

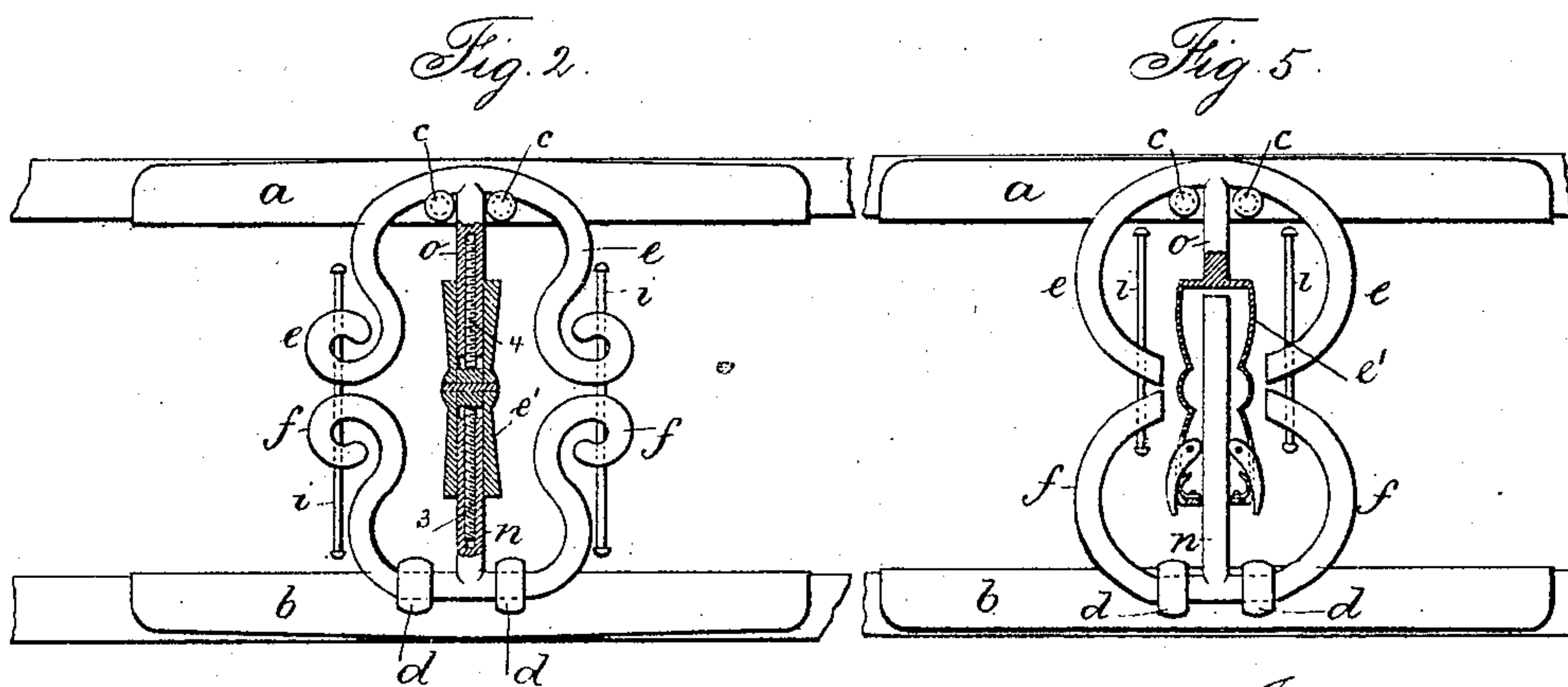
