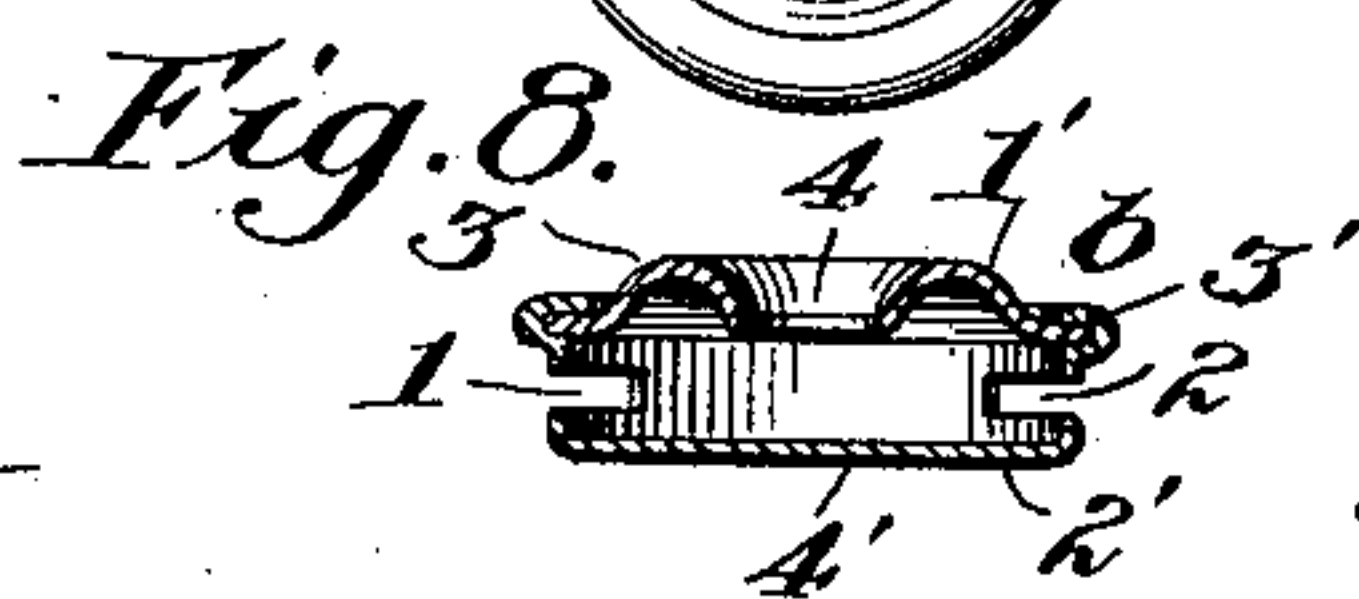
