

(No Model.)

A. S. KIRBY.

COVER FOR WELLS, CISTERNS, &c.

No. 362,095.

Patented May 3, 1887.

Fig. 1.

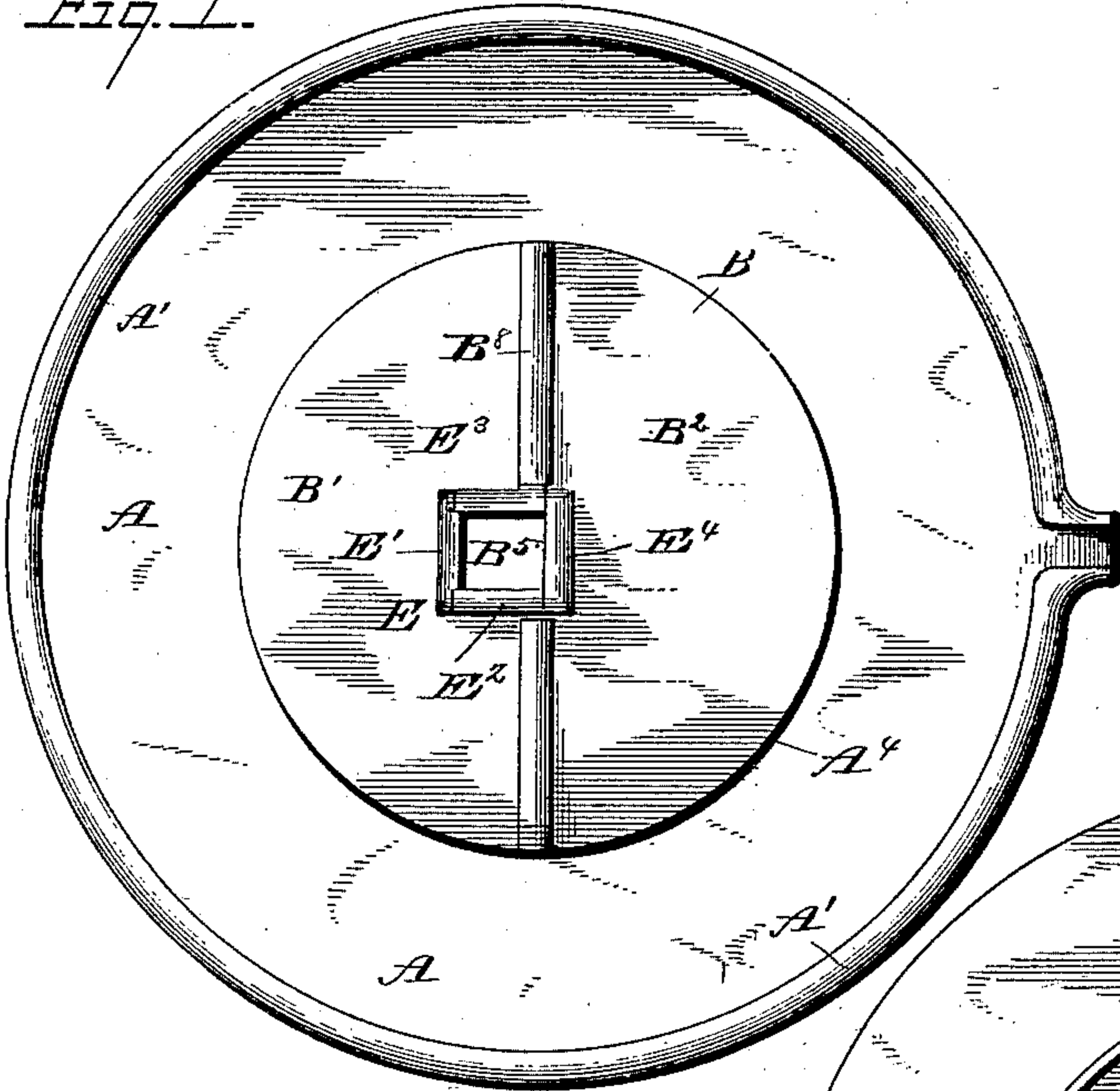


Fig. 4.