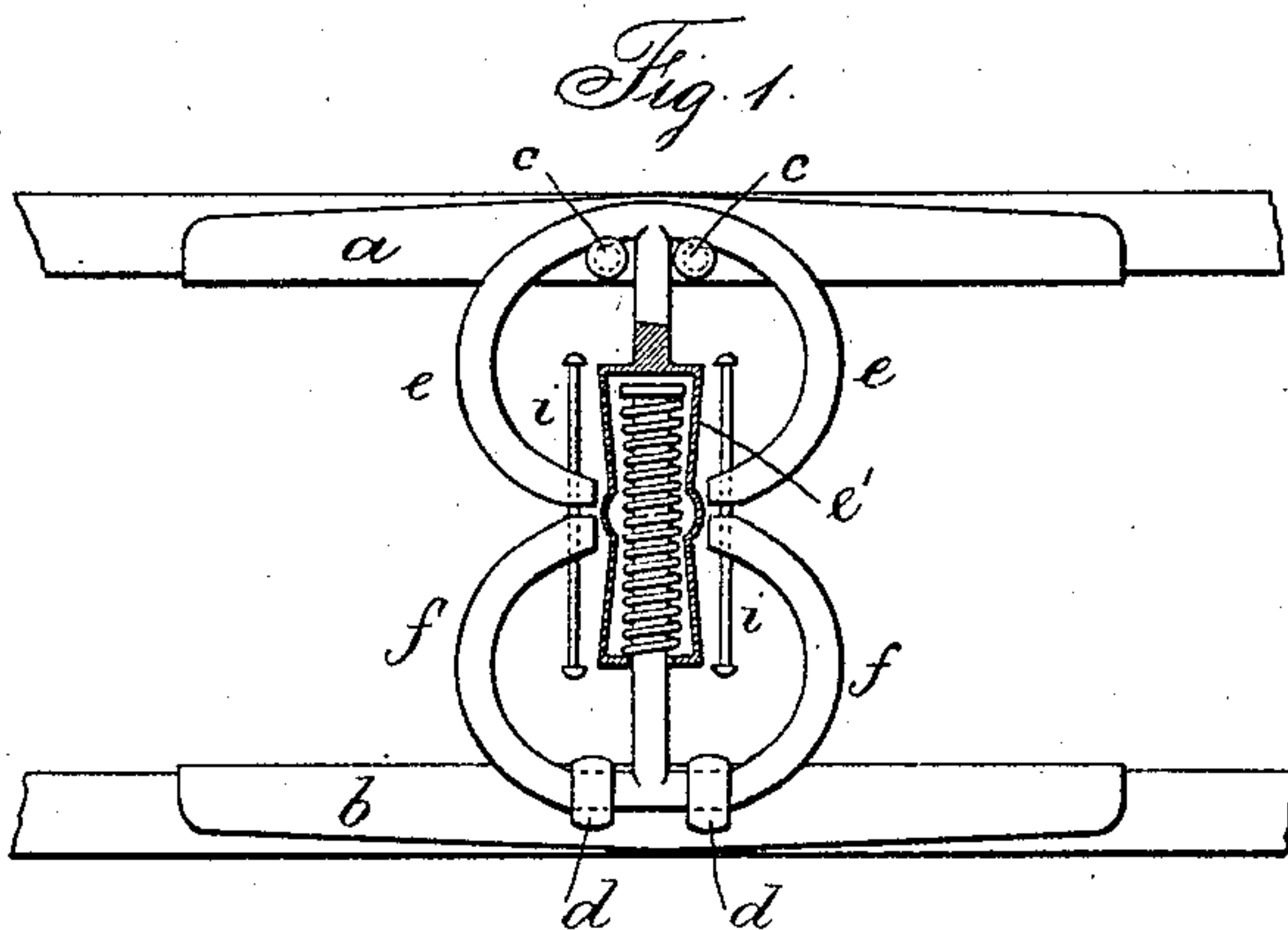
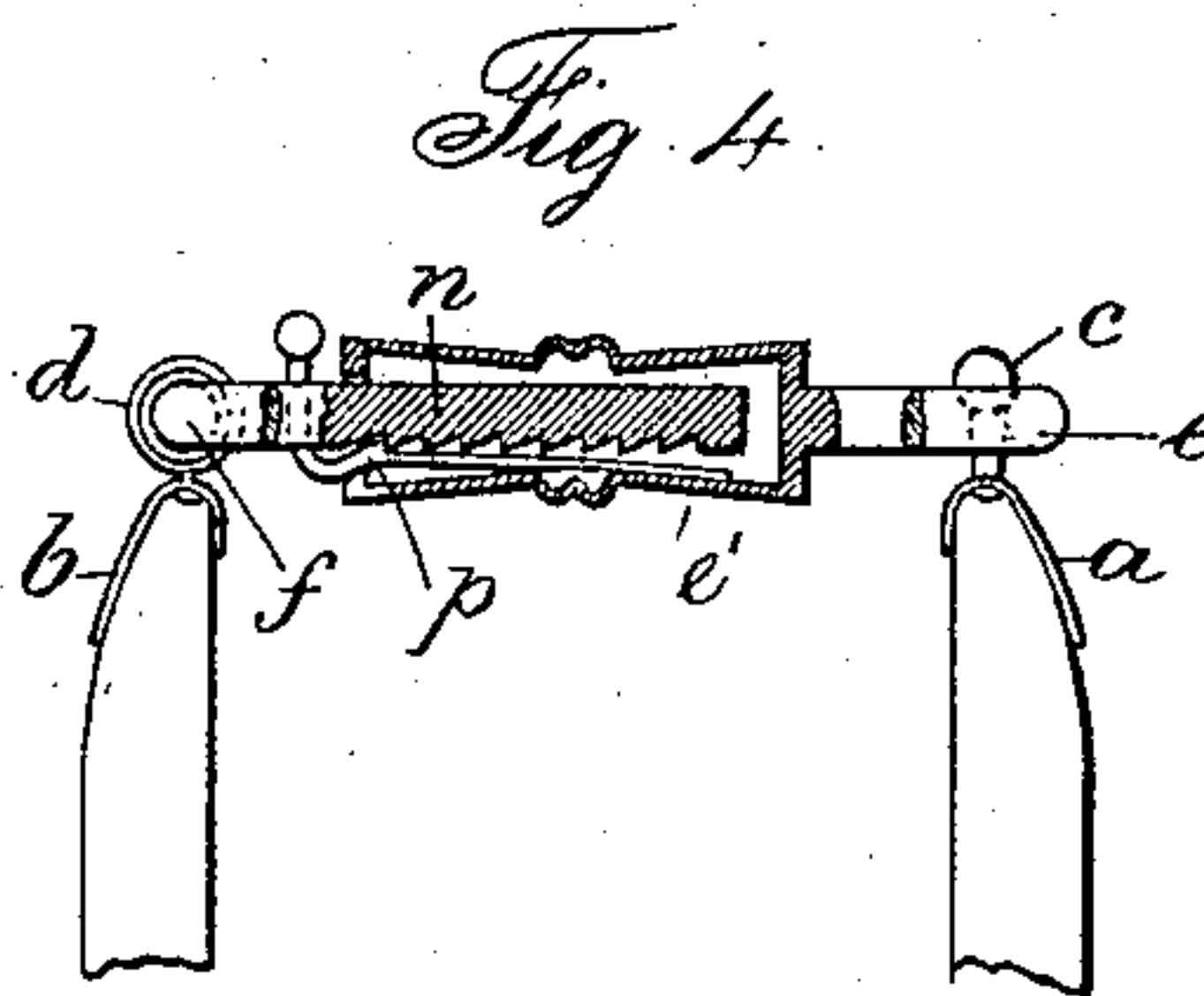
