

No. 652,478.

Patented June 26, 1900.

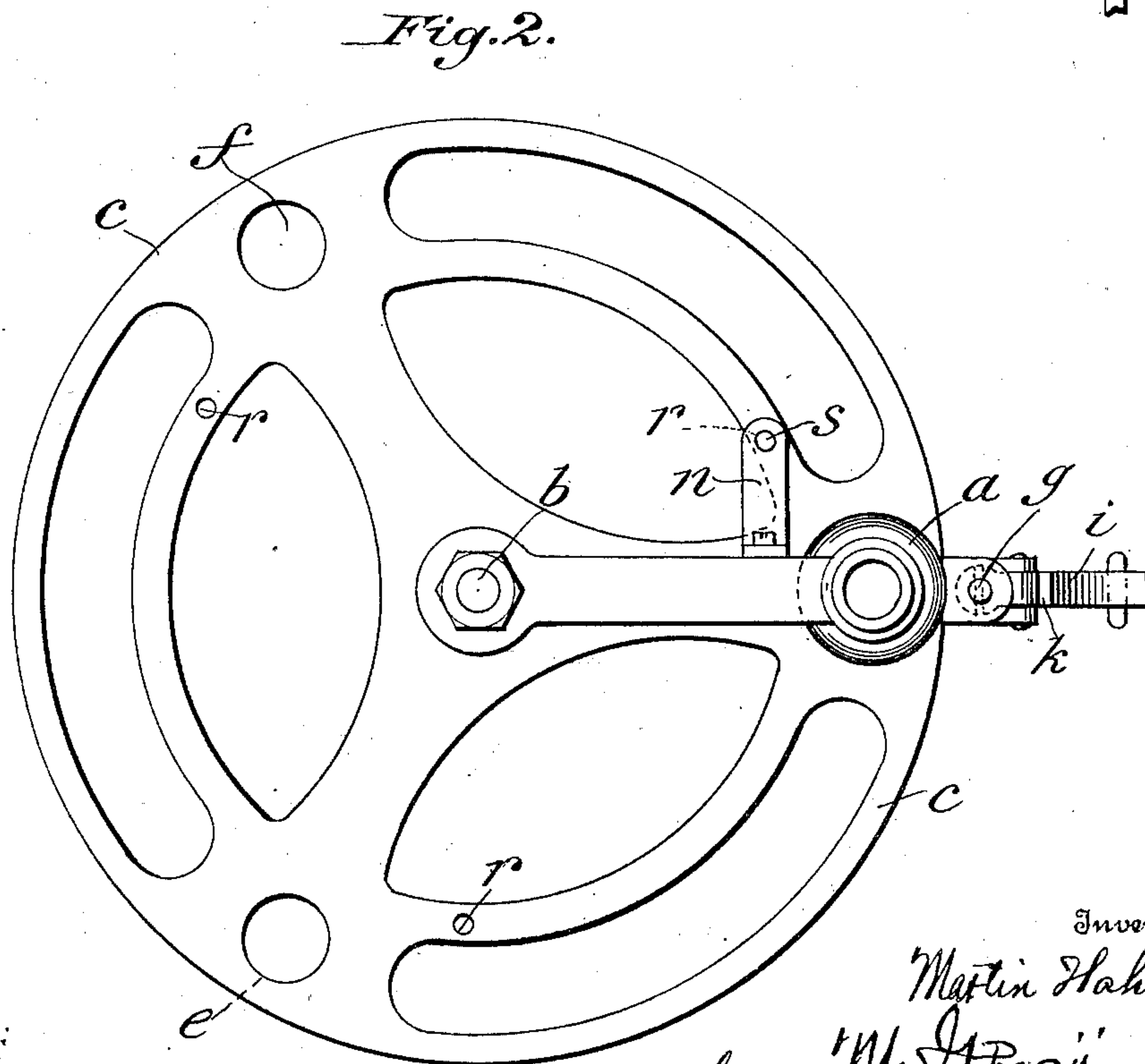
