

J. MAYHER.

Improvement in Steam-Pumps.

No. 131,960.

Patented Oct. 8, 1872.

Fig. 1.

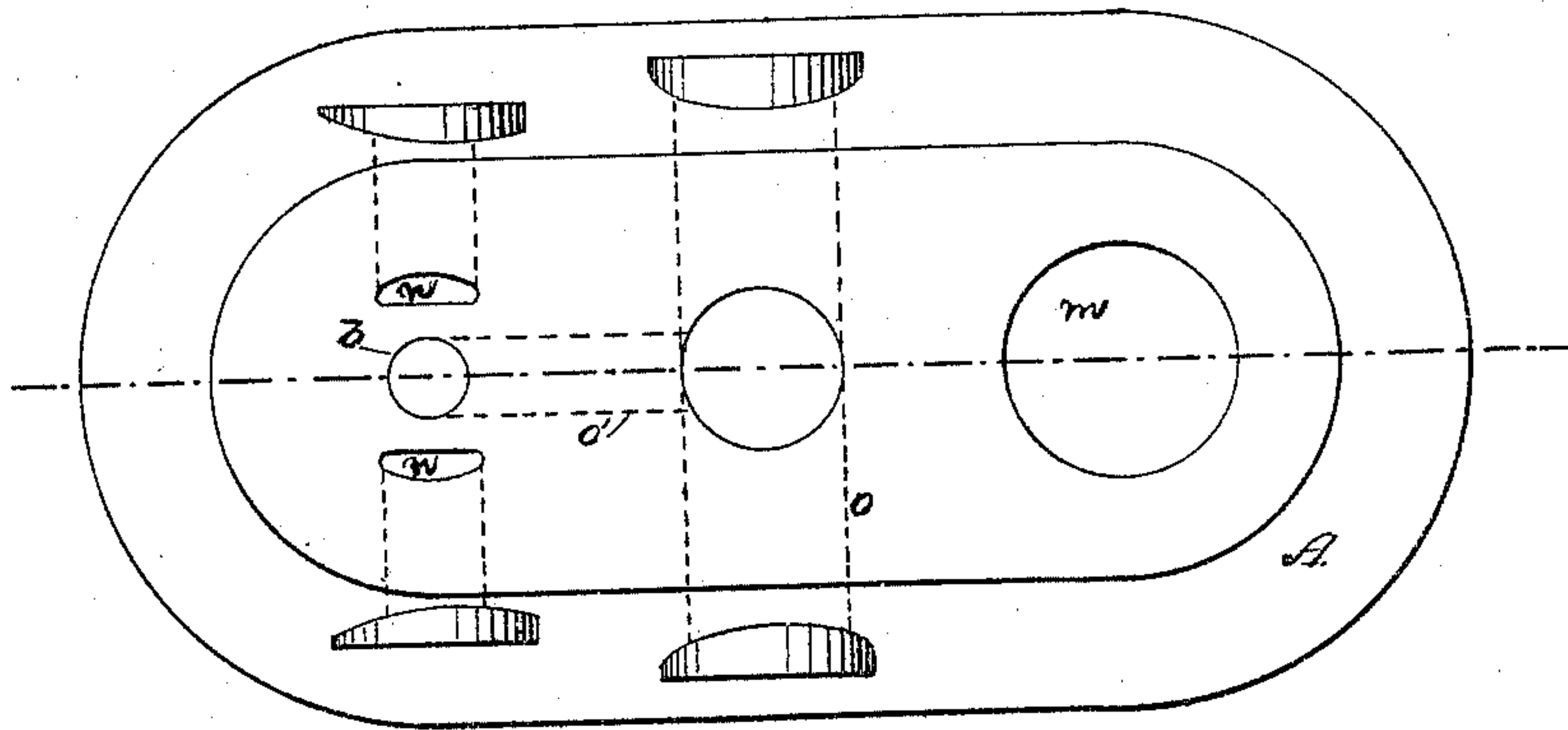


Fig. 2.

