

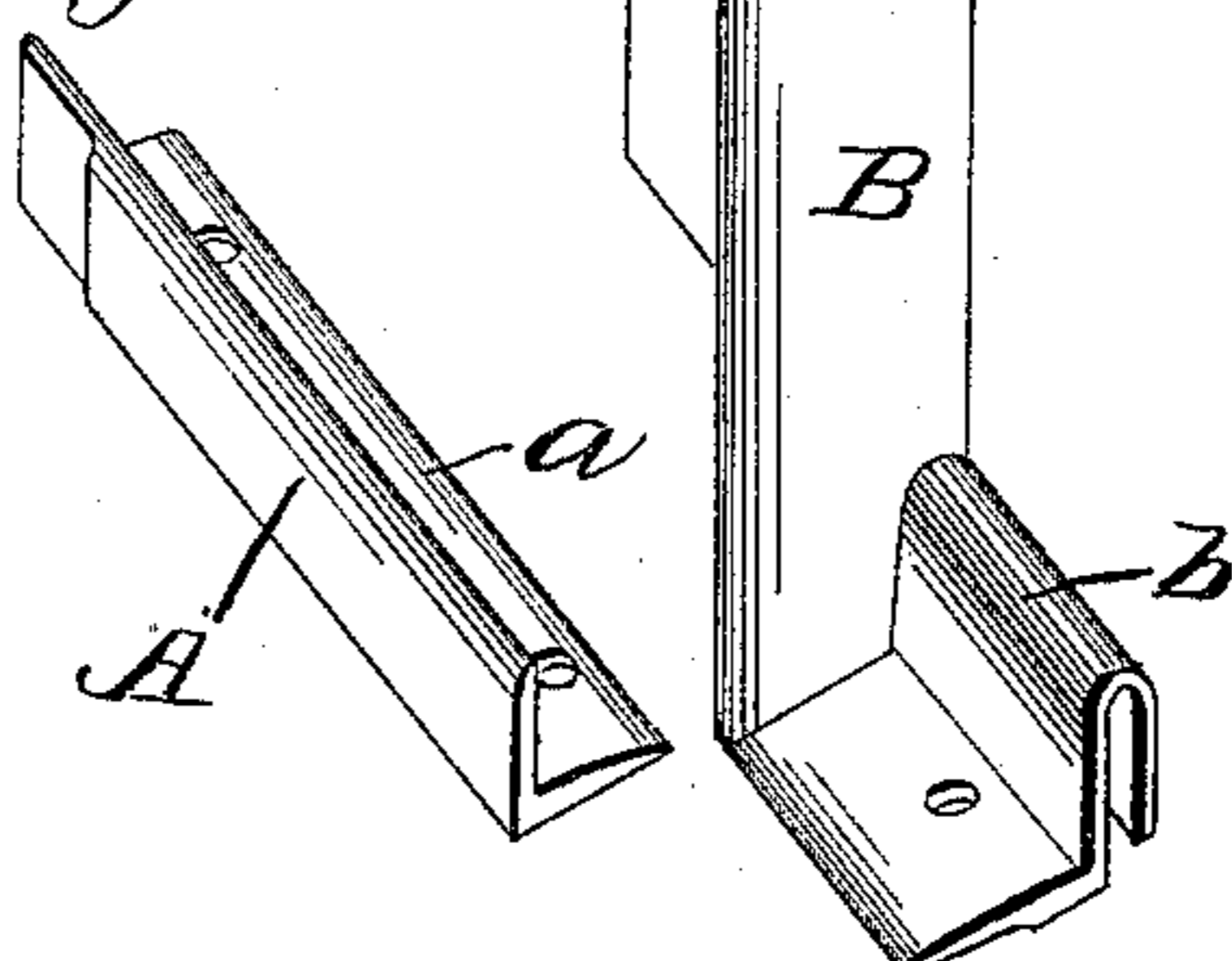