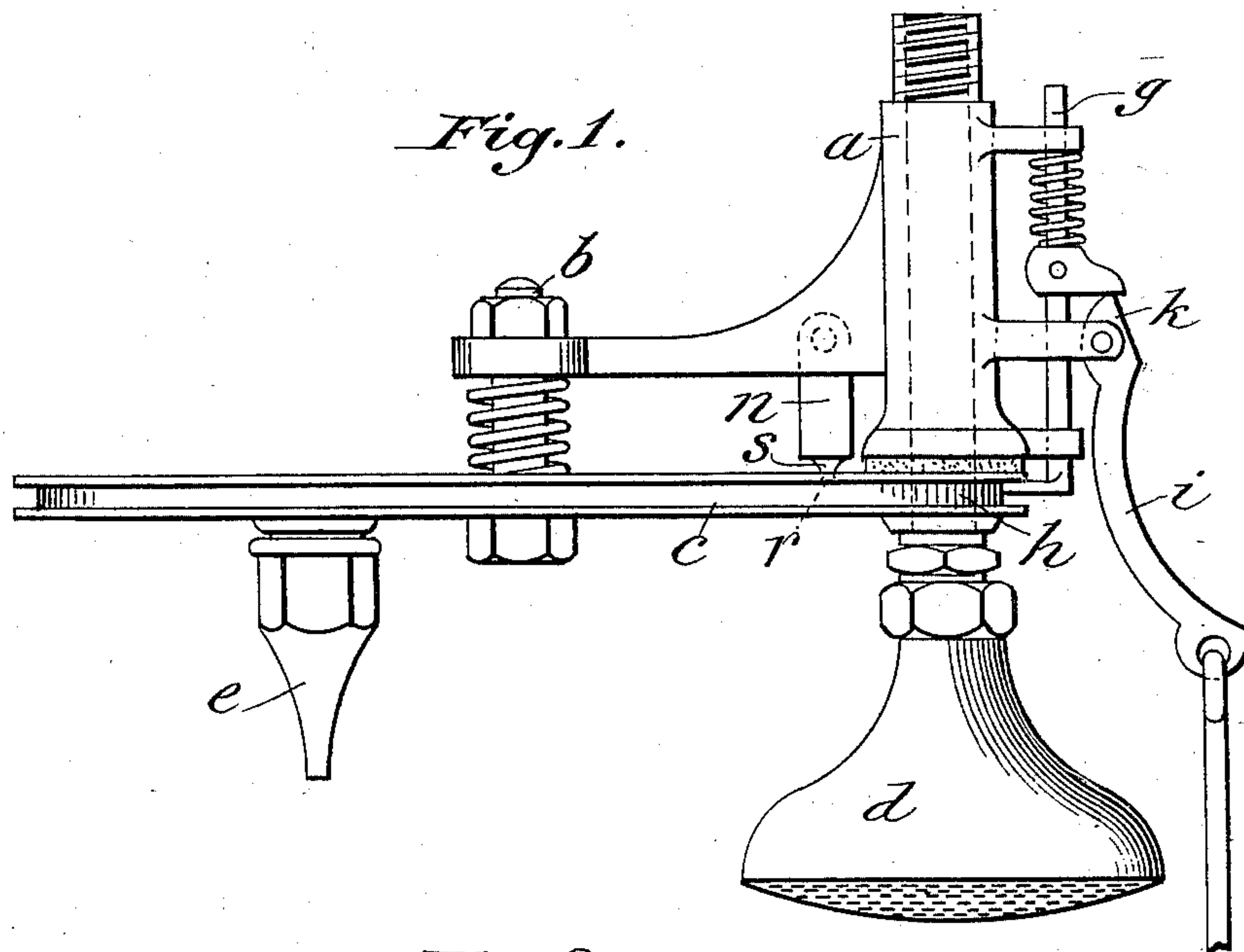
M. HAHN.

