

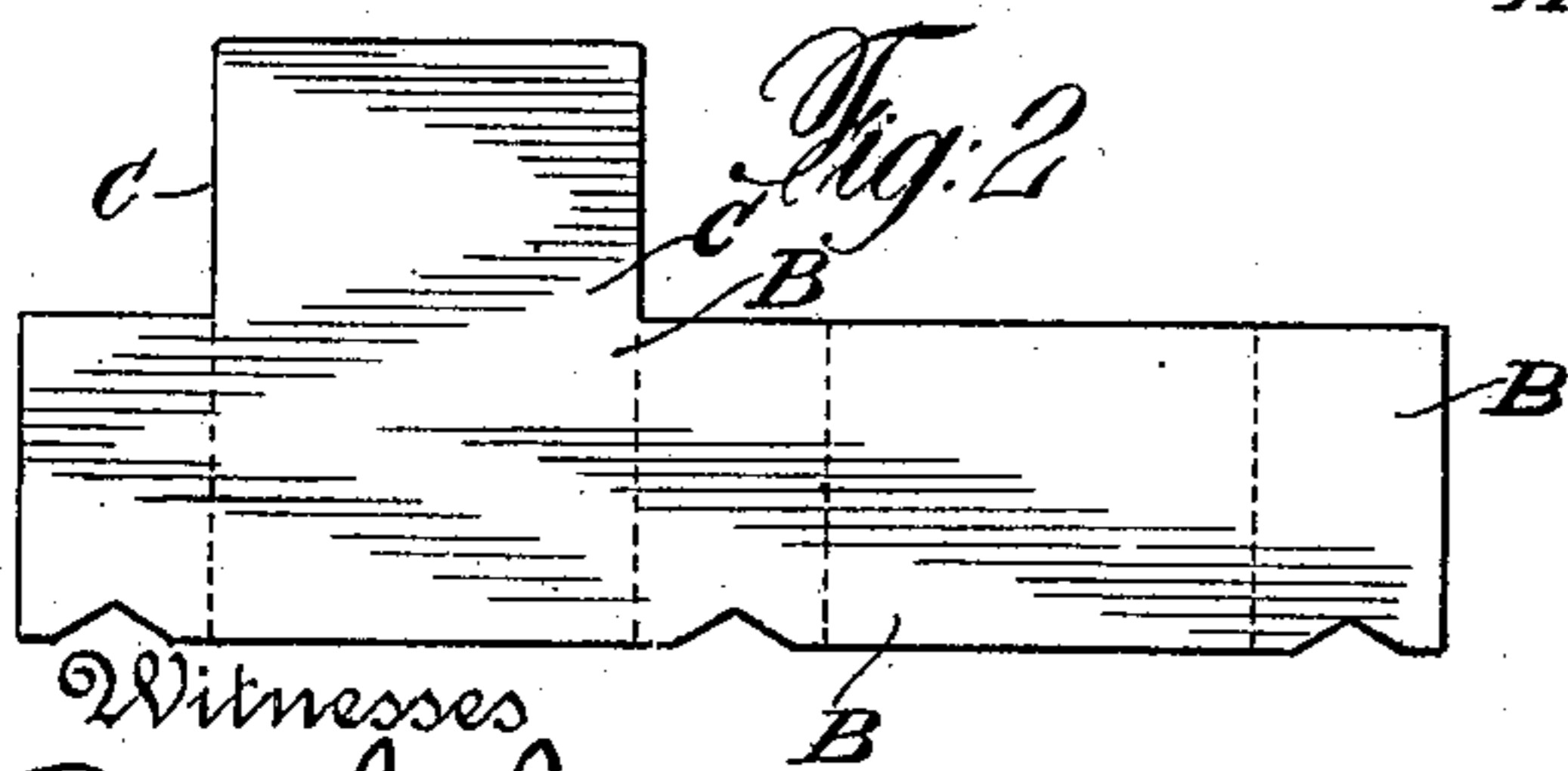
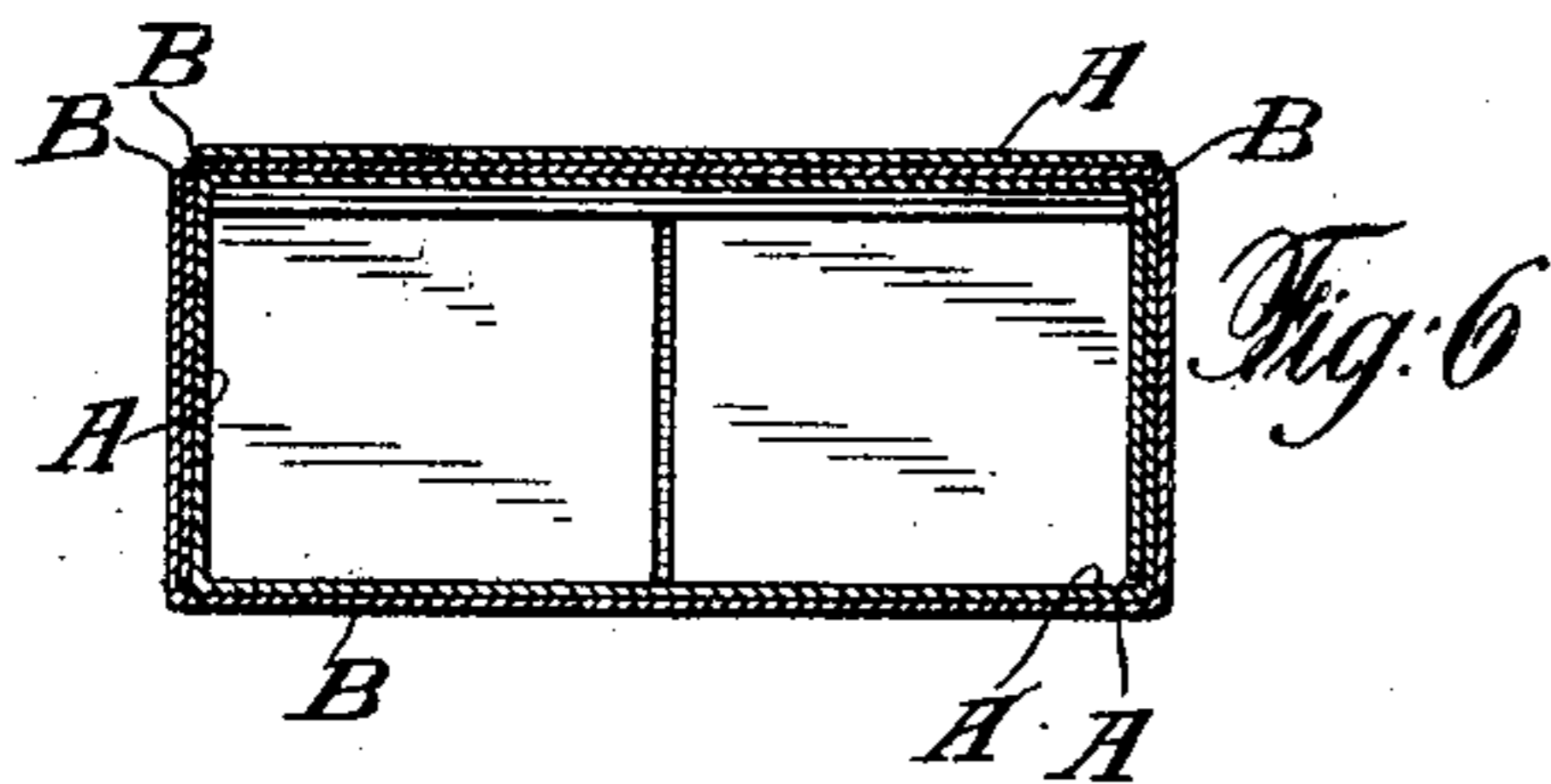
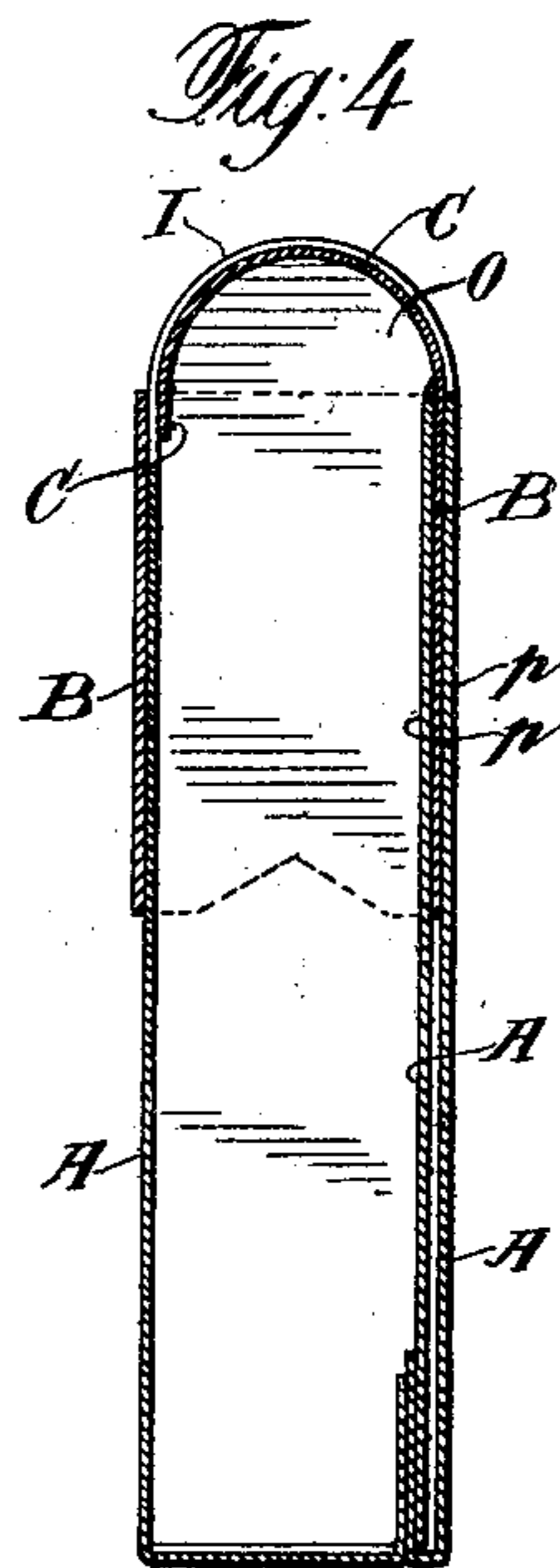
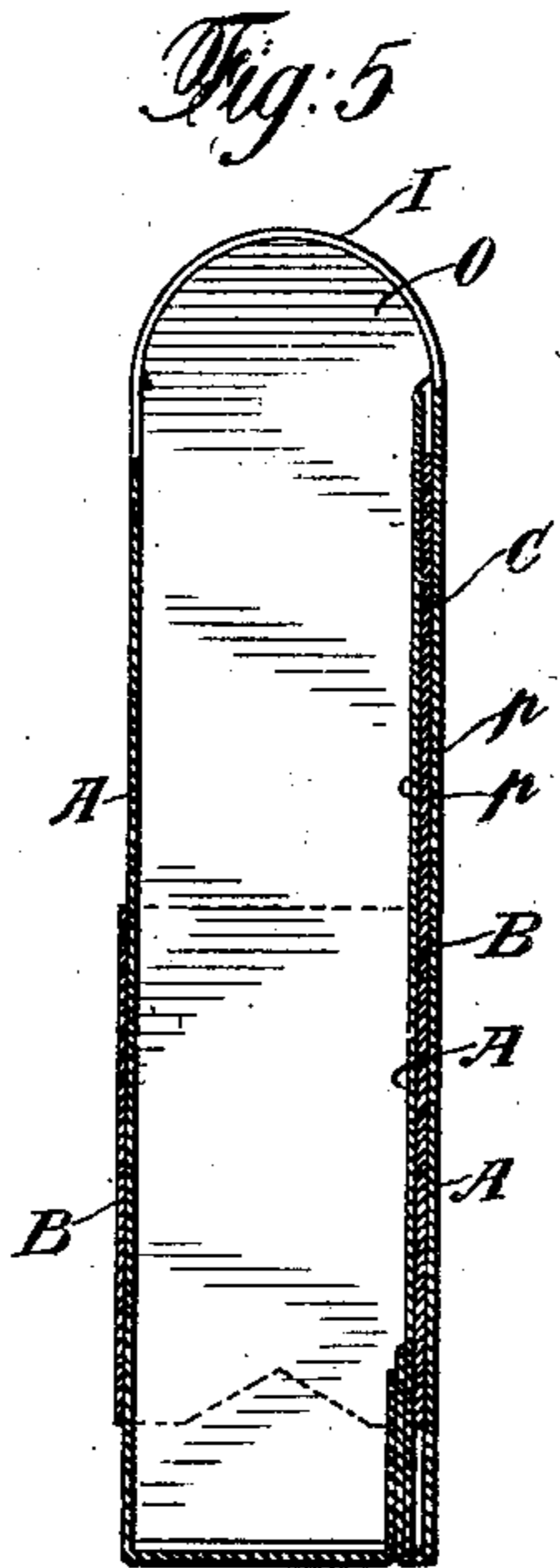
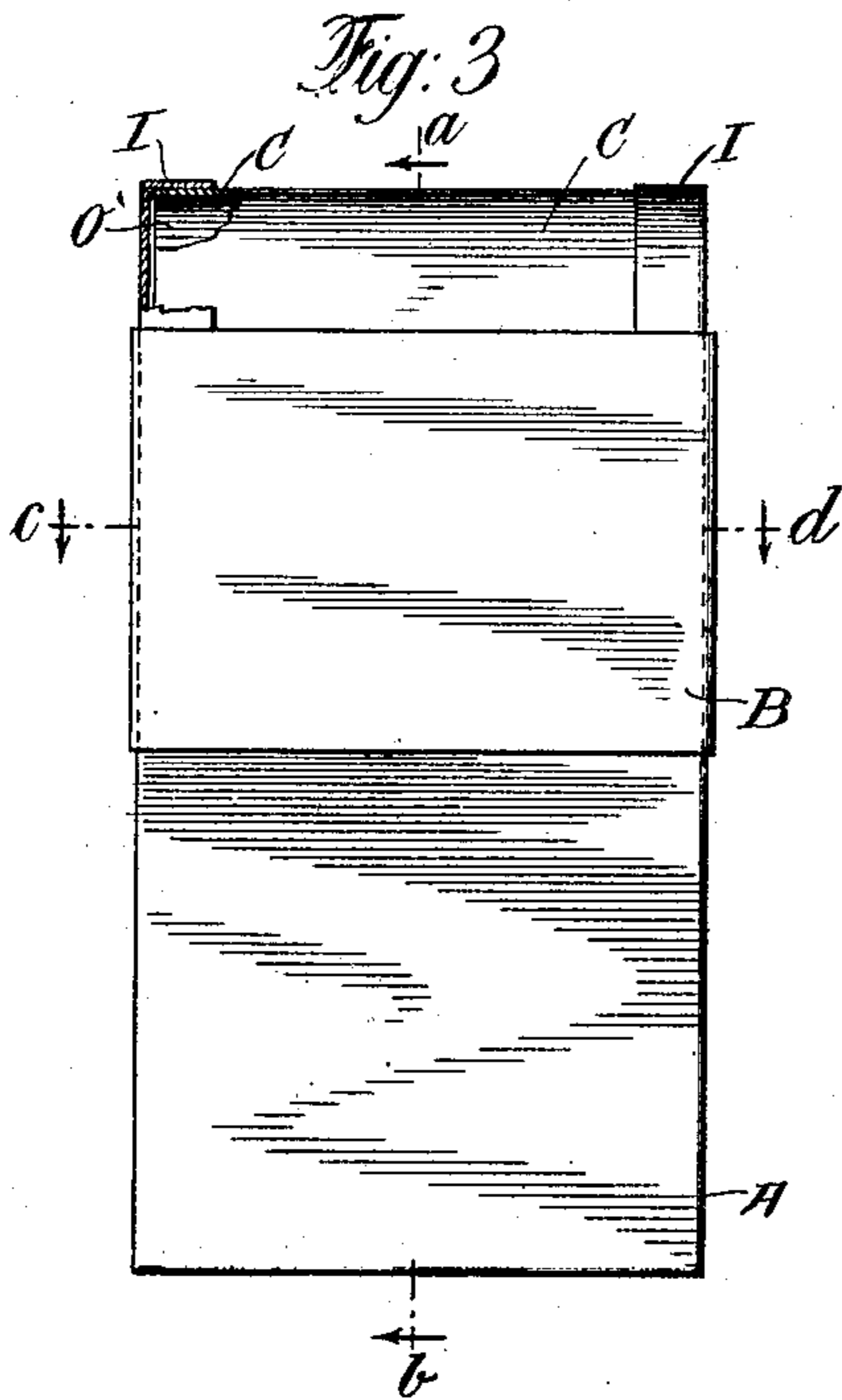
No. 896,779.