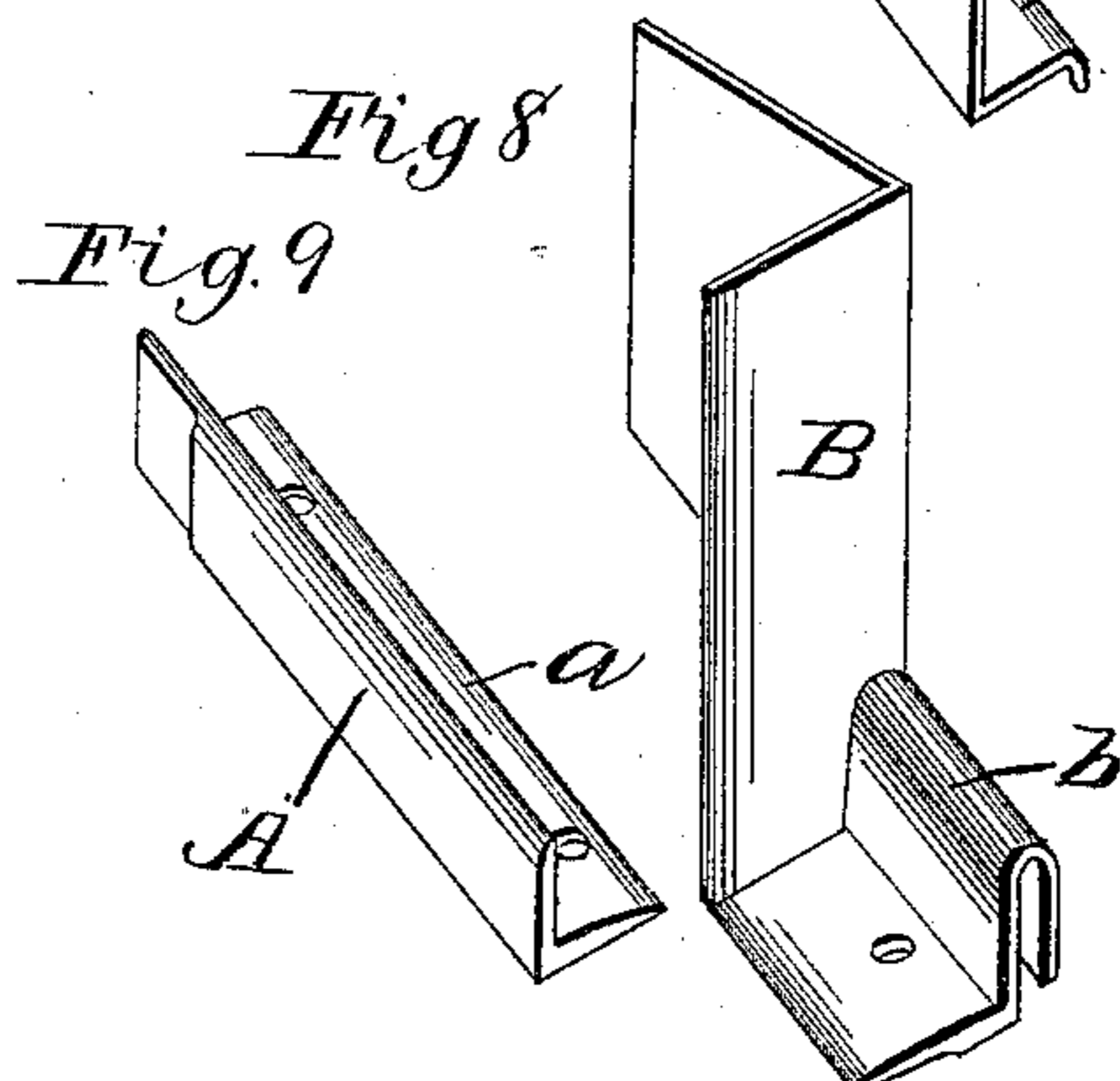
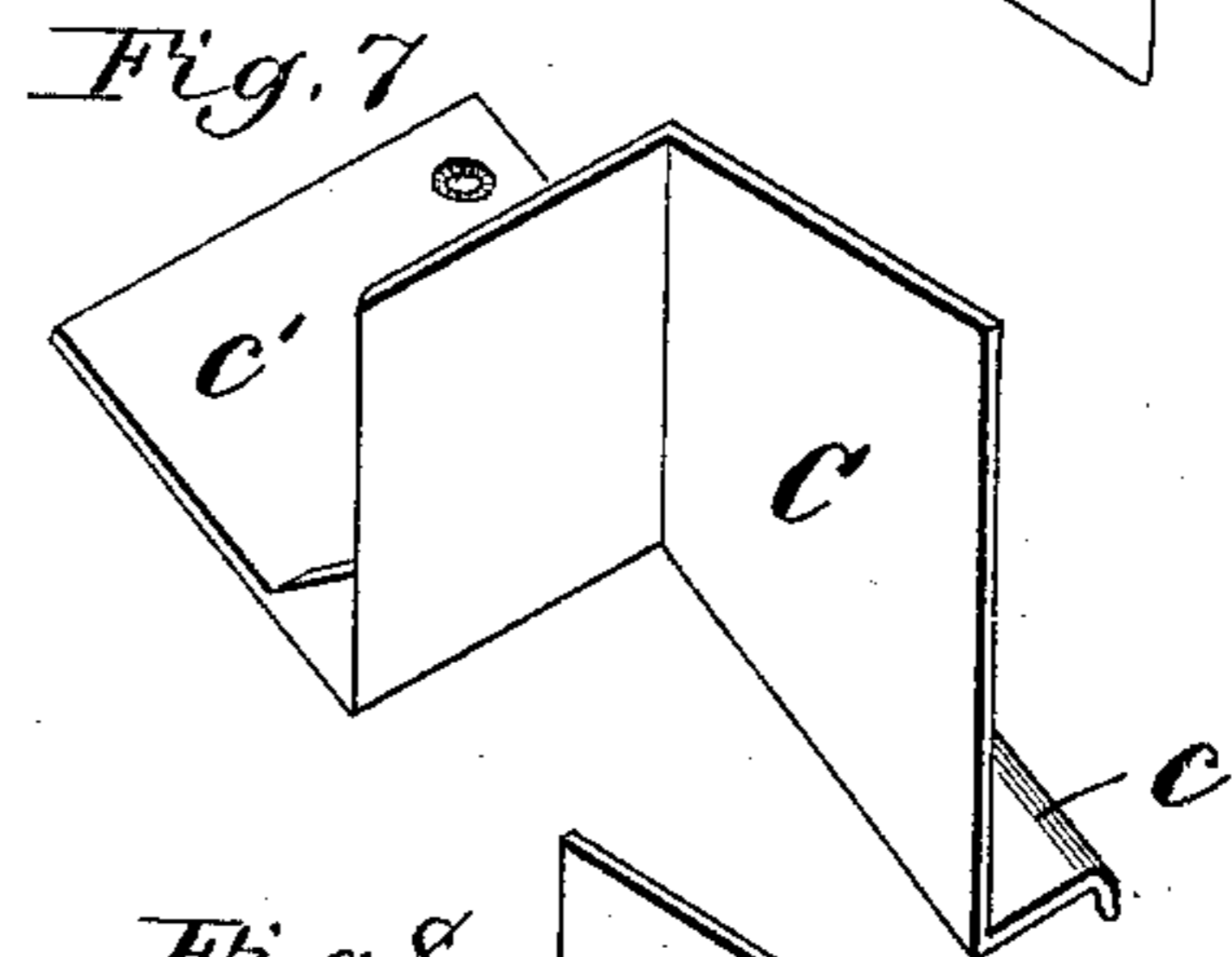