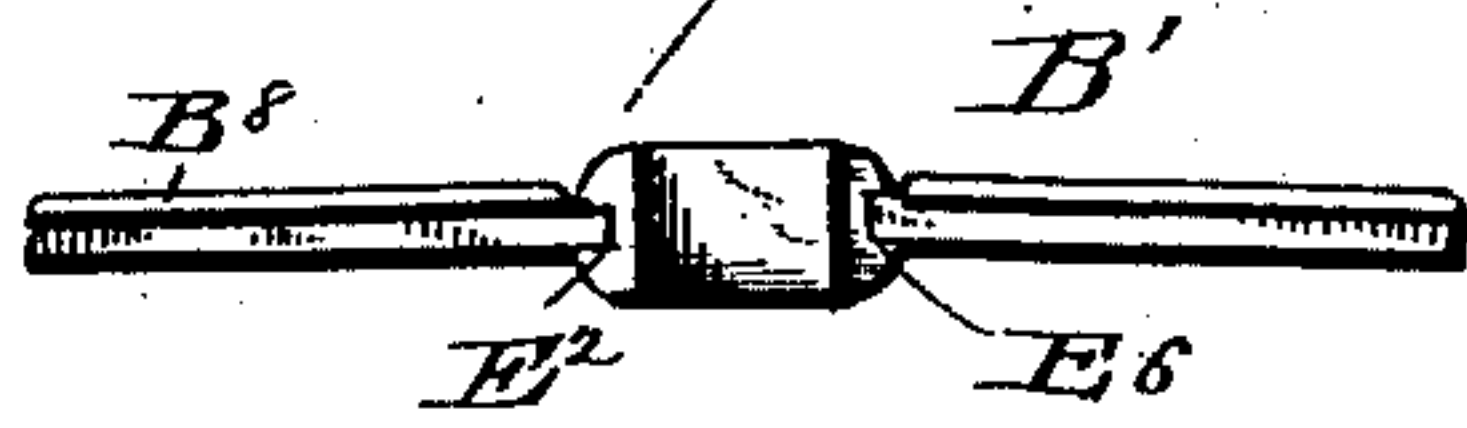


Fig. 5.

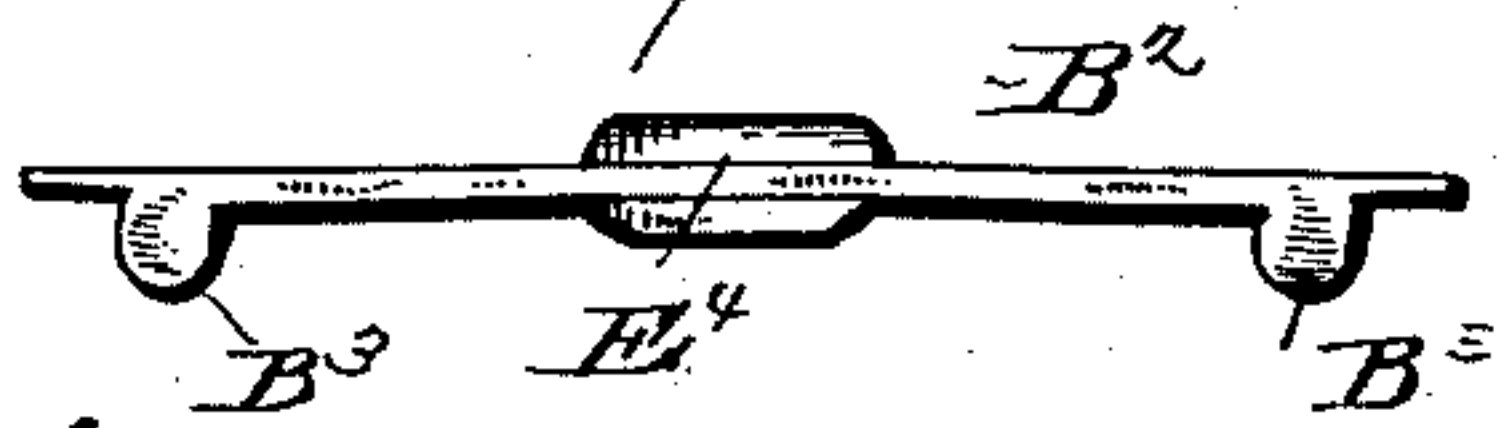


Fig. 2.

