

(No Model.)

2 Sheets—Sheet 1.

J. MAYHER.

MECHANISM FOR ACTUATING VALVES FOR STEAM PUMPS.

No. 358,286.

Patented Feb. 22, 1887.

Fig. 2

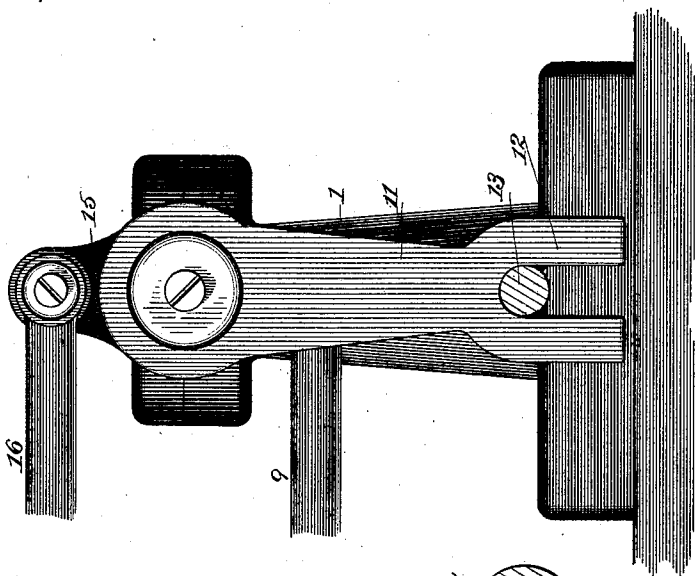
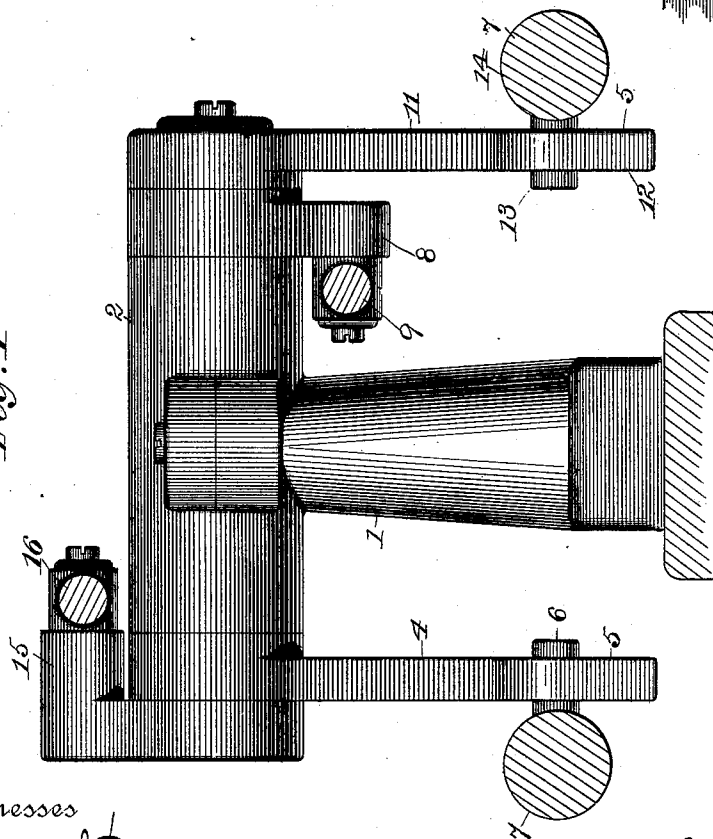