JET DEVICE FOR SHOWER BATHS.

(Application filed Mar. 17, 1900.)

(No Model.)

2 Sheets—Sheet 1.



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2 Sheets—Sheet 2.

Fig. 3.

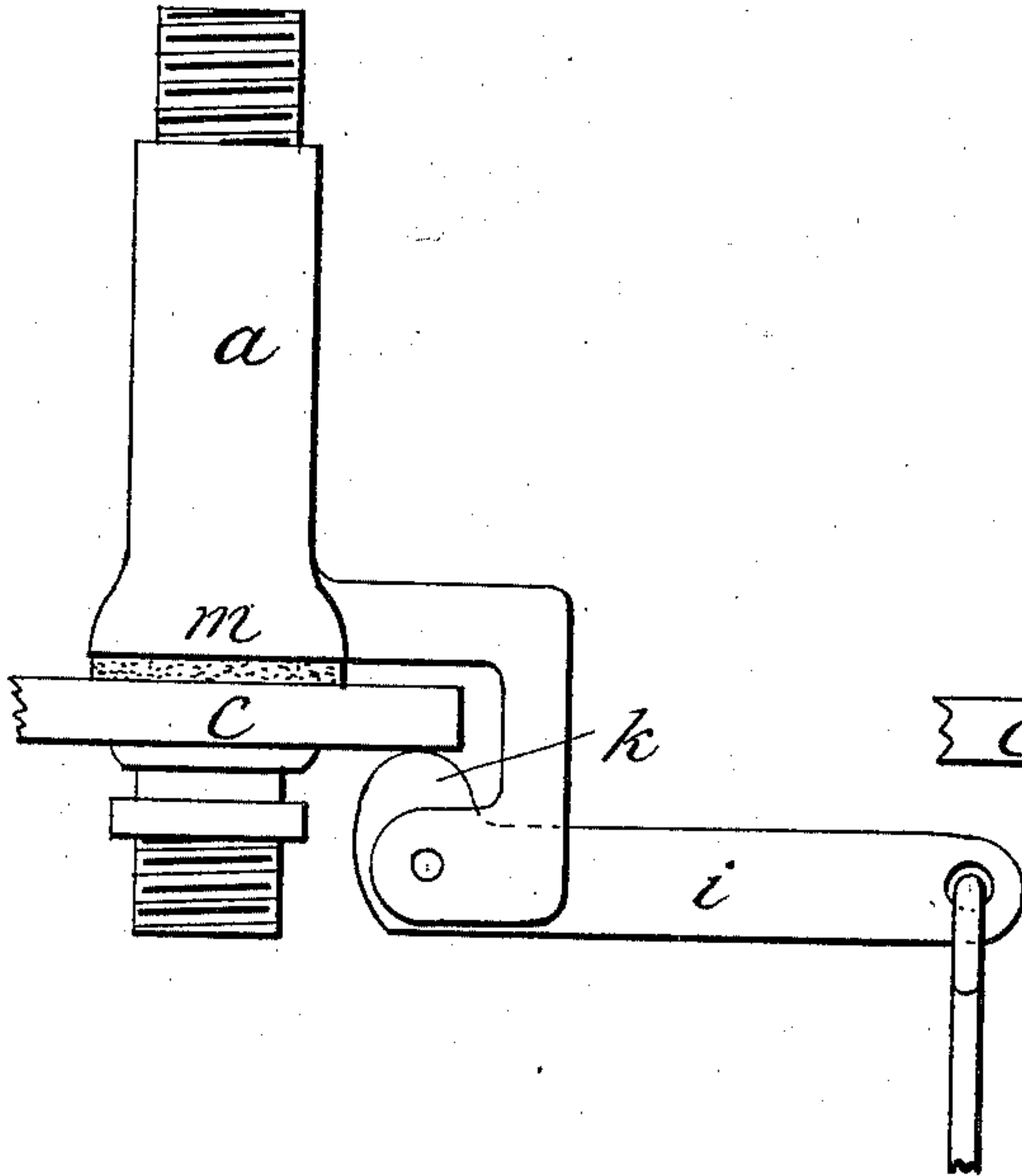


Fig. 4.