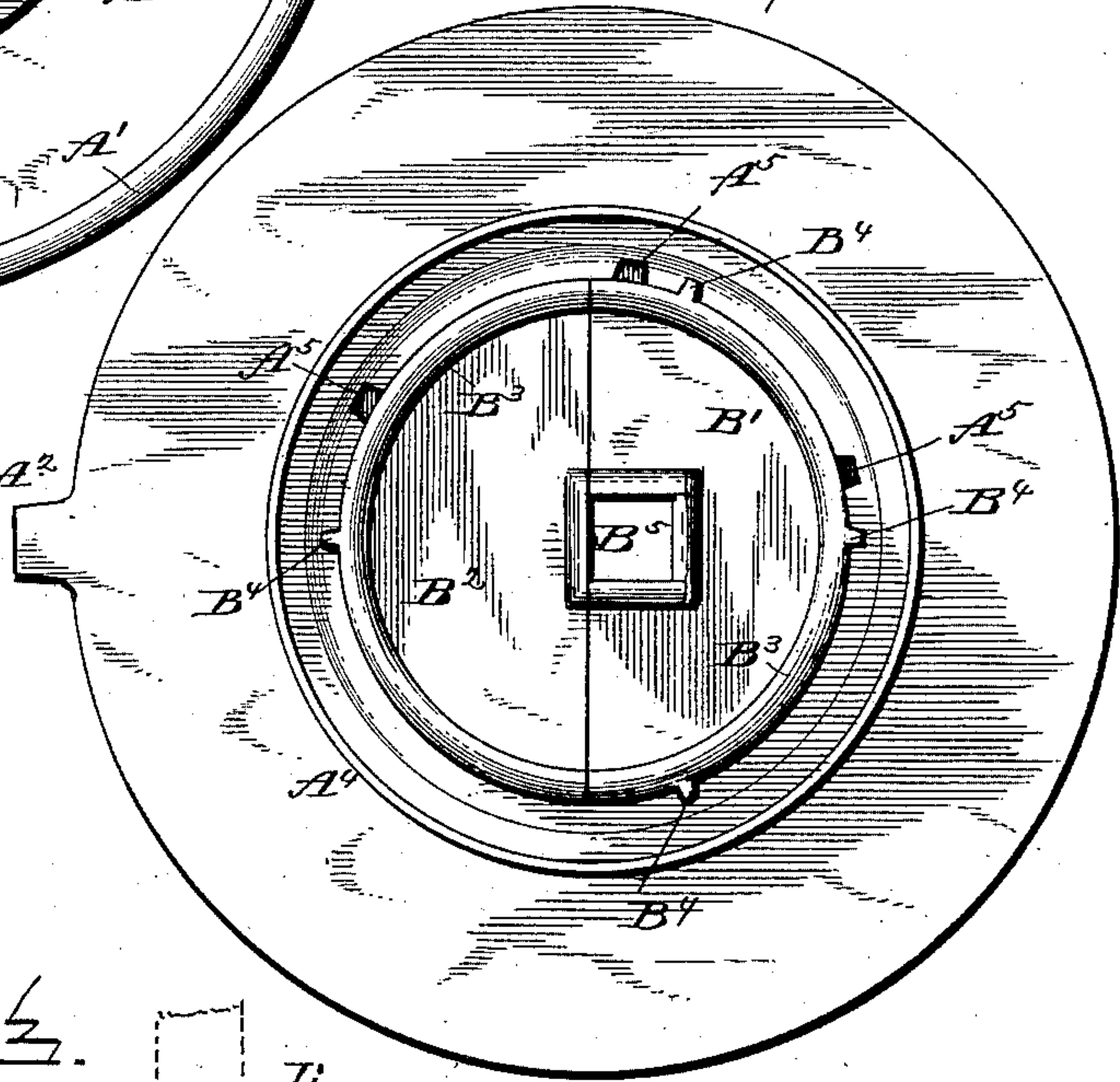


Fig. 6.