Fig. 1



Witnesses

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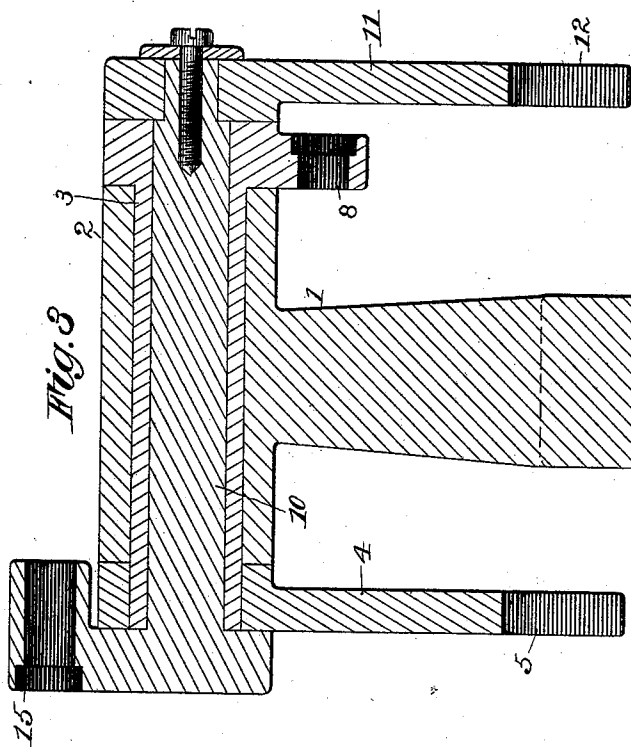
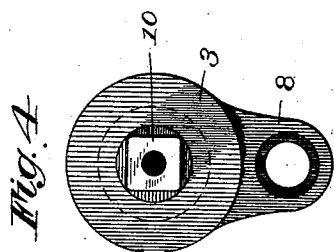
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MECHANISM FOR ACTUATING VALVES FOR STEAM PUMPS.

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Witnesses

Frank H. Purpont
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Inventor

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By *his* Attorneys

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UNITED STATES PATENT OFFICE.

JOHN MAYHER, OF EAST HAMPTON, MASSACHUSETTS.

MECHANISM FOR ACTUATING VALVES FOR STEAM-PUMPS.

SPECIFICATION forming part of Letters Patent No. 358,286, dated February 22, 1887.

Application filed November 5, 1886. Serial No. 218,070. (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
5 Improvements in Mechanisms for Actuating Valves for 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 let-
10 ters of reference marked thereon.

This invention has for its object the simplifying of the construction of certain actuating mechanisms employed in moving the valves of duplex pumps; and it consists in certain specific
15 features of construction, hereinafter fully described, by means of which the desired result is obtained.

In the drawings, Figure 1 represents a front view of the improved mechanism; Fig. 2, an
20 end view of the same; Fig. 3, a central longitudinal sectional view, and Fig. 4 an end view of the central shaft and the surrounding parts.

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

1 represents a vertical standard supporting a fixed cylinder, 2, as shown.

3, Fig. 3, represents a sleeve within the cyl-
30 inder, which sleeve is attached at one end to the long arm 4, having a fork, 5, adapted to take the tappet-pin 6, Fig. 1, on the piston-rod 7 of one of the cylinders, and at the other end to the short arm 8, Fig. 3, having a pin
35 properly secured to the valve-rod 9, Fig. 1, as shown.

10 represents a shaft of any proper construction extending through the sleeve, which

shaft is attached at one end to the long arm 11, having a fork, 12, adapted to take the tap- 40
pet-pin 13, Fig. 1, on the piston-rod 14 of the other cylinder, and at the other end to the short arm 15, having a pin properly secured to the valve-rod 16, as shown.

From this construction it follows that when 45
the long arm on either end is actuated by the piston-rod the valve-rod on the opposite side has a corresponding movement.

By means of this invention the construction is simplified, and actuating arms of equal 50
length may be employed.

I am aware of the existence of United States Patents numbered 16,515 and 200,890 and the German Patent No. 31,615; but material differ-
55 ences exist between the constructions therein shown and the one employed by me.

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

The combination of the following elements: 60
the central supporting-cylinder, 2, the sleeve 3, having at one end the long arm 4, adapted for actuation by the tappet-pin 6 on the piston-rod 7, and at the other end the short arm 8, connected with the valve-rod 9, and a shaft, 10, 65
having at one end a long arm, 11, adapted for actuation by the tappet-pin 13 on the piston-rod 14, and at the other end a short arm, 15, connected with the valve-rod 16, as and for the purpose described. 70

This specification signed and witnessed this
3d day of November, 1886.

JNO. MAYHER.

Witnesses:

M. B. SLATTERY,
W. H. KIMBALL.