

(No Model.)

2 Sheets—Sheet 1.

A. A. PERCY.
COVER FOR TOBACCO PIPES.

No. 547,616.

Patented Oct. 8, 1895.

Fig. 1

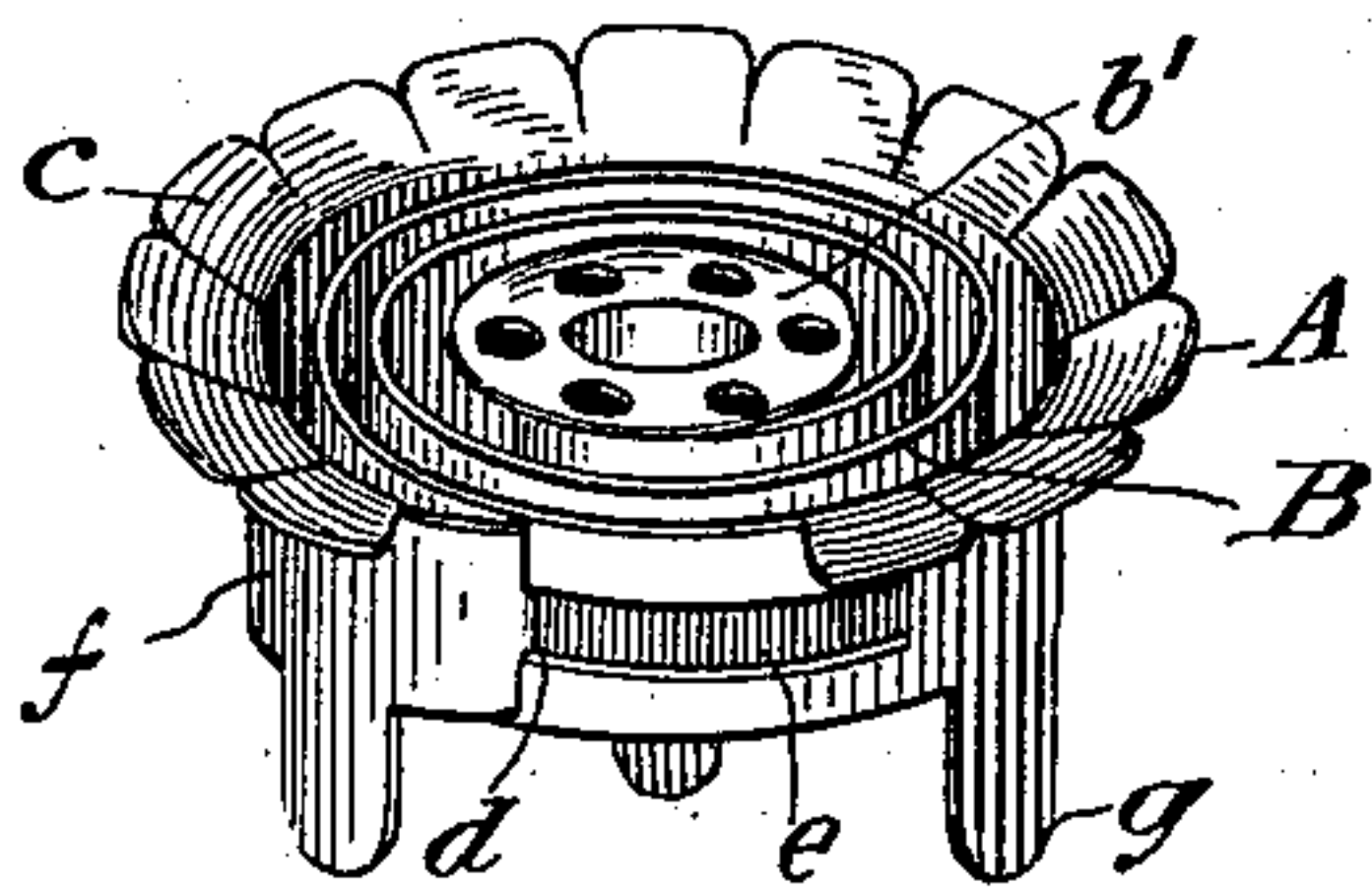


Fig. 2

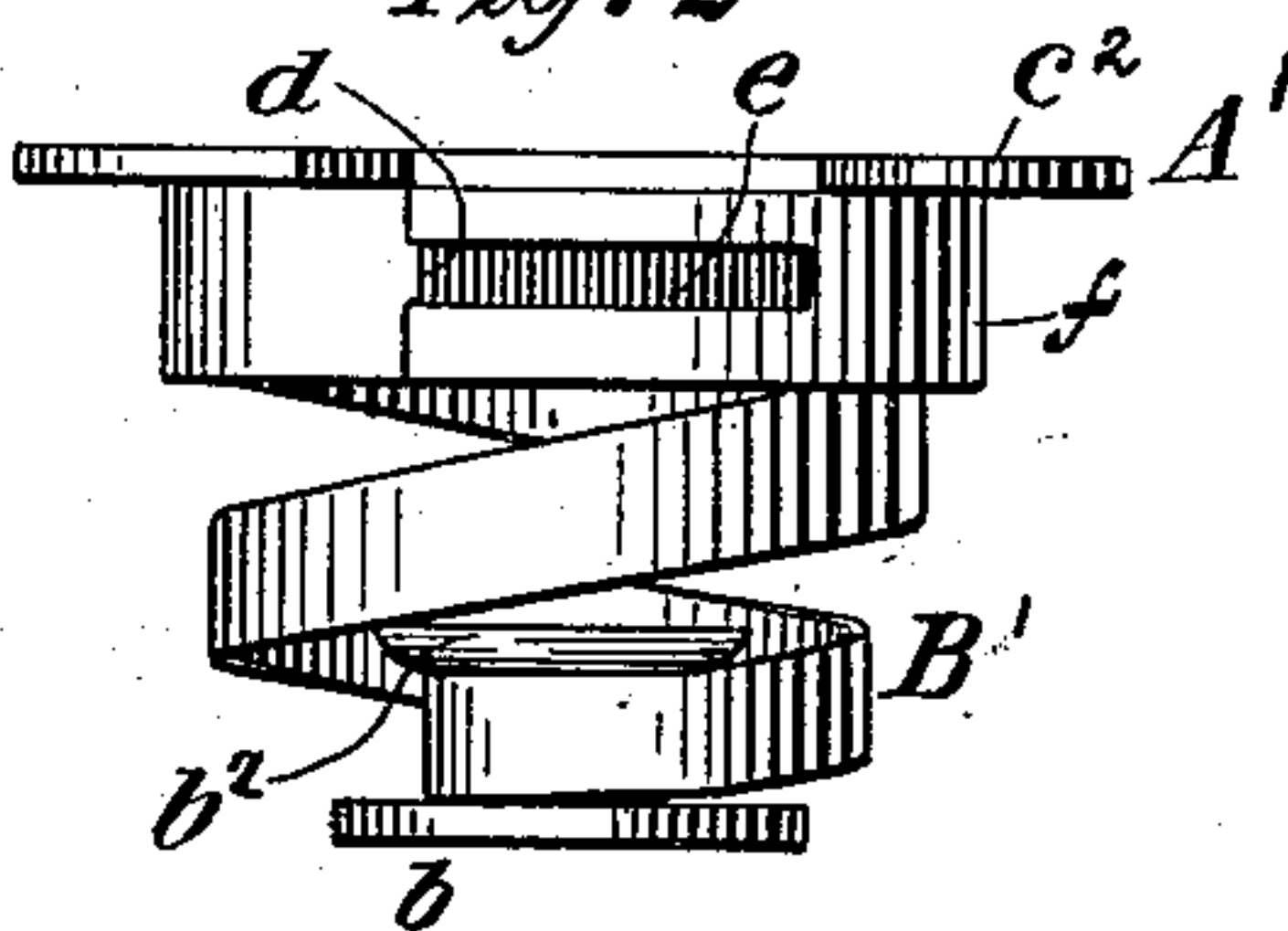


Fig. 3

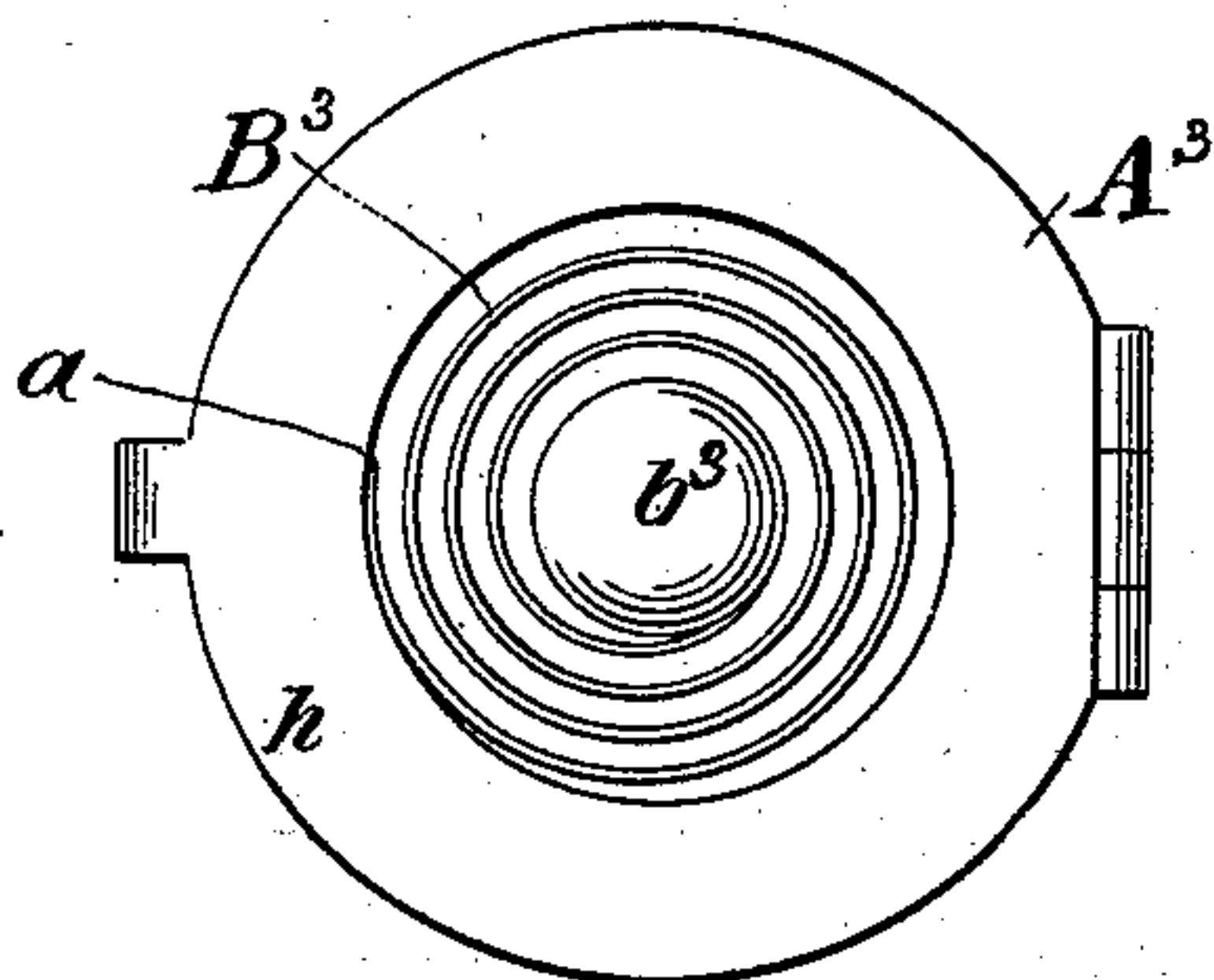


Fig. 4