J. M. WALCUTT.
CLOSING BOX.

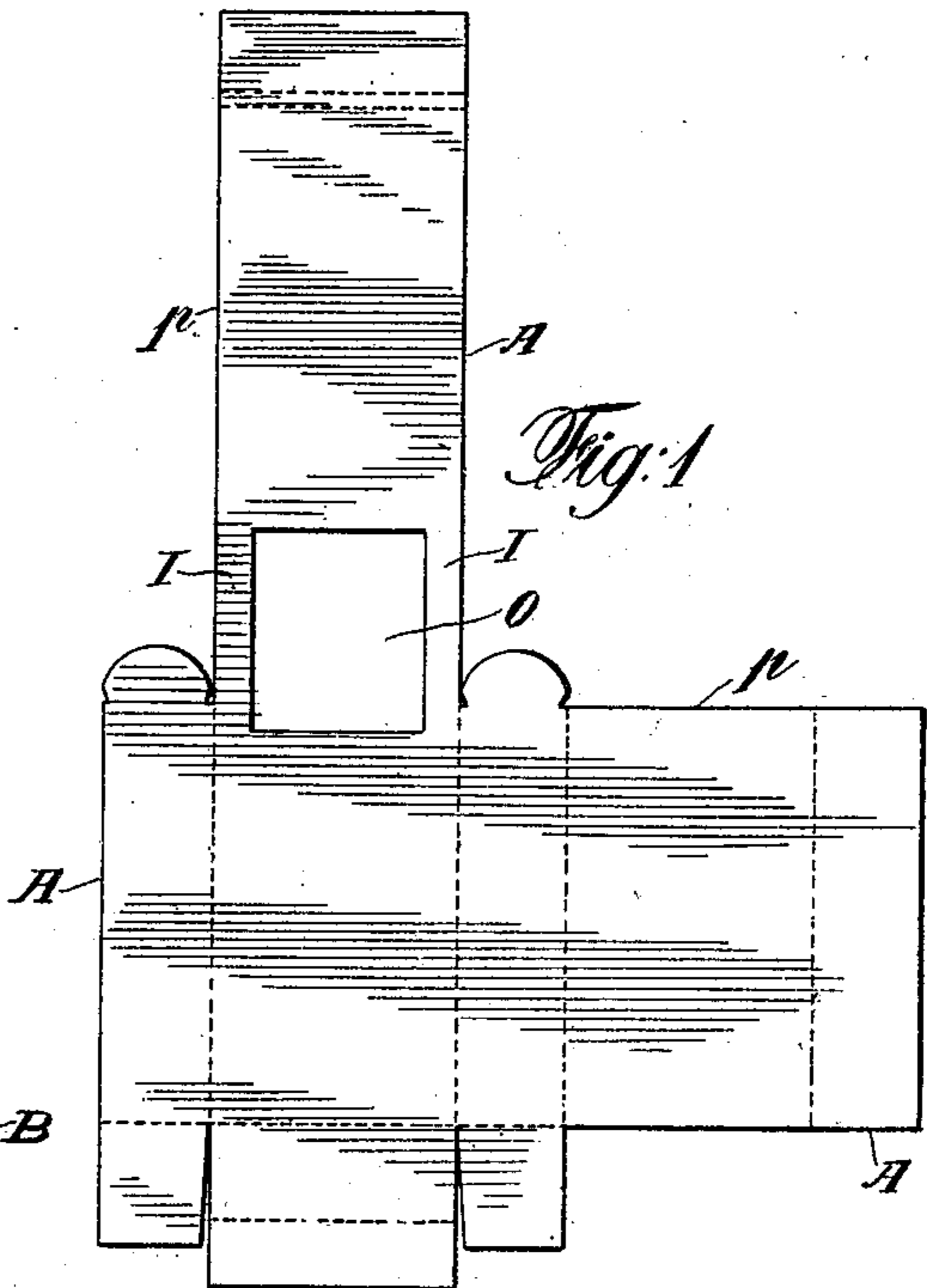
PATENTED AUG. 25, 1908.

APPLICATION FILED JUNE 20, 1906.