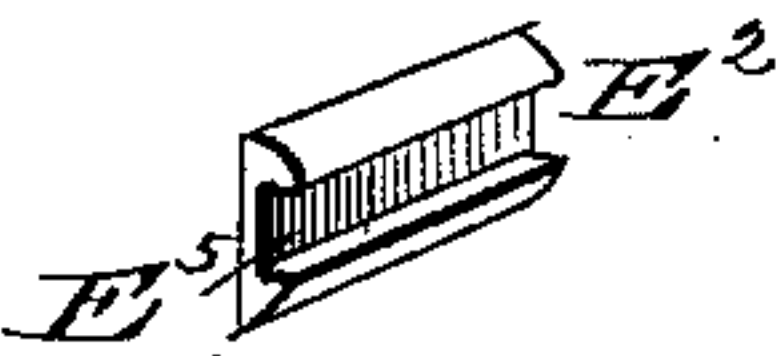
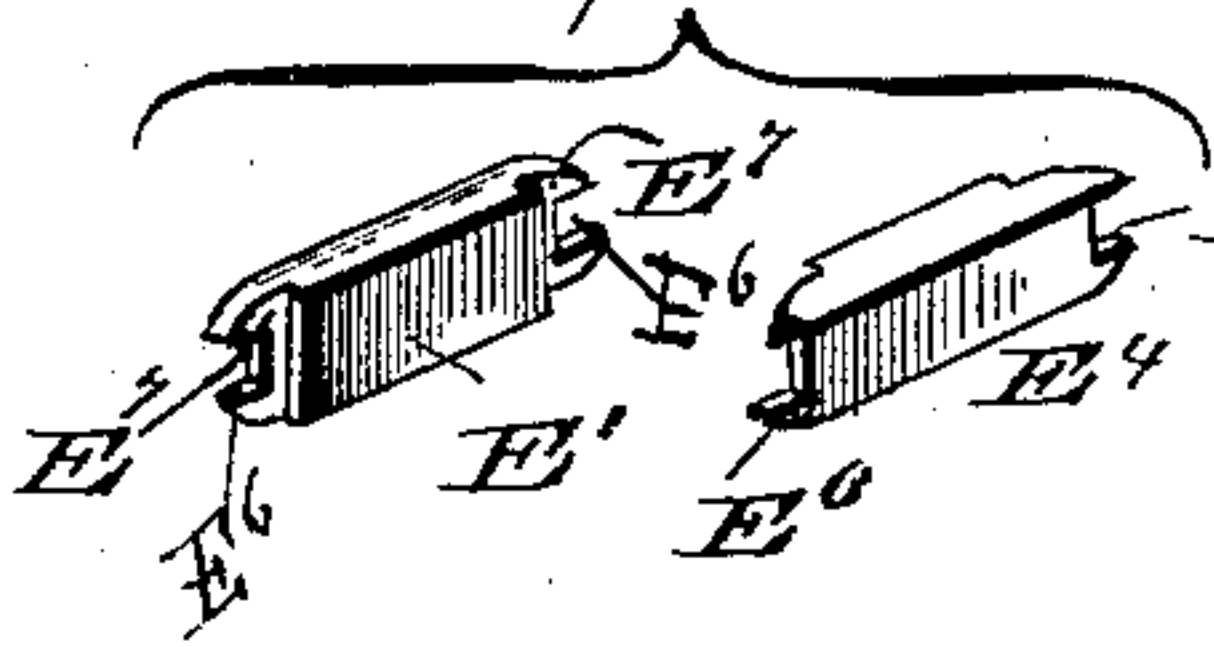
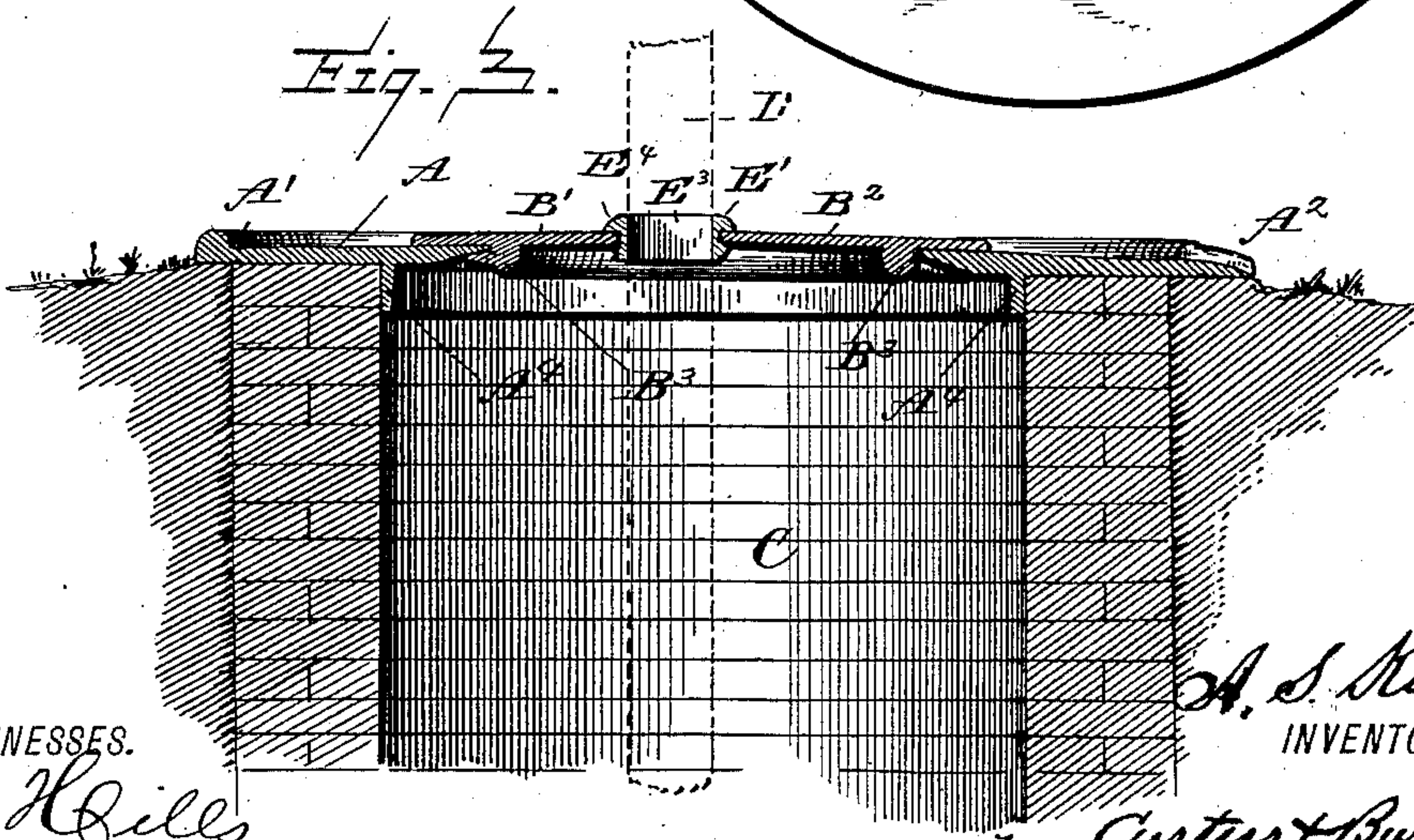