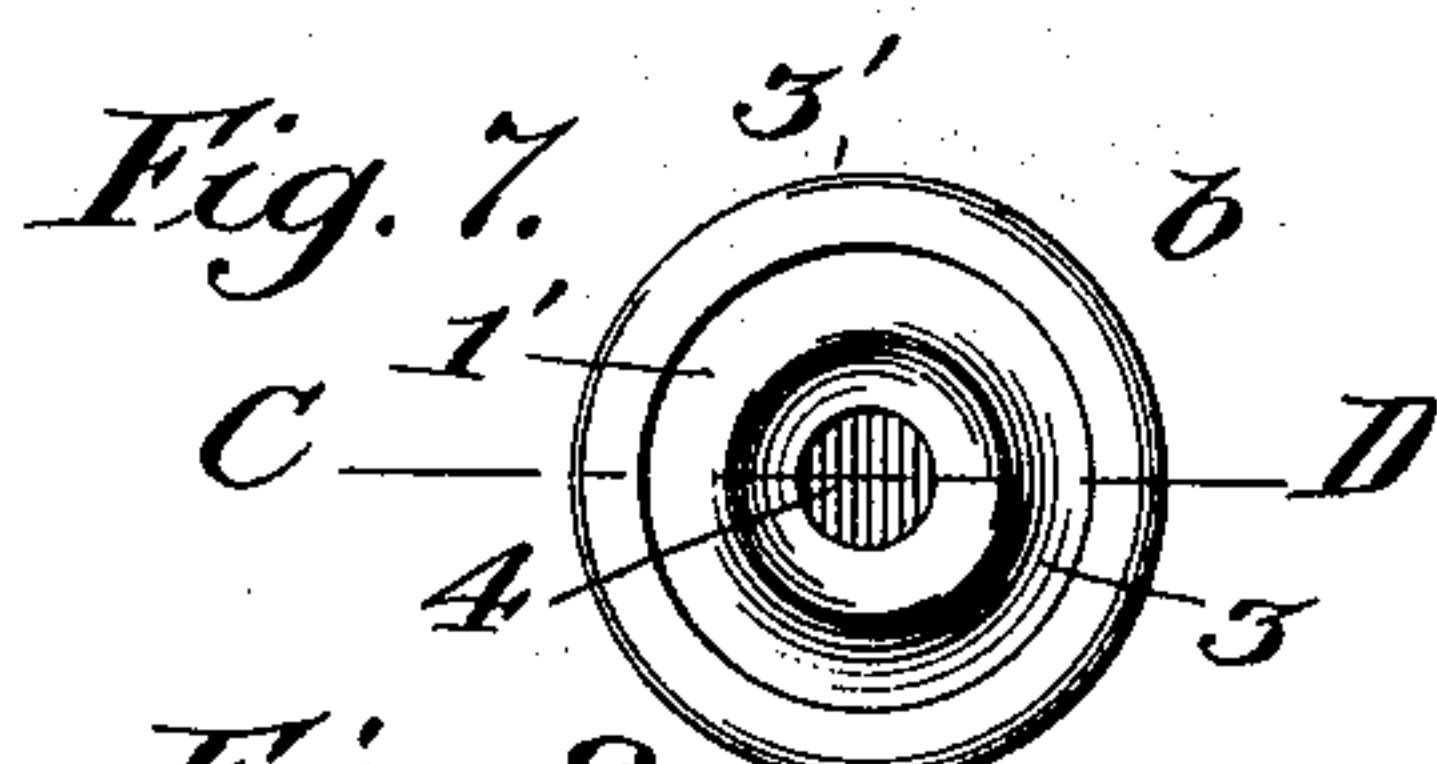