3 SHEETS—SHEET 1.



Witnesses
Annie J. Irvine.
Arthur H. Merriam



John M. Walcutt Inventor
By his Attorney Louis Hicke

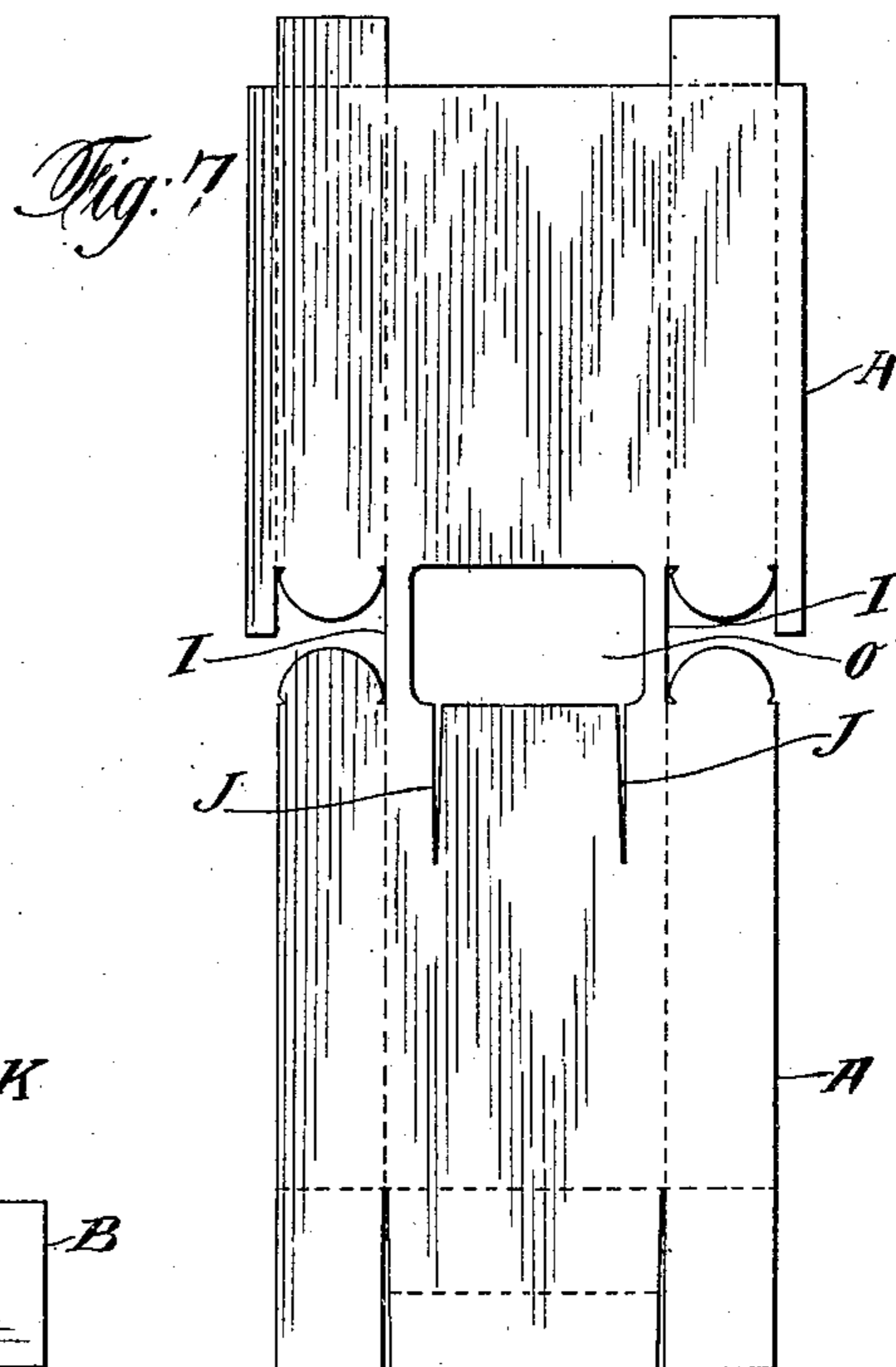
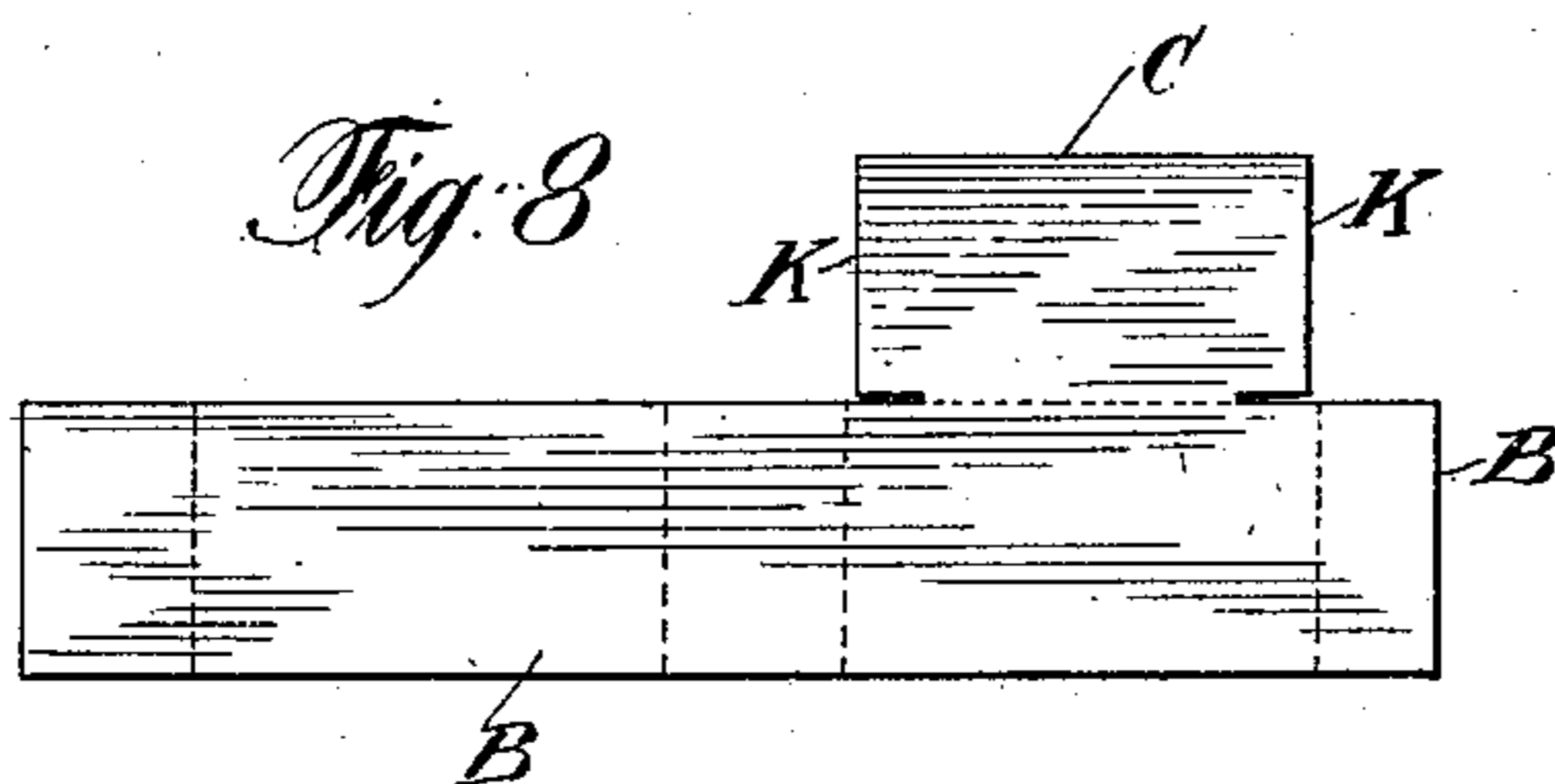