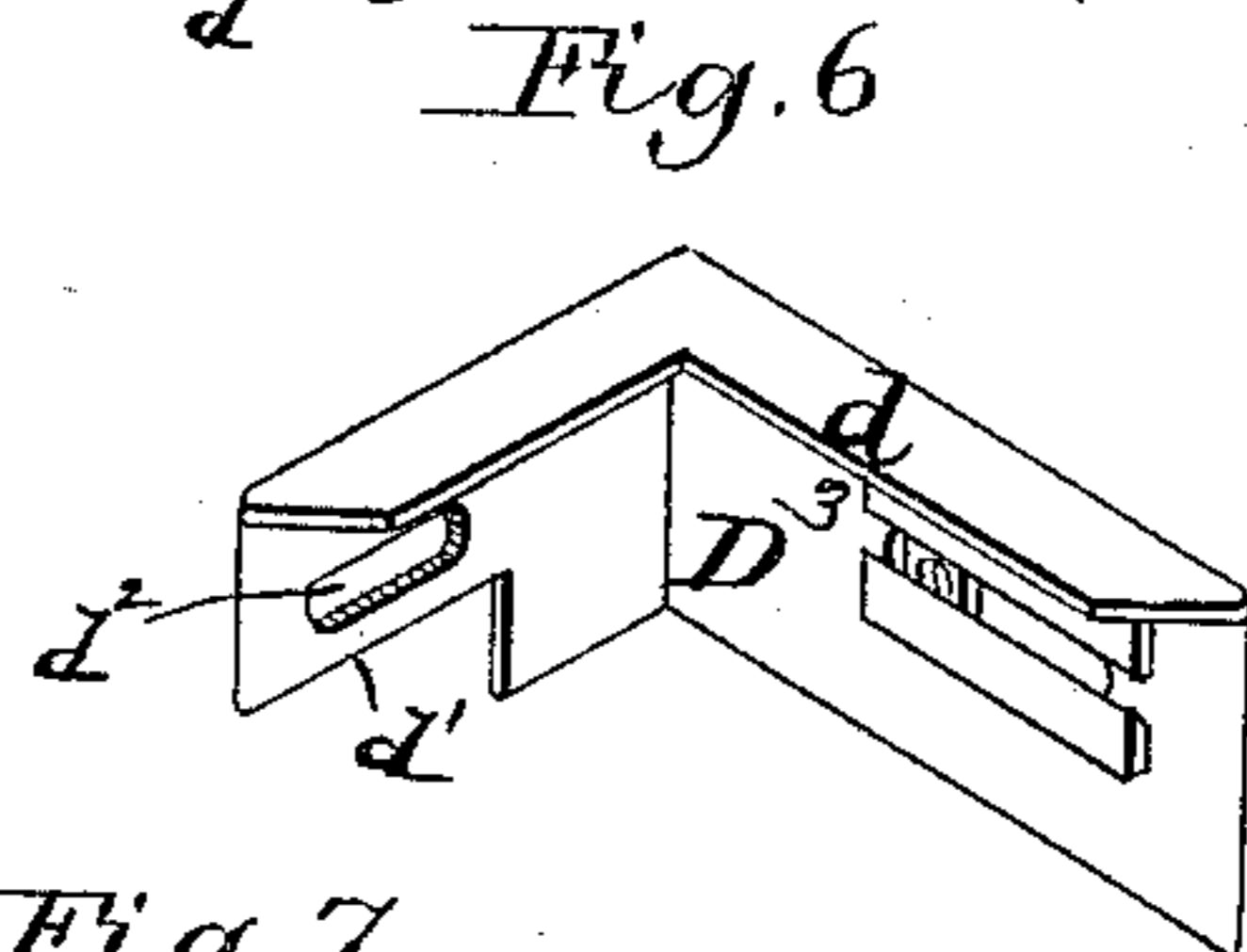