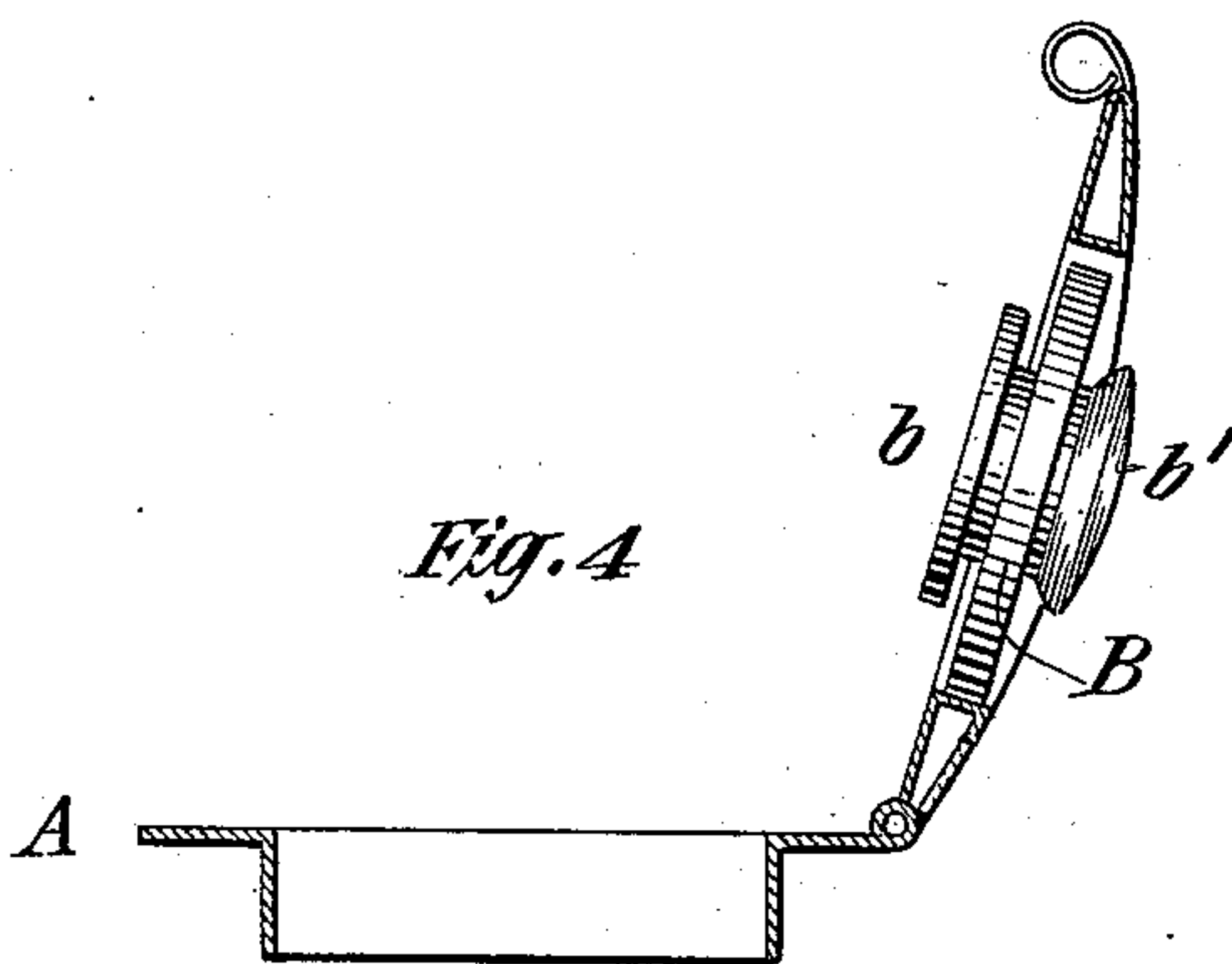


Fig. 5

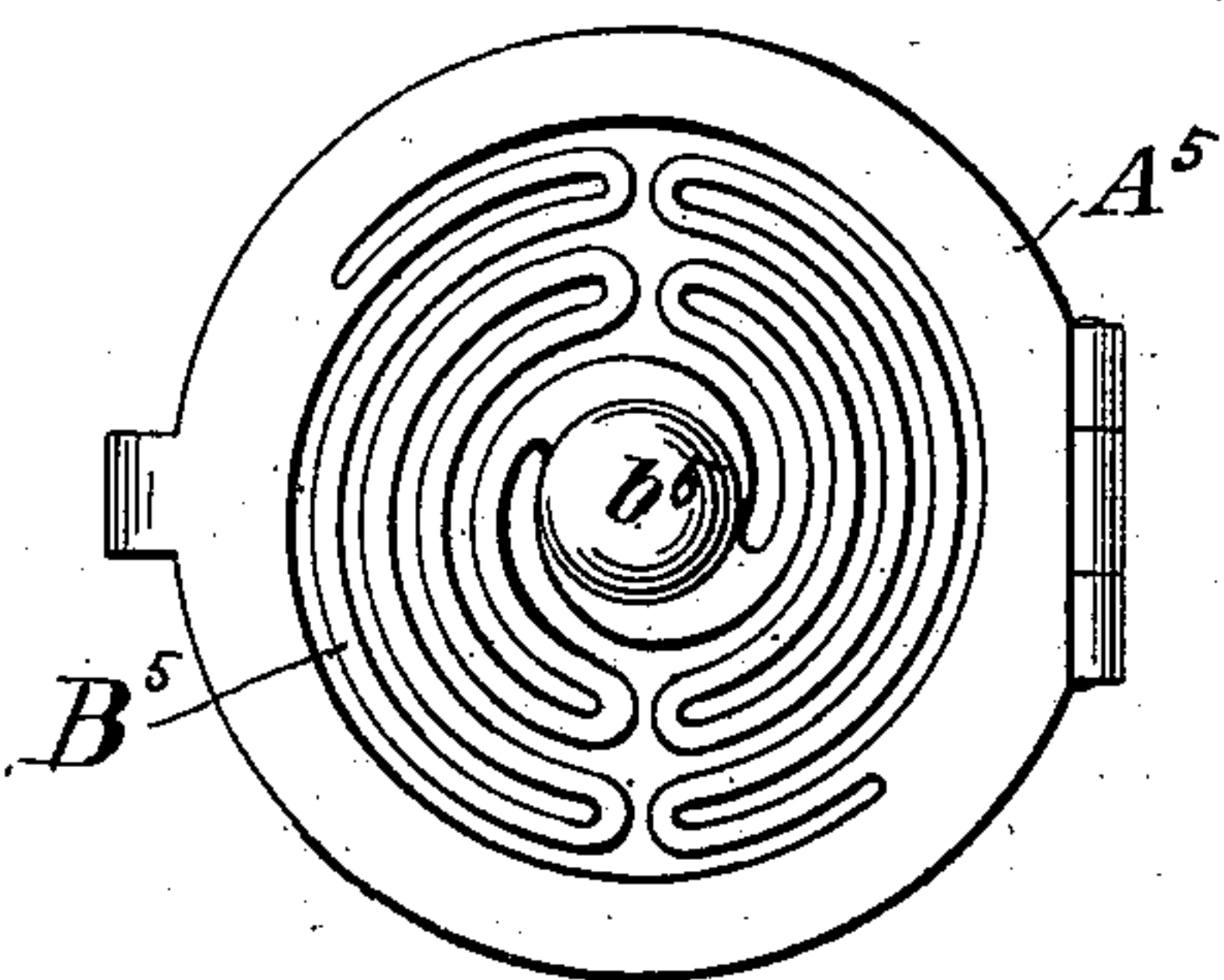
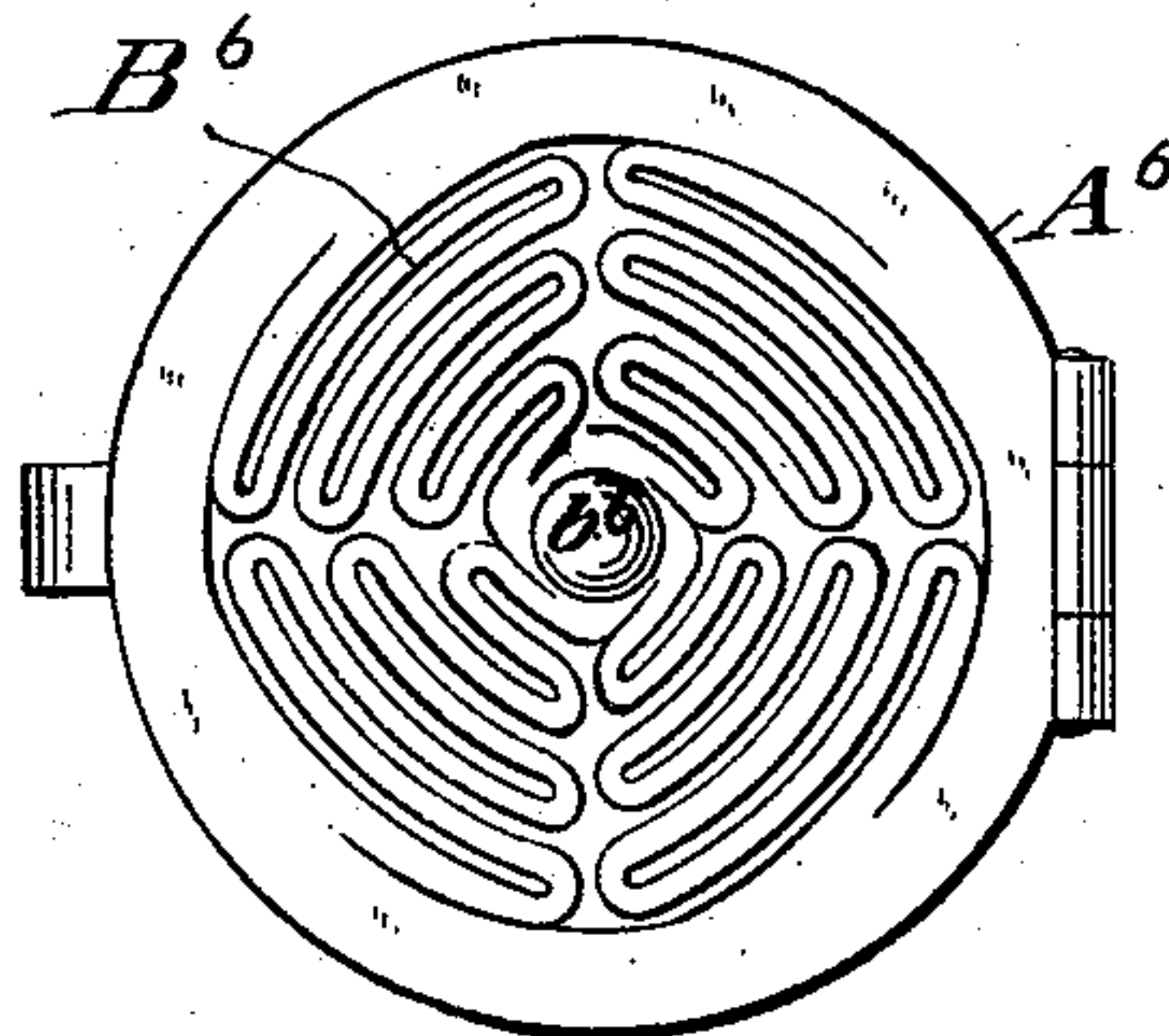