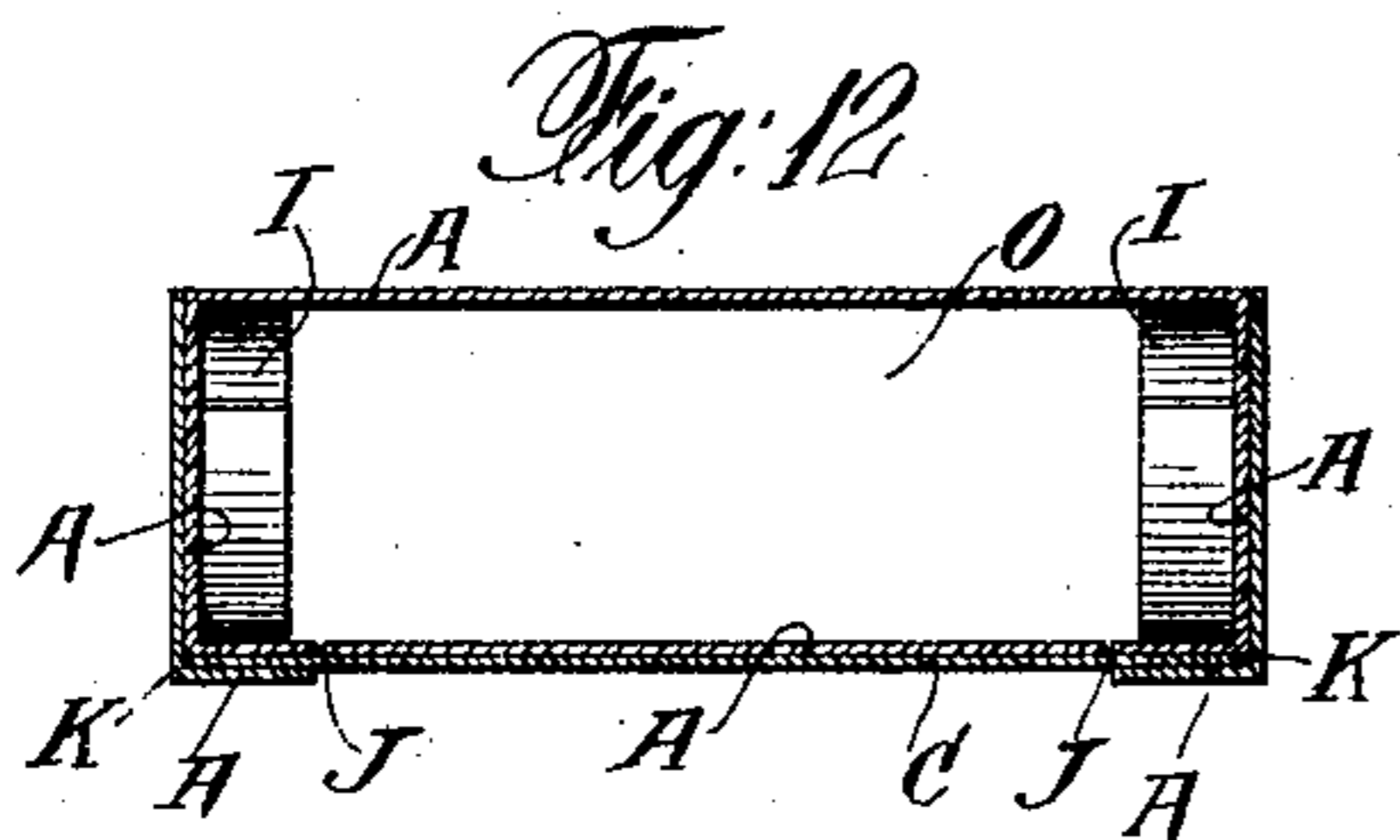
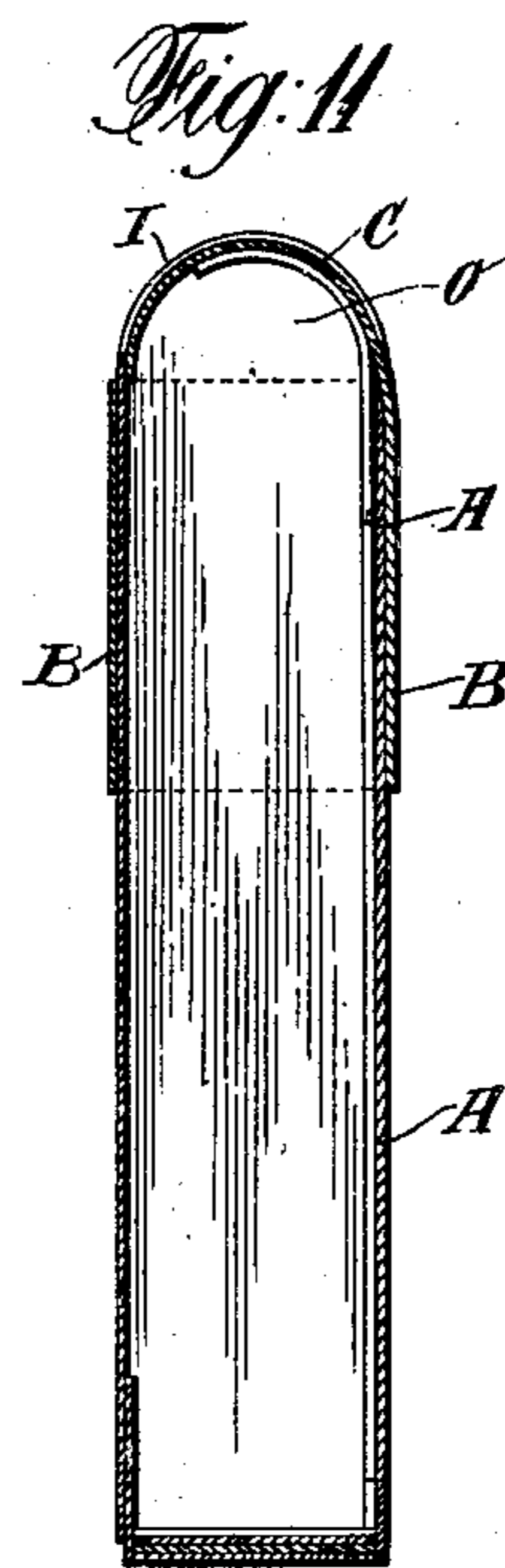
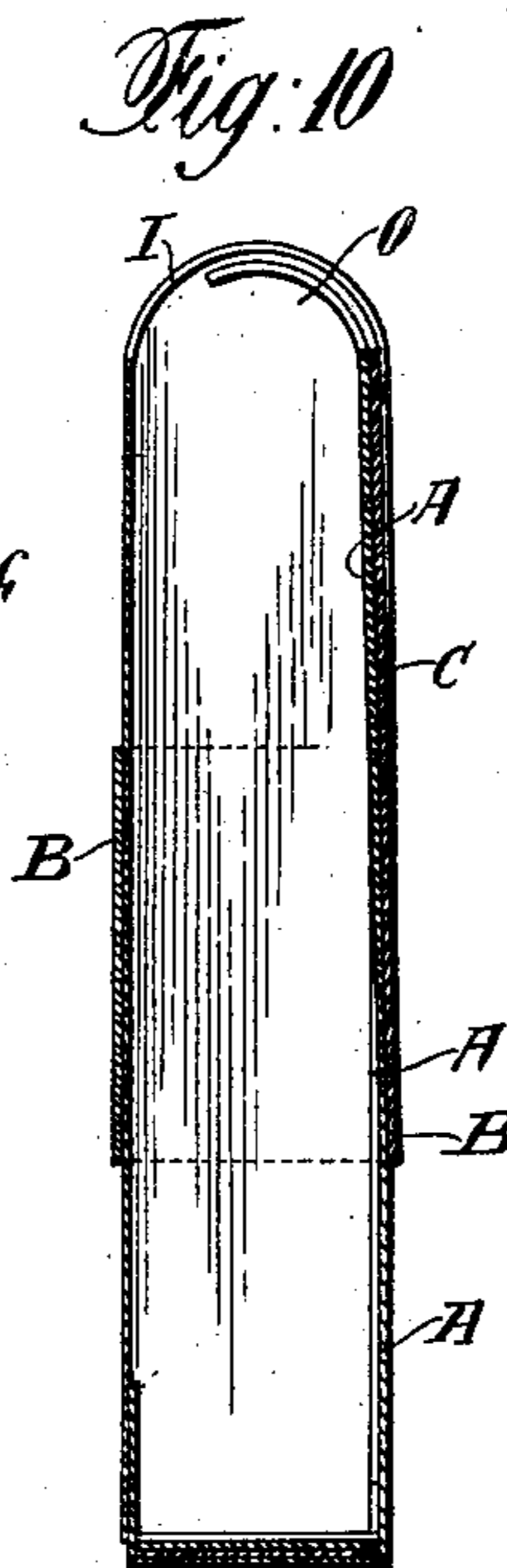
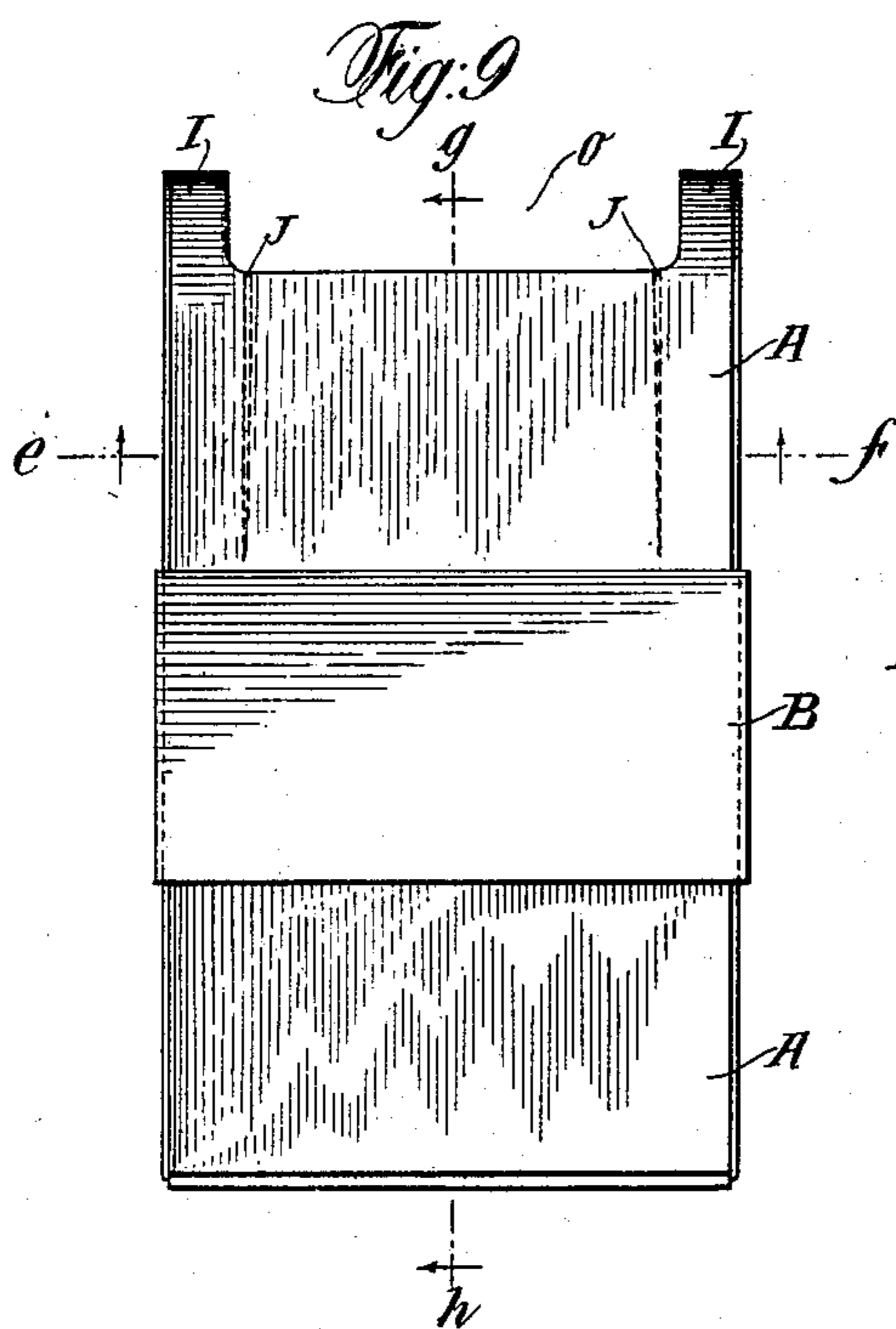
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3 SHEETS—SHEET 2.



