

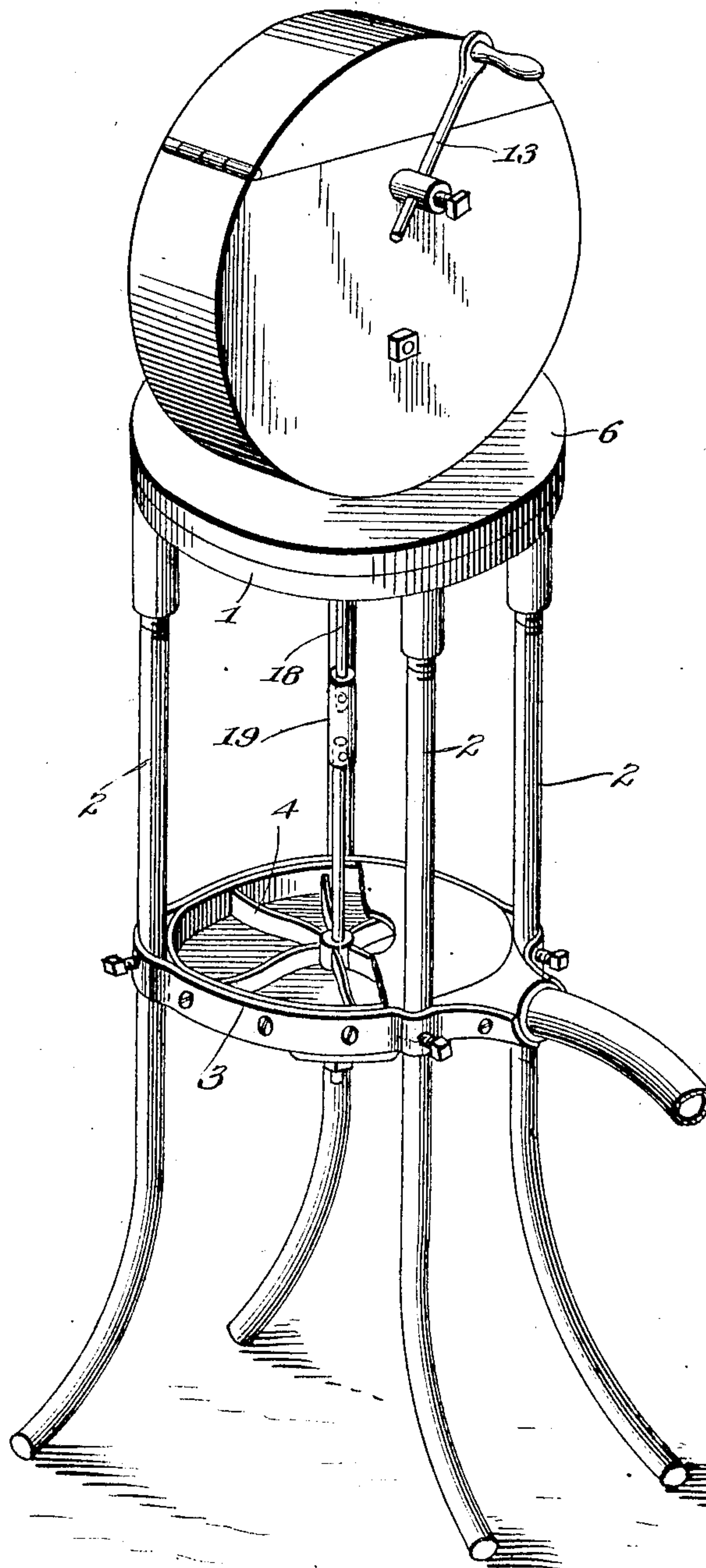
No. 887,424.

PATENTED MAY 12, 1908.

E. REMINGTON.
BLACKSMITH'S BLOWER.
APPLICATION FILED APR. 30, 1907.

2 SHEETS—SHEET 1.

Fig. 1.