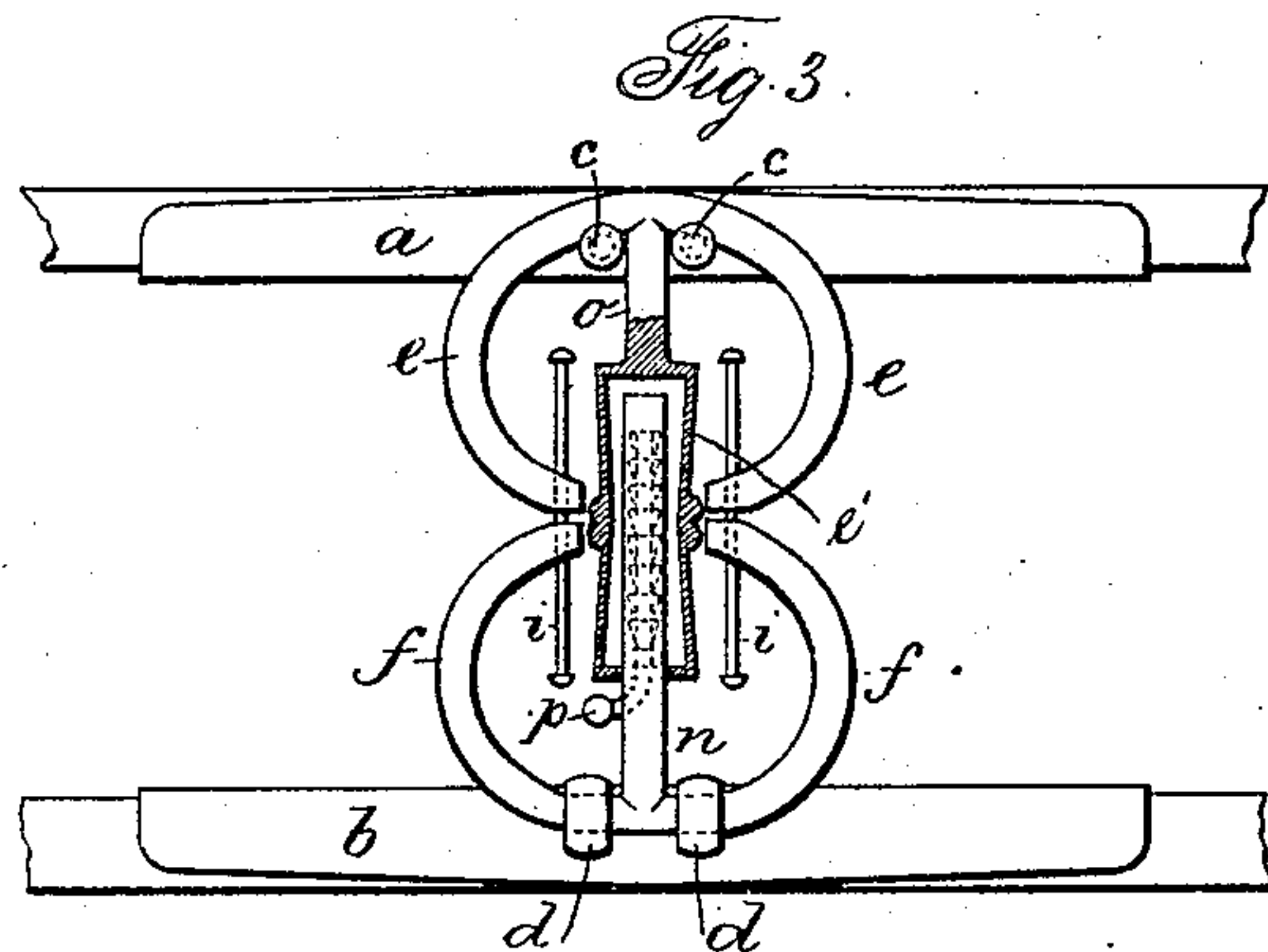
(No Model.)

