

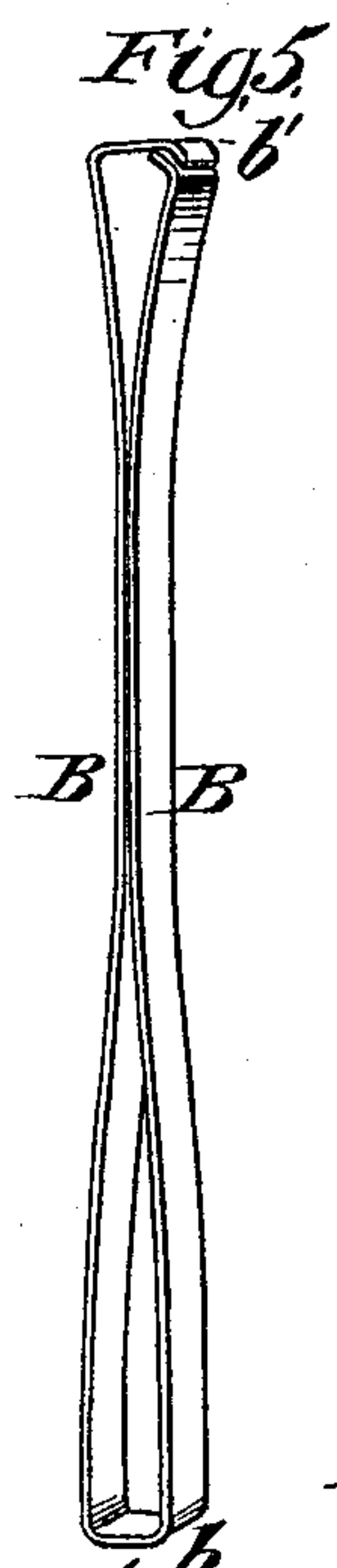
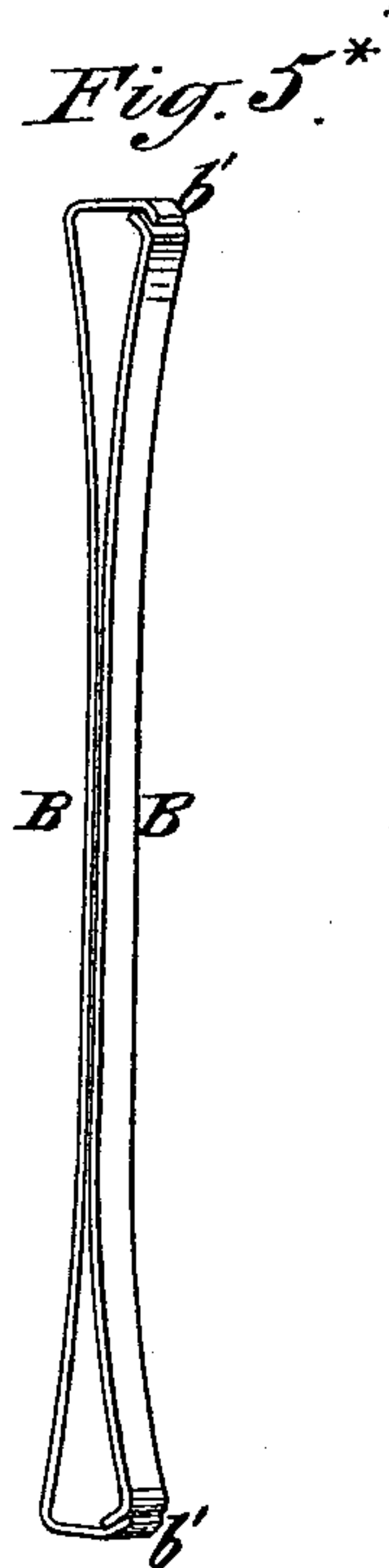