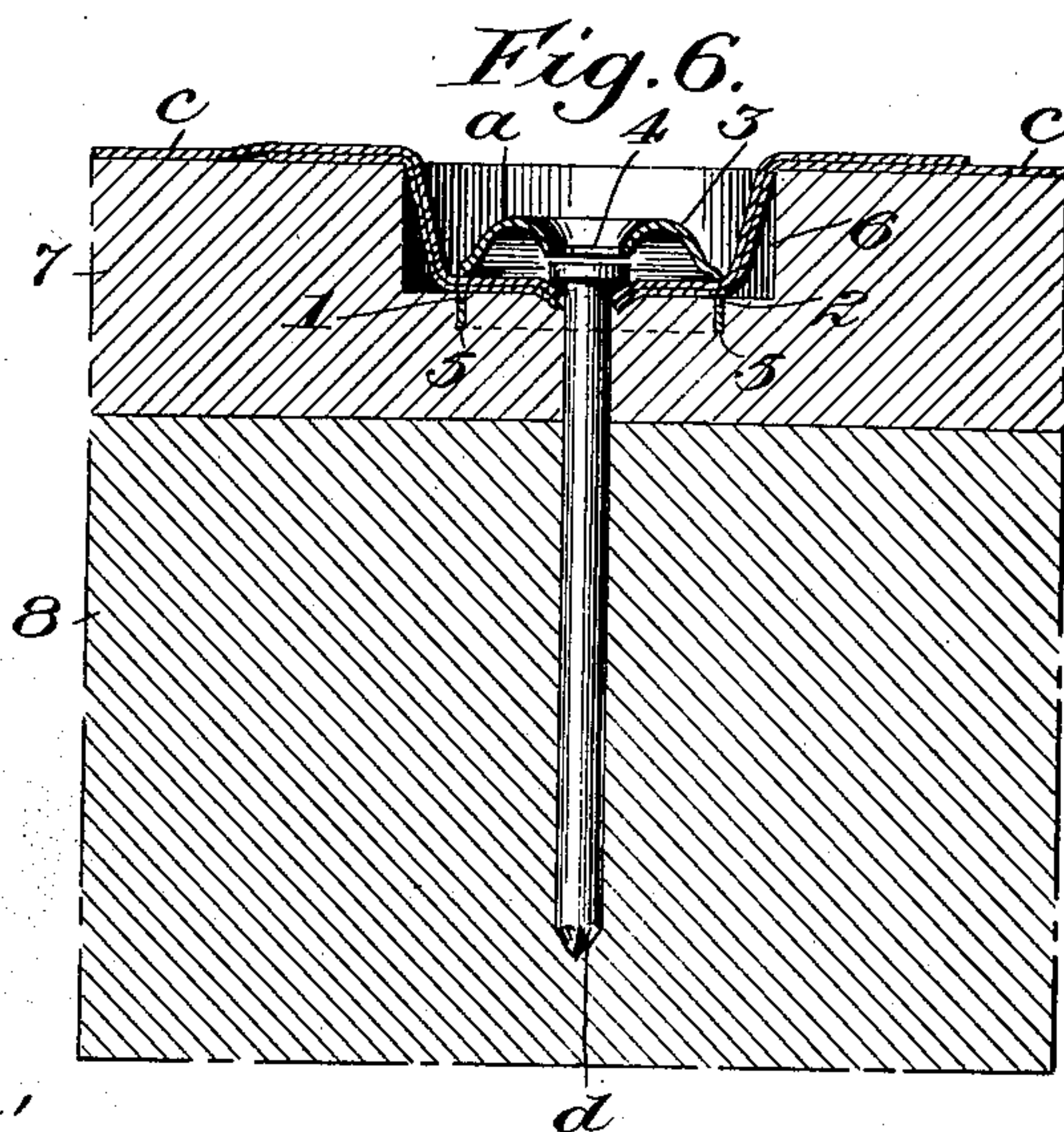
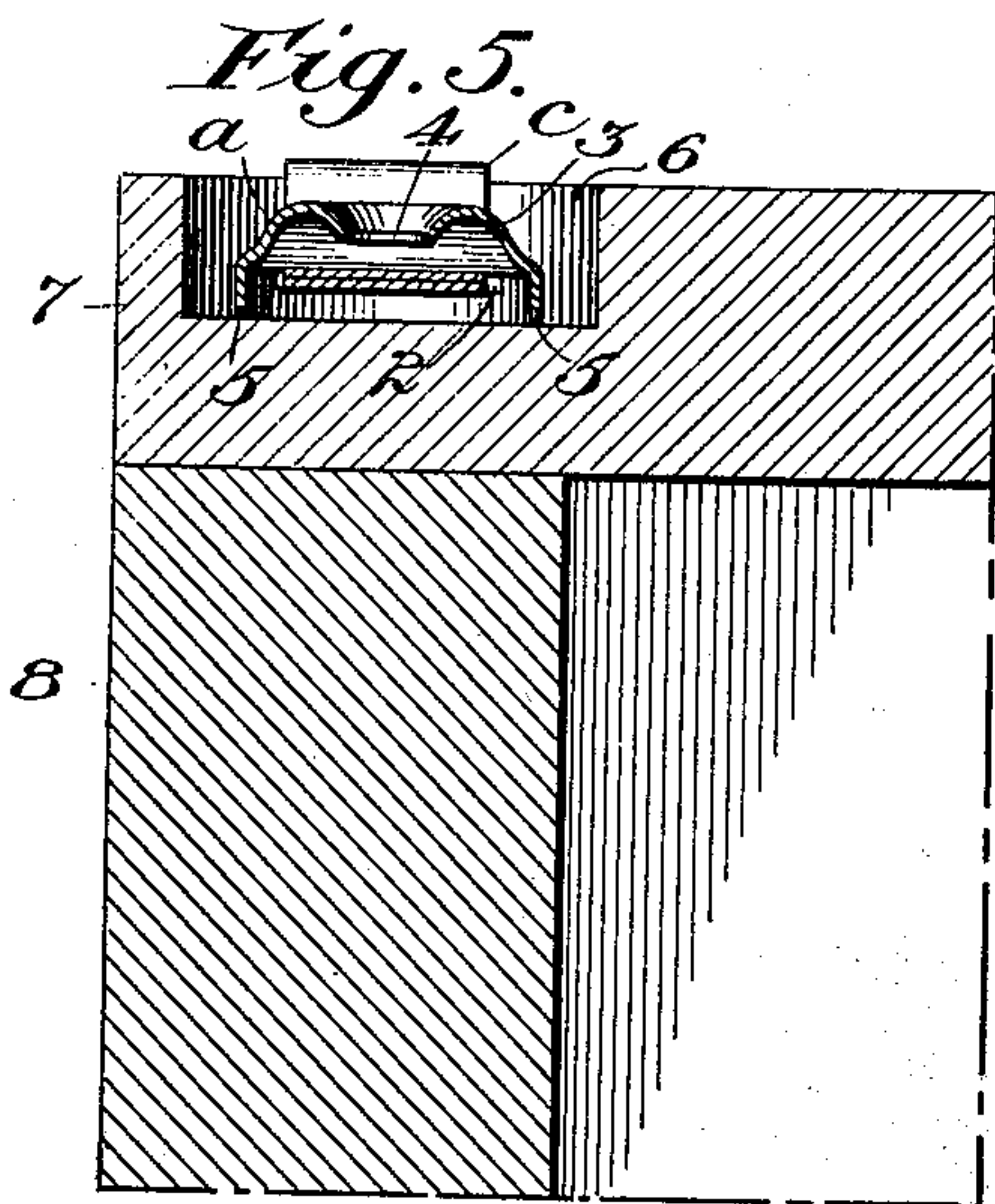