Fig. 6



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(No Model.)

2 Sheets—Sheet 2.

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Fig. 7

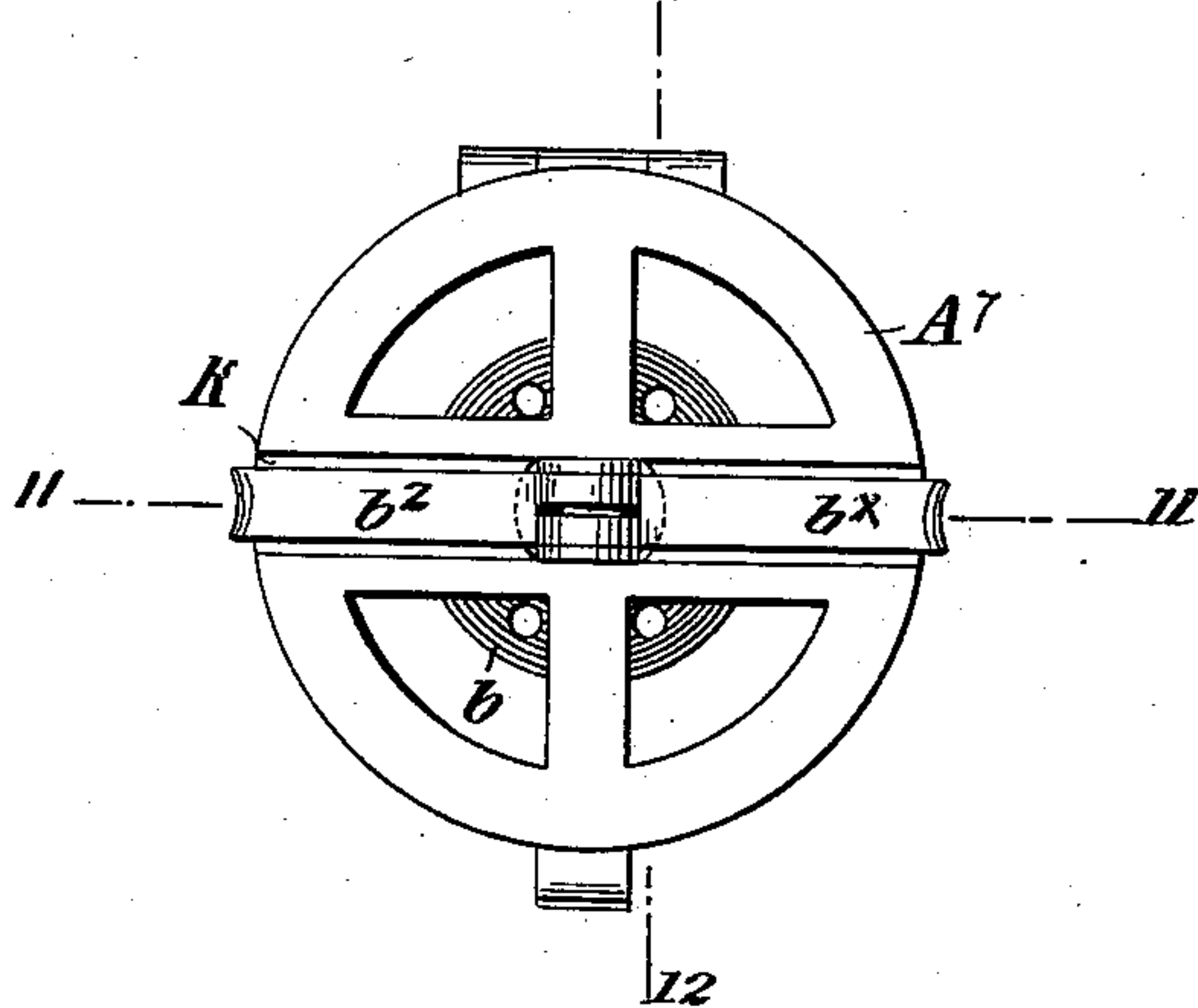


Fig. 8

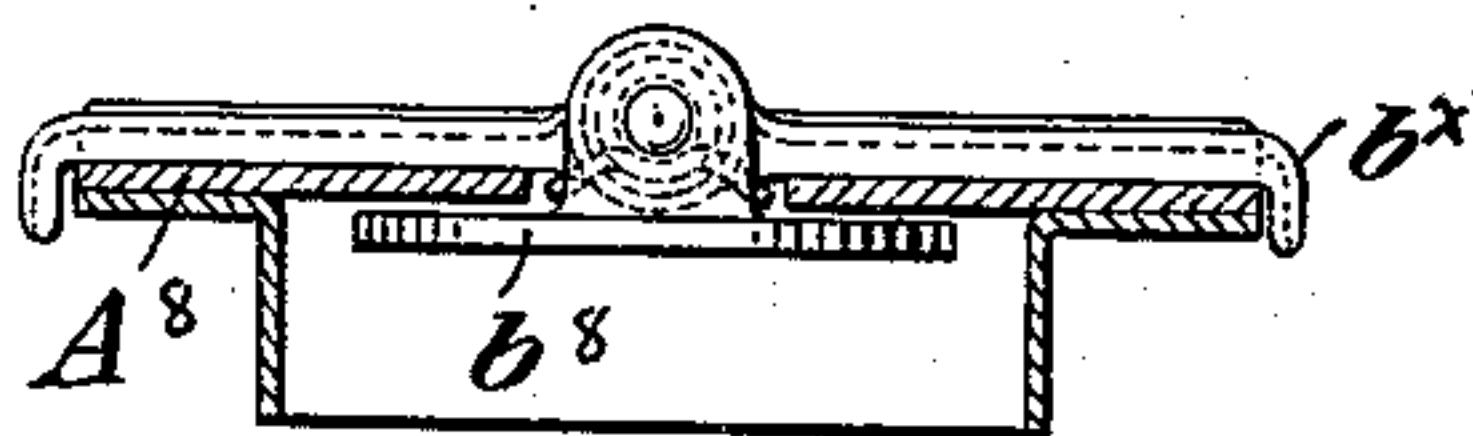


Fig. 9

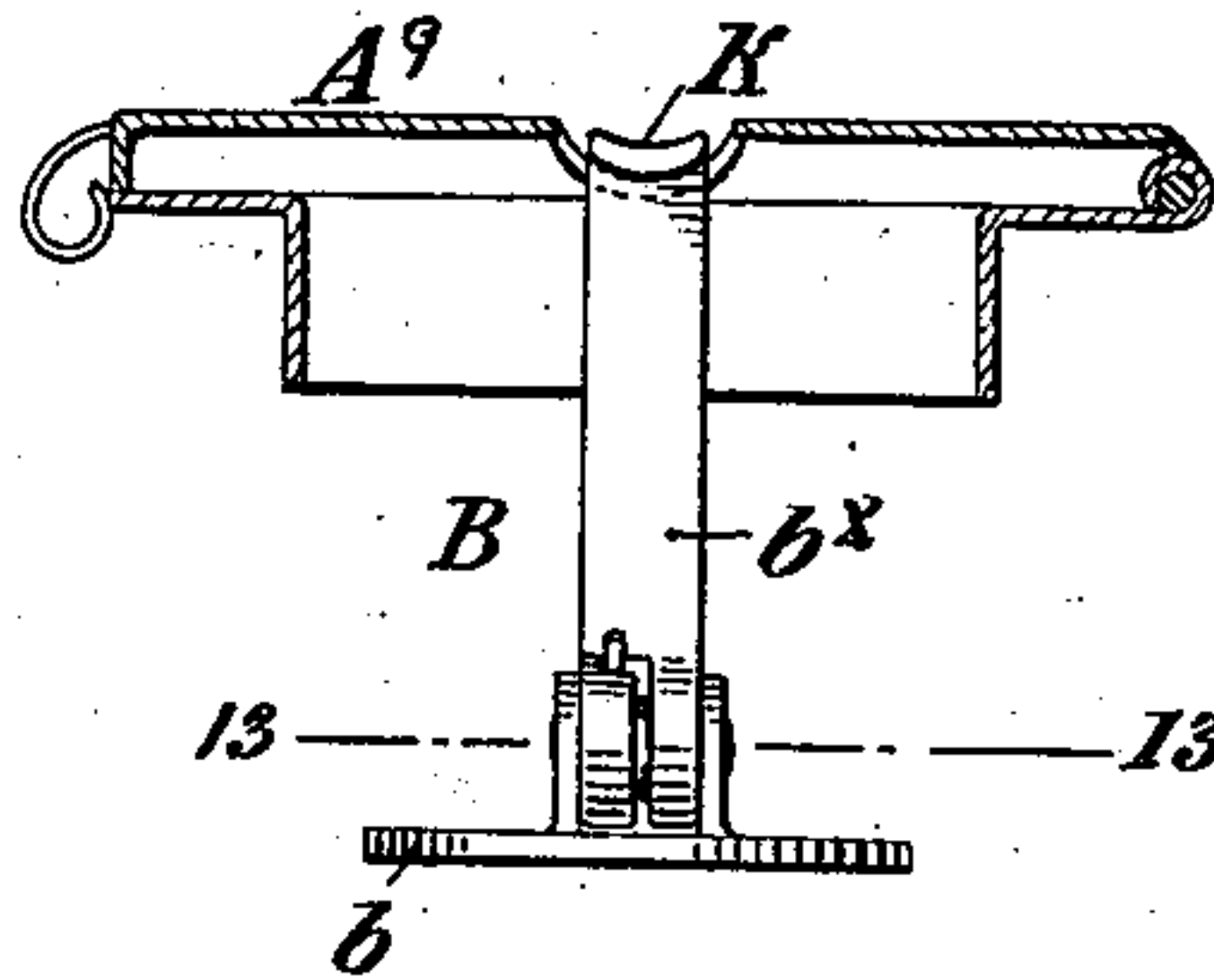


