

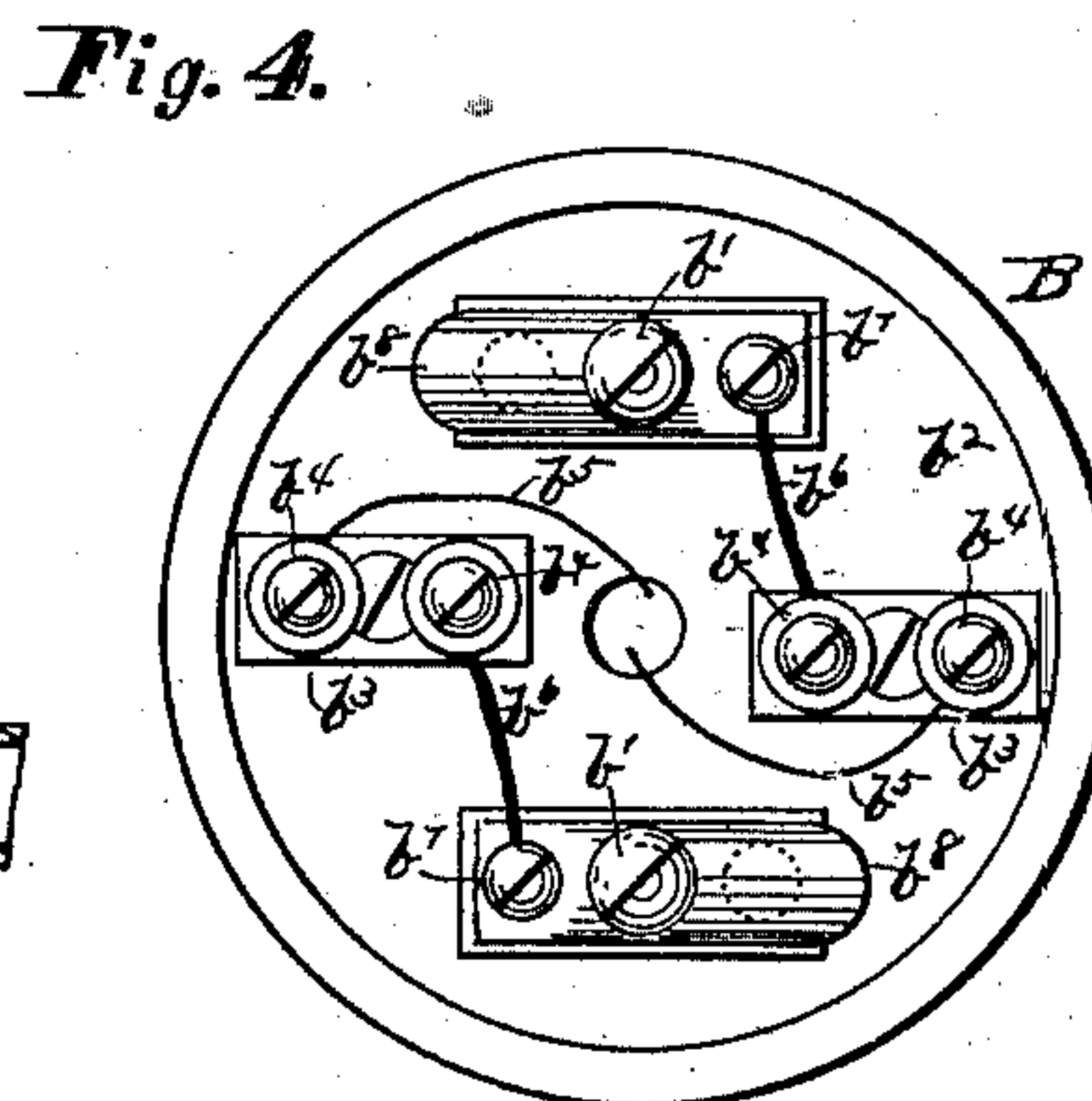