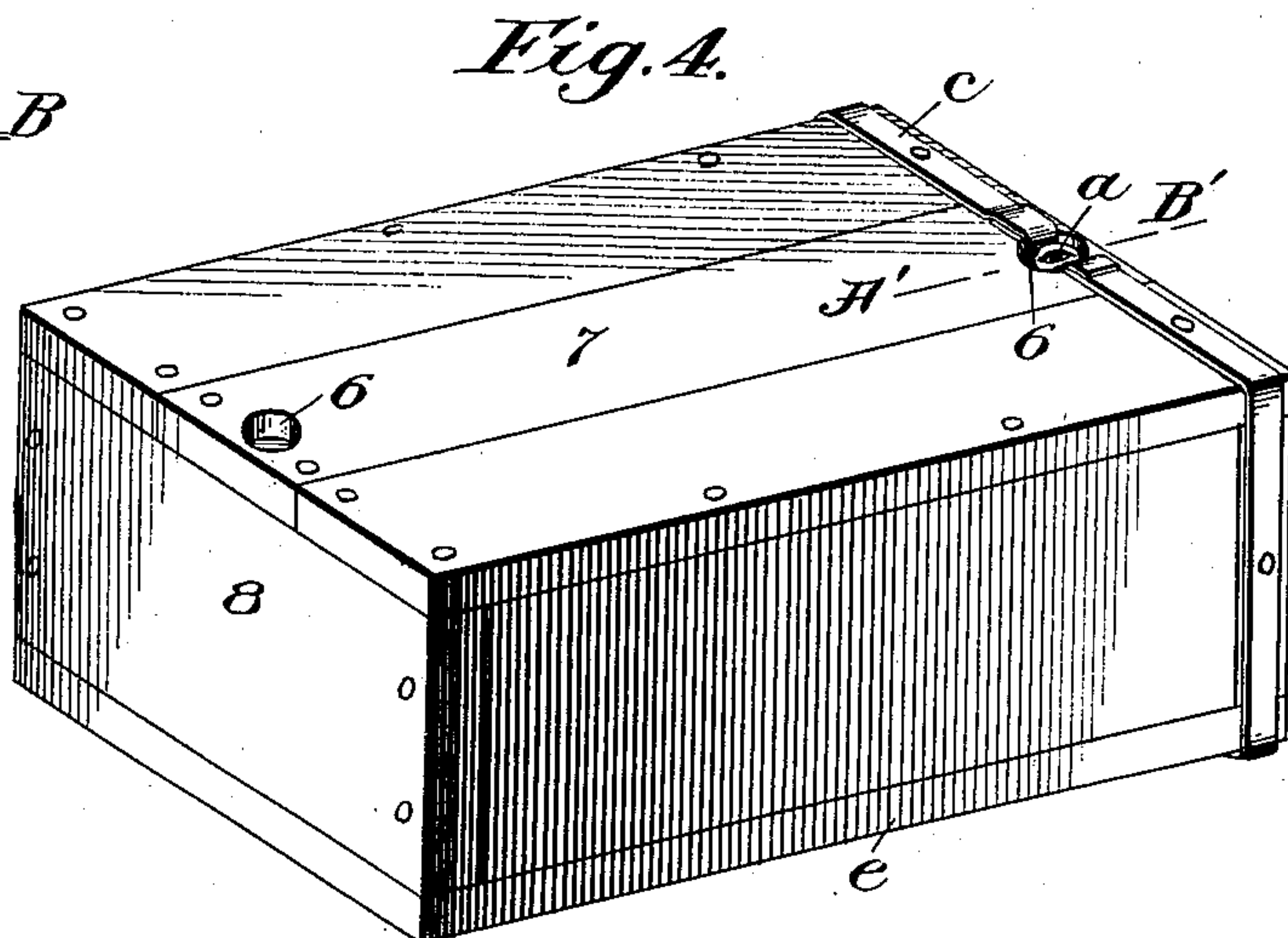