Fig. 10

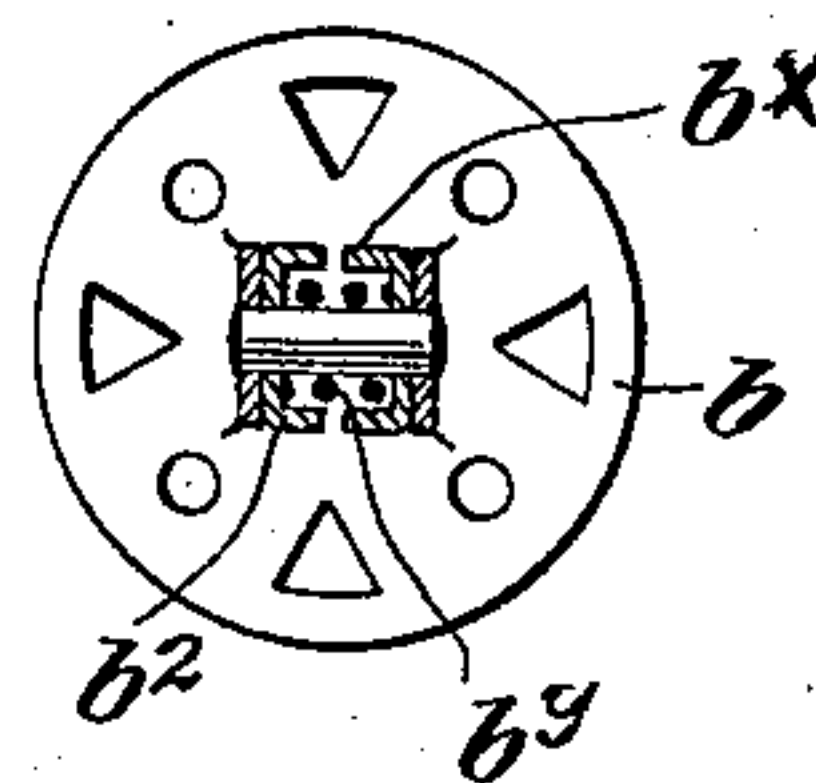


Fig. 10a



Fig. 11

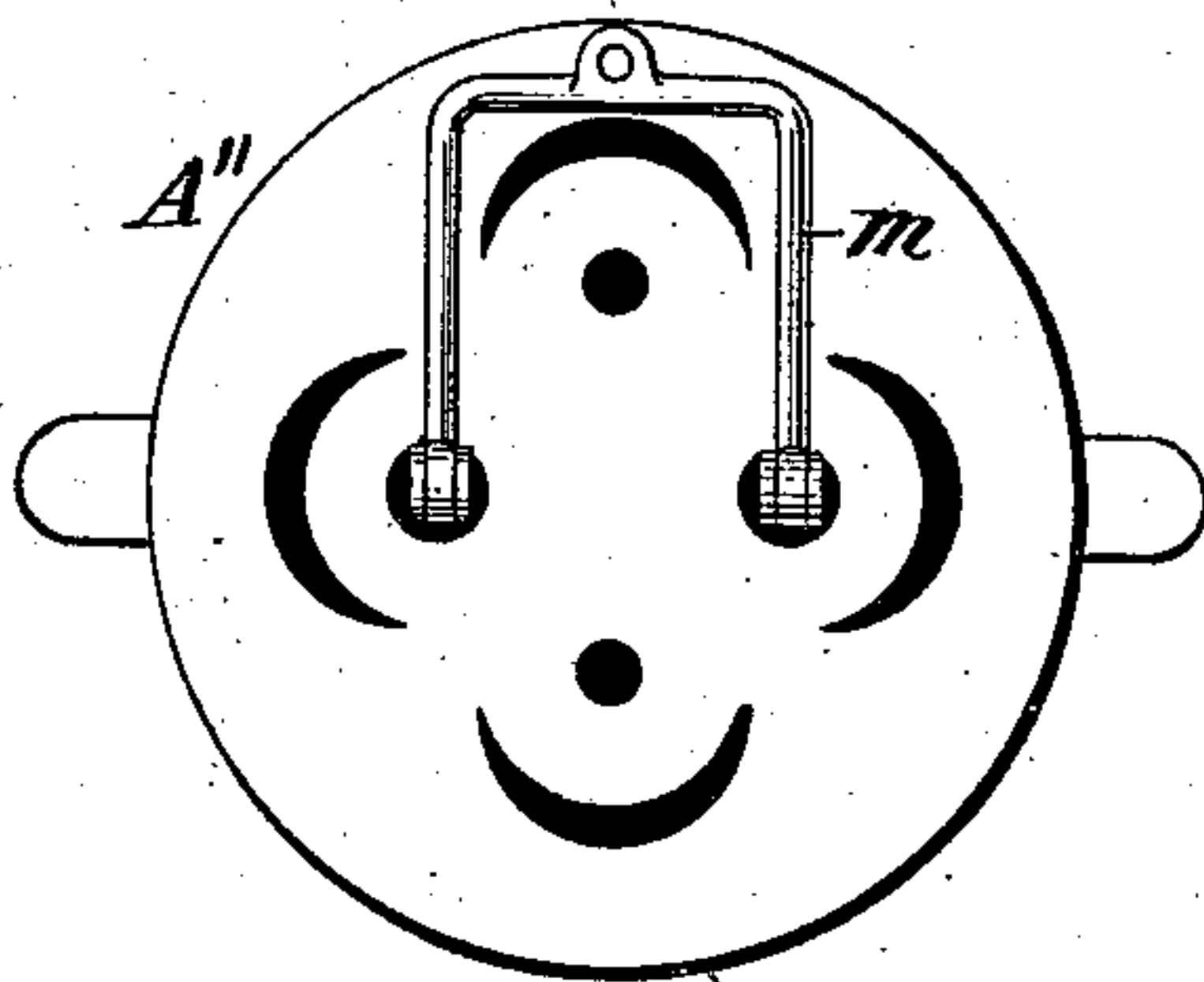
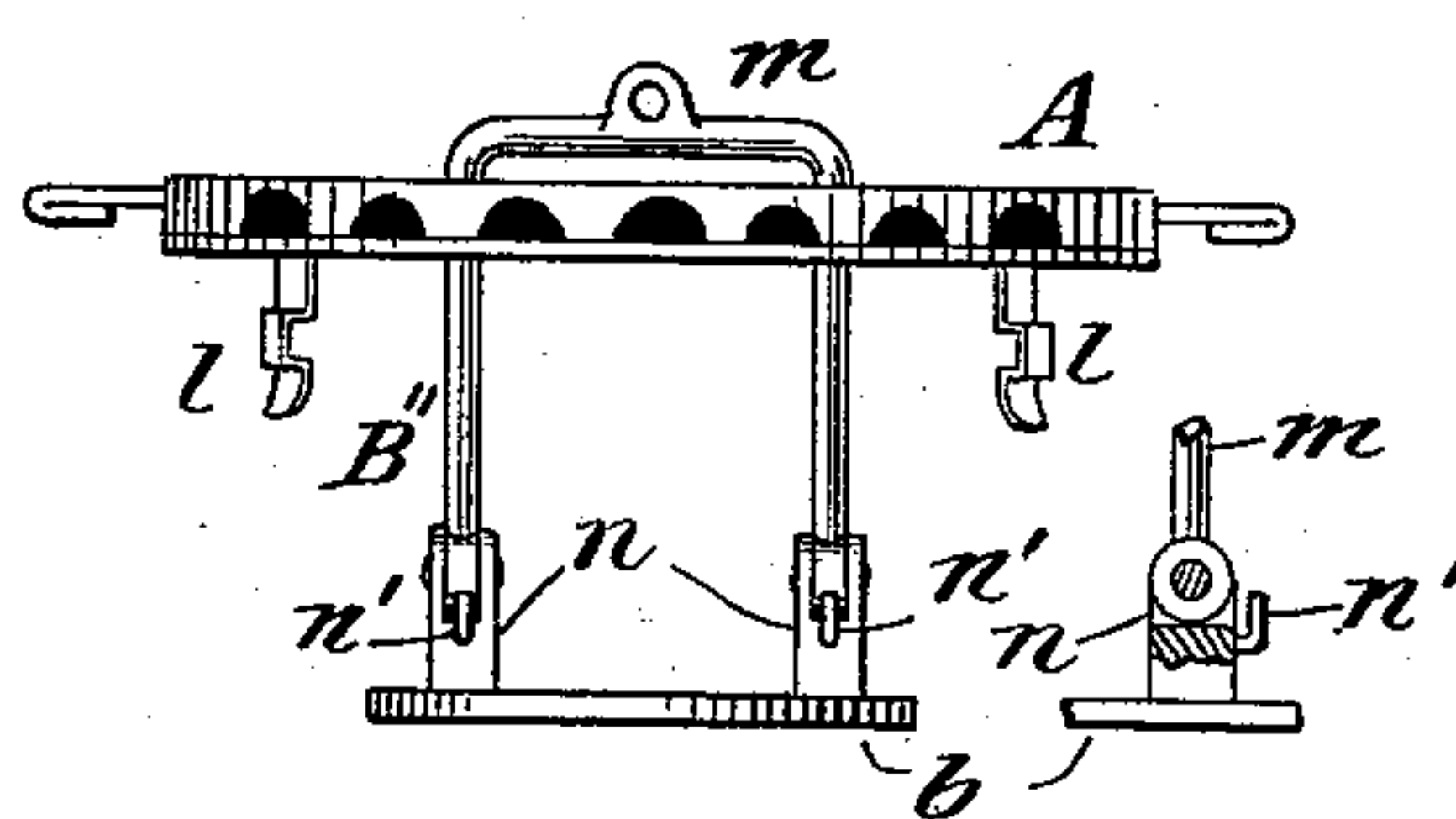