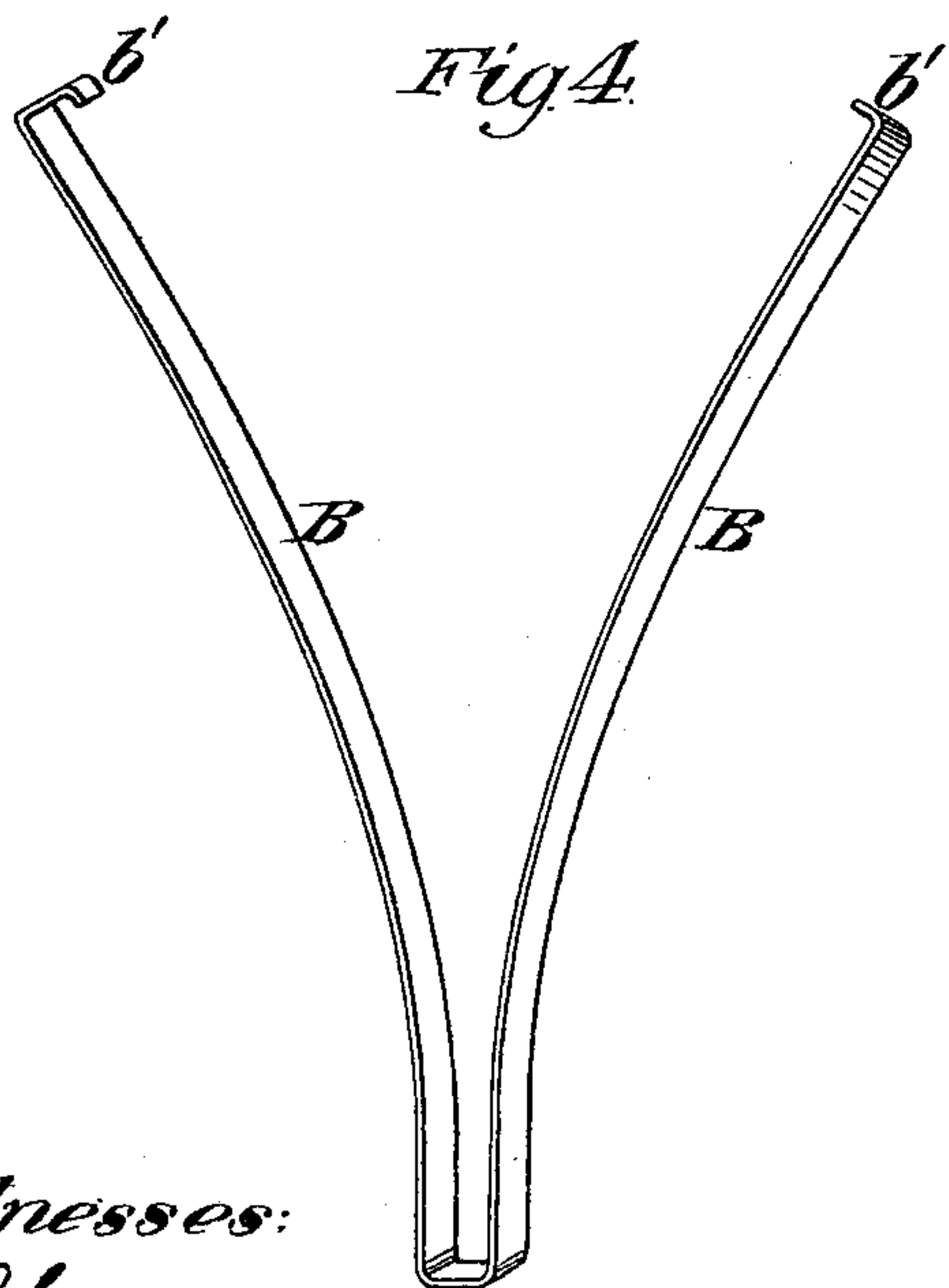
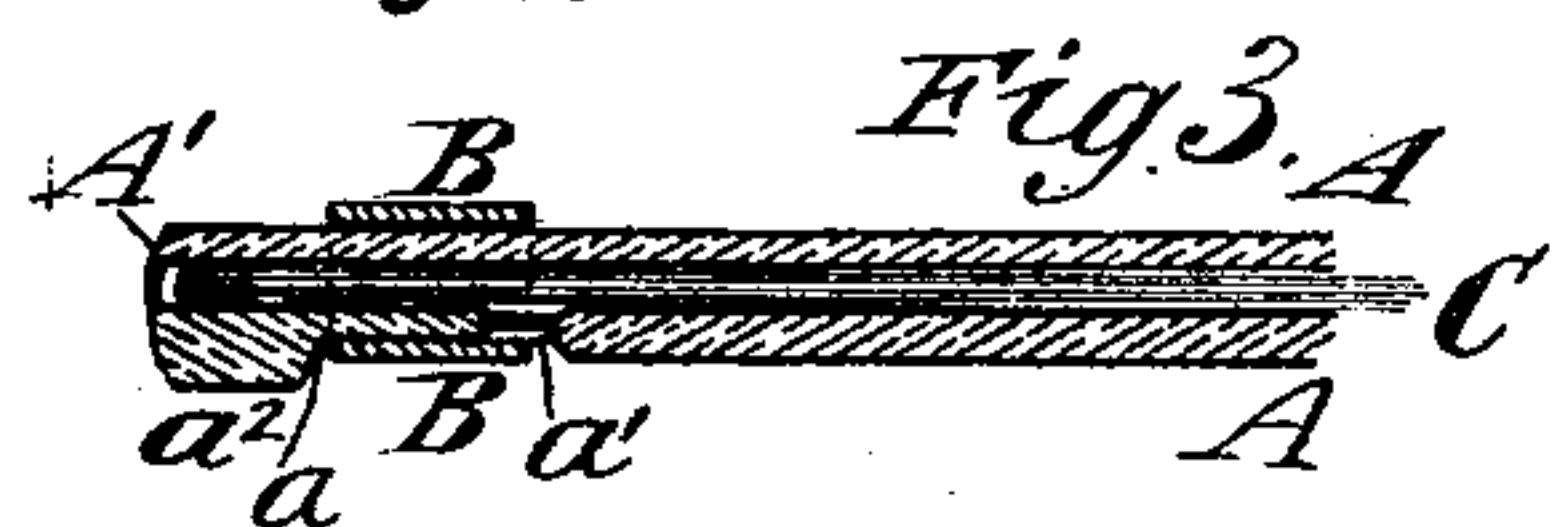