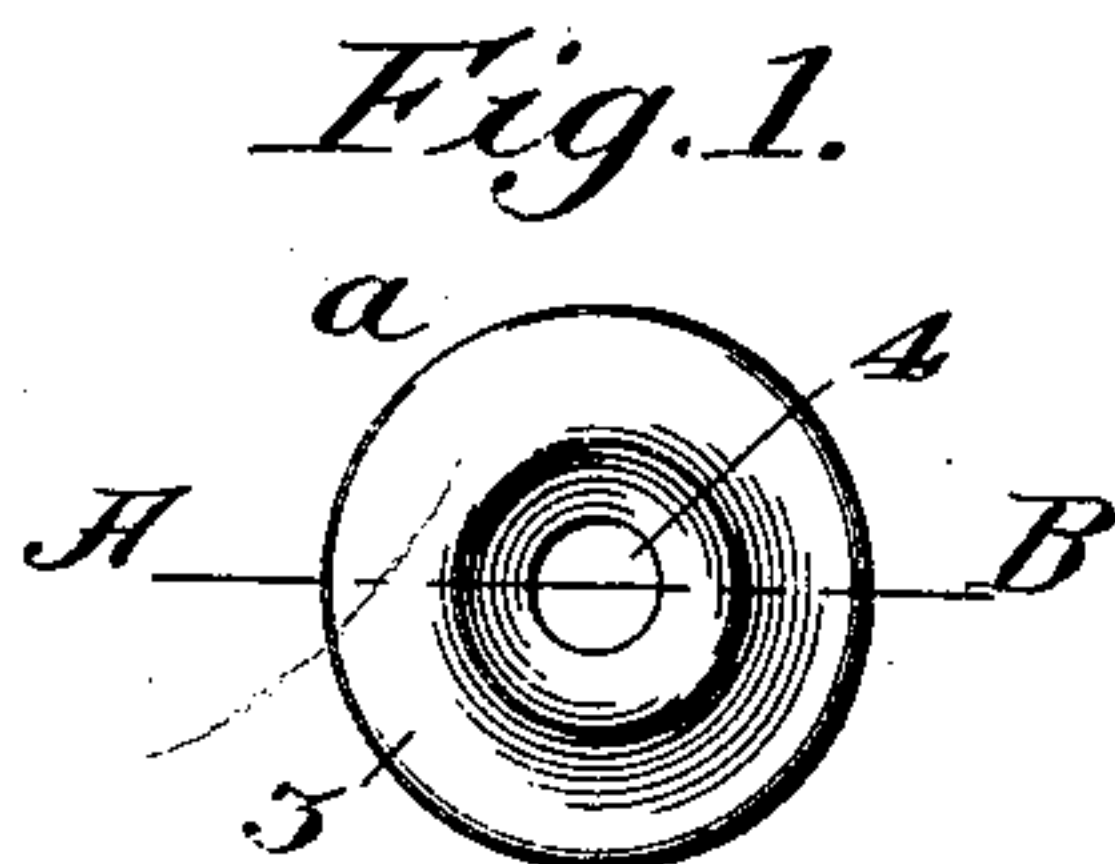