Witnesses
Annie J. Irvine.
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No. 896,779.

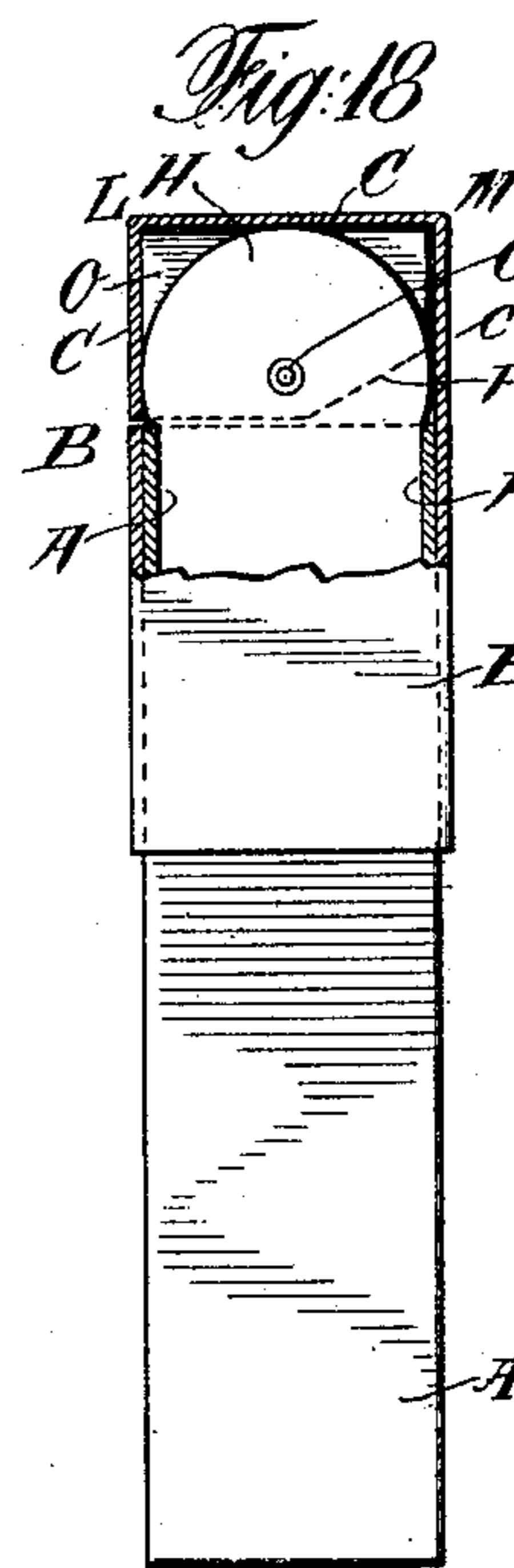
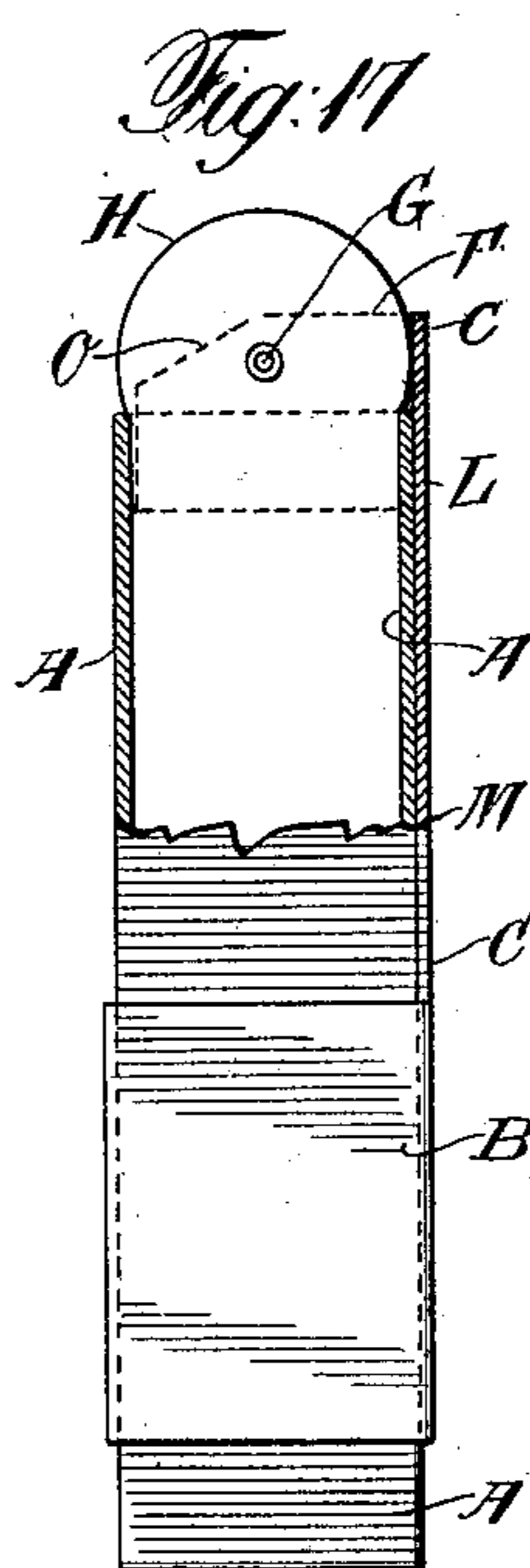