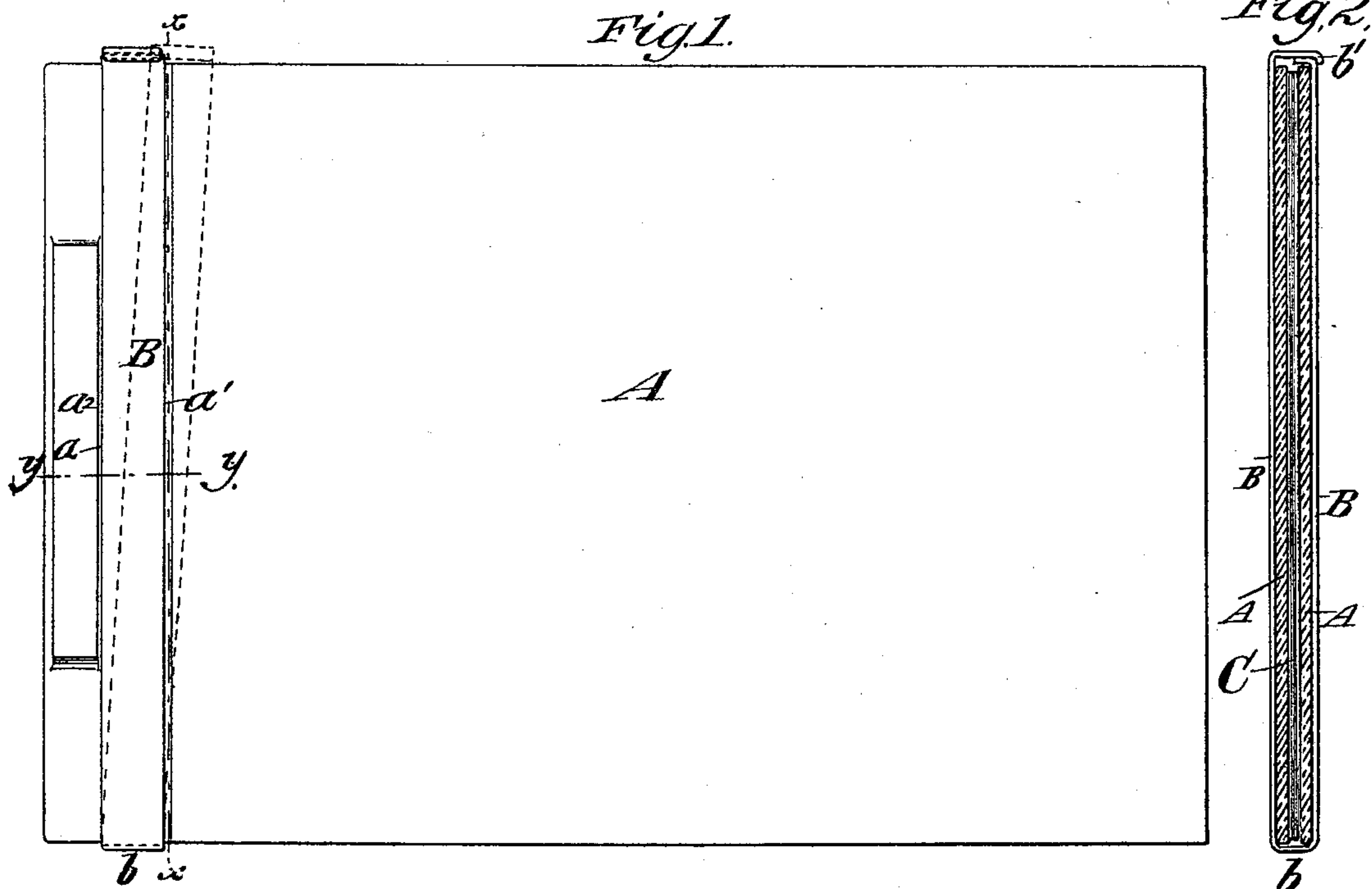
(No Model.)