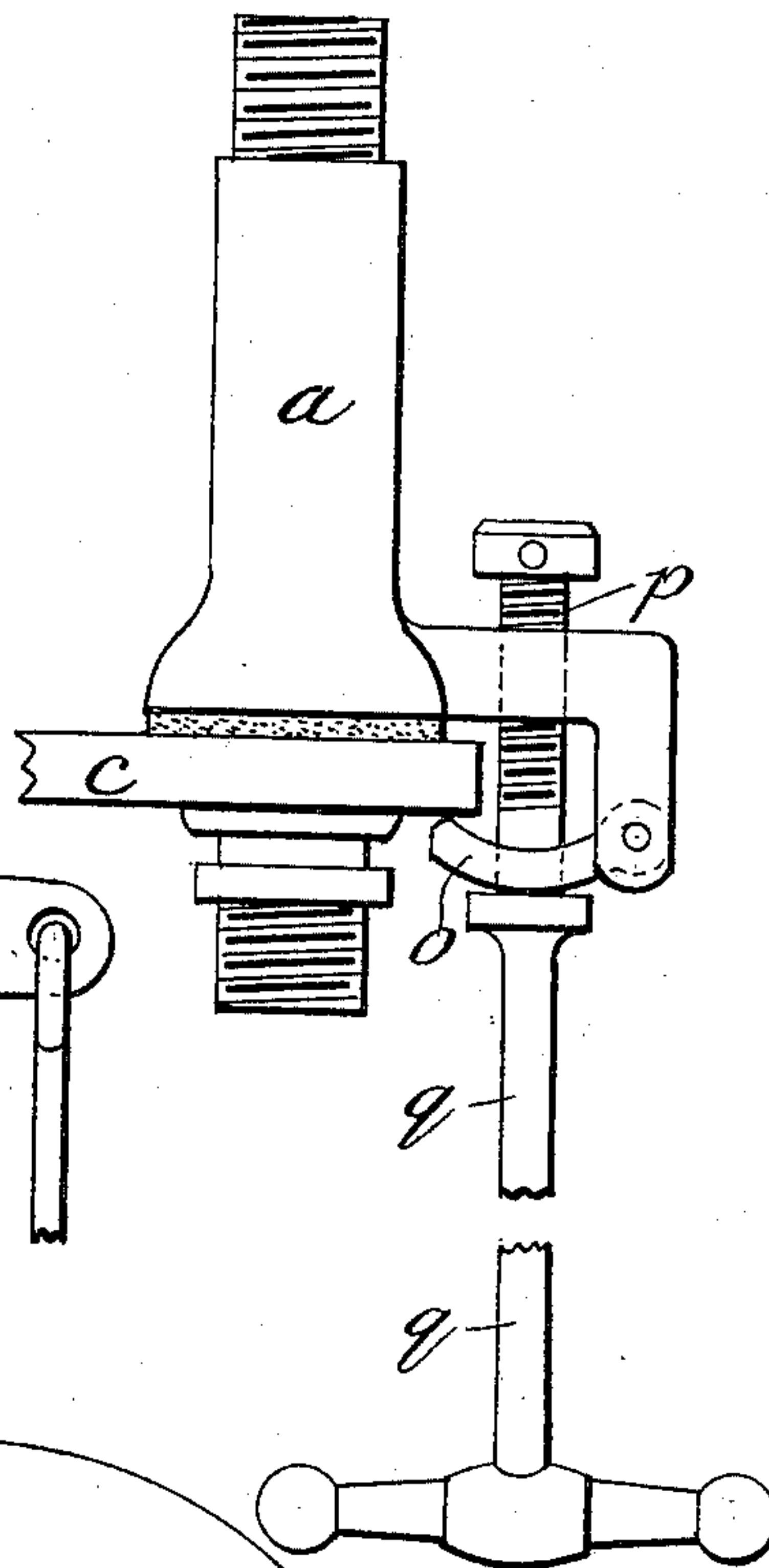
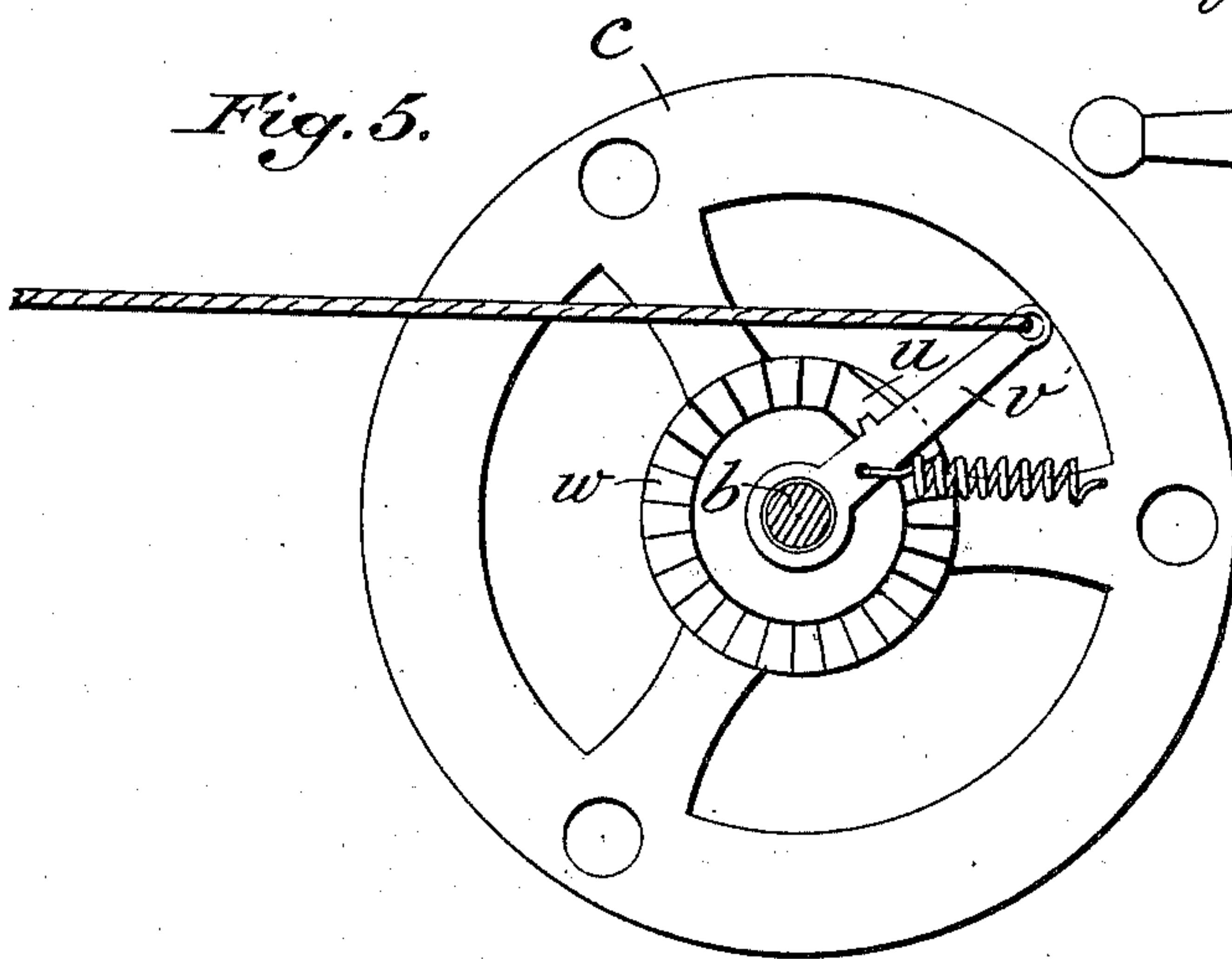