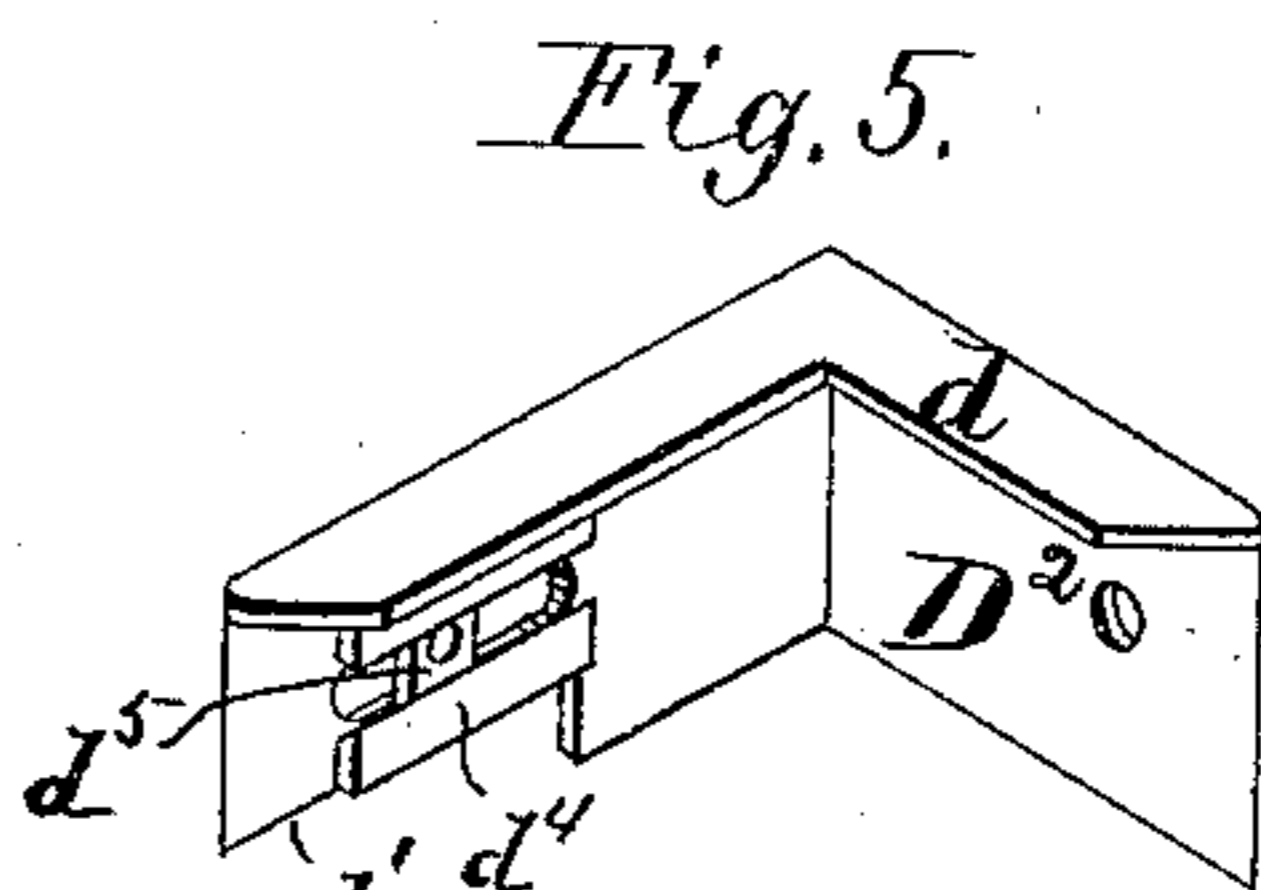
