W. S. CARR.

Pump.

No. 131,663. Patented Sep. 24, 1872.

Fig. 1.

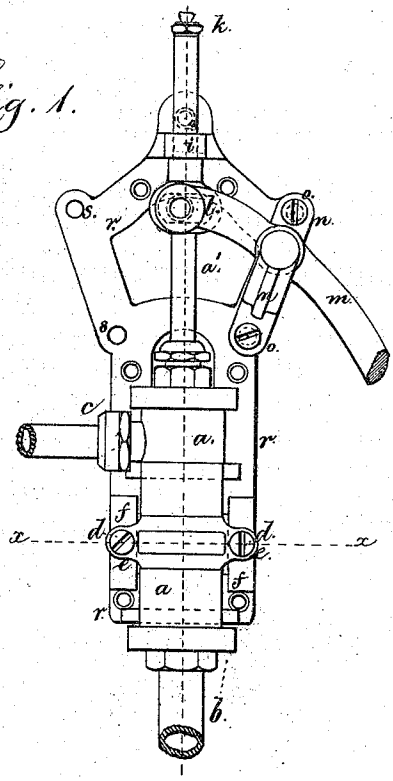


Fig. 2.

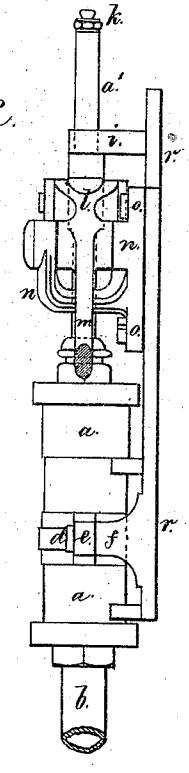
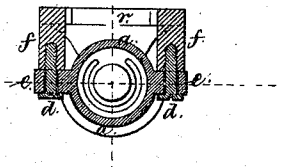


Fig. 3.



Witnesses,
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Harold Serrell

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UNITED STATES PATENT OFFICE.

WILLIAM S. CARR, OF NEW YORK, N. Y.

IMPROVEMENT IN PUMPS.

Specification forming part of Letters Patent No. **131,663**, dated September 24, 1872.

To all whom it may concern:

Be it known that I, WILLIAM S. CARR, of the city and State of New York, have invented an Improvement in Pumps; and the following is declared to be a correct description thereof.

In connecting pumps to the respective pipes there is a difficulty experienced that the coupling of the pipe is upon the wrong side of the barrel, and hence the pump cannot be placed in the most convenient position in a building. The same difficulties arise in regard to the lever-handle; hence pumps have to be made right and left handed, to suit the positions in which they are to be used in buildings; but in cases of alterations the pumps frequently have to be changed.

My present invention is made for the purpose of allowing the parts of the pump to be transposed and thereby adapted to any position where they are to be employed. I make use of a metallic frame carrying the parts of the pump, and said frame is of the same shape at each side of a center line, and provided with two sets of holes for the bolts that connect the bracket of the handle or lever, thus allowing the handle to be attached at either side, and the pump is in line with the center of the frame and provided with attaching-lugs that are of equal width on each side of a vertical central plane, so that the pump can be positioned with the discharge-pipe leading either to the right or the left, and thereby the entire pump can be adapted to any position where it is to be placed.

In the drawing, Figure 1 is an elevation of the said pump, a portion of the handle being broken off; Fig. 2 is a side view of the pump; and Fig. 3 is a section at the line *x x*.

The pump-barrel *a* is provided with a piston and rod, *a'*, with the usual valves, and an inlet-coupling, *b*, and exit-coupling *c*, for the respective pipes. This barrel is attached to the frame by screws *d* passing through wings or flanges *e* and entering the lugs *f* that project from the surface of the frame. The flanges *e* are of the required size and thickness to furnish the requisite strength, and the faces of these flanges are trued off on both sides at an equal distance from a plane intersecting the center of the pump, so that the pump can be attached to the frame with the discharge-pipe either to the right or to the left, and the position of the center of the pump and the piston-rod to the other parts of the frame will remain unchanged. The upper end of the piston-rod *a'* slides through a guide, *i*, upon the frame, and the extent of downward movement is limited by the screw button or head *k*. In the piston-rod is an enlargement, in which is a slot receiving a roller or pin in the jaw *l* at the end of the lever-handle *m*. The bracket *n* is made to receive the fulcrum-pin of said lever *m*, said pin being entered from the back of the bracket, and the hole does not pass entirely through at the front of the bracket; hence the pin cannot work out of place. The frame *r* is made of corresponding size at each side of the vertical central line, and provided with two sets of bolt-holes, so that the bracket *n* can be bolted to the frame at *o o* or at *s s*, and hence the handle or lever *m* can stand either to the right or to the left, as most convenient for the position where the pump is to be placed.

I claim as my invention—

1. The pump-barrel *a*, with flanges *e e*, having both of their faces trued off at equal distances from a plane intersecting the center of the pump, for the purposes set forth.

2. The frame *r*, made with two sets of screw or bolt holes in corresponding positions at opposite sides of the vertical central line, in combination with the bracket *n* and lever *m*, the parts being constructed substantially as specified, so as to be changeable from one side of the frame to the other, as set forth.

Signed by me this 19th day of March, A. D. 1872.

WM. S. CARR.

Witnesses:
GEO. T. PINCKNEY,
CHAS. H. SMITH.