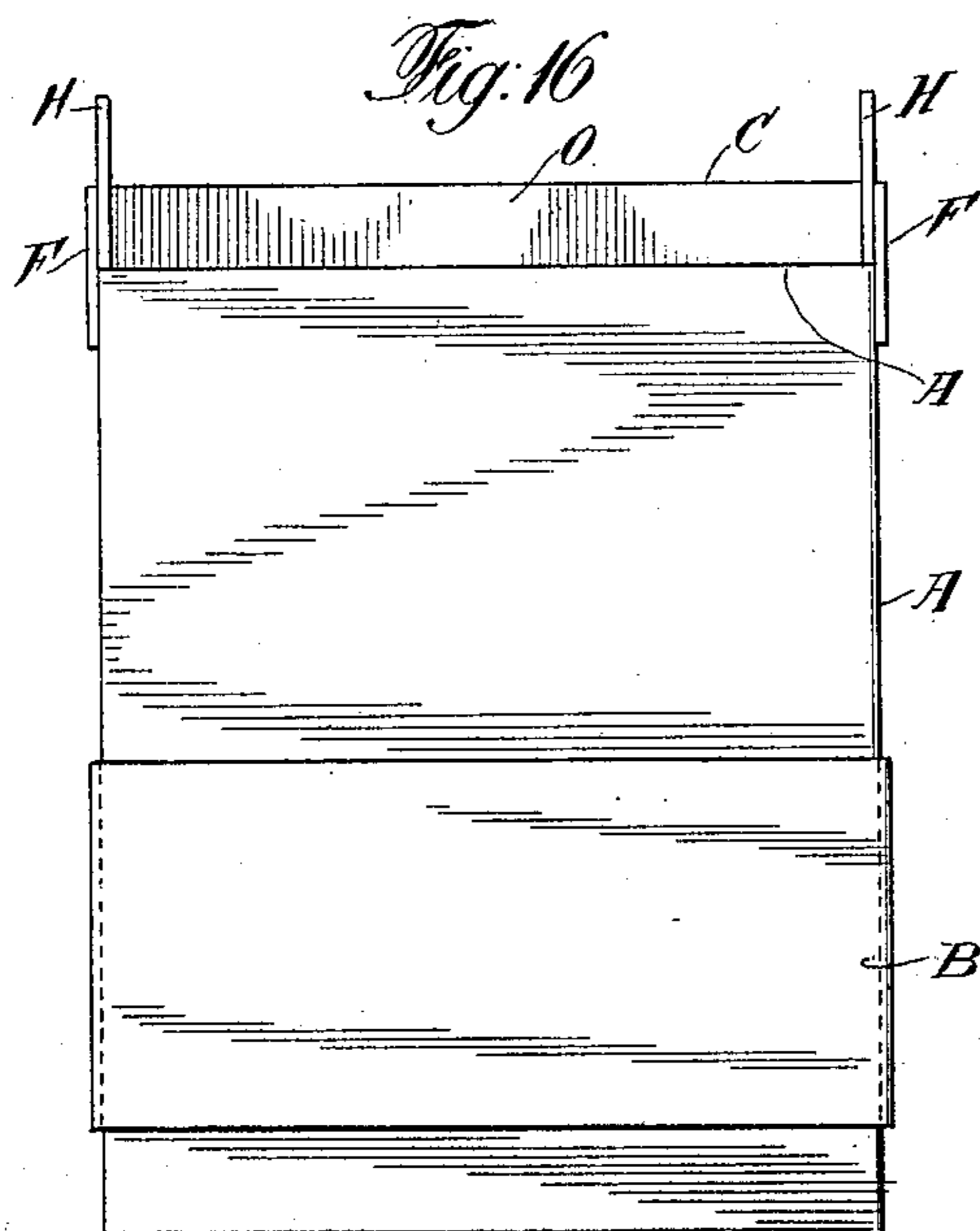
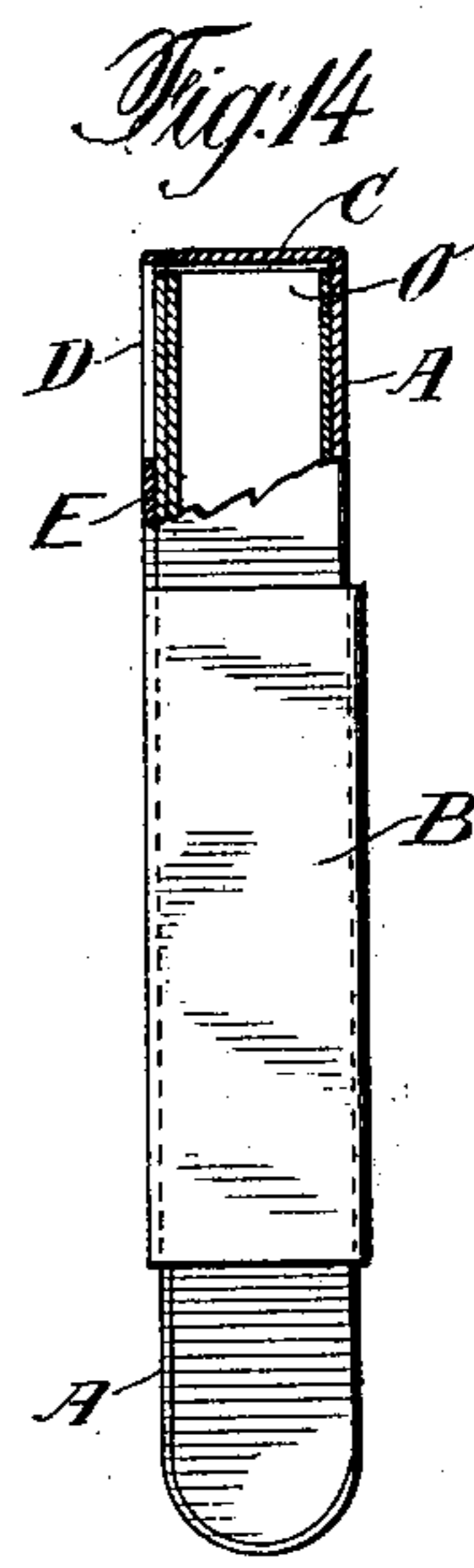
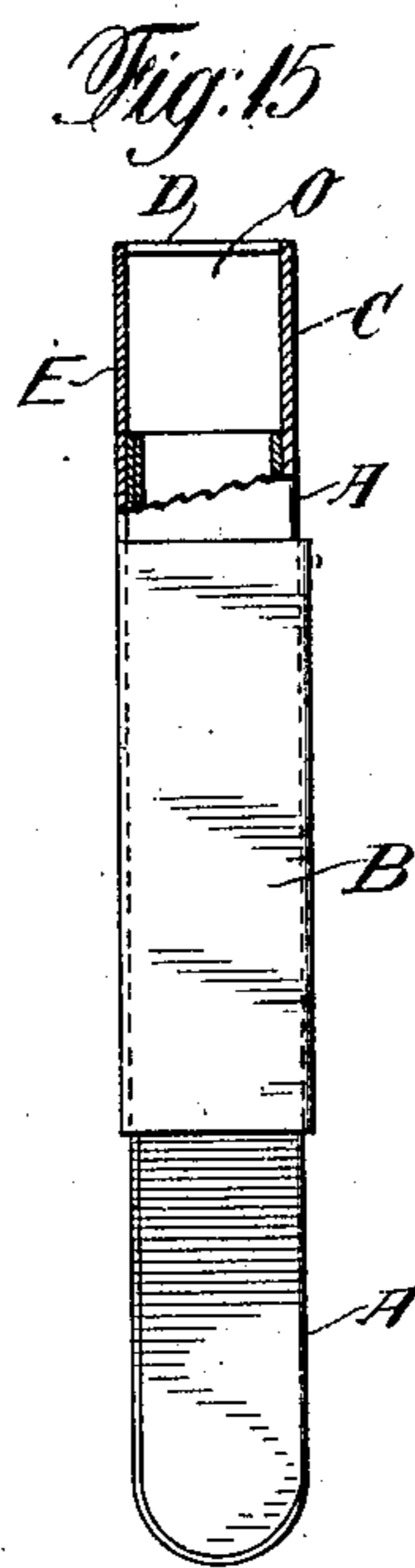
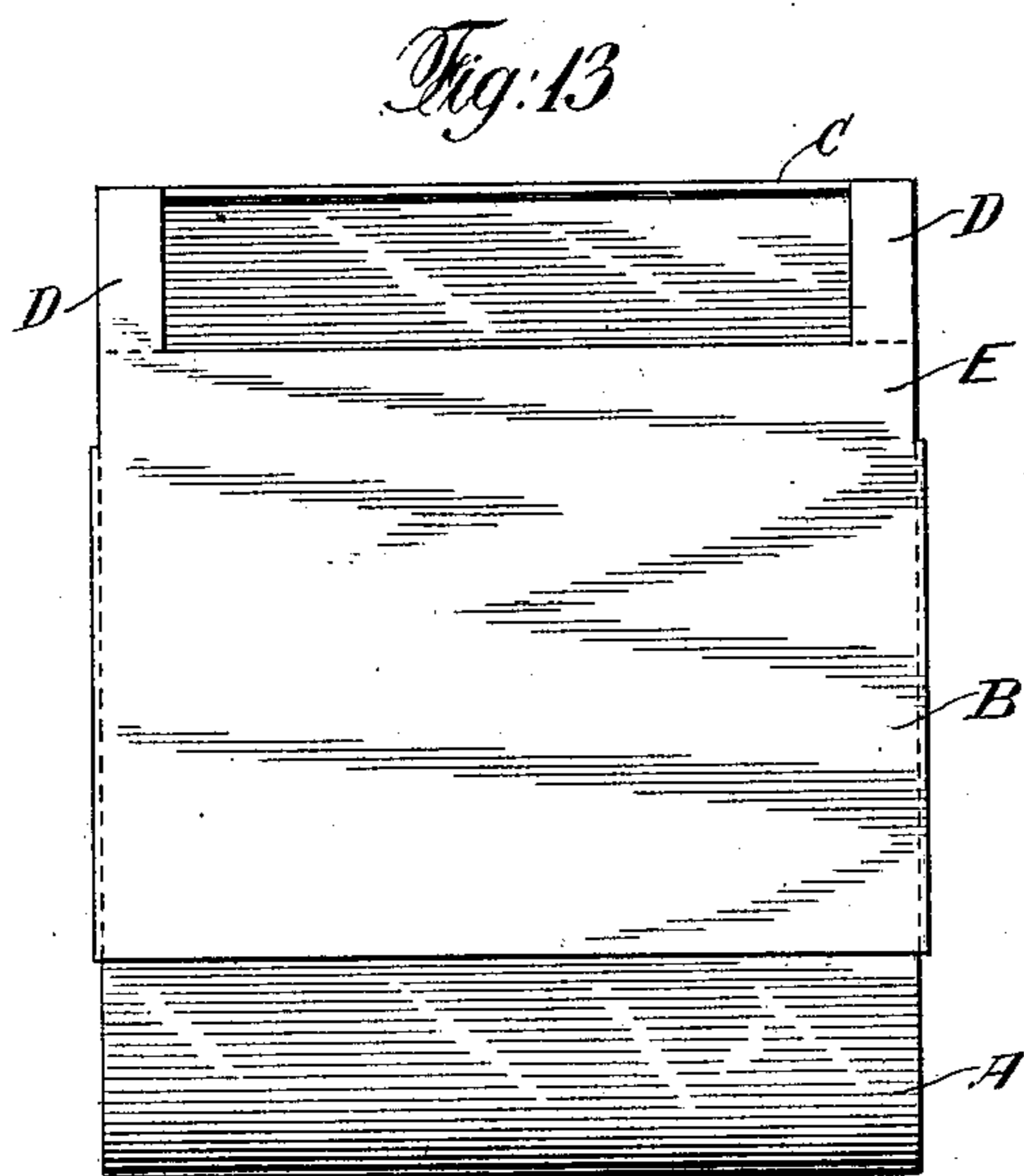
PATENTED AUG. 25, 1908.