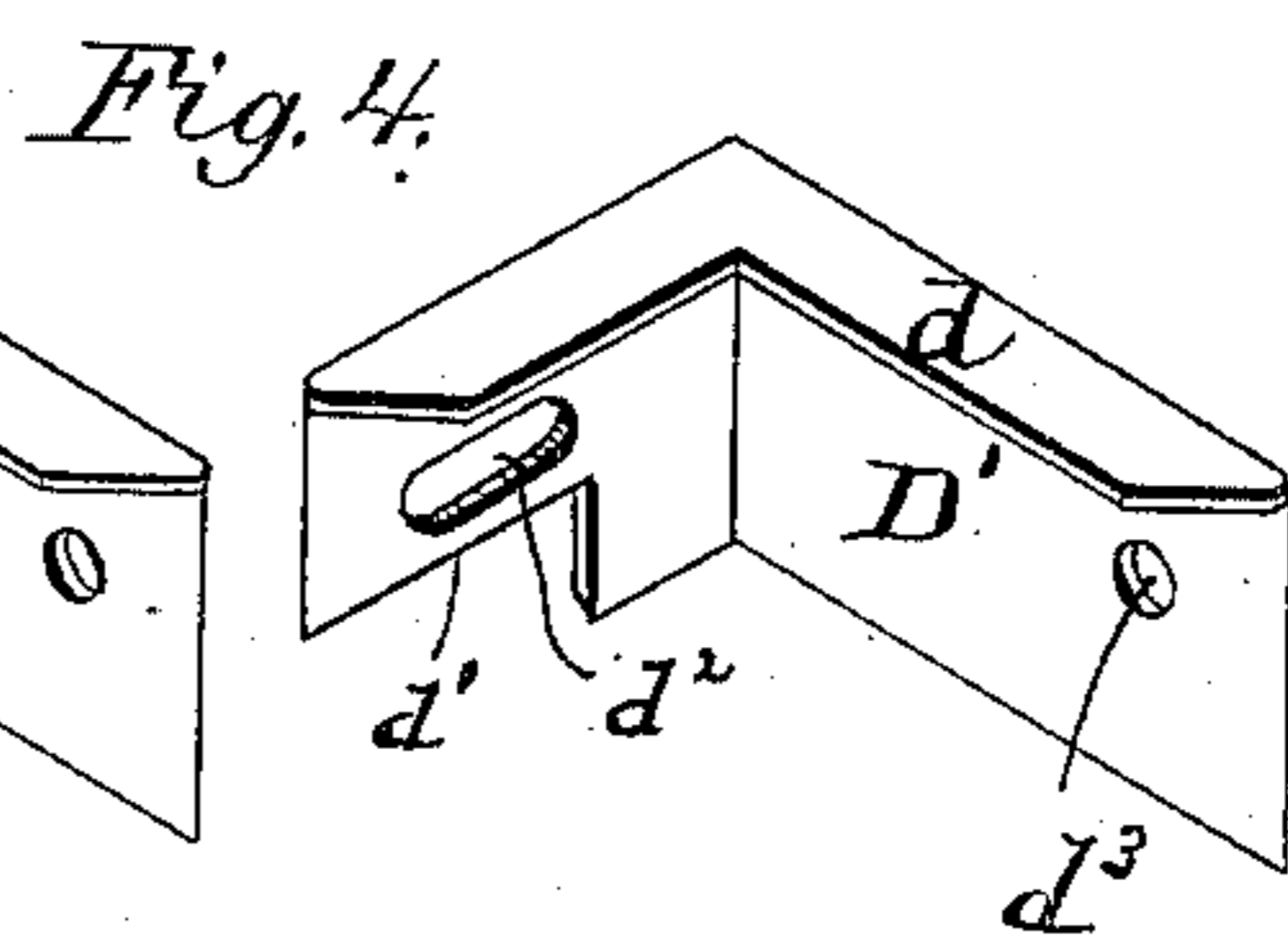
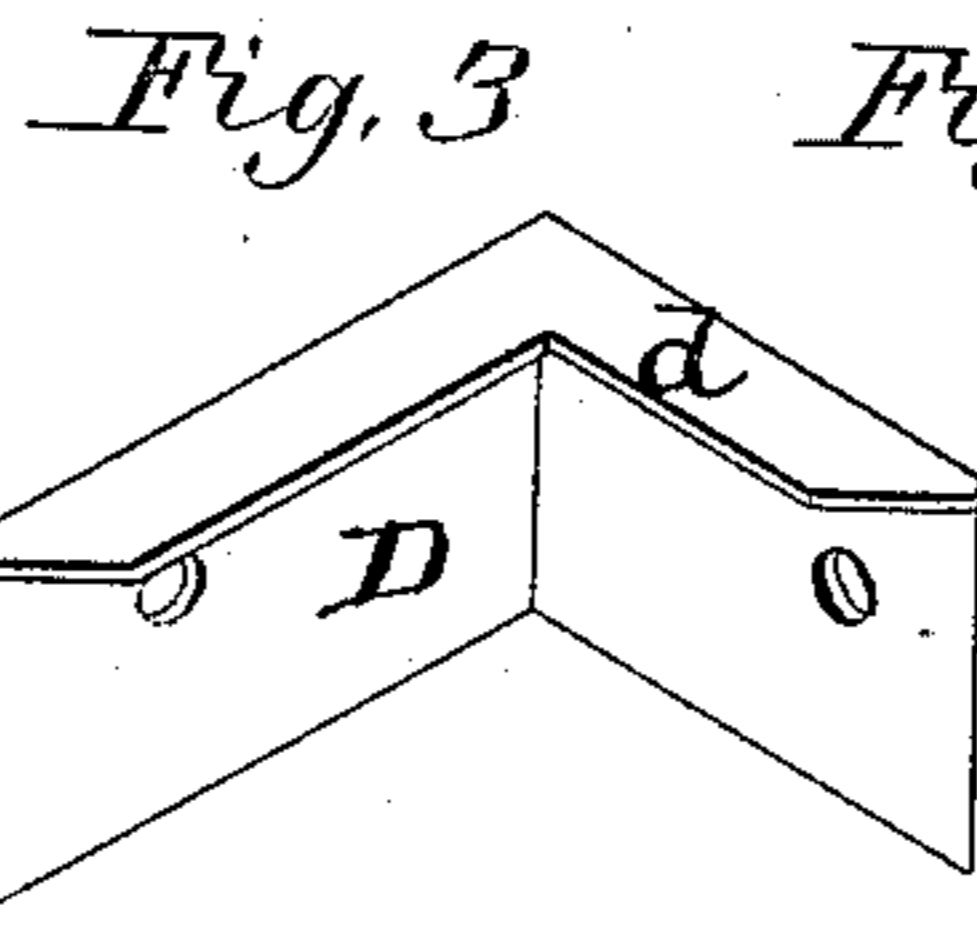