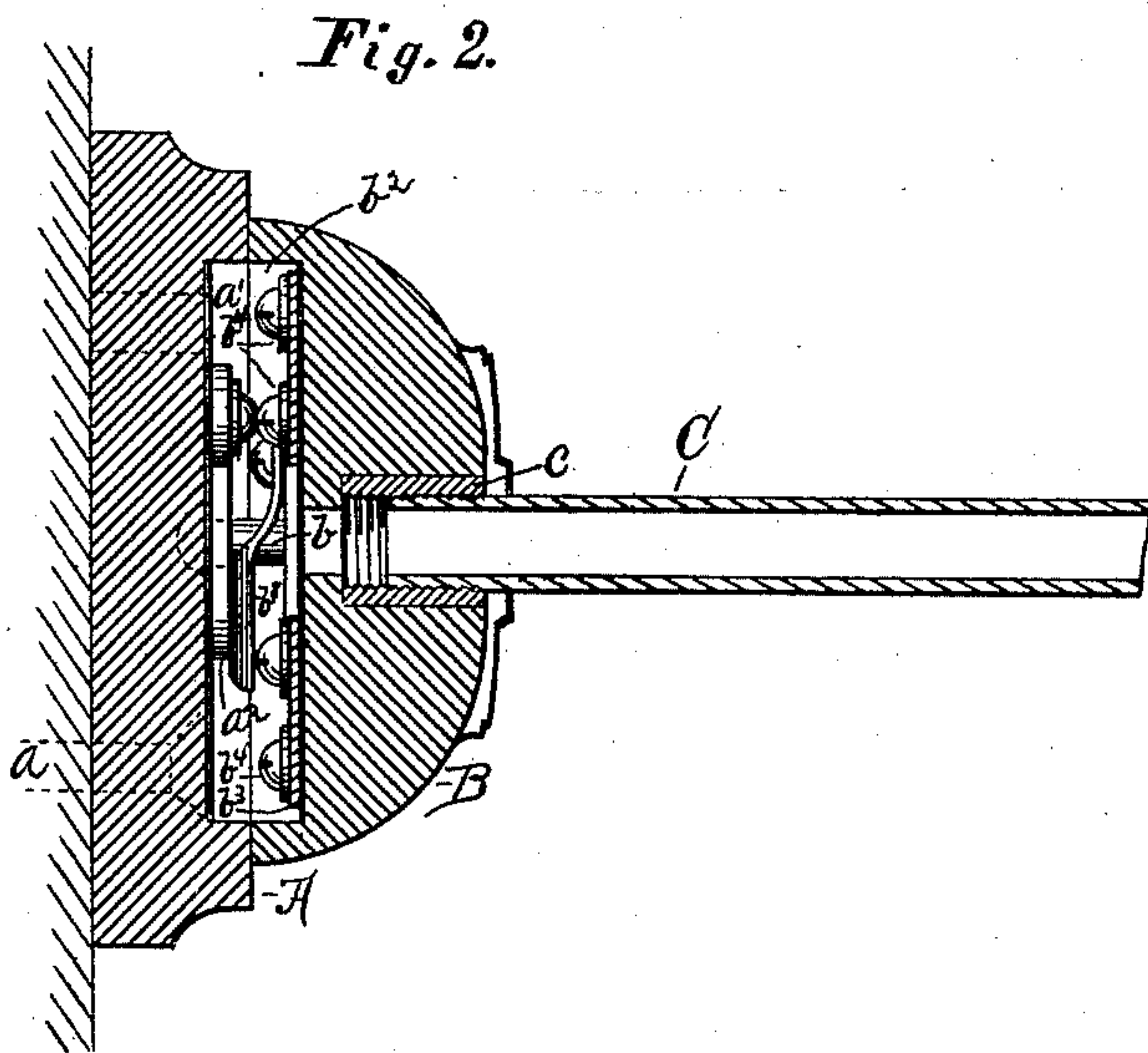