J. M. WALCUTT.

CLOSING BOX.

APPLICATION FILED JUNE 20, 1906.

3 SHEETS—SHEET 3.



Witnesses
Annie J. Irvine
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John M. Walcutt Inventor
By his Attorney Louis Hicks

UNITED STATES PATENT OFFICE.

JOHN M. WALCUTT, OF DOUGLASTON, NEW YORK.

CLOSING BOX.

No. 896,779.

Specification of Letters Patent.

Patented Aug. 25, 1908.

Application filed June 20, 1906. Serial No. 322,522.

To all whom it may concern:

Be it known that I, JOHN M. WALCUTT, a citizen of the United States, residing at Douglaston, in the county of Queens and State of New York, have invented a new and useful Improvement in Closing Boxes, of which the following is a specification.

This invention relates to improvements in boxes so constructed, and provided with such means, that they can readily be opened or shut, and has for its object a simple, convenient and economical construction of such boxes in which sliding bands or like movable parts are connected with suitable means for closing or opening the boxes.

This invention is illustrated in the accompanying drawings forming part of this specification in which;—

Figures 1, 2, 3, 4, 5 and 6 show a box constructed according to this invention. Figs. 1 and 2 are plan views of the parts of the box. Fig. 3 is an elevation of the box, closed and partly torn away at the top. Figs. 4 and 5 are vertical sections along the line *a b* in Fig. 3, Fig. 5 showing the box open and Fig. 4 showing the box closed at the top. Fig. 6 shows a horizontal section along the line *c d* of Fig. 3 looking toward the bottom of the box. Figs. 7, 8, 9, 10, 11 and 12 show another box constructed according to this invention. Figs. 7 and 8 are plan views of the parts of the box. Fig. 9 is an elevation of the box, open at the top. Figs. 10 and 11 are vertical sections along the line *g h* of Fig. 9, Fig. 10 showing the box open and Fig. 11 showing the box closed at the top. Fig. 12 shows a horizontal section along the line *e f* of Fig. 9 looking toward the top of the box. Figs. 13, 14 and 15 show another box constructed according to this invention. Fig. 13 is a view of a broad side of the box, showing the box closed at the top. Fig. 14 is a view, partly in section and partly torn away, of a narrow side of the box shown in Fig. 13, showing the box closed at the top. Fig. 15 is a similar view, partly in section and partly torn away, of a narrow side of the box shown in Fig. 13, except that in Fig. 15 the box is shown as being open at the top. Figs. 16, 17 and 18 show another box constructed according to this invention. Fig. 16 is a view of a broad side of the box showing the box open at the top. Fig. 17 is a view, partly in section and partly torn away, of a narrow

side of the box shown in Fig. 16, showing the box open at the top. Fig. 18 is a similar view, partly in section and partly torn away, of a narrow side of the box shown in Fig. 16, except that the box is closed at the top.

In Figs. 3 and 4, in Fig. 11 and in Fig. 18 the sliding band or movable part has been moved over the surface and toward the opening of the box and the box or opening thereof is closed by the cover or suitable means connected with the sliding band or movable part. In Fig. 14 the sliding band or movable part has been moved upon the surface of the box and away from the opening and the box or opening thereof has been closed by the cover or suitable means connected with the sliding band or movable part. In Fig. 5, in Figs. 9 and 10 and in Figs. 16 and 17 the sliding band or movable part has been moved over the surface of the box and away from the opening thereof, and the box has been opened by the removal of the cover or suitable means connected with the sliding band or movable part. In Fig. 15 the sliding band or movable part has been moved upon the surface of the box and toward the opening thereof, and the box has been opened by the elevation and removal of the cover or suitable means connected with the sliding band or movable part.

In the several figures A is the body of the box. The body A of the box is provided at what may be called the top with an opening O.

B is a sliding band or movable part.

C are suitable means, connected with the sliding band or movable part B, for opening and closing the box at the opening O. In the form of box shown in Figs. 1–6 and in Figs. 7–12, the means C for opening and closing the box are attached to, or are an extension of, the movable part or band B. In the form of the box shown in Figs. 13–15, the means C for opening and closing the box are not only attached to the part B by means of the connecting strips D and extension E of the part B, but also are attached to, or are an extension of, the body A of the box.

As shown in Figs. 13–15, all the parts of the box, A, B, C, D and E, may be made in one piece of suitable material.

In the form of box shown in Figs. 16–18, the means C are attached to, or are an extension of, the part B, and in addition are provided with parts F which rotate about

pivots G which serve to connect the rotary parts F to parts H projecting from the body of the box A.

As shown in the several figures of the accompanying drawings, the body A of the box may be, and preferably is, made in one piece of suitable material; and the sliding band or movable part B, together with the means C for opening and closing the box at the opening O, may be, and preferably is, made of one separate piece of suitable material or may be made in the same piece of suitable material of which the body A of the box is made.

In Figs. 16, 17 and 18 the body A of the box is shown as made in one piece and the sliding band or movable part B is also shown as made in one piece with the means C for opening and closing the box, in the manner indicated in Figs. 1 and 2 and in Figs. 7 and 8. In Figs. 13, 14 and 15 all the parts of the box may, as shown, be made in one piece, the part C being an extension of the body A, the strips D being an extension of the part C and the parts E and B being an extension of the strips D and the opening O being cut out between the parts C, D and E.

Whether the sliding band or movable part B and the means C for opening and closing the box are or are not made in one piece of suitable material, the means C constitutes, as shown, for example, in Figs. 2, 8, 14 and 18 of the drawings, an extension of the movable part B, movable in unison therewith.