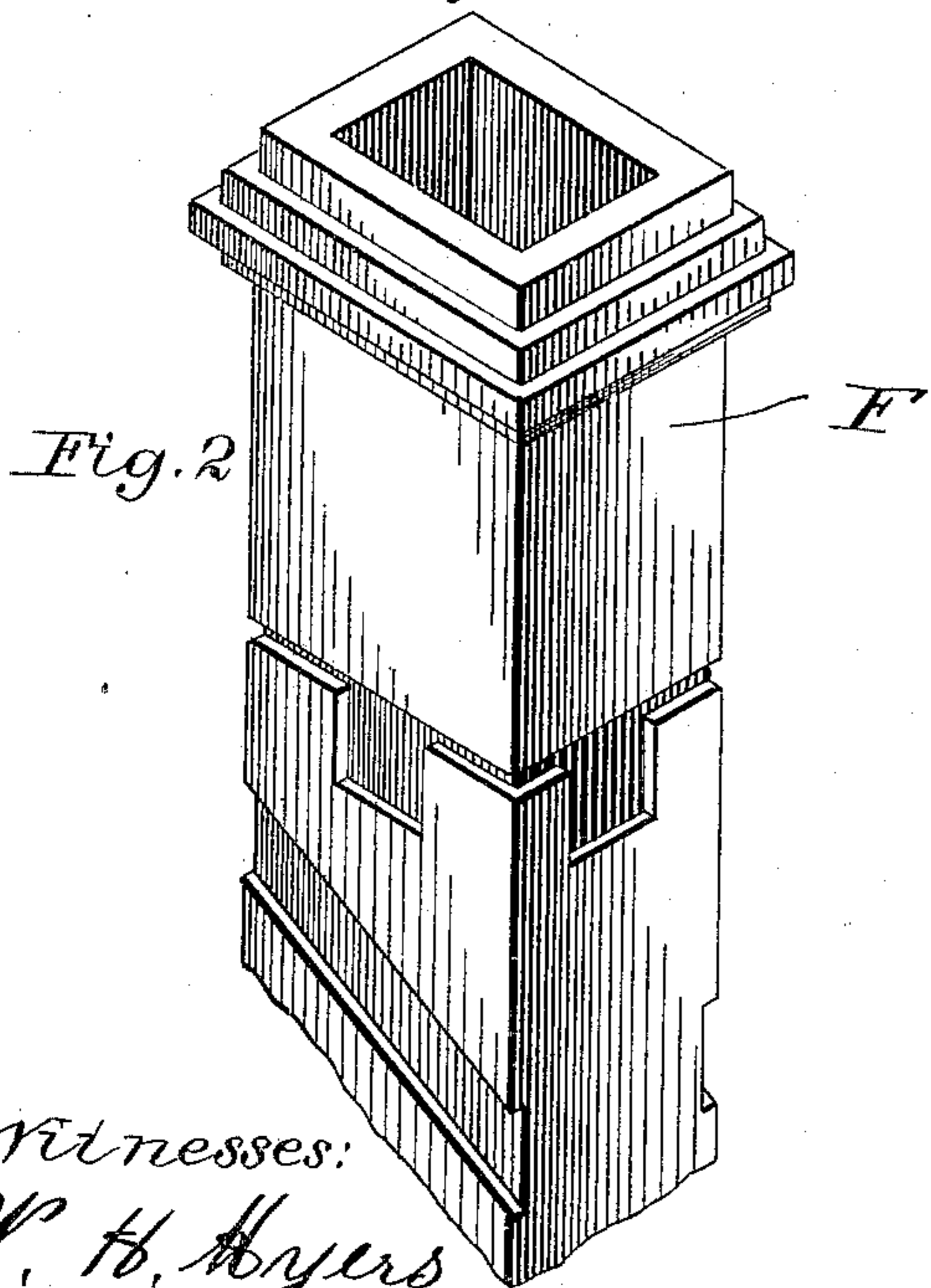