No. 847,276.

PATENTED MAR. 12, 1907.

E. J. BROOKS.
SEAL FOR BOXES.
APPLICATION FILED JAN. 23, 1907.



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UNITED STATES PATENT OFFICE.

EDWARD J. BROOKS, OF EAST ORANGE, NEW JERSEY.

SEAL FOR BOXES.

No. 847,276.

Specification of Letters Patent.

Patented March 12, 1907.

Application filed January 23, 1907. Serial No. 353,666.

To all whom it may concern:

Be it known that I, EDWARD J. BROOKS, a citizen of the United States of America, and a resident of East Orange, in the State of New Jersey, have invented a new and useful Improvement in Seals for Boxes, of which the following is a specification.

This invention relates to devices for sealing wooden boxes used as packing-cases for shipping goods.

It consists in a seal part of novel construction and its combination with a box-strap and a suitable nail adapted to be driven through the strap ends and to be protected against withdrawal by the seal part.

The invention is additional to my improvements in box-seals set forth in United States Letters Patent No. 822,577, dated June 5, 1906, and Nos. 837,788 and 837,789, dated December 4, 1906. As regards the combination of the seal part with the ends of a box-strap, the present improvements most nearly resemble that of said Letters Patent No. 822,577, and its leading objects are to adapt a seal part so used to protect the head of the nail in the manner set forth in said Letters Patent No. 837,788, and at the same time to render the seal part more simple and efficient.

A sheet of drawings accompanies this specification as part thereof.

Figures 1 and 2 of the drawings are respectively top and edge views of a preferred form of the improved seal part. Fig. 3 represents a section on the line A B, Fig. 1. Fig. 4 is a perspective view of a packing-case in process of being sealed according to the present invention. Fig. 5 represents a section on the line A' B', Fig. 4, on the same scale as Figs. 1 to 3, and showing the parts as they appear before the nail is driven. Fig. 6 represents a section at right angles to the plane of Fig. 5 with the nail driven home and protected by the seal part. Fig. 7 is a top view of a modified seal part, and Fig. 8 represents a section on the line C D, Fig. 7.

Like reference characters refer to like parts in all the figures.

The seal parts *a* and *b* are constructed in common with side walls provided with slots 1 and 2, through which both ends of a suitable flat box-strap *c* may be freely passed, as in Fig. 5, and with an upper portion 3 of each seal part having a central hole 4 of a size closely fitted to that of the head of the nail *d*, in connection with which the seal part is to be used and struck up concentric with this

hole so as to facilitate inserting the nail and to adapt the same to admit the head of the nail beneath a continuous downturned edge surrounding said hole 4, as in Fig. 6, said edge being located above the plane of said slots, as shown in Figs. 3, 5, 6, and 7. The seal part *a* or *b* should be made of relatively heavy sheet metal, such as XXX tin, (tin-plate,) or of a suitable grade of sheet-iron, so as to adapt the same to be slotted as above described.