Inventor

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Witnesses

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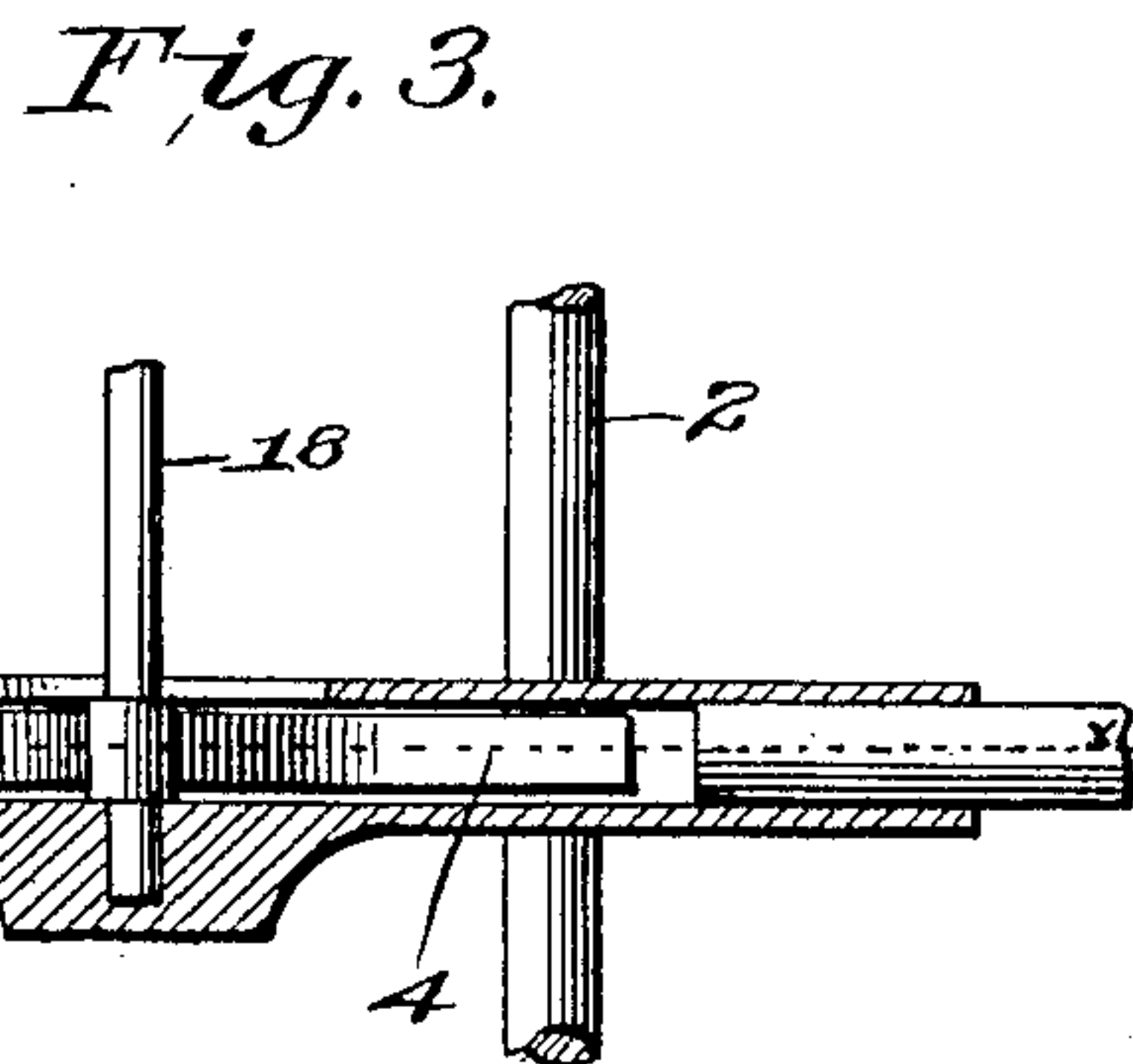
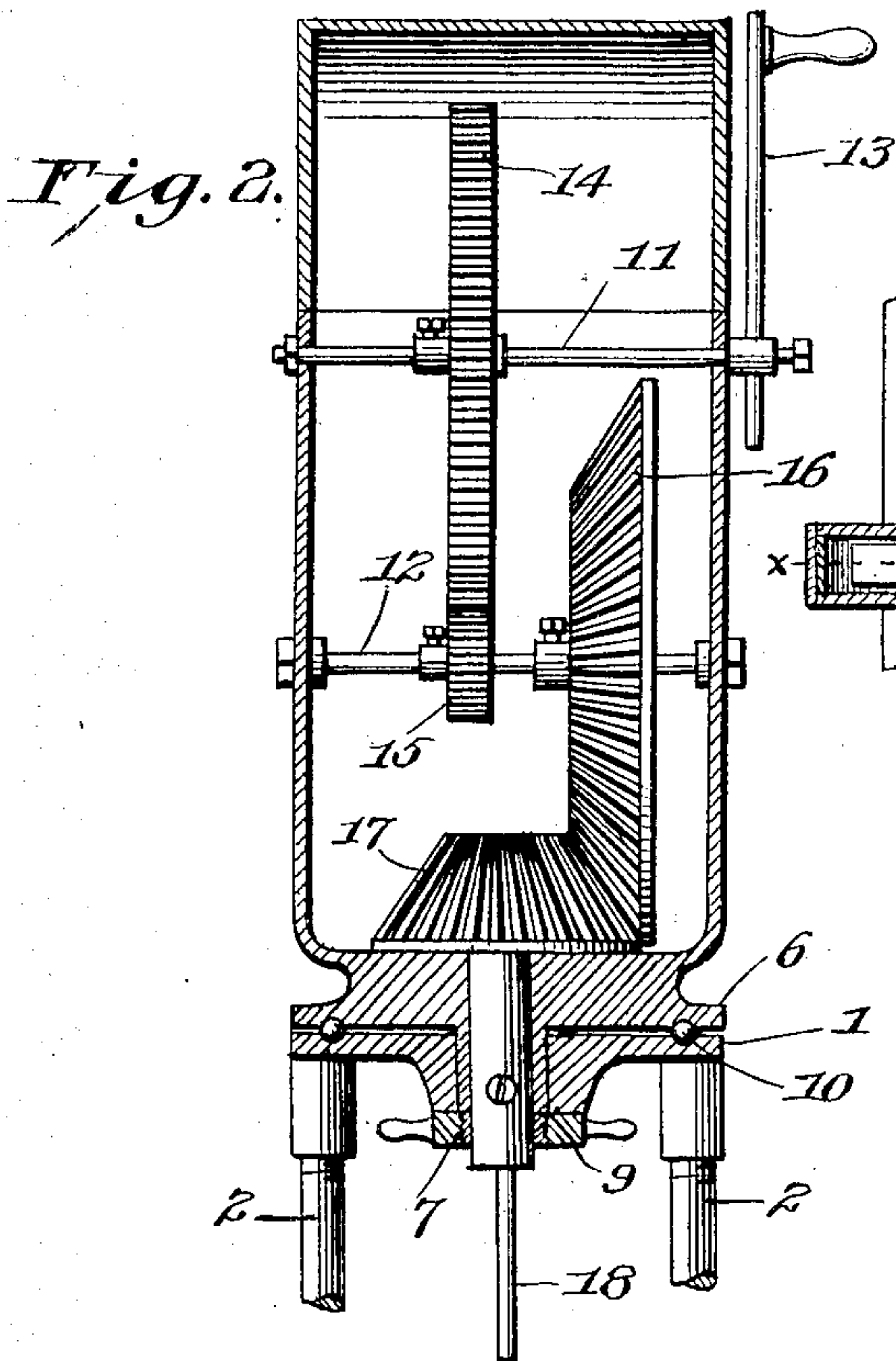