2 Sheets—Sheet 1.

M. F. BERRY.
PAPER FILE OR CLAMP.

No. 370,116.

Patented Sept. 20, 1887.



Witnesses:

O. Sundgren
E. H. Herter

Inventor

Marcellus F. Berry
by his atty
D. W. Hall

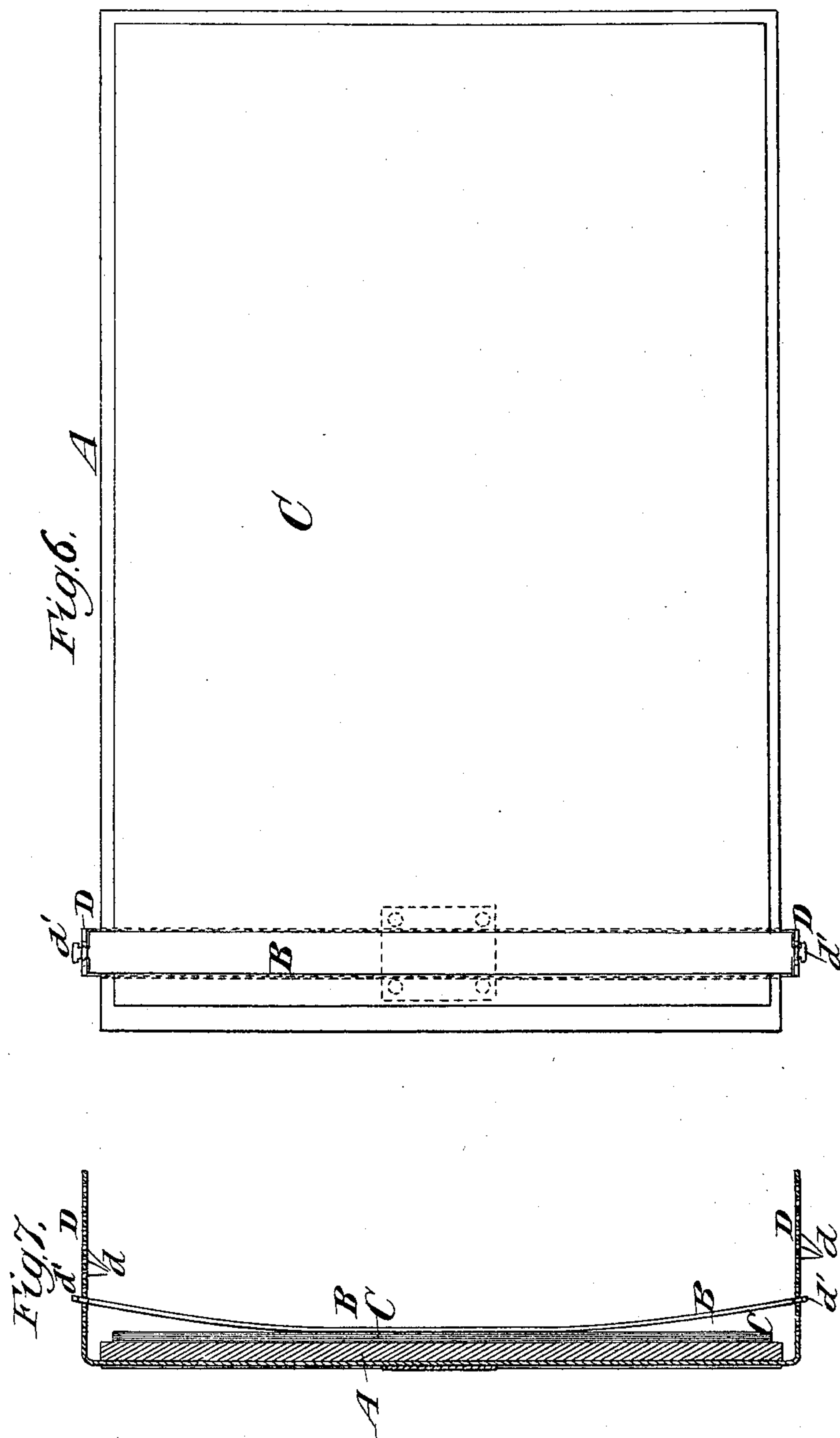
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2 Sheets—Sheet 2.