Fig. 12



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UNITED STATES PATENT OFFICE.

ARCHIBALD ALLAN PERCY, OF GLASGOW, SCOTLAND.

COVER FOR TOBACCO-PIPES.

SPECIFICATION forming part of Letters Patent No. 547,616, dated October 8, 1895.

Application filed December 7, 1894. Serial No. 531,126. (No model.) Patented in England December 4, 1893, No. 23,234.

To all whom it may concern:

Be it known that I, ARCHIBALD ALLAN PERCY, a subject of the Queen of Great Britain, and a resident of Glasgow, Scotland, have
5 invented certain new and useful Improvements in Covers for Tobacco-Pipes, (for which I have obtained Letters Patent of Great Britain, No. 23,234, dated December 4, 1893,) of which the following is a specification.

10 My invention has reference to improvements in covers for tobacco-pipes.

On June 26, 1894, Letters Patent of the United States were granted to me, No. 521,864, for improvements in covers for tobacco-pipes,
15 wherein the cover is provided with adjustable grips, said grips being retained in the adjusted position by a spring or springs detachably connected thereto and the grips or holders sliding in slots made in the cover.

20 The object of my present invention is to produce, in combination with a cover for a tobacco-pipe, a pusher, and suitable means for actuating the pusher, which shall not protrude materially above the top surface of the
25 cover when the pusher is in its elevated position and which may be spring-actuated or not. The pusher may be combined with a cover that is provided with grips or holders, such as described in my patent referred to, or
30 it may be combined with the improved cover herein shown, which is adapted to be adjusted to [the bowl of the pipe by the contraction and expansion of the cover itself or of a suitable spring forming a part of the cover or
35 serving to also actuate the pusher.

In the accompanying drawings, which form a part of this specification and wherein like features are indicated by like letters of reference throughout the several views, I have
40 illustrated a number of embodiments of my invention, which are described hereinafter.

In the drawings, Figure 1 is a perspective view of a pipe-cover embodying both the contractible feature of the cover as well as the
45 central pusher. Fig. 2 is a view in elevation of a modification of Fig. 1 as far as the means for securing the cover to the bowl of the pipe are concerned and embodying my contractible cover, the pusher being depressed. In both
50 of these views the cover and pusher are formed integral. Fig. 3 is a plan view of a cover that

is not contractible, but is provided with a hinged lid having a central opening, within which is arranged a spring-pusher adapted to be depressed into the bowl of the pipe and to
55 be automatically restored to its normal position when the pressure of the finger is removed. Fig. 4 is a central vertical section of Fig. 3 with the spring and disks or plates of the pusher in side elevation. Figs. 5 and 6
60 are other embodiments of the type of cover shown in Fig. 3, the spring-pushers as shown in Figs. 5 and 6 being preferably formed integral with the lid by being stamped out of the metal comprising the lid. In Fig. 5 the spring
65 is shown to consist of two sinuous portions united at their center to a button or disk, whereas in Fig. 6, which represents a modification of Fig. 5, the spring comprises four sinuous portions, which are united centrally to a
70 pusher-disk. In neither of these views, Figs. 5 and 6, is the cover contractible, as it is in Fig. 1. Fig. 7 is a top plan view of a cover which is not contractible, but which is provided with a pusher having two spring-controlled arms,
75 which lie in grooves in the top surface of the cover when the pusher is elevated. Fig. 8 is a section on the line 11 11 of Fig. 7. Fig. 9 is a sectional view on the line 12 12 of Fig. 7, showing the pusher depressed. Fig. 10 is a
80 sectional view on the line 13 13 of Fig. 9, showing the spring connection between the perforated pusher-plate and its operating-arms. Fig. 10^a is a detached view of the spring in the joint between the operating-arms and
85 pusher-plate. Fig. 11 is a top plan view of a type of cover shown in my previous patent herein referred to and having adjustable grips or holders provided with a pusher comprising a pusher-disk hinged to a yoke pass-
90 ing through holes in the cover and adapted to lie onto the cover when the pusher is elevated. Fig. 12 is a view in elevation of Fig. 11, showing the pusher depressed. These views, Figs. 11 and 12, illustrate the applica-
95 tion of a pusher to the type of cover shown in my previous patent.