Fig. 3.



WITNESSES.

L. C. Hills
W. S. Darall

A. S. Kirby
INVENTOR.

by *Curtis & Burdett*
Attorneys.

UNITED STATES PATENT OFFICE.

ABNER S. KIRBY, OF FREDERICKTOWN, OHIO.

COVER FOR WELLS, CISTERNS, &c.

SPECIFICATION forming part of Letters Patent No. 362,095, dated May 3, 1887.

Application filed September 4, 1886. Serial No. 212,704. (No model.)

To all whom it may concern:

Be it known that I, ABNER S. KIRBY, a citizen of the United States, residing at Fredericktown, in the county of Knox, State of Ohio, have invented certain new and useful Improvements in Covers for Wells, Cisterns, &c., of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention has relation to covers for wells, cisterns, and other water-receptacles of this character; and the object of the invention is to produce a cover for the above purpose that shall be easy of manufacture, cheap and
15 durable, that may be easily put in position and removed for the purpose of cleaning and repairing the well, and which is readily adapted to receive pumps or other water-elevators of different-sized stocks, or barrels.

20 The invention consists in certain features of construction, hereinafter described, and particularly pointed out in the claims.

Referring to the drawings, Figure 1 is a plan, and Fig. 2 a bottom plan, of a well-cover
25 constructed in accordance with my invention. Fig. 3 represents a well in section with my cover in position thereon. Figs. 4, 5, and 6 are details, hereinafter described.

Like letters indicate like parts in all the figures of the drawings.

30 The cover as an entirety consists of two separable circular cast or wrought iron castings, A B. The cover A, which may be either round or square, and which is stationary upon the wall
35 of a well, is formed with a bead or flange, A', and a spout, A², and is higher or gradually inclined upwardly toward its center, thereby forming a water-shed. The center of the cover is formed with an annular opening, and upon
40 its under surface is formed a depending collar, A³, adapted to snugly fit within the walls C of a well, the edge of the cover extending beyond said walls to a desired distance. This cover
45 when placed upon the walls of a well is stationary, and is held in place by means of the depending flange or collar A³, which is embraced by the walls. If desired, however, other means—such as spikes—may be used for aiding the collar in retaining the cover in proper
50 position, although such devices are not considered necessary.

