S. J. ADAMS.

PUMP-HANDLE AND SUCKER-ROD JOINTS.

No. 188,764. Patented March 27, 1877.

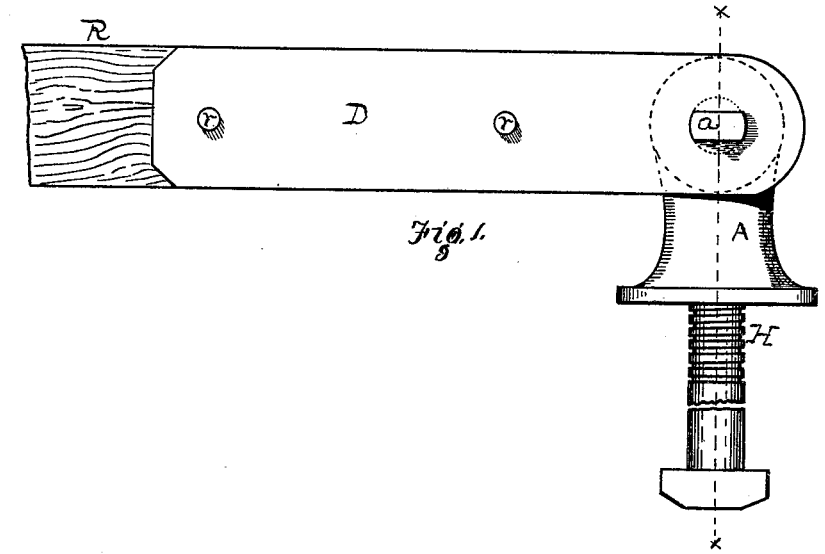

Fig. 1.

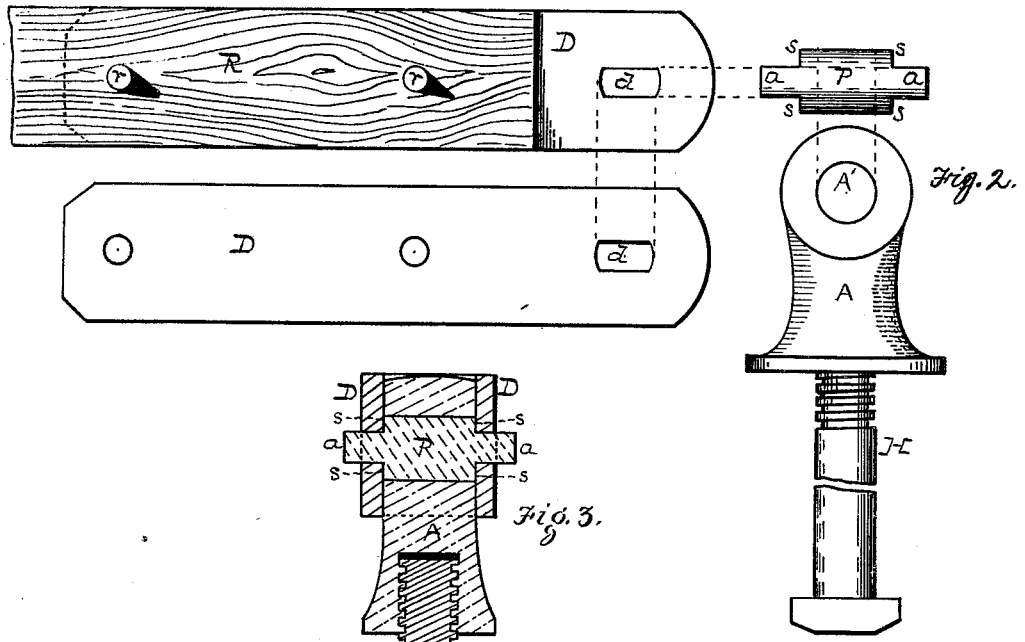

Fig. 2.

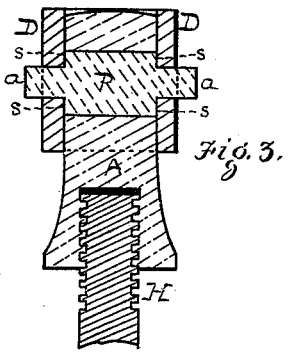

Fig. 3.

Witnesses.
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S. JARVIS ADAMS, OF PITTSBURG, PENNSYLVANIA.

IMPROVEMENT IN PUMP-HANDLES AND SUCKER-ROD JOINTS.

Specification forming part of Letters Patent No. **188,764**, dated March 27, 1877; application filed February 5, 1877.

To all whom it may concern:

Be it known that I, S. JARVIS ADAMS, of Pittsburg, county of Allegheny, State of Pennsylvania, have invented or discovered a new and useful Improvement in Pump-Handle and Sucker-Rod Joint; and I do hereby declare the following to be a full, clear, concise, and exact description thereof, reference being had to the accompanying drawing, making a part of this specification, in which—like letters indicating like parts—

Figure 1 is a side view of my improvement. Fig. 2 shows the separate parts thereof in detached views; and Fig. 3 shows a sectional view through *x x* of Fig. 1.

My improvement relates to an improved joint for the pump-handle and sucker-rod of the common pump.

The upper end of the sucker-rod is represented at R, and the handle connection at H. The latter terminates in a head, A, made with a cylindrical eye, A′, through which passes, and in which plays, the pintle P. The cylindrical part of the pintle is of the same length as the eye A′; but the ends *a* of the pintle, instead of being cylindrical, as heretofore, I make non-cylindrical, so that, fitting into correspondingly-shaped bearing-holes *d* in the straps D, they will be prevented from turning in such bearing-holes. The straps D are made thin, preferably of wrought metal, and constitute the connection between the journal ends *a* and the sucker-rod R, being fastened to the latter by bolts or rivets *r*. At the base of each journal *a* is a shoulder, *s*, which acts as a stop to prevent the straps from binding on the sides of the head A, after they are riveted to the rod R; and the straps are preferably made of wrought metal, in order that, if the rod R happens to be a little thinner than the head A is broad, they may, when the rivets *r* are headed down, spring a little, so as to avoid the breakage which would be liable to result, if, as heretofore, such straps were made of cast-iron.

The particular shape of the journals *a* is not material, provided they be so irregular as thereby to be held or prevented from rotating in their holes *d*—the difficulty which is overcome by this feature of construction being this, that if such journals rotated in their bearings, the bearings, being thin or having a narrow face, would cut them or wear them away, so as to cause lost motion, and, finally, cut them off. By causing the pintle to rotate only in the eye A′, I overcome this difficulty.

I claim herein as my invention—

1. The pintle P, having a cylindrical body, irregularly-shaped journal ends *a*, and shoulders *s*, in combination with perforated head A and straps D, substantially as set forth.

2. The sheet-metal straps D, in combination with sucker-rod R, head A, and pintle P, having non-rotating journals *a*, substantially as set forth.

In testimony whereof I have hereunto set my hand.

S. JARVIS ADAMS.

Witnesses:

J. J. MCCORMICK,

GEORGE H. CHRISTY.