Referring to the drawings, A A² A'' indicate the covers, which will preferably be made of metal.

B B² B'' designate the pusher, b being the lower disk thereof and b' b² b⁶ representing

the upper disk, which is pressed downward by the finger in operating the pusher to compress the tobacco in the pipe.

In Figs. 1 and 2 the cover is applied to the bowl of the pipe by contracting the spring of which the cover is composed or of which it forms a part, the cover being held in place in or on the bowl of the pipe by the expansion of the spring. In Fig. 1 the cover consists of a helical spring with a suitable contact device in the form of a rim *c* to rest on the top of the pipe-bowl, and which may be of cup shape with its edge separated into a number of sections, as shown in Fig. 1, or it may be flat, as shown in Fig. 2. One end of the helical spring enters into a slot *d* in the coil of the spring, which allows the self-adjusting spring to expand or to be compressed, so that it may fit any size of pipe-bowl. The spring is provided at its inner end with the pusher-disk *b*, having a short upwardly-projecting barrel, around which the inner end of the spring is secured and at the top of which there is provided the disk *b'*, against which the finger is adapted to operate in depressing the pusher. The rim *c* is provided with a depending flange *f*, which may have a series of prongs or grips *g*, as shown in Fig. 1, to assist in more firmly securing the cover inside the pipe-bowl. The disk *b'* in the center of the cover will preferably be provided with a series of small holes to allow the pipe to be lighted without removing the cover, and the bottom disk *b* may likewise be provided with a series of small holes. The disk *b'* may be made of metal or asbestos, but preferably of wood or of any non-heat-conducting material that may be adapted for the purpose.

The helical spring *B*³ in Fig. 3 has one of its ends secured to the inner surface of the opening in the lid *h*, as at *a*, for example, while its other or inner end is connected between the lower and upper disks *b* and *b'*. The pusher in this instance is operated the same as in the device of Fig. 1 by pressing with the finger on the upper disk *b'*, which distends the spring *b*³, forcing the lower disk *b* against the tobacco in the pipe, and when the pressure is relieved the spring will return to its normal position in the lid.

Figs. 5 and 6 are modifications of the structure shown in Figs. 3 and 4. The spring in any of these cases might be formed of steel or other metal and separately from the lid and secured within the opening of the cover, or said spring may be formed integral with the lid by being stamped out from the metal thereof, as shown in Figs. 5 and 6.

In Figs. 7 to 10 the cover is provided on its top surface with a gutter or depression, as at *k*, and also with openings, as shown. The pusher in this instance consists of a disk *b*, hinged to the lower ends of a pair of arms *b*^x. Fixed to the journal on disk *b*, to which the arms *b*² are connected, is a spring *b*^y, of the form as seen in Fig. 10^a, serving to keep the arms extended and to hold them within the

gutter *k* when the pusher is in its elevated position. To operate the pusher in this instance, the arms *b*² are held between the thumb and finger and raised upwardly to bring them to a perpendicular position, when the pusher may be depressed, as indicated in Fig. 9.

In Figs. 11 and 12 the cover *A* is one of the types shown in my Patent No. 521,864, having spring-controlled adjustable grips or holders *L*. In this instance the cover is provided with a pusher, (indicated by *B''*), and consisting of the yoke *m*, passing through openings in the plate and hinged to the disk *b* in such a manner that when the pusher is in its elevated position and not in use the disk will be close to the under surface of the cover and the yoke will lie over on top of the cover, as shown in Fig. 11. On the posts *n*, connecting the disk *b* with the arms of the yoke, there are small studs *n'*, which prevent the disk from unduly rocking when the pusher is depressed.

In all of the examples of my invention shown in the drawings the pusher is so combined with the cover that when in its elevated position and not in use it is essentially flush with the outer surface of the cover, which is a convenient and desirable feature. In the pipe-covers heretofore provided with pushers the latter have protruded above the surface of the cover, rendering the pipe unsightly as well as inconvenient to carry in the pocket.

In some of the embodiments of my invention the cover is adapted to be secured to the bowl of the pipe by the contractible action of the helical or similar spring. In some of the embodiments the pusher is spring-controlled and in others it is not; but wherever shown it is so combined with the cover as not to extend above the top surface of the cover, and in several of the embodiments of the invention the contractible cover is combined with the pusher. It is of course obvious that the contractible cover may be combined with a pusher that is either spring-controlled or not spring-controlled.

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

1. In a cover for tobacco pipes, the combination with a contact device adapted to engage with the bowl of the pipe, of a pusher to press down the tobacco in the pipe, and means connected with the contact device for actuating the pusher adjusted to extend in its elevated position laterally toward the edge of the bowl and substantially in the same plane with the top surface of the contact device, substantially as set forth.

2. In a cover for tobacco pipes, the combination with a contact device adapted to engage with the bowl of the pipe, of a pusher passing through its central portion, and a spring in engagement with both and extending laterally between the pusher and contact device when the former is in its elevated position, substantially as set forth.

3. In a cover for tobacco pipes, the combi-

nation with a contact device adapted to engage with the bowl of the pipe, of a pusher comprising a pressing disk and a pusher disk, and a spring extending between said annular
5 contact device and the pusher, and attached to the latter between the pressing disk and the pushing disk, substantially as set forth.

4. In a cover for tobacco pipes, the combination with a contact device adapted to engage with the bowl of the pipe, of a pusher
10 and a spring extending between the disk and

pusher and adapted to engage with the interior of the bowl of the pipe as the pusher is being depressed, substantially as set forth.

Signed at New York, in the county of New York and State of New York, this 6th day of
December, A. D. 1894.

ARCHD. ALLAN PERCY.

Witnesses:

J. S. McDOWELL,
M. C. PINCKNEY.