

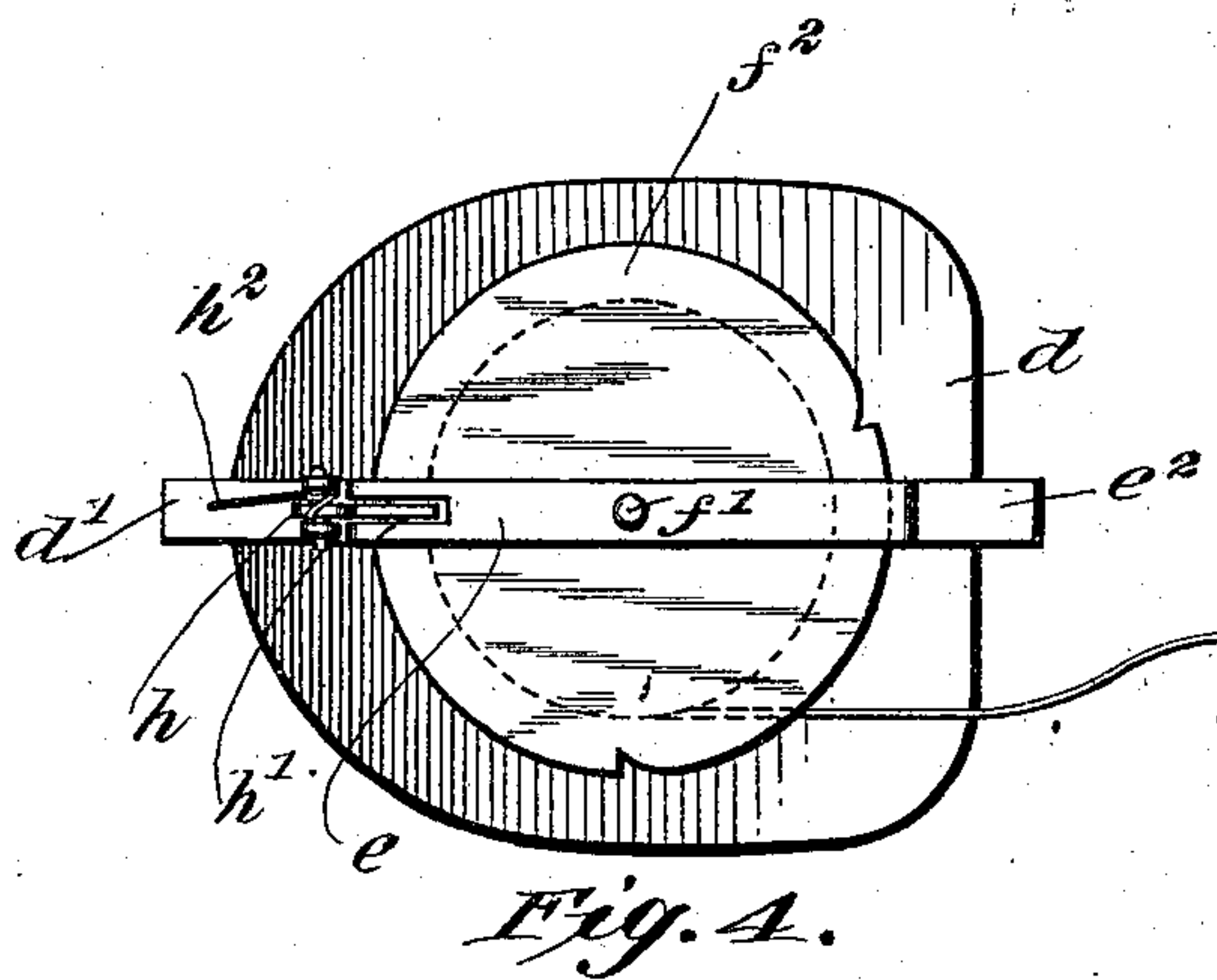
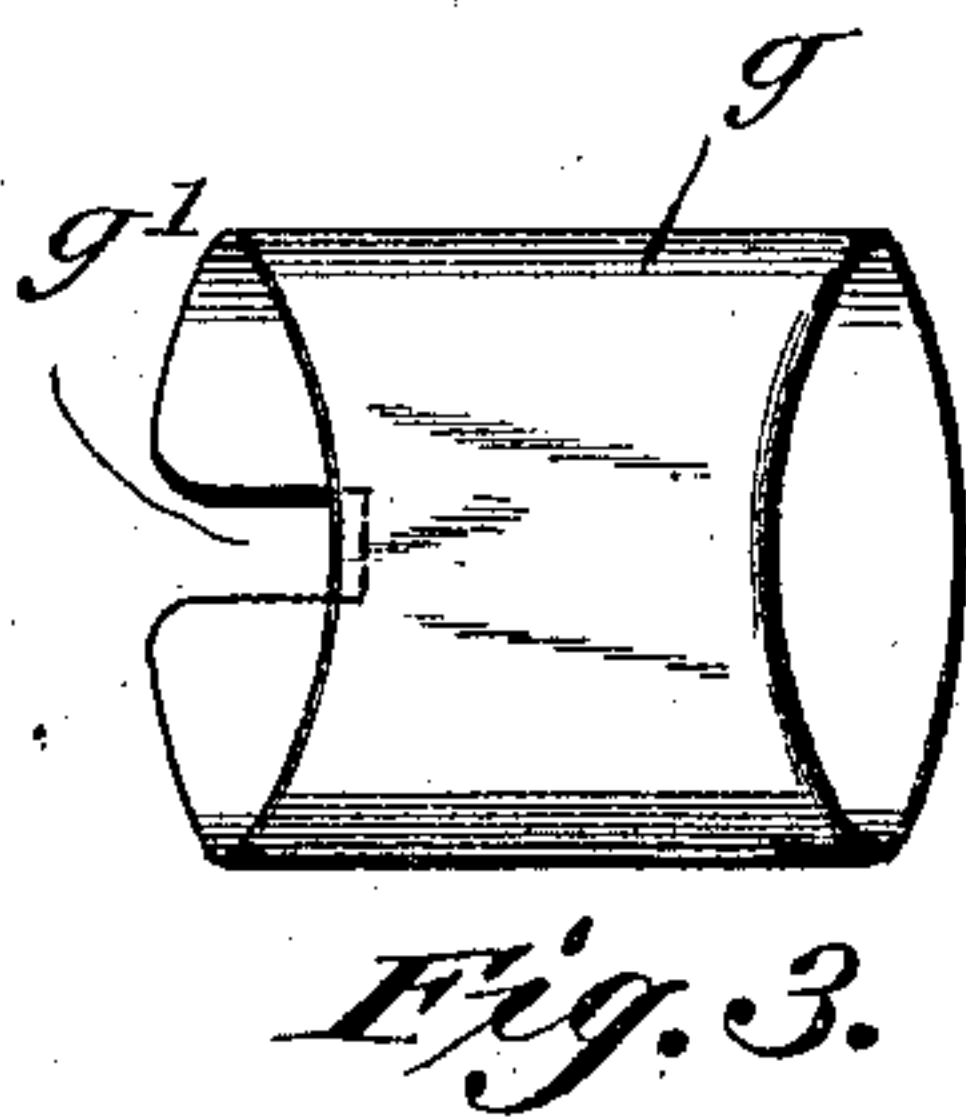