Fig. 5.



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UNITED STATES PATENT OFFICE.

MARTIN HAHN, OF MUNICH, GERMANY.

JET DEVICE FOR SHOWER-BATHS.

SPECIFICATION forming part of Letters Patent No. 652,478, dated June 26, 1900.

Application filed March 17, 1900. Serial No. 9,081. (No model.)

To all whom it may concern:

Be it known that I, MARTIN HAHN, a citizen of Germany, residing at Munich, Bavaria, Germany, have invented certain new and useful
5 Improvements in Jet Devices for Shower-Baths; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and
10 use the same.

This invention relates to shower-bath apparatus. Its object is to provide a device in which a number of different nozzles for furnishing a variety of sprays can be brought
15 successively to connect with a water-supply pipe, thus avoiding the use of a number of rubber tubes and the trouble of screwing and unscrewing the nozzles used.

Referring to the accompanying drawings,
20 Figure 1 shows in elevation the invention in my preferred form of construction. Fig. 2 is a plan view from the lower side, the nozzles being removed. Figs. 3 and 4 show modified forms of the means for securing the supply-
25 pipe and the disk together at the registering position. Fig. 5 shows in plan the means for actuating the disk.

This invention consists, essentially, of a water-supply pipe *a* and a disk *c*, having a number of nozzles *d* and *e*, &c., secured thereto, the
30 disk being removably connected with the supply-pipe *a*, so that the nozzles can be brought successively to register with the end of said pipe. My preferred construction is to have
35 an arm extending at right angles from the pipe *a* and a bolt *b* secured in the extremity of said arm, which bolt forms a pivotal support for the disk *c*. This disk is preferably shaped as shown in Fig. 2 and has a number
40 of apertures in which are secured nozzles *d*, *e*, &c., of various forms, such as a rose-nozzle, a divided nozzle, a straight nozzle, &c. These apertures are so disposed as to register with the extremity of the pipe *a*, that is preferably
45 made flaring and may have an elastic washer on its end to furnish a water-tight connection between the disk and pipe. In order to insure a tight and secure connection between the disk and the end of the pipe at each registering position, I preferably use a lever *i*,
50 pivoted to an arm attached to the pipe *a* and serving to bind the said members together