Fig. 5.

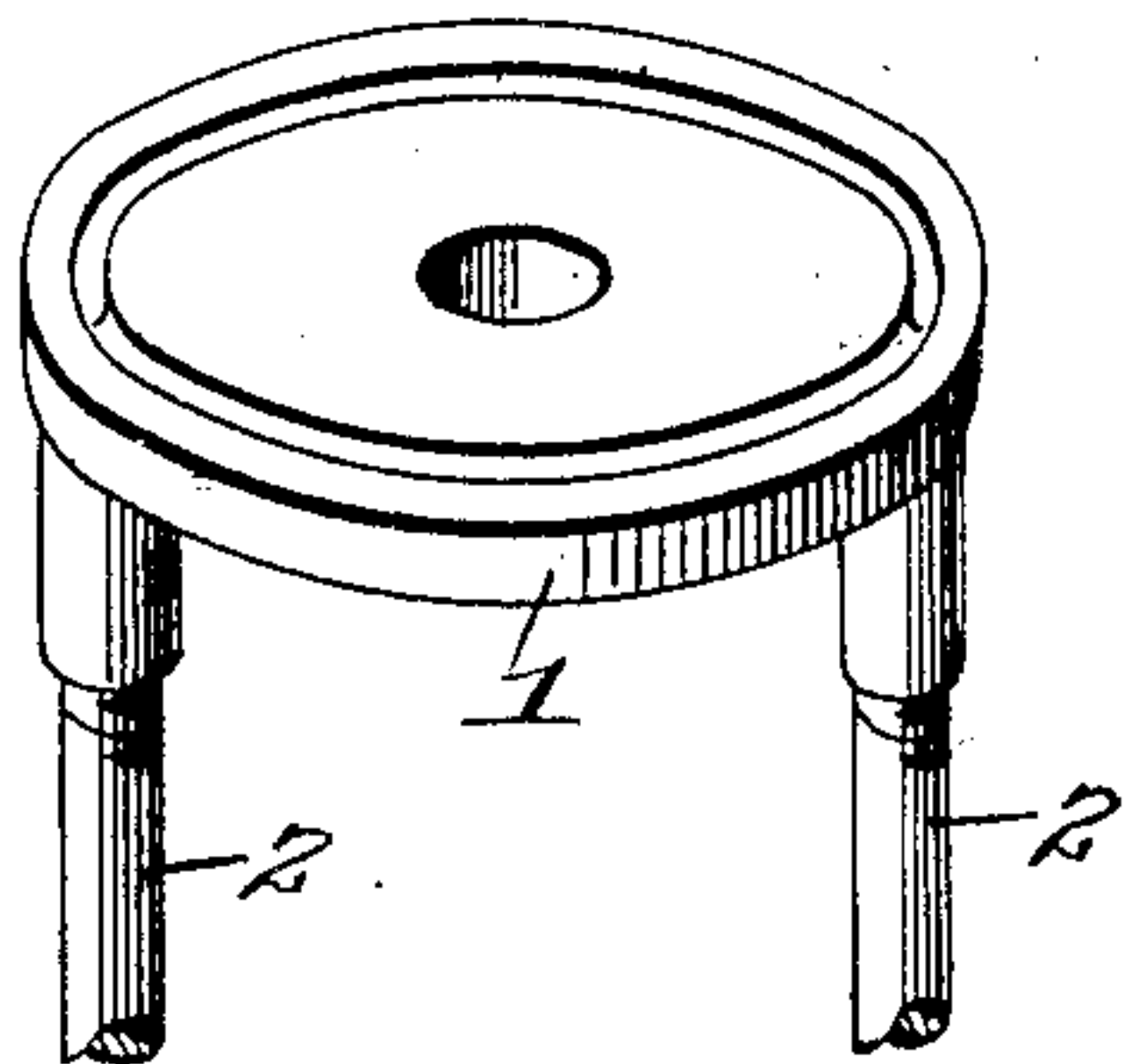