The several figures of the drawings show the manner in which the parts of the several boxes may be, and preferably are, assembled and adjusted in proper relation or position, and such assembling and adjusting will be readily understood by those skilled in the art to which this invention relates. Figs. 1 and 2 show the two separate pieces of which the box shown in Figs. 1-6 may be made. The dotted lines in Fig. 1 indicate the lines at which the material of the body A, when consisting of a single piece, is to be bent or folded in assembling and adjusting the parts of the box. Similar lines for bending or folding, in like case, are indicated by the dotted lines in Figs. 2, 7 and 8.

Figs. 3, 4, 5 and 6 show the manner in which the parts shown in Figs. 1 and 2 may be bent or folded and assembled and adjusted. Figs. 9, 10, 11 and 12 show the manner in which the parts shown in Figs. 7 and 8 may be bent or folded and assembled and adjusted. Figs. 13, 14 and 15 show the parts of the box there illustrated and the manner in which they have been bent or folded and assembled and adjusted. Figs. 16, 17 and 18 show the parts of the box there illustrated and the manner in which they have been bent or folded and assembled and adjusted.

Where necessary or desirable, as will be well understood, contiguous parts of the box may be glued, pasted or otherwise fastened together. The sliding band or movable part B, together with the means C for opening and closing the box at the opening O must, however, be left free to move and operate as herein described.

The body A of the box and the movable part or band B may be constructed of any material suitable for the construction of boxes, for example, card-board, wood, paper, leather and the like. The means or cover C for opening and closing the box at the opening O may consist of similar material, but in the form of box shown in Figs. 1-6 and in the form of box shown in Figs. 7-12 the means C should consist of flexible material. In Figs. 13-15 the part C may consist of material which is flexible or not flexible. In Figs. 16-18 the part C is preferably somewhat flexible.

Preferably the box opens at the top. As shown in Fig. 5 and in Figs. 16 and 17, the opening O may extend down lower on one side of the box than on the other.

As shown in Figs. 14 and 15 the box may be longer when open than when shut or as shown in Figs. 18 and 17 the box may be longer when shut than when open.

As shown in the several figures of the drawings the movable part or band B may surround and slide or move upon the body A of the box.

The cover or means C for opening and shutting the box at the opening O may consist of a tongue or strip movable with the movable part or band B. The cover C may, as shown in Figs. 4 and 5, be guided in its motion by contiguous parts of the body A of the box. To form the opening O at the top of the box part of the body A may be cut away leaving strips I on each side of the opening O as in Fig. 1, which join together opposite sides of the box.

In Figs. 3, 4 and 5 the strips I have assumed a curved position so that when the cover C moves upward from its position shown in Fig. 5 between the two layers or contiguous parts *pp* of the body A of the box, it is then guided by the strips I at its sides and bends and forms a curved cover for the top of the box at the opening O, as shown in Figs. 3 and 4. Similar strips I join together opposite sides of the box and perform the same functions in the form of box shown in Figs. 7-12.

In the box shown in Figs. 7-12, slits J are cut in one side of the body A of the box into which the sides K of the cover C are inserted, as shown in Fig. 12. The sides K of the cover C and the slits J into which the sides K are inserted guide the cover C as it moves upward from its position shown in Fig. 10, where the box is opened at the top, until the

sides K come in contact with the curved strips I, when, as shown in Fig. 11, the cover C is caused by the strips I to bend and form a curved cover for the top of the box.

5 In Figs. 13-15 the cover C assumes a vertical position as shown in Fig. 15, when the box is open at the top, and a horizontal position, as shown in Figs. 13 and 14, when the box is shut at the top. As the movable
10 part or band B of the box shown in Figs. 13-15 rises it pushes upward with it the extension E and the strips D, which strips D, pressing upon the cover C, cause the cover C to assume the vertical position shown in Fig.
15 15. On the other hand, when the movable part or band is moved downward from its position shown in Fig. 15, it brings with it the extension E and strips D, which strips D cause the cover C to fall and assume a hori-
20 zontal position closing the top of the box, as shown in Fig. 14. In like manner when the movable part of the band B of the box shown in Figs. 16-18 is moved upward from its position shown in Figs. 16 and 17 it causes
25 the cover C to move about the pivots G by aid of the rotary parts F and to assume the position shown in Fig. 18 covering the top of the box.

The cover C of the box shown in Figs. 16-18
30 is so constructed that it will bend preferably at right angles, at the corners L and M when the box is closed at the top, as shown in Fig. 18. If the cover C is made of flexible material, creased or folded along the lines in-
35 dicated at the points L and M in Fig. 17, its parts will bend at the corners L and M of Fig. 18 when the movable part or band B is moved upward so as to close the box at the top, as shown in Fig. 18.

40 From the foregoing description the mode of operation of a box constructed according to this invention will readily be understood, and, as appears therefrom, variation may be made in details without departing from the
45 substance of this invention. By moving the movable part B in the manner described, motion is given to the means C for opening and closing the box and the box is opened or closed as desired.

50 As appears from the drawings and the foregoing description, the sliding band or movable part moves upon or over the surface of the box and toward or away from the opening thereof. The body of the box away
55 from the opening extends below or beyond the sliding band or movable part. The sliding band or movable part is not a box, but the body of the box away from the opening extends through and beyond the sliding band
60 or movable part surrounding it. By reason of this construction, and as is obvious from the drawings and the foregoing description, it is possible to grasp with one hand that
65 part of the body of the box away from the opening which extends beyond the movable

part, and with the other hand freely to move, toward or away from the opening and upon or over the surface of the body of the box, the movable part, thus closing or opening the box as desired.

70

What I claim is;—

1. A box consisting of a body provided with an opening, and a part movable upon the surface of the body toward and away from the opening and provided with an ex-
75 tension movable in unison therewith for closing the box, the body of the box away from the opening extending beyond the movable part, substantially as described.

2. A box consisting of a body provided
80 with an opening, and a band surrounding the body and movable thereon toward and away from the opening and provided with an extension movable in unison therewith for closing the box, the body of the box away from
85 the opening extending through and beyond the movable band surrounding it, substantially as described.

3. A box consisting of a body made in one piece and provided with an opening, and a
90 part movable upon the surface of the body toward and away from the opening and provided with an extension movable in unison therewith for closing the box, the body of the box away from the opening extending be-
95 yond the movable part, substantially as described.

4. A box consisting of a body made in one piece and provided with an opening, and a
100 part surrounding and movable upon the body toward and away from the opening and provided with an extension movable in unison therewith for closing and opening the box, the body of the box away from the opening
105 extending beyond the movable part, substantially as described.

5. A box consisting of a body made in one piece and provided with an opening and of a
110 part movable upon the surface of the body toward and away from the opening and provided with means for closing the box, said part and means being in one piece, the body of the box away from the opening extending
115 beyond the movable part, substantially as described.

6. A box consisting of a body provided with an opening, and a part surrounding and
120 movable upon the body toward and away from the opening and provided with a flexible extension movable in unison therewith for closing and opening the box, the body of the box away from the opening extending
beyond the movable part, substantially as described.

7. A box consisting of a body made in one
125 piece and provided with an opening, and a band surrounding and movable upon the body toward and away from the opening and provided with an extension movable in unison therewith for closing the box, the body
130

of the box away from the opening extending through and beyond the movable band surrounding it, substantially as described.

8. A box consisting of a body provided with an opening, two opposite sides of which are made in one piece, and a part movable upon the surface of the body toward and away from the opening and provided with an extension movable in unison therewith for closing the box, the body of the box away from the opening extending beyond the movable part, substantially as described.

9. A box consisting of a body provided with an opening and with guides for a cover, a part surrounding and movable upon the body toward and away from the opening and means, connected with the movable part and moving in the guides of the body, for closing and opening the box, the body of the box away from the opening extending beyond the movable part, substantially as described.

10. A box consisting of a body made in one piece folded to form the body and provided with an opening, and a part movable upon the body toward and away from the opening, and provided with an extension movable in unison therewith for closing the box, the body of the box away from the opening extending beyond the movable part, substantially as described.

11. A box consisting of a body made in one piece provided with an opening and folded to form the body, and a part surrounding and movable upon the body toward and away from the opening and provided with an extension movable in unison therewith for closing the box, the body of the box away

from the opening extending beyond the movable part, substantially as described.

12. A box consisting of a body provided with an opening and a curved strip on either side of the opening, and a part surrounding and movable upon the body toward and away from the opening and provided with an extension movable in unison therewith for closing the box, the body of the box away from the opening extending beyond the movable part, substantially as described.

13. A box consisting of a body provided with an opening and with two layers of the material of the body upon one side of the body, a part surrounding and movable upon the body and between the two layers toward and away from the opening, and means connected with the movable part for closing the box, the body of the box away from the opening extending beyond the movable part, substantially as described.

14. A box consisting of a body provided with an opening extending further on one side than on another side of the body of the box, and a band surrounding and movable upon the body toward and away from the opening and provided with an extension movable in unison therewith for closing the box, the body of the box away from the opening extending through and beyond the movable band surrounding it, substantially as described.

JOHN M. WALCUTT.

Witnesses:

ANNIE J. IRVINE,
LOUIS HICKS.