by one extremity when actuated by an operating-rod secured to its other extremity or by other means. This lever may be pivoted on
55 a bent arm secured to the pipe and bearing directly on the disk by its cam-shaped extremity *k*, as shown in Fig. 3. In the form shown in Fig. 1 the lever *i* is pivoted on an arm projecting from the pipe *a*. Another arm
60 projects from the pipe *a*, and each said arm has an aperture, which apertures are in alignment and serve to guide a sliding rod *g*. The disk in this mode of construction has a channel *h* in its periphery, into which projects the
65 bent extremity of the rod *g*. A lug is secured to the rod *g* between the said arms, against which bears the cam-shaped extremity *k* of the lever *i*. A spiral spring is interposed between the lug and the upper arm and surrounds the
70 rod, which tends to force the rod downwardly. When the lever *i* is moved to the position shown in Fig. 1, the cam *k*, bearing on the lug, will force the rod *g* upwardly, and its
75 lower extremity, engaging the disk at the channel, will draw the disk tightly against the extremity of the pipe *a* and will lock it in this position, thus securing the members together by a water-tight joint. When the lever *i* is returned to the horizontal position,
80 the spring will force the rod *g* downwardly and release the disk, thus leaving it free to be rotated to bring another nozzle to register with the pipe *a*.

Another form of securing device is shown
85 in Fig. 4, comprising an operating-rod *q*, having a screw-threaded portion *p*, engaging a threaded aperture in a bent arm secured to the pipe *a*. To the extremity of this bent lever is pivoted a lever *o*, resting on an enlargement of the rod *q* and having its free extremity projecting under the disk *c*. When the
90 rod is turned in the direction to raise it, the lever is moved upwardly and by its free end forces the disk tightly against the pipe *a*. To facilitate the registering of the nozzles
95 with the supply-pipe, I provide a spring-plate *n*, having a projection *s*, that engages recesses *r* in the disk when the nozzles are in the exact registering position.
100

In Fig. 5 is shown a means for actuating a disk from a distance, comprising a lever *v*, rotating on the bolt *b*, and actuated, preferably, by a cord passing over a pulley and then

downwardly. A flat ring *w* is secured to the disk *c*, having teeth on its surface which are engaged by a spring-detent *u*, secured to the arm *v* and bearing on the ring at an incline.

5 This detent engages the teeth to move the disk when actuated in one direction only.

Having now particularly described and ascertained the said invention, what I claim is—

1. The combination with a supply-pipe and
10 a disk pivotally connected therewith and having nozzles thereon arranged to register with the pipe, of means for rotating said disk comprising a flat toothed ring secured to the disk, and an actuating-arm pivotally mounted con-
15 centric with said disk and having a spring-detent secured to said arm and bearing on said toothed ring, said detent being inclined to the said ring and engaging its teeth when moved in one direction only.

20 2. The combination with a supply-pipe, of a disk pivotally connected with said pipe, said disk having a plurality of nozzles secured thereto that are arranged so as to register successively with said pipe on the rotation of the
25 disk, and means for clamping said disk and said pipe together in said registering positions.

3. The combination of a supply-pipe, an arm extending from said pipe, a disk pivot-
30 ally mounted on said arm, said disk having a plurality of nozzles secured thereto that are arranged so as to register successively with said pipe on the rotation of the disk, another arm secured to said pipe, a lever pivotally
35 mounted on said latter arm and having its free extremity arranged to tightly secure said disk and pipe together in said registering positions.

4. The combination of a supply-pipe, an

arm extending from said pipe, a disk pivot- 40 ally mounted on said arm, said disk having a plurality of nozzles secured thereto that are arranged so as to register successively with said pipe on the rotation of the disk, an-
other arm secured to said pipe and having an 45 aperture therein, a rod reciprocating in said aperture in the arm, and having one extremity engaging said disk, a lug secured to said rod, a lever pivoted on said latter arm and having
its free extremity when moved engaging said 50 lug to move said rod whereby the disk and pipe are tightly drawn together in the registering positions, and retained in said posi-
tions.

5. The combination of a supply-pipe, an 55 arm extending from said pipe, a disk pivotally mounted on said arm, said disk having a plurality of nozzles secured thereto that are arranged so as to register successively with
said pipe on the rotation of the disk, said 60 disk having a channel in its periphery, a pair of arms secured to said pipe each having an aperture therein, a rod reciprocating in said apertures in the arms and having a lug en-
gaging said channel in the disk, another lug 65 on said rod, a lever pivoted on one of said pair of arms and having its free extremity when moved engaging said latter lug to move
said rod whereby the pipe and the disk at 70 the registering position are tightly drawn together and retained in such position.

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

MARTIN HAHN.

Witnesses:

ANDREAS SORG,
RAY FRANK.