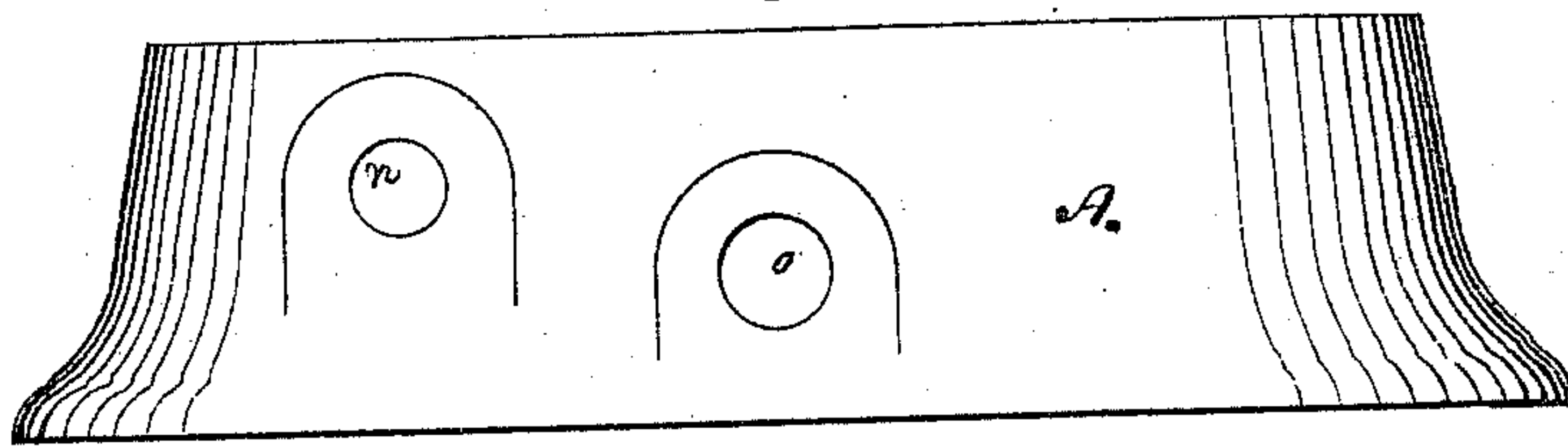
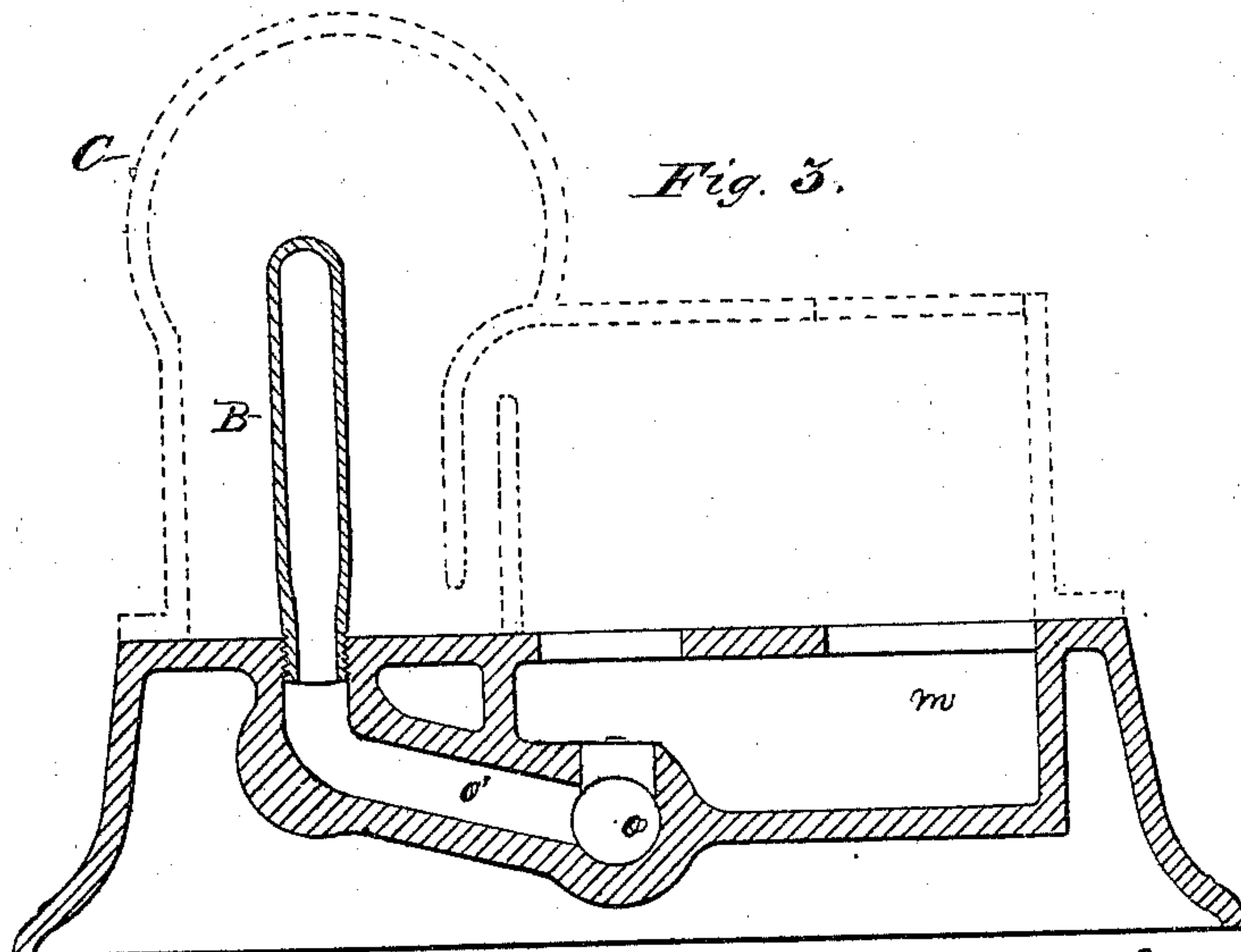