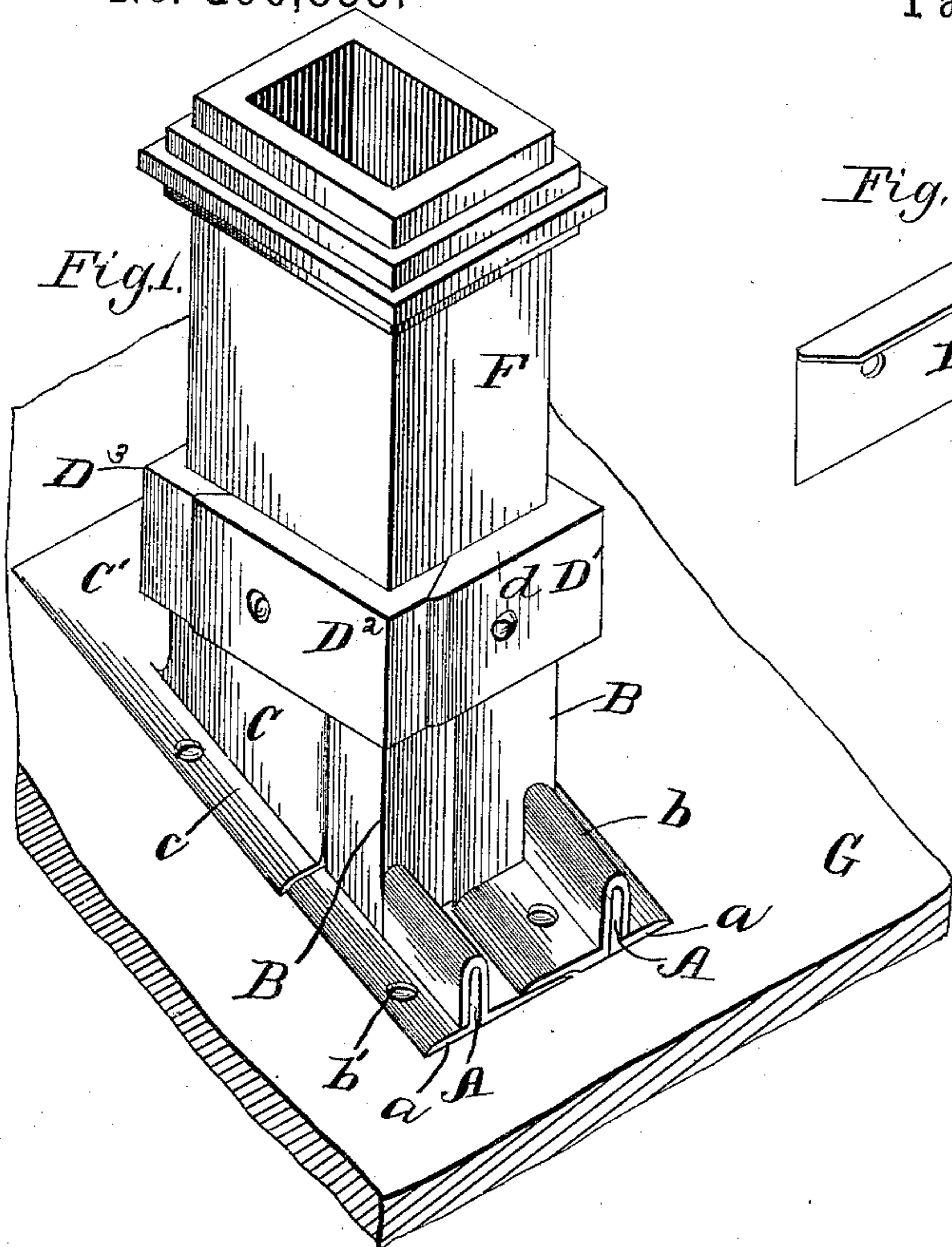
(Model.)

