(No Model.)

J. F. HESS.

PUMP.

No. 514,991. Patented Feb. 20, 1894.

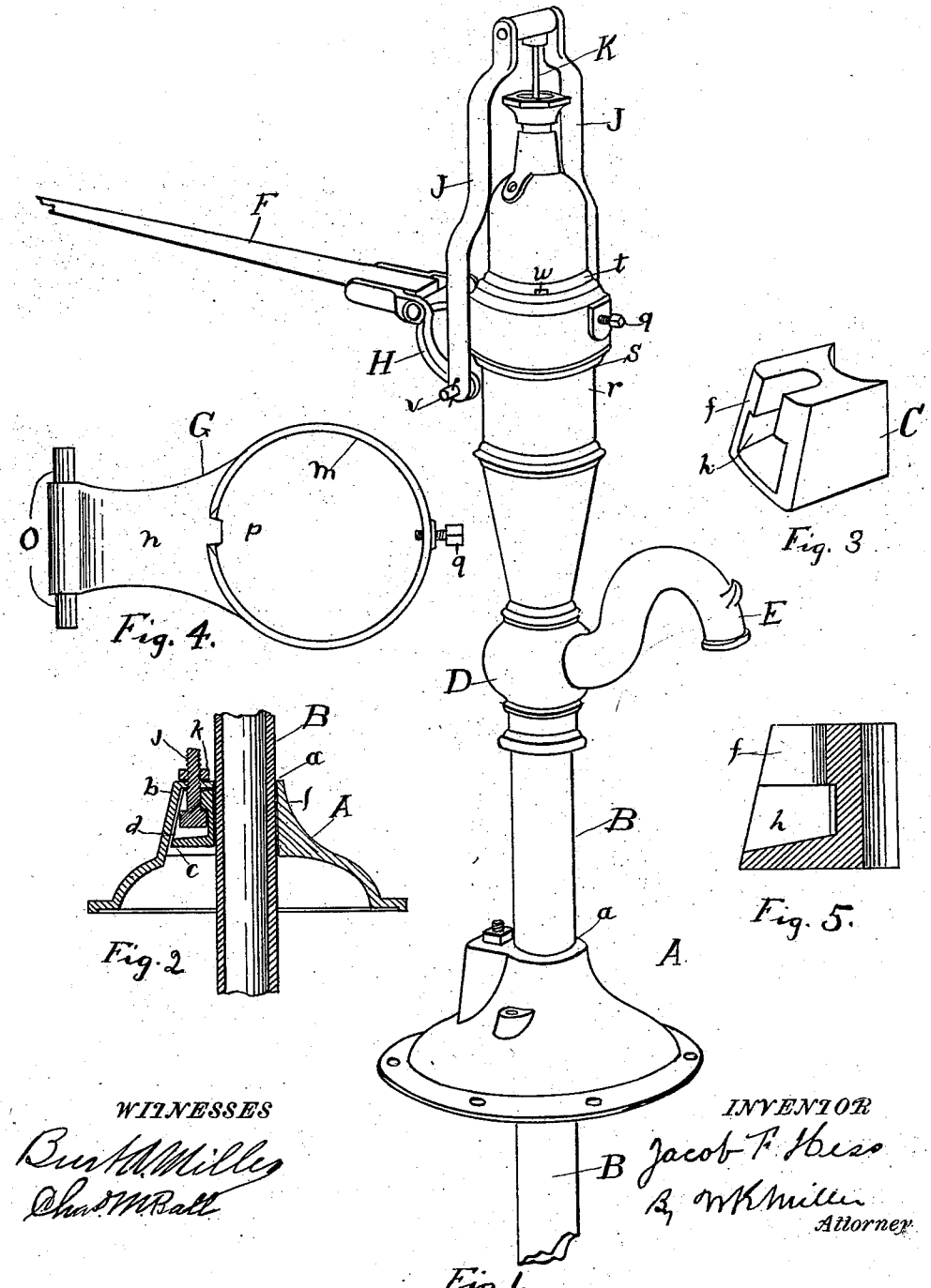

Fig. 3.

Fig. 2.

Fig. 5.

WITNESSES

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SPECIFICATION forming part of Letters Patent No. 514,991, dated February 20, 1894.

Application filed August 31, 1893. Serial No. 484,512. (No model.)