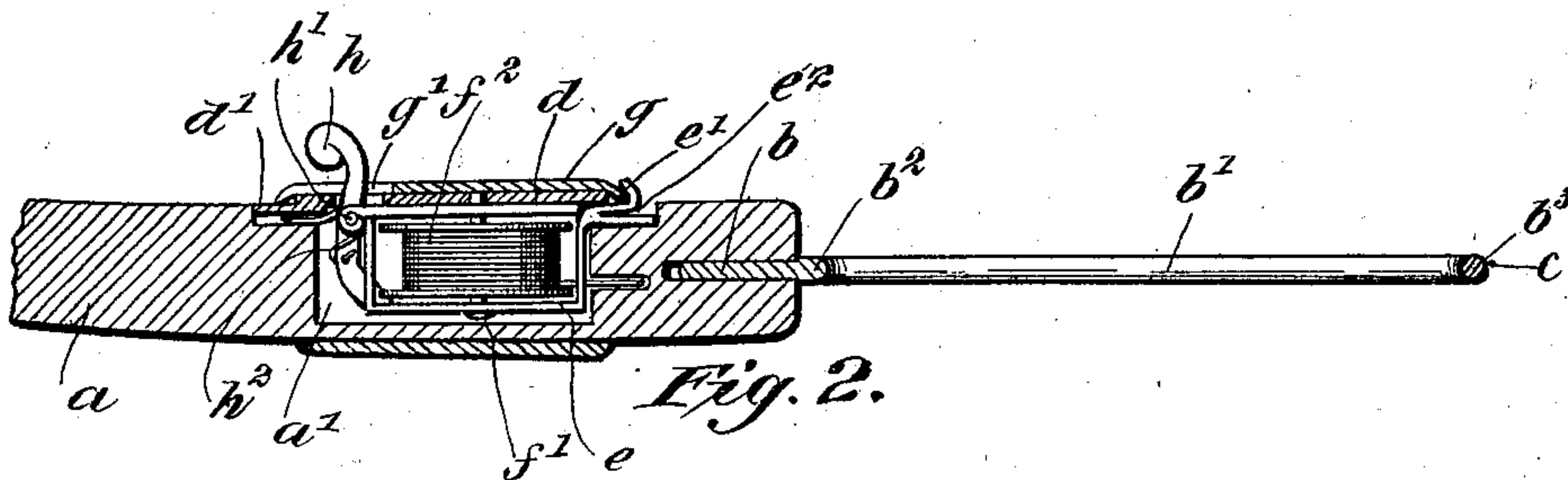
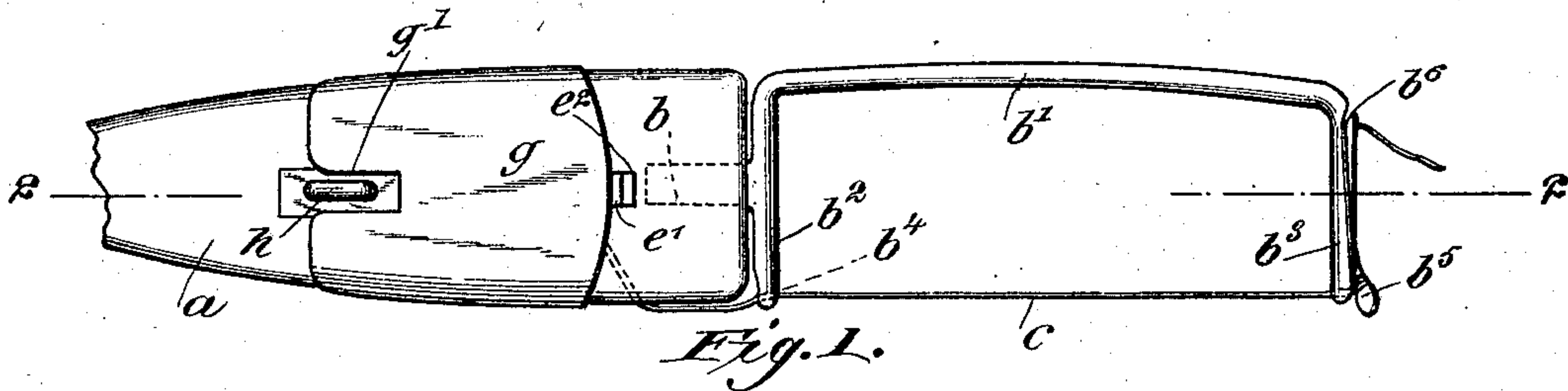
No. 725,462.

