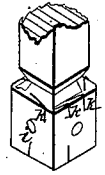


Fig. 3.



UNITED STATES PATENT OFFICE.

GEORGE PAGE, OF WASHINGTON, DISTRICT OF COLUMBIA.

PISTON FOR PUMPS, &c.

Specification of Letters Patent No. 5,071, dated April 17, 1847.

To all whom it may concern:

Be it known that I, GEORGE PAGE, of the city of Washington, in the District of Columbia, have invented new and useful Improvements in Pumps, and that the following is a full, clear, and exact description of the principle or character which distinguishes them from all other things before known and of the manner of making, constructing, and using the same, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is an isometrical view of the scantling that forms the body of the pump with the front board removed; Fig. 2, is a vertical section through the pump and boxes, &c., showing their relative position.

The same letters indicate like parts in all the figures.

The nature of my invention consists in constructing a cheap and durable pump by so arranging the parts as to be able to form the pump out of a plain scantling grooved on one side and covered with a plain board, and forming a suitable box thereto, that shall keep perfectly packed.

The pump is constructed in the following way: A plain piece of scantling (*a*) is grooved out on one edge as shown in the drawing; near the lower end of this piece there is a hole (*c*) bored through the stick from the groove to the opposite side which is covered by a valve (*b*) that is fastened in the groove which is a little enlarged at that point for the purpose. Onto the side of the main piece (*a*) opposite the groove another piece (*d*) is fastened near the lower end and extending up far enough for forming a valve seat and chamber for the piston to work in; this piece is cut out from the valve seat (*d'*) upward so as to form the chamber (*e*) for the piston to work in, and into this chamber, near the bottom, the hole

(*c*) from the opposite side opens. A hole (*f*) is bored down through the valve seat (*d'*), which is covered by the valve (as shown in Fig. 2). Onto the bottom of the main piece (*a*) there is a foot piece (*g*) of the same scantling fastened, having a space (*h*) between it and the bottom of the piece in which the valve seat (*d*) is formed to admit the water just above the bottom. On each side of these lower parts a board is nailed that holds the stock (*a*) and chamber (*e*) firmly together.

The piston is a common, plain square rod having its lower end scarfed off as shown in the drawing and just above that point it is notched in so as to form four similar inclined sides thus forming two truncated pyramids, where the bases of these two pyramids join is nailed a piece of leather (*i*) cut thin at the corners, on the inside, its edges being slit on the sides at (*k*) diagonally across so that when the upper edge expands the parts shall still overlap as shown in the drawing Fig. 3 so as to allow it to expand against the sides of the chamber and still make a tight joint. The pump handle (*h*) is crotched and embraces the rod and pump stock, being jointed in the usual way.

Having thus fully described the construction of my improved pump, what I claim therein as new and desire to secure by Letters Patent is—

Constructing the piston and packing as described, so as to cause it to pack out to the square corners as described while working either way without any accurate fittings, as set forth.

GEO. PAGE.

Witnesses:

A. P. BROWNE,
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