(No Model.)

2 Sheets—Sheet 1.

J. MAYHER.

STEAM PUMP.

No. 362,762. Patented May 10, 1887.

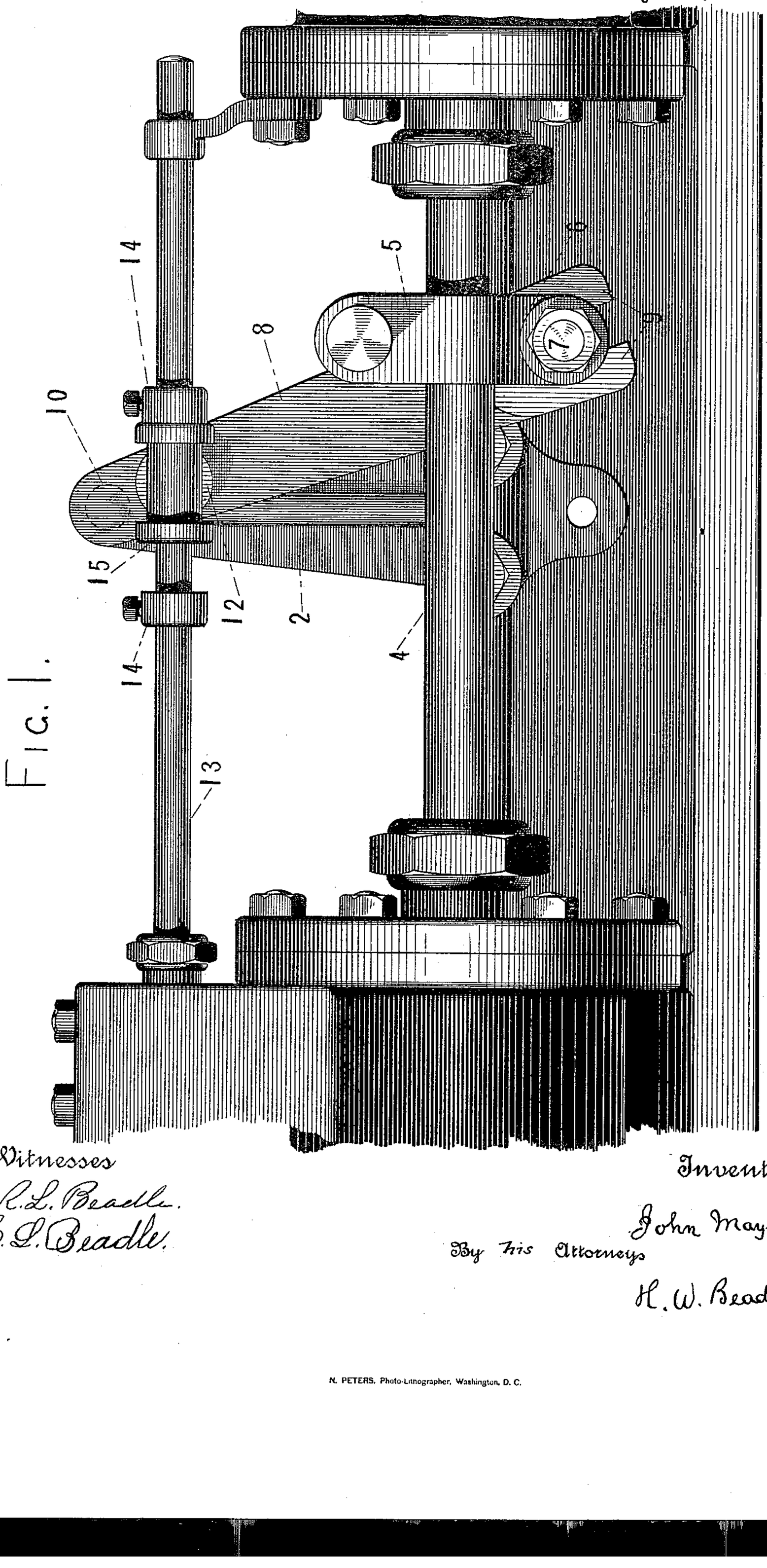

FIG. 1.

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(No Model.) 2 Sheets—Sheet 2.

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STEAM PUMP.