PATENTED APR. 14, 1903.

S. V. LUALLEN.
SILK HOLDER.

APPLICATION FILED SEPT. 25, 1902.

NO MODEL.



WITNESSES:

Paul Hunter
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UNITED STATES PATENT OFFICE.

SAMUEL V. LUALLEN, OF ALVA, OKLAHOMA TERRITORY.

SILK-HOLDER.

SPECIFICATION forming part of Letters Patent No. 725,462, dated April 14, 1903.

Application filed September 25, 1902. Serial No. 124,764. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL V. LUALLEN, a citizen of the United States, and a resident of Alva, in the county of Woods and Territory of Oklahoma, have invented a new and Improved Silk-Holder, of which the following is a full, clear, and exact description.

The purpose of this invention is to provide means especially adapted to be attached to tooth-brushes and by which silk or the like may be held taut, so as to be useful in cleaning the teeth.

To this end the invention comprises means for carrying the silk in or on the handle of the tooth-brush or other supporting part and a bow for holding a part of the cord extended in position to be used. The invention also involves various minor features of construction and arrangement of parts, which will be fully described hereinafter.

This specification is an exact description of one example of my invention, while the claims define the actual scope thereof.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a plan view of the invention. Fig. 2 is a section on the line 2-2 of Fig. 1. Fig. 3 is a bottom plan view of the ferrule or band which secures the thread-holder in place, and Fig. 4 is an inner view of the thread-reel and the holder therefor.

a indicates the supporting part, which may be assumed to be the handle of the tooth-brush. The invention is preferably applied to the end of the tooth-brush handle, in which connection it will be very conveniently situated. It may, however, be used in other connections, as will be obvious.

The bow comprises a shank *b*, which is formed in the end of the handle *a* and carries the bow proper, formed of the back *b'*, the inner end *b²*, and the outer end *b³*, these ends extending transversely of the back *b'* and the end *b²* having an eye *b⁴* therein, through which the thread (indicated at *c*) is passed. The end *b³* of the bow has a stud *b⁵*, adapted to have the thread turned around it, and a notch *b⁶* is formed in the rear portion of the end *b³*, this notch not only serving as a chock in which to place and secure the end of the

thread, but also forming sharp edges on which the thread may be cut, so as to sever the used or soiled portions of the thread from the unused portions.