M. F. BERRY.
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Witnesses:

O. Sundgren
Emil Hertor

Inventor:

Marcellus F. Berry
by his Atty.
Brown & Hall

UNITED STATES PATENT OFFICE.

MARCELLUS F. BERRY, OF BROOKLYN, NEW YORK.

PAPER FILE OR CLAMP.

SPECIFICATION forming part of Letters Patent No. 370,116, dated September 20, 1887.

Application filed June 27, 1887. Serial No. 242,598. (No model.)

To all whom it may concern:

Be it known that I, MARCELLUS F. BERRY, of Brooklyn, in the county of Kings and State of New York, have invented a new and useful
5 Improvement in Paper Files or Clamps, of which the following is a specification.

My invention relates to a file or clamp of simple construction which may be applied directly to loose papers laid in a pile, or which
10 may be applied to a temporary binder or cover for the purpose of confining papers therein.

My invention depends for its holding-power upon the greater or less number of papers, on the resilience or elasticity of a metal
15 bar or strip, which is connected at its ends and which has between its ends a permanent inward set or deflection, whereby it is caused to exert an elastic force or pressure to clamp the papers. The file or clamp proper may consist
20 of a band having its two side members permanently connected at one end and detachably connected at the other end, one of said side members being elastic and formed with a permanent inward set or deflection and the other
25 forming a base or resistance piece for the first. Both the side members of the band may be elastic and formed with an inward set or deflection, and they may be interlocked or engaged with each other at their free ends by
30 providing them at the ends with lips adapted to slip laterally one under another.

The invention also consists in a file or clamp composed of two corresponding elastic strips or side members, each having a permanent inward
35 set or deflection between its ends and connected together at the ends.

The invention also consists in the combination, with a cover having a transverse channel or crease near the back, of a clamp composed
40 of elastic side members permanently connected at one end and at the other end connected by interlocking lips, one or each of said side members having a permanent inward set or deflection.

45 In the accompanying drawings, Figure 1 is a plan of a paper-file applied to a binder or cover and embodying my invention. Fig. 2 is a transverse section upon the plane of the dotted line *xx*, Fig. 1. Fig. 3 is a similar section on about the plane of the dotted lines *yy*,
50 Fig. 1. Figs. 4 and 5 are perspective views of the file or clamp proper detached from other

parts, (Fig. 4 representing it as having its free ends disconnected.) Fig. 5* represents a clamp
55 composed of two similar side portions or members detachably connected at both ends; and Figs. 6 and 7 are respectively a plan and a transverse section of a file or clamp, consisting of a base or back board and a spring embodying
60 my invention and applied thereto.