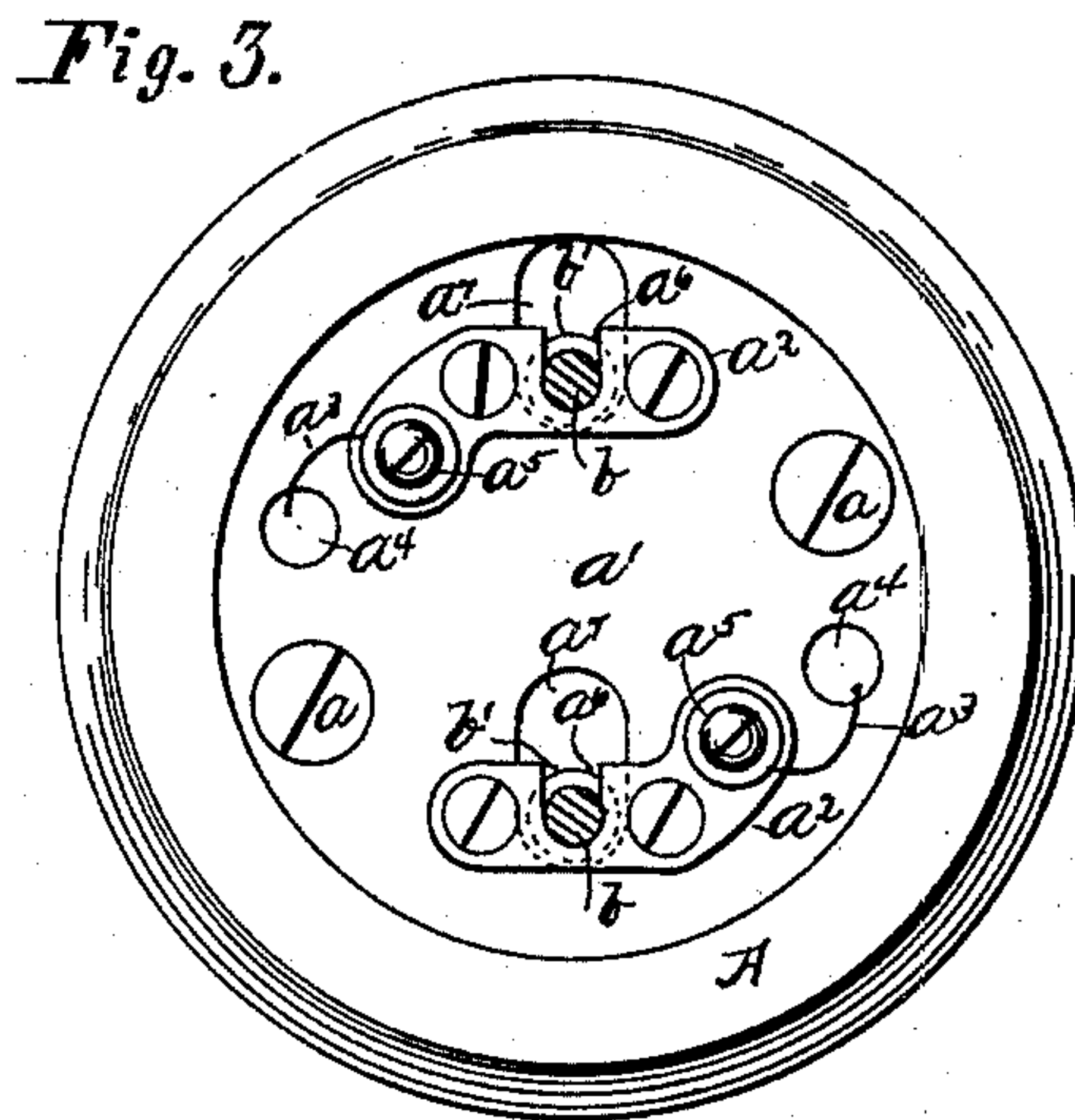