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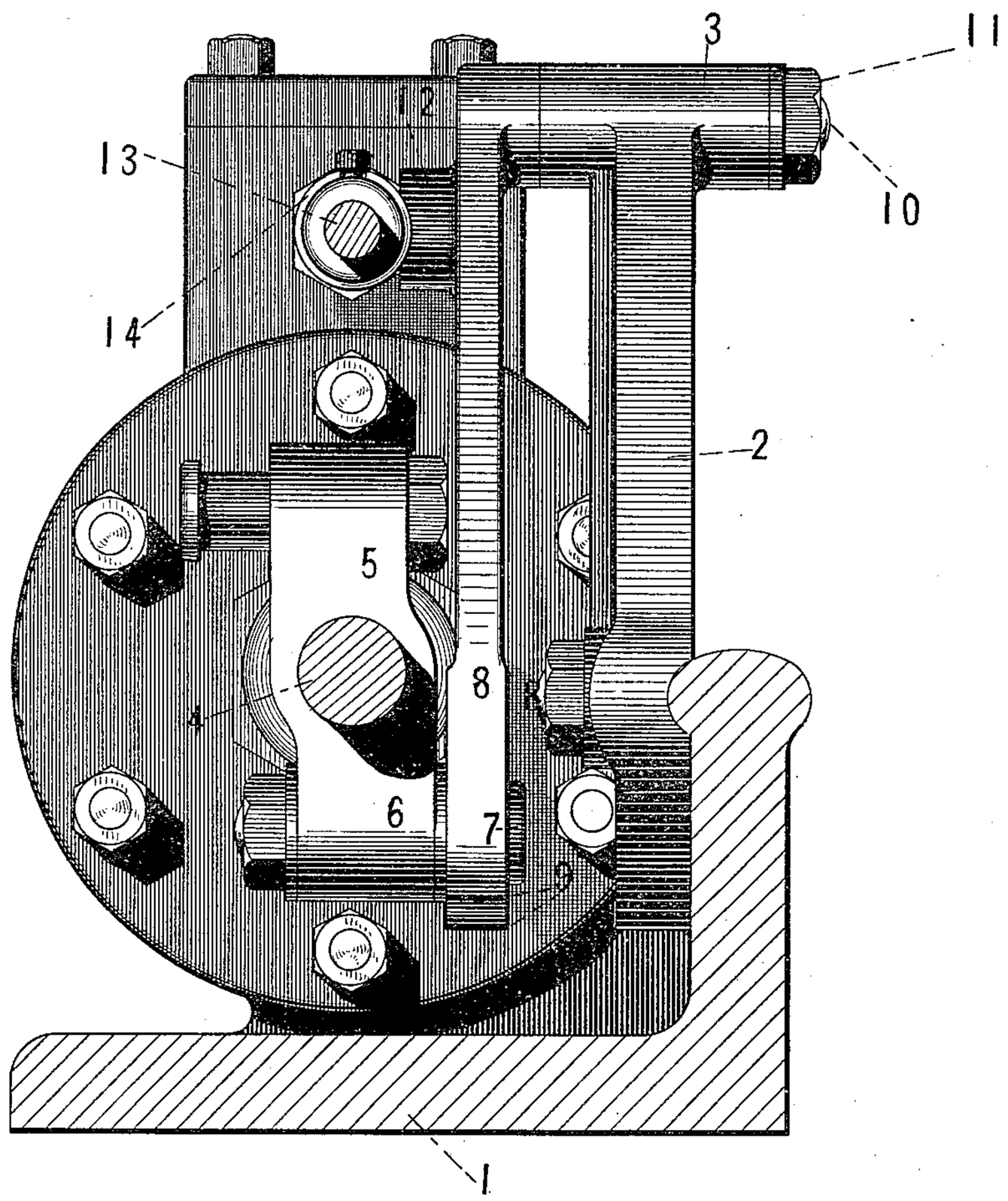
FIG. 2.



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UNITED STATES PATENT OFFICE.

JOHN MAYHER, OF EAST HAMPTON, MASSACHUSETTS.

STEAM-PUMP.

SPECIFICATION forming part of Letters Patent No. 362,762, dated May 10, 1887.

Application filed January 6, 1887. Serial No. 223,514. (No model.)

To all whom it may concern:

Be it known that I, JOHN MAYHER, of East Hampton, county of Hampshire, and State of Massachusetts, have invented new and useful Improvements in Steam-Pumps; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

This invention consists in a certain specific construction of parts for moving in a simple manner the auxiliary valve of a steam-pump, as will be fully described hereinafter.

In the drawings, Figure 1 represents a side view of a pump having my invention applied thereto, and Fig. 2 an end view of the same.

To enable others skilled in the art to make my invention, I will proceed to describe fully the construction of the same.

1 represents a base-piece of any proper construction.

2 represents a fixed standard rising from the base-piece at the center of the same, which standard is rigidly bolted or otherwise secured to the base-piece at the lower end, and is provided with a journal-bearing, 3, as shown in Fig. 2.

4 represents the piston-rod of the pump, and 5 a block centrally secured thereon at the proper point, the lower arm, 6, of which is provided with a proper opening, in which is held the shaft 7, as shown.

8 represents an actuating-arm, having below a forked portion, 9, adapted to receive the shaft 7 of the block 5, and above a pivot-shaft, 10, which is held in the journal-bearing 3.

11, Fig. 2, represents a nut by means of which the pivot-shaft is properly secured in place.

12 represents a stud projecting from the face of the actuating-arm next the valve-rod, as shown.

13 represents the rod of the auxiliary valve, supported at its outer end in any proper manner.

14 14 represent adjustable tappet-collars located on the valve-rod at the proper point, and 15 a spool of ordinary form loosely held on the valve-rod between the tappet-collars, as shown.

When the parts are in their proper relative positions, the stud 12 upon the actuating-arm 8 extends between the shoulders of the spool, as shown.

The operation is as follows: By the movement of the piston-rod carrying the block 5, the actuating-arm 8 is swung upon its pivot-shaft 10 from one end of the stroke to the other, and its stud is consequently caused to move the spool 15 into contact with the proper tappet-collar. By this means the valve-rod is actuated in the manner well understood.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The combination of the lever 8, having the stud projection 12 formed thereon in line with the center of the valve-stem 13, this valve-stem having the tappet-collars 14 14, and the loose spool 15, adapted to revolve freely on the valve-stem, as described.

This specification signed and witnessed this 22d day of December, 1886.

JNO. MAYHER.

Witnesses:
M. B. SLATTERY,
STEPHEN HALEY.