A. F. BRENNER & J. A. MYERS.

PROTECTOR FOR CHIMNEYS.

No. 396,855.

Patented Jan. 29, 1889.



Witnesses:
W. H. Myers
A. R. Myers.

Inventor,
Adam F. Brenner,
John A. Myers

UNITED STATES PATENT OFFICE.

ADAM F. BRENNER AND JOHN A. MYERS, OF FINNEY, KANSAS.

PROTECTOR FOR CHIMNEYS.

SPECIFICATION forming part of Letters Patent No. 396,855, dated January 29, 1889.

Application filed February 16, 1887. Serial No. 227,836. (Model.)

To all whom it may concern:

Be it known that we, ADAM F. BRENNER and JOHN A. MYERS, citizens of the United States, residing at Finney, in the county of Woodson and State of Kansas, have invented certain new and useful Improvements in Protectors for Chimneys, of which the following is a full, clear, and exact description.

Our invention relates to an improvement in chimney-protectors.

The object is to provide simple and efficient means for preventing sparks of fire or water from coming in contact with the roof or finding their way through crevices around the chimney, and to further protect the base of the chimney from the influence of moisture.

With these ends in view our invention consists in certain features of construction and combination of parts, as will be hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a view of a chimney provided with our improved protector. Fig. 2 is a view of the chimney as it would appear with the protector removed. Figs. 3, 4, 5, and 6 represent sections of the cap portion of the protector. Figs. 7 and 8 represent quarter-sections of the body portion of the protector, and Fig. 9 represents one of the base-guards.

G represents a portion of the roof of a building, and F represents a chimney projecting through said roof. Along the opposite sides of the chimney and extending downwardly from its lower corner are a pair of base-guards, consisting of an upright flange, A, and base-flange *a*, the latter portion being provided with perforations through which it may be securely fastened to the roof. A pair of corner-pieces, B, are made to conform to the corners of the chimney toward the eaves of the roof and to overlap each other, as shown. The lower ends of the corner-pieces B are provided with flanges having inverted-U-shaped portions *b*, adapted to fit over the upright portions A of the base-guards. A pair of corner-pieces, C, are shaped to fit the upper corners of the chimney—viz., the corners nearer the ridge. The pieces C overlap each other, and also overlap the edges of the pieces B. The said corner-pieces C are also provided with base-flanges *c*, which overlap the upper ends of the base-guards *a*, and when the chimney is placed

wholly to one side of the ridge, as shown in Fig. 1, extend upwardly along the roof above the chimney, as shown at C'. The flanges C' and *c* of the corner-pieces C are provided with perforations to admit of the pieces being fastened to the roof.

The tops of the corner-pieces B and C, which form the body portion of the protector, are bound together and protected by a cap provided with an inwardly-extending flange, *d*, the inner edge of which is intended to be built into the masonry of the chimney. The cap is preferably formed of four corner-sections, D, D', D², and D³, the adjacent ends of which overlap each other. The lower edges of certain of the corner-sections of the cap are cut away at their free ends, as shown at *d'*, to correspond with the irregular surface of the body portion of the protector, due to the overlapping of the adjacent edges of the corner-pieces B and C. The sections of the cap are further provided with elongated slots *d²* and corresponding perforations *d³*, through which bolts are passed to secure the sections firmly together in different adjustments to suit the slight differences which may exist in the sizes of the corner-pieces B and C. In order to insert the bolt from the outside to make a neat finish and to prevent the nut from turning when the bolt is turned, we provide a dovetail guideway, *d⁴*, to receive the beveled-edged nut *d⁵*. The tendency of the nut *d⁵*, when made with square edges and working in a corresponding guideway, of falling backward between the chimney and the cap, due to the jar incident in putting the parts together, is entirely obviated by providing the cap with the dovetail guideway and by constructing the nut with beveled edges, thereby retaining the nut in position for the insertion of the bolt. The sections of the cap might, however, be fastened together by ordinary rivets, screws, and nuts without departing from the scope of our invention.

It is intended to have the joints between the corner-sections sealed by solder to more effectually shut out moisture.

When the chimney stands at the ridge, a part on each side thereof, the corner-pieces B would be duplicated and substituted for the pieces C.

Having thus fully described our invention,

what we claim as new, and desire to secure by Letters Patent, is—

1. The combination, with the base-guards secured to the roof, of the corner-pieces fitted
5 to the chimney and base-guards, and a cap overlapping the tops of the corner-pieces and projecting into the mason-work of the chimney, substantially as set forth.

2. The combination, with the base-guards
10 secured to the roof at the lower side of the chimney; of corner-pieces fitted to the chimney and to the base-guards, and other corner-pieces fitted to the chimney and to the roof at the upper side of the chimney, the latter
15 corner-pieces being provided with flanges overlapping the base-guards, and a cap fitted to the tops of the corner-pieces, substantially as set forth.

3. The combination, with the base-guards at

the sides of the chimney, of the corner-pieces 20 forming the body of the protector, and the sectional cap composed of overlapping quarter-sections, the said sections being provided with elongated slots and bolt-holes in their overlapping ends, whereby the cap may be en- 25 larged or contracted, substantially as set forth.

4. The combination, with the chimney and sectional body portion of the protector, of the sectional cap provided with an internal flange entering the chimney-wall intermediate of the 30 roof and top of the chimney, substantially as set forth.

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Witnesses:

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