In the species represented by Figs. 1 to 6, inclusive, the seal part *a* is struck up in one piece from the flat sheet metal, and includes a continuous sharp bottom edge 5, adapted to be driven into the wood, as in Fig. 6, when the nail *d* is driven through the ends of the box-strap *c*.

In the species represented by Figs. 7 and 8 the seal part *b* is composed of two pieces 1' and 2', permanently united with each other by a circumferential joint 3', which adapts the seal part to be made with a bottom 4', through which the nail *d* must be driven at the sealing operation.

The packing case or box *e*, Figs. 4-6, may be of any rectangular form and of ordinary construction apart from suitable recesses 6 in the cover of the box or one of its boards, adapted to admit a seal part *a* or *b* for each box-strap *c* at a point where the cover or one of its boards 7 overlaps an end board 8, so that when the ends of the strap *c* are threaded through the seal part and the same is pressed into one of such recesses 6, as in Fig. 5, the nail *d* may be driven through both strap ends and through the cover-board 7 into such end board 8, as in Fig. 6. The nail may be driven by an ordinary hammer flush with the top of the cover and is then driven home, as in Fig. 6, by a suitable punch, the hole in the top of the seal part *a* or *b* being sufficiently large to admit the head of the nail *d* and the space beneath the same sufficient to cause the top of the seal part to lie above the plane of the head of the nail when the latter is driven home. The external shape of the seal part *a* or *b* may vary from the preferred circular forms shown in the drawings, and other like modifications will suggest themselves to those skilled in the art. The terms "top," "bottom," "downturned," and the like are used herein as they apply to the seal in the position which it naturally occupies during the sealing operation and in which it is shown in the drawings.

Having thus described said improvement, I claim as my invention and desire to patent under this specification—

1. A seal part for sealing wooden boxes constructed with a circumferential rim having diametrically opposite slots adapted to admit the overlapped ends of a box-strap, and an upper portion having a central hole adapted to admit the head of a nail driven therethrough and a continuous downturned edge surrounding said hole and located above the plane of said slots.

2. A seal part for sealing wooden boxes constructed with a circumferential rim having diametrically opposite slots adapted to admit the overlapped ends of a box-strap and a lower edge constructed to be embedded in the wood, and an upper portion having a central hole adapted to admit the head of a nail driven therethrough.

3. A seal part for sealing wooden boxes constructed with a circumferential rim having diametrically opposite slots adapted to admit the overlapped ends of a box-strap and a lower edge constructed to be embedded in the wood, and an upper portion having a central hole adapted to admit the head of a nail driven therethrough and a continuous downturned edge surrounding said hole.

4. In a seal for boxes, the combination with a flat box-strap and with a nail adapted to be driven through the overlapped ends of said box-strap, of a seal part constructed with a circumferential rim having diametrically opposite slots adapted to admit such

overlapped ends, and an upper portion having a central hole adapted for the passage of the head of the nail therethrough and a continuous downturned edge surrounding said hole and located above the plane of said slots.

5. In a seal for boxes, the combination with a flat box-strap, and with a nail adapted to be driven through the overlapped ends of said box-strap, of a seal part constructed with a circumferential rim having diametrically opposite slots adapted to admit such overlapped ends and a lower edge constructed to be embedded in the wood, and an upper portion having a central hole adapted for the passage of the head of the nail therethrough.

6. In a seal for boxes, the combination with a flat box-strap, and with a nail adapted to be driven through the overlapped ends of said box-strap, of a seal part constructed with a circumferential rim having diametrically opposite slots adapted to admit such overlapped ends and a lower edge constructed to be embedded in the wood, and an upper portion having a central hole adapted for the passage of the head of the nail therethrough and a continuous downturned edge surrounding said hole, substantially as hereinbefore specified.

EDWARD J. BROOKS.

Witnesses.

ELLEN J. BROOKS,
LILA P. MUDGE.