In the handle *a* is formed a cavity *a'*, and over this cavity is placed a cover-plate *d*. This plate has an inward extension *d'* lying in a slight recess formed in the handle *a*, adjacent to the cavity *a'*, and fastened securely to the inner side of said plate is a rectangular frame *e*, in which is mounted the pin *f'* of the silk-reel *f²*. The frame *e* has an outward extension *e²* located opposite the extension *d* and lying in a slight recess in the handle *a*, adjacent to the outer end of the cavity *a'*. From this extension projects a pliable lip *e'*, serving to hold the band or ferrule in place.

g indicates the clamping band or ferrule, which is slidable on the handle *a*, so as to cover or uncover the plate *d*. By this means the plate is secured in place, and by moving the band *g* off of the plate said plate, with the reel *f²*, may be detached. The band *g* may be moved by bending down the pliable lip *e'* and secured by bending said lip upward, as shown in the drawings. This band *g* is formed with a slot or notch *g'* therein to permit the passage of a latch *h*, which latch is pivoted at the point *h'* to the frame *e* and projects through a slot in said frame, as best shown in Fig. 4, so as to engage the notched periphery of the reel *f²*.

h² indicates a spring, which is applied to the latch *h* to hold the same normally engaged with the reel. By pressing outward (to the right in Fig. 2) the exposed end of the latch the inner end of the latch will be disengaged from the reel, and the reel will then be free to turn. This will permit the cord to be drawn out of the handle, and when a sufficient length of cord has been withdrawn the latch *h* will be allowed to return to its active position, whereupon the reel will be held immovable. The end portion of the cord should then be drawn tight between the ends *b²* and *b³* of the bow, and the extremity of the cord may then be fastened by turning it around the stud *b⁵* and fastening it in the chock *b⁶*.

In the use of the invention the parts are adjusted as shown in Figs. 1 and 2, and the cord is used on the teeth in the usual man-

ner. When the cord becomes worn or it is desired to use a new length of cord, the latch *h* should be pressed to release the reel and the desired length of cord be drawn out.

5 The latch should then be allowed to return and the cord drawn tight between the ends of the bow, after which the end should be fastened in the manner before explained. When all the cord is drawn from the reel, the
10 band *g* should be removed, the frame *e* taken out of the socket, and a new reel put in place of the old one.

Various changes in the form, proportions, and minor details of my invention may be resorted to at will without departing from the spirit and scope thereof. Hence I consider myself entitled to all such variations as may lie within the intent of my claims.

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

1. A dental silk-holder, comprising a body member, means attached thereto for holding a length of the silk in operative position, a
25 reel mounted on the body member and having a notch therein, and a latch movable toward and from the notched portion of the reel and normally engaged therewith.

2. A dental silk-holder, comprising a body
30 member, means attached thereto for holding a length of silk in operative position, said body member having a cavity therein, a frame set into the cavity, a reel mounted in the frame, and releasable means for holding the
35 reel against rotation.

3. A dental silk-holder, comprising a body member, means attached thereto for holding a length of silk in operative position, said
40 body member having a cavity therein, a frame set into the cavity, a reel mounted in the

frame, releasable means for holding the reel against rotation, said frame having a pliable lip, and a band placed over the cavity in the body, for the purpose specified, and engaged by the lip, said lip serving to hold the band
45 in place.

4. A dental silk-holder, comprising a recessed body member, means carried thereby for holding a length of silk, a frame set into the recess of the body, means for holding the
50 frame removably in place, a reel mounted in the frame, and a latch mounted in the frame and normally engaged with the reel to hold the same against rotation.

5. A dental silk-holder, comprising a re-
55 cessed body member, means carried thereby for holding a length of silk, a frame set into the recess of the body, means for holding the frame removably in place, a reel mounted in the frame, a latch mounted in the frame and
60 normally engaged with the reel to hold the same against rotation, said means for holding the frame in place comprising a cover-plate placed over the recess and secured to the
65 cover-plate.

6. A dental silk-holder, having a body, means thereon for holding a coil of silk, and a bow attached to the body, said bow having at its outer end a stud adapted to have the
70 silk wrapped around it and a notch adjacent to the stud to carry the end of the silk and facilitate breaking off the same.

In testimony whereof I have signed my name to this specification in the presence of
75 two subscribing witnesses.

SAMUEL V. LUALLEN.

Witnesses:

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