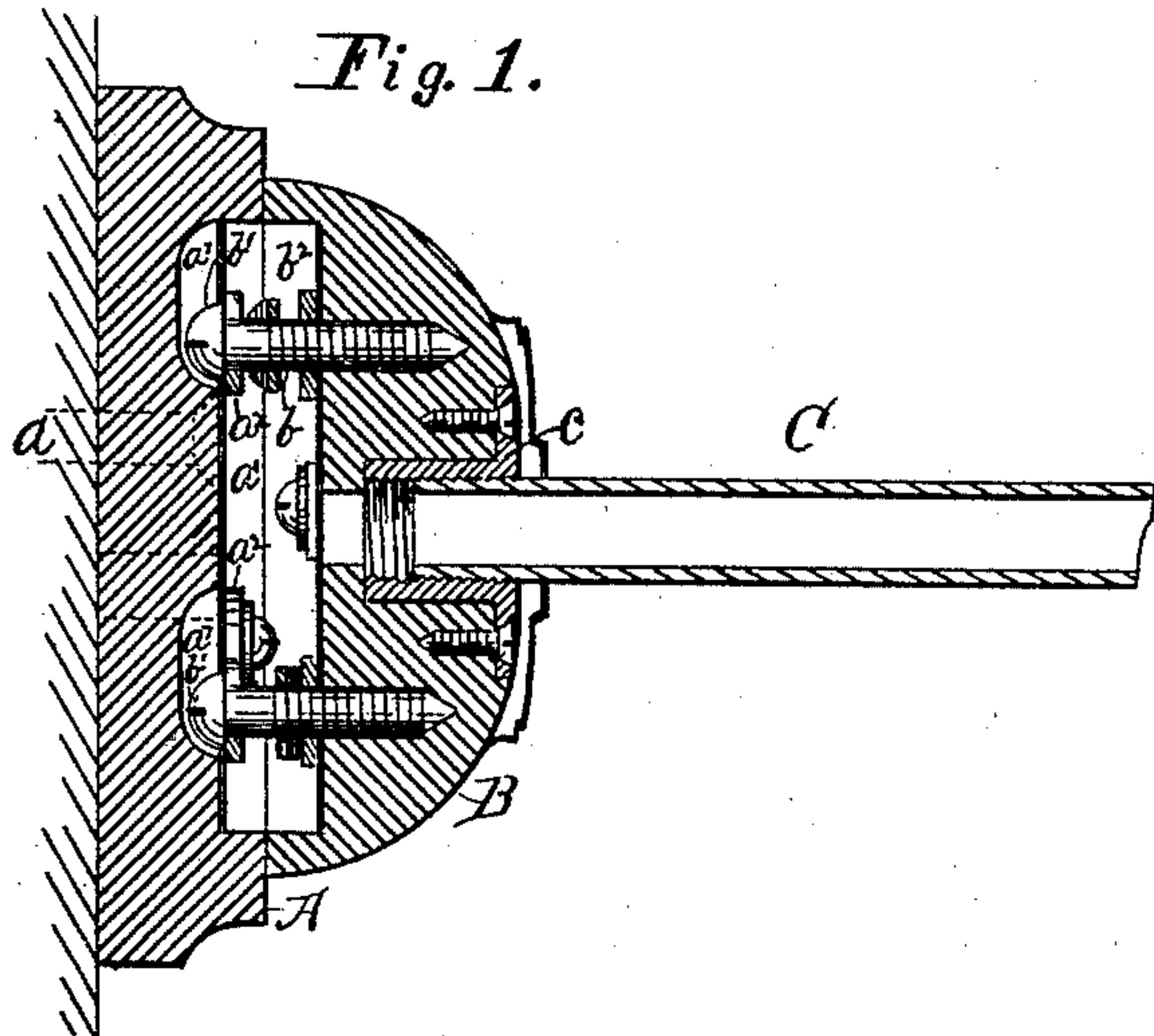
(No Model.)