Adapted to fit the annular opening in the stationary cover A is a removable cover, B, formed of cast or wrought iron, and consisting of two sections, B' B², said sections, when placed
55 together, forming a circular cover, and upon the under surface of each of the sections, and near the edge thereof, is formed a depending flange, B³, upon which are formed outwardly-extending lugs B⁴, which are below the top plane
60 of the cover A, and are adapted to take under the chamfered edge of its annular opening. Recesses or notches A⁵ are formed in the edge of the opening, corresponding in size, number, and location with the lugs B⁴ in the section B',
65 upon which, in this instance, there are four. One of the sections—in this instance the section B'—is provided with a recess or cut-out portion, B⁵, for the passage therethrough of the
70 pump-stock or other water-elevating device D, (see dotted lines, Fig. 3,) and although herein illustrated as square, it is apparent that it may be round or any other form in cross-section, in accordance with the character of
75 water-elevating device employed in connection therewith.

For the purpose of preventing the pump-stock or other portion of the water-elevator which passes through the cover from becoming
80 worn by the edges of the plate or cover B and decayed by water stagnating therearound, and for preventing waste water from running back into the well through said aperture, and also to provide means whereby the recess B⁵ may
85 be made to fit any size pump-stock, I provide an interchangeable, removable, cast or wrought iron collar, E, which, as it is square in this instance, is composed of four separate sections, E' E² E³ E⁴, or it may be composed of any number of sections, two being convenient when the
90 pump-stock is circular. The section E⁴ may, if desired, be cast integral with the cover-section B², as may also the remainder of the collar be cast with the companion section, if found practicable—for instance, where covers of this
95 character are being manufactured for a certain make of pump where the size of its barrel or stock is uniformly the same. These collar-sections are provided with central longitudinal grooves E⁵, (see Fig. 6,) which are adapted to
100 embrace the edge of the opening B⁵, and are formed with a mortise or other suitable joint

at their ends, whereby they are held in position. Opposite ends of the opposite sections E' E⁴ may also not only be notched, as at E⁶, to embrace the edges of the cover B, but also mortised, as at E⁷, to receive the ends of the sections E² E³. Thicker or thinner collars may be used, to increase or diminish the size of the recess B⁵.

From the above description it is apparent that any ordinary pump may be used, and that by sliding the cover B around until the lugs B⁴ of the section B' register with the recesses A⁵ said section may be removed for any purpose—such as cleaning or repairing the well or pump, &c.—without the necessity of removing the entire cover or pump. It is also apparent that water drawn from the well and not caught will run down the inclined covers to the flange A', and may be conducted from the spout or lip A² to a sewer, gutter, or any waste-water receptacle. By the use of this cover not only is water prevented from re-entering the well, but also dirt and other objectionable refuse of all kinds, and a safe cover is provided, whereby accidents of various kinds are obviated.

By reason of the tightly-fitting cover the naturally warm air in winter in the well is retained, whereby ice is prevented from forming upon the cover.

A strip, B⁸, may be cast upon one of the sections of the cover B, to prevent the re-entering of water at that point, or any desired overlapping joint may be formed, as desired.

Having described my invention and its operation, what I claim is—

1. The combination of a stationary cover formed with an opening with an independent removable cover adapted to fit said opening, and provided with a pump-stock recess having removable collars, whereby the recess is adapted for different-sized pumps, substantially as specified.

2. The combination of the stationary cover A, having flanges A' A⁴ and provided with an opening and recesses A⁵, of the cover B, made in sections B' B² and having opening B⁵, flange B³, and lugs B⁴, substantially as specified.

3. The covers A and B, the latter formed with the recess B⁵, in combination with removable collar-sections mortised at their corners, substantially as specified.

4. The collar-sections E' E² E³ E⁴, having groove E⁶ and mortised or locking ends B⁷, in combination with a well-cover provided with a pump-stock receiving aperture, as B⁵, and with a pump or other water-elevating device, as D, substantially as specified.

5. In a well-cover, and as a means for adapting stock-recesses to different-sized stocks, removable collar-sections grooved to embrace the cover and shouldered to receive the end of an adjacent section, substantially as specified.

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

ABNER S. KIRBY.

Witnesses:

B. F. MORSE,

MORRIS HAGERTY.