A. C. HAFELY.

BOOK CLASP.

No. 287,123.

Patented Oct. 23, 1883.



Witnesses
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Chas. Smith

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Alfred C. Hafely
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UNITED STATES PATENT OFFICE.

ALFRED C. HAFELY, OF NEW YORK, N. Y.

BOOK-CLASP.

SPECIFICATION forming part of Letters Patent No. 287,123, dated October 23, 1883.

Application filed August 30, 1883. (No model.)

To all whom it may concern:

Be it known that I, ALFRED C. HAFELY, of the city and State of New York, have invented an Improvement in Book-Clasps, of which the following is a specification.

Book-clasps have been made of two parts that slide one upon the other, so as to be extensible, and springs, screws, and clamps have been applied to hold the parts when extended. In these clasps there is a lack of uniformity in the appearance of the two parts of the swinging clasps, because one part slides within a tube or a box upon the other part of the clasp, and these forms involve more expense than my improved clasp.

In my improvement I am able to make the two parts of the extensible clasp of the same or similar shapes, and to lessen the expense of construction, and to render the clasp strong, durable, and symmetrical.

In the drawings, Figure 1 is a sectional elevation of the clasp with the extension-loops in a curved form. Fig. 2 is a similar view of a clasp with the extensible portions of scroll shape. Fig. 3 shows a pawl that I employ for holding the clasp at any place to which it may be adjusted. Fig. 4 is a side elevation, partially in section, of the same; and Fig. 5 shows my improvement with clamping-eccentrics applied to the clasp.

The sheet-metal clip-pieces *a b* are adapted to be secured upon the edges of the book-cover. One of them is provided with studs or hooks *c*, the other with the hinges *d*. The two-part clasp *e f* is connected to and swings upon the hinges *d*, and the parts *e f* are united together by the rods *i i*, that pass through holes or openings in the respective parts of the clasp. These rods form slides upon which the parts *e f* of the clasp can be drawn apart or forced toward each other to lengthen or shorten the clasp. These rods *i i* are preferably made with heads at one or both ends, and usually

the rods will be soldered to the part *e* or *f* and slide through the other part.

In order to extend or to contract the clasps, suitable appliances are to be combined with the before-named extensible clasp. A spring within a tube may be used, as shown in my Patent No. 253,281, and represented in Fig. 1, or else two tubular studs, *n o*, may be fastened to the respective parts *e f*, as seen in Fig. 2, with right and left hand threads upon their inner surface, for the right and left hand screws 3 and 4, that are connected with the case *e'*, or similar to the device in my Patent No. 252,100; or one or two clamping-eccentrics may be used to press upon the sides of the stud *n*, as shown in Fig. 5; but I prefer to notch the stud *n* and connect the stud *o* with the case *e'*, and to fasten into this case one end of the spring-pawl *p*, the other end pressing against the notched stud *n*, so as to hold the same at any place to which it may be moved. The pawl is liberated by pressure upon the free end of the spring, such free end extending outside the case *e'*, and preferably to the side of the stud opposite to that containing the notches, so that the spring-pawl is easily pressed out of the teeth.

I claim as my invention—

1. The guide-rods *i*, in combination with the two-part extensible clasp *e f*, and the connecting devices for attaching the clasp to the book, substantially as specified.

2. The extensible clasp *e f*, guide-rods *i*, and hinges *d*, in combination with the spring-pawl *p* and the case *e'* for the same, substantially as set forth.

Signed by me this 28th day of August, A. D. 1883.

ALFRED C. HAFELY.

Witnesses:

GEO. T. PINCKNEY,
WILLIAM G. MOTT.