2 Sheets—Sheet 1.

H. A. FITCH.
CEILING FUSE BLOCK.

No. 434,925.

Patented Aug. 26, 1890.



WITNESS:

COO Ferguson
Wm M. Shiff

INVENTOR
Horace A. Fitch,

BY

Gifford & Brown
HIS ATTORNEYS.

(No Model.)

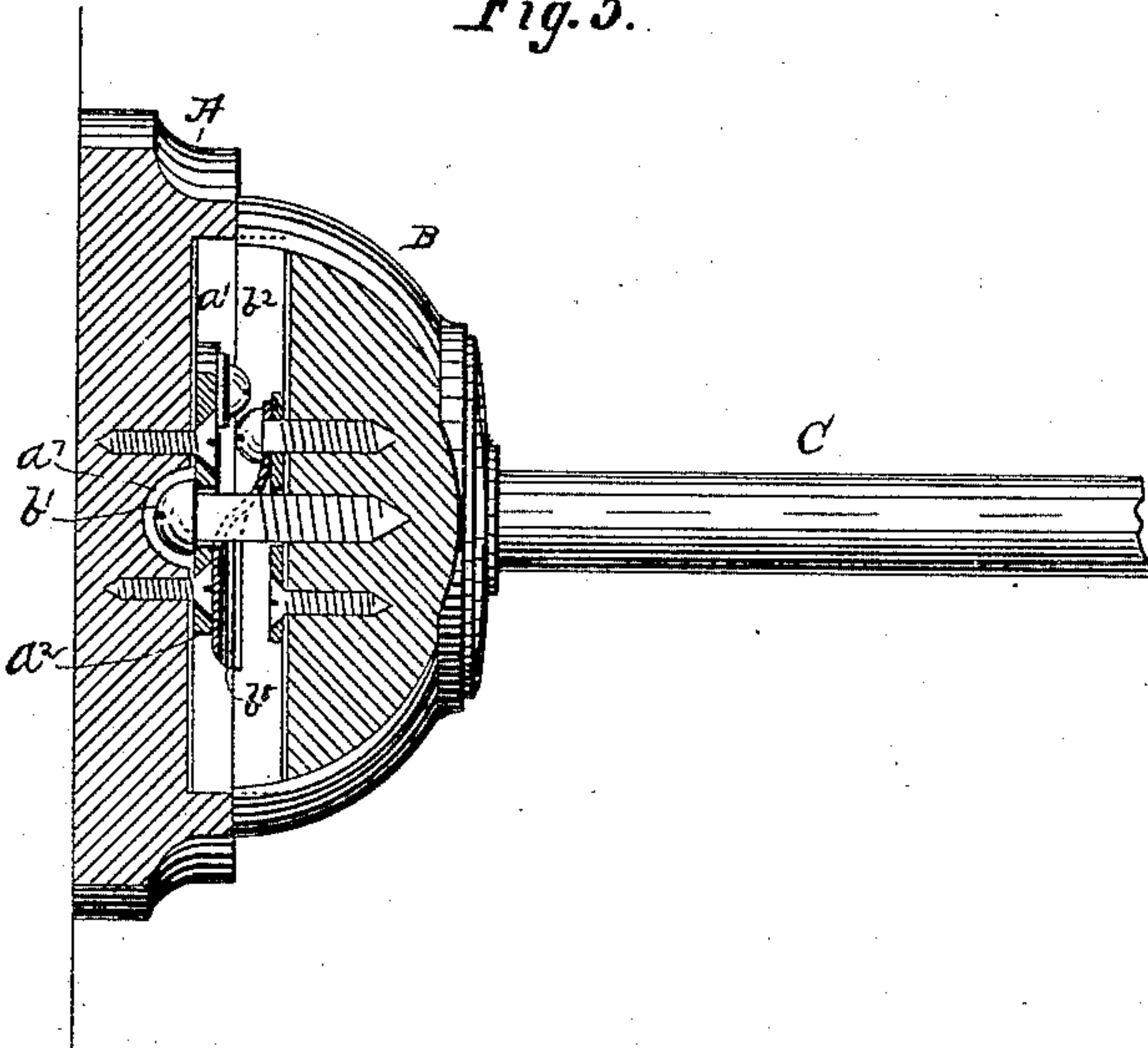
2 Sheets—Sheet 2.

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Fig. 5.



WITNESSES:
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UNITED STATES PATENT OFFICE.

HORACE A. FITCH, OF NEW BEDFORD, MASSACHUSETTS.

CEILING FUSE-BLOCK.

SPECIFICATION forming part of Letters Patent No. 434,925, dated August 26, 1890.

Application filed March 11, 1890. Serial No. 343,552. (No model.)

To all whom it may concern:

Be it known that I, HORACE A. FITCH, of New Bedford, county of Bristol, and State of Massachusetts, have invented a certain new and useful Improvement in Electric-Lamp Fixtures, of which the following is a specification.

The object is to provide a bracket, cut-out, and base-piece so constructed that the base may be permanently secured to a wall or ceiling with the main electric wires connected thereto, and whereby the cut-out and bracket may be removably secured to the base; and a further object in making the bracket detachable from the base is to provide a means whereby the connections may be easily reached, in order to make repairs to any of its parts or affixing new fusible connections.