To all whom it may concern:

Be it known that I, JACOB F. HESS, a citizen of the United States, and a resident of Massillon, county of Stark, State of Ohio, have invented a new and useful Improvement in Pumps, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, making part of this specification.

My invention relates to improvements in pumps and consists in providing means for securing the pump stock in the base at a desired point of vertical adjustment, and in providing a handle support to embrace the air chamber that is free to rotate about the air chamber, or be secured in desired adjustment, said handle support to support the pump handle, the prongs of which are pivotally secured to the side bars extending upwardly and connected to the upper end portion of the valve rod.

Figure 1, of the accompanying drawings is a view in perspective of a pump illustrating my invention in normal position; Fig. 2, a transverse view through the center of the base and parts connected therewith. Fig. 3, is a perspective of the holding block in the base. Fig. 4, is a sectional view of the handle support. Fig. 5, is a sectional view of the holding block.

Similar letters of reference indicate corresponding parts in all of the drawings.

A, represents the base in which is provided an annular aperture, *a* to receive the pump stock B. At one side of the base is provided an outwardly projected portion *b*, and an inside recess *c*, the inside face *d* inclined vertically. A holding block as C, having an inclined back portion *f* adapted to the inclined face *d* of the recess *c* in the base. In the back portion of the block C is provided a recess *h* to receive the tightening bolt *j*, the front or face portion of the block is circular in form, adapted to embrace the side of the pump stock B.

In operation, the base A, is placed on the usual platform over the well, the pump stock B, is passed through the aperture *a* the desired distance, the nut *k* is then turned on the bolt *j*, to raise the block C against the inclined face *d*, of the recess *c*, and the front circular side of the block against the pump stock, thus forming a vise like grip on the stock between the side *l* of the aperture *a*, and the circular portion of the block C. Heretofore the upper portion of the stock B has been threaded and turned into the top portion of the base, and the upper end of the lower portion threaded and turned into the bottom portion of the base or secured in vertical adjustment by a set screw passed through the neck of the base A, and turned against the side of the stock, frequently destroying the stock. The upper end of the stock B is threaded to turn into a similar thread in the lower end portion of the pump head D, completing the pump as shown in Fig. 1. By the simple device heretofore described the height of the spout E, or of the handle F may be determined and the parts secured in adjustment, or should the water become low, in the well, in a moment the stock may be lowered to reach the water and secured by the holding block, to accomplish this purpose it is only necessary to relax or tighten the block C against the stock by the use of the screw bolt *j*. The handle support G is provided with cylinder or ring portion *m*, an arm *n*, from which is laterally projected studs *o*, upon which the handle F is pivotally secured as shown in Fig. 1. On the inner face of the ring portion is provided a lug *p*, projected toward the center of the ring, and on the opposite side is provided a set screw *q* by which the cylinder or ring portion of the handle support is secured about the air chamber *r* between the annular ribs *s* and *t*. In the upper rib *t* is cut a small recess *w*, through which the lug *p* is passed, when placing the ring portion *m* of the handle support about the air chamber and between the ribs *s t*. At the end of the prongs H on the inner end of the pump handle is provided outwardly projected stud pins *v*, to which is connected arms J, the upper end portions of which are pivotally connected with the upper end portion of the valve rod K.

The pump handle may be turned with the support G, and arms about the upper portion of the pump and secured in desired position by the lug *p* and set screw *q*.

Having thus fully described the nature and

the object of my invention, what I claim, and desire to secure by Letters Patent, is—

1. The combination with the pump stock B, of a base A, cast in one piece and having at one of its sides a recess *c*, the inner face inclined upwardly toward the stock, a block C, the back portion of which is adapted to the inner face of the recess *c*, the face of said block adapted to the contour of the stock, and a screw whereby the block may be raised to grasp and impinge the stock between the block and the opposite side of the perforation *a*, in the base, substantially as described and for the purpose set forth.

2. The combination with the pump stock B, of the base A, having at one of its sides a recess *c*, having an inclined inner face *d*, a holding block C, having an inclined face *f*, adapted to the face *d* of the recess *c*, a recess *h* in the back to receive the bolt *j*, and circular face portion to engage the stock and a screw bolt *j* to raise the block in the recess to secure the stock in desired vertical adjustment, substantially as described and for the purpose set forth.

In testimony whereof I have hereunto set my hand this 28th day of August, A. D. 1893.

JACOB F. HESS.

Witnesses:
W. K. MILLER,
BURT A. MILLER.