Fig. 3.



Witnesses:

S. J. Hayes.

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Inventor:

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# UNITED STATES PATENT OFFICE.

JOHN MAYHER, OF EAST HAMPTON, MASSACHUSETTS.

## IMPROVEMENT IN STEAM-PUMPS.

Specification forming part of Letters Patent No. 131,960, dated October 8, 1872.

*To all whom it may concern:*

Be it known that I, JOHN MAYHER, of East Hampton, in the county of Hampshire and State of Massachusetts, have invented a new and useful Improvement 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 drawing and to the letters of reference marked thereon.

This invention relates to the improved steam-pump patented by me May 14, 1872; and consists in the combination of a base of peculiar construction with a removable vacuum-chamber located within the air-chamber attached to the base, as will be fully described hereinafter.

In the drawing, Figure 1 represents a plan view of the base of the pump; Fig. 2, a side elevation; and Fig. 3, a central sectional elevation.

To enable others skilled in the art to make and use my invention, I will now proceed to describe fully its construction and manner of operation.

A represents the base of the pump, provided with the passage *o* leading to the supplying-pipes and passage *o'* connecting the passage *o* with the removable vacuum-chamber *b*. The base is further provided with a water-chamber, *m*, and with discharge-passages *n n* located on each side of the vacuum-chamber, and connecting with the air-chamber C, as shown. B represents the vacuum-chamber,

constructed preferably of a piece of pipe having an inclosed top, which pipe is secured to the central opening *b* of the base by suitable screw-threads, as shown. This chamber, it will be observed, is inclosed within the air-chamber C, shown in dotted lines in Fig. 3, which chamber is cast with the main portion of the pump.

By this arrangement the vacuum-chamber is removed from the outside of the pump where it has heretofore been inconveniently located, and is located in the air-chamber out of the way, and where it is protected from injury. By making the vacuum-chamber removable I can use different sizes according to the varying circumstances under which the pumps are used, and in certain cases the vacuum-chamber, if desired, can be entirely dispensed with.

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

The combination of the base A, constructed as described, with its passages *o o' n n* with the vacuum-chamber B and air-chamber C, as described and shown.

This specification signed and witnessed this 5th day of August, 1872.

JNO. MAYHER.

Witnesses:

J. H. JUDD,

WM. N. SHANDREN.