I will describe a fixture embodying my improvement, and point out the novel features in the claims.

In the accompanying drawings, Figure 1 is a vertical section of a fixture embodying my improvement. Fig. 2 is a section of the same taken at right angles to Fig. 1. Fig. 3 is a plan view of the base-block. Fig. 4 is a plan or interior view of the cut-out, and Fig. 5 is a longitudinal section through one of the contact-springs.

Similar letters of reference designate corresponding parts in all the figures.

Referring by letter to the drawings, A designates a base-block of insulating material—such as wood, hard rubber, or analogous substance—designed to be permanently secured to a wall or ceiling by means of screws a or otherwise. The base-block is recessed, as at a' , in its front face to accommodate binding-screws and connecting-plates.

a^2 designates the two connecting-plates secured to the base-block within the recess, and main wires a^3 , passing through holes a^4 in the base-block, are connected to the respective plates a^2 by means of binding-screws a^5 . The connecting-plates a^2 also serve as a means for securing the cut-out to the base, as will hereinafter appear, and for this purpose I have provided them on one side with a notch or yoke a^6 . Recesses a^7 in the base-block extend beneath the plates. These recesses are

elongated so as to extend beyond the plate, and are made wider than the notch in the plates.

B designates a block of insulating material for the cut-out, having lugs b extended from it to engage with the plates a^2 and secure the block B to the base. I have here shown the lugs b in the form of screws having a head b' . When it is desired to secure the block B to the base, the heads b' of the lugs are placed in the recesses a^7 above the plates, and then the block is pushed downward so that the shanks of the lugs slide within the yokes and the heads underneath. The block B has a recess b^2 corresponding to the recess a' in the base-block, and within the recess are contact-plates b^3 , each provided with two binding-screws b^4 . Lamp-wires b^5 lead from a binding-screw of each plate b^3 through a central opening in the block B to a lamp. From the other binding-screws b^4 wires b^6 lead to binding-screws b^7 , connecting with resilient contact-pieces b^8 . The wires b^6 are preferably of fusible metal, so that an excessive current will fuse them and not damage the other parts of the cut-out. The contacts b^8 are secured at one end to the block B by means of the binding-screws b^7 , and when in position the other ends of the contacts bear upon the plates a^2 of the base-block, thus completing an electric circuit. I prefer these contacts b^8 to be of quite stiff spring metal, so that they will serve the purpose of contacts and also by their pressure maintain a rigid connection between the block B and the base-block.

C designates a portion of a bracket-arm to which an incandescent lamp may be attached. This arm has one end inserted in a socket in the block B, which may be a metal bushing c , screw-threaded to receive the threaded end of the arm C. The opening through the arm C is in line with the central opening of the block B, so that the lamp-wires will be unobstructed.

The base and block B may be ornamented in any desired manner and the block and bracket may be removed from one base-piece and placed upon another, so that one bracket may be employed in any part of a room or

building, thus saving the cost of several brackets. It is evident, also, that a curved bracket-arm and block may be reversed or placed on the base, so that the lamp will be
5 in a hanging or standing position.

By removing the block the fusible wires are easily accessible, so that they may be renewed at any time.

Having described my invention, what I
10 claim is—

1. The combination of a base adapted to be secured to a wall or ceiling and having recesses, notched contact-plates secured to the base over the recesses and connecting with
15 main wires, a block having a central opening, resilient contacts on said block, lugs extending from the block engaging with the contact-plates on the base, the heads of said lugs passing into the recesses beneath the

plates, and a tubular bracket-arm extending 20 from the block, substantially as specified.

2. The combination of a base having the recesses a' a'' , notched contact-plates secured to the base over the recesses a'' , a recessed block having a central opening, resilient con- 25 tacts on said block constructed to bear upon the contact-plates on the base, contact-plates b^3 on said block, lugs extending from the block engaging with the contacts on the base, the heads of said lugs extending into the re- 30 cesses a'' , a threaded socket in the block, and a tubular bracket-arm engaging in said socket, substantially as specified.

HORACE A. FITCH.

Witnesses:

WM. F. CASWELL,
WALTER CLIFFORD.