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

In the present example of my invention the clamp or file proper is applied to a temporary binder or cover having side covers or portions, *A A*, and the flexible back *A'*, and one
65 side cover or portion is creased or channeled across its face, as shown at *a*, and is constructed with a flexible joint portion, *a'*. The file proper or clamp consists in this example
70 of the invention of a band which encircles the cover *A*, and is shown applied to the cover in Fig. 2 and as removed from the cover in Figs. 4 and 5. Indeed, this band or clamp may be
75 employed without any cover to secure paper together. As here represented, the band or clamp has side portions, *B*, connected together at the ends. In this example I have shown a
80 permanent connection at one end, as at *b*, and a detachable connection at the other end, and one or each of these side bars or members has a permanent inward set or deflection, as shown
85 in Fig. 5, and which causes them when brought together and engaged, as in Fig. 5 and also in Fig. 2, to bind strongly upon the cover and
90 securely hold the papers placed between the side portions of the cover. I have here shown both members *B B* of the band as elastic and having formed in them the inward set or deflection, and provision for engaging them together
95 is secured by forming upon them at the free ends inwardly-turned lips, as shown at *b'*. By the movement of one member or strip *B* parallel with the face of these lips they may be readily disengaged from each other when it
100 is desired to remove the band or to put more papers within the file.

I have by dotted lines in Fig. 1 represented the lateral movement of one strip or member *B* at its free end in order to disengage it from
the other strip or member, and as the strip or member which is on the face of the cover lies in the channel or crease *a* the band is prevented from lateral displacement, and in this

case one side of the crease or channel a is formed by a projection, a^2 , upon the cover, which prevents the band from moving to the left of the position shown in Fig. 1.

5 When the band is applied to the cover A, it securely holds therein papers C; but when it is removed from the cover the two members or side portions will spring outward away from each other, as shown in Fig. 4, if they both be
10 elastic and formed with an inward set or deflection. The band or clamp B B may be formed of one piece of spring-brass or spring metal, as shown in the drawings, Figs. 4 and 5.

In the example of my invention, Figs. 1 to
15 5, one side portion B may be considered as forming a resistance-piece to the other, whether it also be elastic and deflected between its ends or not; or, in fact, for the purposes of my invention one of the side leaves A may be con-
20 sidered as forming a resistance-piece.

In the example of my invention shown in Fig. 6 is employed a base or back board, which may be considered as the equivalent of one of the side covers A shown in the preceding
25 figures, and upon which the papers C are laid. B designates the active element of the clamp, which is a strip having an inward permanent offset or deflection, whereby it is caused to bear between its ends upon the papers, and having
30 its ends engaged with arms or projections D from the back board or base A. These arms or projections may have perforations or slots d formed in them, and with these perforations or slots may be engaged the tongues d'
35 or the T-shaped projections, with which the ends of the strip B are provided. When more papers are to be introduced, the strip B may be removed and have its end engaged with the projections or arms D, at a distance from
40 the base-board A. It will be seen that this latter example of my invention (shown in Figs. 6 and 7) embodies the essential features of my invention, inasmuch as it has the strip or bar with a permanent set or deflection between
45 its ends, and in the example of my invention shown in Figs. 1 to 5, inclusive, the cover A which is upon one side of the papers may be considered as a base or back board, and the member B may be considered as clamping the
50 papers directly upon that base or back board, although the other side cover is interposed between.

In the example of my invention shown in Fig. 5 the side portions or members are detachably connected at both ends by lips b' ,
55 and may, when desired, be disengaged wholly from each other.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The combination, with a base or resistance piece, of an elastic strip having a permanent inward set or deflection, whereby when applied to the papers it acts to clamp the papers between it and the base or resistance piece with a force proportioned to its ap-
65 proach to a straight line, substantially as herein described.

2. The paper file or clamp herein described, consisting of a band having its two side members permanently connected at one end and
70 detachably connected at the other end, one of said side members being formed with a permanent inward set or deflection and having the side members detachably connected at the other end, substantially as herein set forth. 75

3. The paper file or clamp herein described, composed of the two elastic side members or strips, B B, permanently connected at one end and provided with interlocking lips or
80 flanges at the other end, and each of said members having a permanent inward set or deflection between its ends, substantially as herein described.

4. The paper file or clamp composed of two corresponding elastic strips or side members,
85 each having a permanent inward set or deflection between its ends and connected or joined at their ends, substantially as herein described.

5. The combination, with the cover A, having a transverse channel or crease, a , near the back, of the clamp composed of the side members, B B, permanently connected at one end and at the other end connected by interlocking lips, one or each of said side members being
90 elastic and having a permanent inward set or deflection, substantially as herein set forth. 95

M. F. BERRY.

Witnesses:

C. HALL,
FREDK. HAYNES.