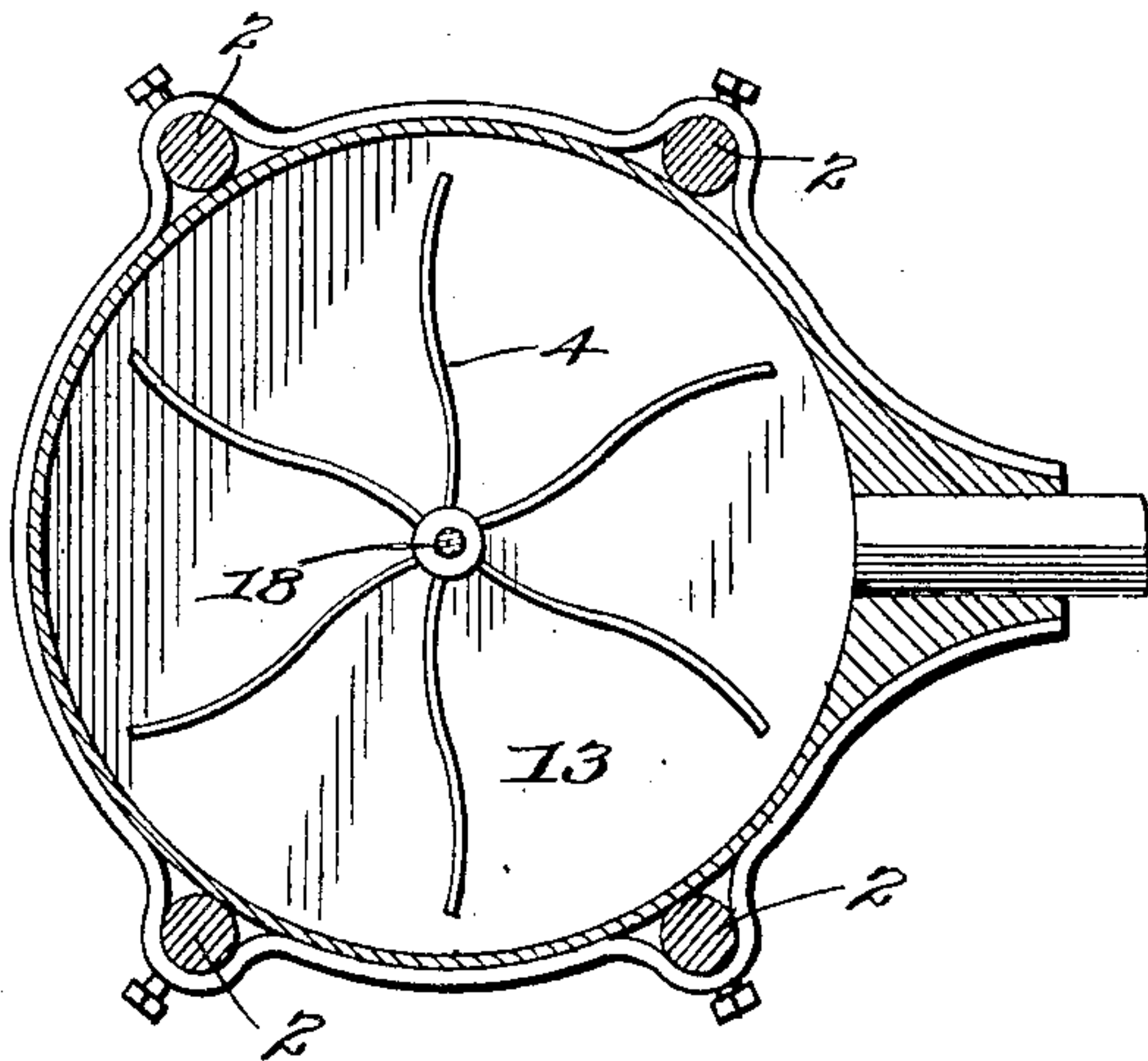


