O. E. FURBER.

ATTACHING HANDLES TO PUMPS.

No. 169,900. Patented Nov. 16, 1875.

Fig. 1.

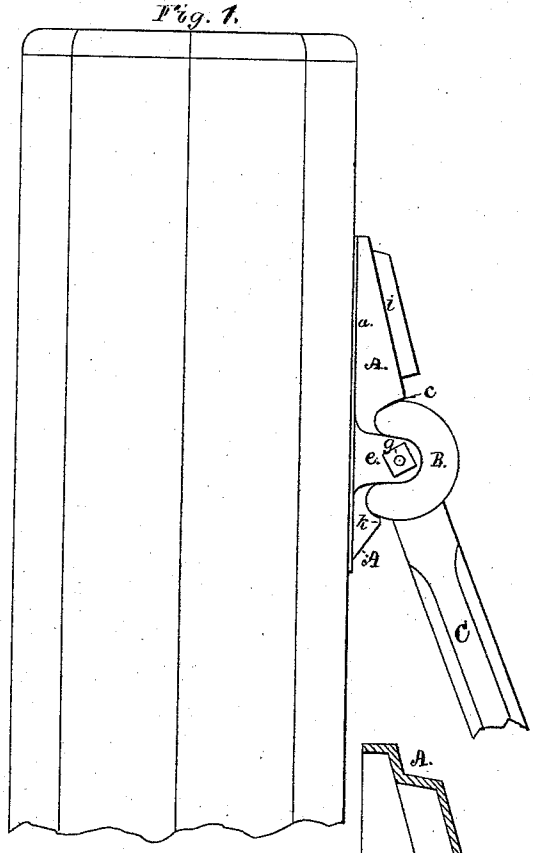


Fig. 2.

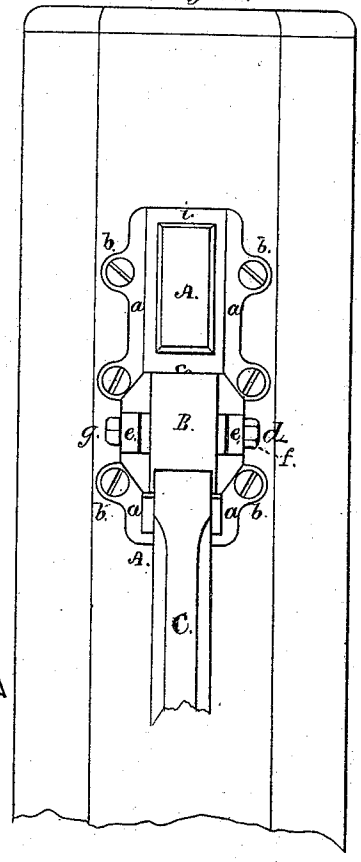
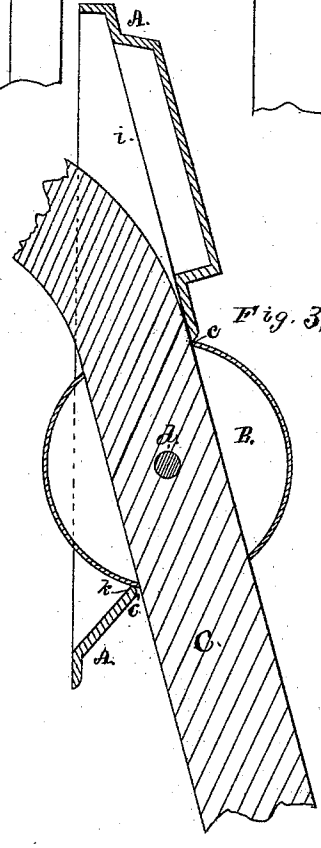


Fig. 3.



Witnesses,
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UNITED STATES PATENT OFFICE.

OSCAR E. FURBER, OF SACO, MAINE.

IMPROVEMENT IN ATTACHING HANDLES TO PUMPS.

Specification forming part of Letters Patent No. **169,900**, dated November 16, 1875; application filed October 14, 1875.

To all whom it may concern:

Be it known that I, OSCAR E. FURBER, of Saco, in the county of York and State of Maine, have invented a new and useful Improvement in Attaching Handles to Pumps; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawing and to the letters of reference marked thereon, which form a part of this specification.

In the said drawing, Figure 1 is a side elevation of a pump having one of my improved handle attachments applied thereto. Fig. 2 is a front elevation of the same. Fig. 3 is a central and longitudinal section of the device as detached.

My invention is especially designed for that class of pumps in which the brake or handle passes through and works in a vertical slot formed through one of the walls of the pump-barrel.

Under the ordinary construction, this slot, in order to allow of the proper length of movement or stroke of the handle, requires to be of much greater length than the vertical thickness of the handle. Through this unprotected opening gravel, stones, sticks, and other foreign matters are often introduced into the barrel of the pump by mischievous or malicious persons, such not only impeding the action of the pump, but injuring the barrel and valves. The object of my invention is to remedy this evil; and my invention consists in the peculiar construction, combination, and arrangement of the parts of the device for applying the handle to a pump, as hereinafter described and claimed.

A in the drawing denotes a metallic case, provided with a flange, *a*, on each of its sides, such flanges having perforated ears *b b*, &c., extending therefrom, and through which screws are to be passed to secure the device or case to the body of the pump. Through an opening, *c*, in the case, and so as to project therefrom, is disposed a hollow drum or cylinder, D, having a hole made axially through it, a rod or bolt, *d*, extending through the same, and having its bearings in lugs or ears *e e*, extending from the base of the case. The bolt or rod *d* is formed at one end, with a head, *f*, its opposite end having a nut, *g*, screwed thereon. The drum B has two rectangular openings made through its periphery and on opposite sides thereof. Through these openings a pump-handle, C, having a transverse area equal to that of the holes, and so as to make a close joint therewith, is to be passed, such handle having a hole made horizontally through it, through which the rod *d*, before mentioned, passes, and serves as a fulcrum for the handle while being vibrated or moved up and down. The drum B is to have such a diameter that when rocked or vibrated on its axis its periphery shall remain in as close contact with the edges of the opening *c* of the case as possible without impinging against the same.

The case A is to have a length and breadth sufficient to cover the slot in the pump-barrel, through which the handle works. The upper end *i* of the case is to be of such a height as to allow the shorter arm of the handle, or that to which the rod of the upper valve is to be attached, to rise to the required altitude, while the lower part *k* is to project at such distance that its top edge shall serve as a stop to arrest the downward movement of the longer arm of the handle when it has reached the desired limit.

Having described my invention, what I claim is—

The improved device as described, the same consisting of the hollow metallic case A, provided with an opening, *c*, and the movable drum B, the latter having a handle, C, extending diametrically through its periphery—such drum and handle being pivoted on the rod *d*, the whole being constructed, combined, and arranged in manner as stated, and for application to the body of a pump, as and for the purpose set forth.

In testimony that I claim the foregoing as my own invention, I affix my signature in presence of two witnesses.

OSCAR E. FURBER.

Witnesses:

F. P. HALE,

F. C. HALE.