Fig. 4.



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UNITED STATES PATENT OFFICE.

ELMER REMINGTON, OF LEBANON, KANSAS.

BLACKSMITH'S BLOWER.

No. 887,424.

Specification of Letters Patent.

Patented May 12, 1908.

Application filed April 30, 1907. Serial No. 371,088.

To all whom it may concern:

Be it known that I, ELMER REMINGTON, a citizen of the United States, residing at Lebanon, in the county of Smith and State of Kansas, have invented certain new and useful Improvements in Blacksmiths' Blowers, of which the following is a specification.

This invention provides a blower which may be readily adjusted either to be operated from the right or the left, or at any angular position to suit the convenience of the operator and existing conditions.

The desirability of an adjustable blower has long been felt and the present invention provides a novel mechanism to meet this want.

For a full description of the invention and the merits thereof and also to acquire a knowledge of the details of construction and the means for effecting the result, reference is to be had to the following description and accompanying drawings.

While the invention may be adapted to different forms and conditions by changes in the structure and minor details without departing from the spirit or essential features thereof, still the preferred embodiment is shown in the accompanying drawings, in which:

Figure 1 is a perspective view of a blower embodying the invention. Fig. 2 is a vertical section of the blower, the lower portion of the stand being broken away. Fig. 3 is a vertical section of the fan case showing the position of the fan and legs of the stand. Fig. 4 is a horizontal section on the line $x-x$ of Fig. 3. Fig. 5 is a detail perspective view of the cap, showing the manner of connecting the legs thereto.

The blower comprises a stand, a fan and actuating mechanism, the latter being applied to a head which is rotatable upon the stand to any angular position. The stand comprises a cap 1 and legs 2, the latter being secured at their upper ends to the cap preferably by means of a screw thread connection, the upper ends of the legs being threaded to screw into correspondingly threaded sockets formed upon the under side of the cap 1. The cap 1 forms a table upon which the head provided with the actuating mechanism is rotatively mounted. The legs 2 are connected at a point between their upper and lower ends preferably by means of a casing 3 in which the fan 4 is arranged, said

casing having a nozzle 5 to which a pipe, not shown, is adapted to be coupled for conveying a blast of air to the required point of use. The fan case 3 is secured to the legs 2 in any substantial way and forms a brace therefor. The head comprises a plate 6, hollow stem 7 and a casing 8, the hollow stem 7 passing through an opening in the center of the cap 1 and having its lower end threaded to receive a set nut 9. The opposing faces of the cap 1 and plate 6 are grooved and unitedly form a race in which balls or anti-friction devices 10 are arranged so as to reduce the friction between the head and stand to the smallest amount possible.

The actuating mechanism comprises parallel shafts 11 and 12, the former being provided with a crank 13. A gear wheel 14 fast to the shaft 11 is in mesh with a pinion 15 fast to the shaft 12. A gear wheel 16 fast to the shaft 12 is in mesh with a pinion 17 fast to the upper end of the fan shaft 18 which passes through the hollow stem 7 and transmits motion from the actuating mechanism to the fan 4. The gearing 16 and 17 is of the bevel type. The bevel pinion 17 has a tubular portion mounted in the hollow stem 7. The fan shaft is preferably composed of sections which are adapted to be joined by means of a coupling 19.

From the foregoing it will be understood that the head may be turned to any angular position so as to be provided either by means of a right-handed or left-handed person, or may be adjusted to any angular position to suit the nature of the work and the exigencies of the case, whereby the helper may not be in the way of the workmen while in a position to operate the blower for supplying a blast of air to the forge or other point of use.

Having thus described the invention, what is claimed as new is:

1. In a fan blower for smith's use, the combination of a stand constituting legs, and a cap connecting the upper ends of the legs, a fan casing adjustable on and connecting said legs, a head mounted upon said cap to turn about a vertical axis, actuating gearing mounted upon said head and an adjustable shaft transmitting motion from said actuating mechanism to the fan.

2. The herein described fan blower comprising legs, a cap connecting the legs at their upper ends, a fan casing having adjustable connection with the legs at a point between

their ends, a head having a pendent portion
 journaled in said cap, anti friction devices
 between the head and cap, a casing mounted
 upon the head, actuating gearing inclosed
 5 within said casing and comprising a gear ele-
 ment having a tubular extension mounted
 in the pendent portion of the head, and a
 shaft connecting the fan with said gear ele-

ment and composed of sections adapted to
 have adjustable connection.

In testimony whereof I affix my signature
 in presence of two witnesses.

ELMER REMINGTON. [L. s.]

Witnesses:

O. M. ISOM,
 J. E. HOUSEL.