

B.K. Dormart,

Latch,

No. 62,617,

Patented Mar. 5, 1867.

Fig 1

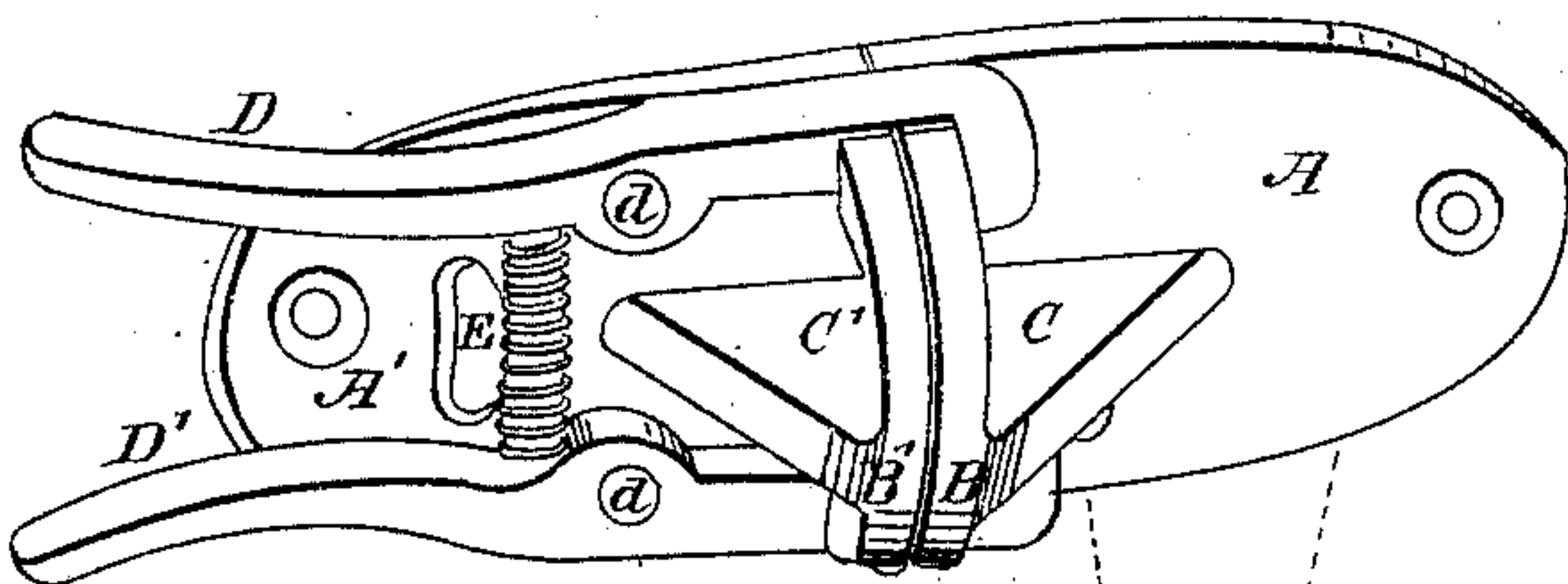


Fig 2

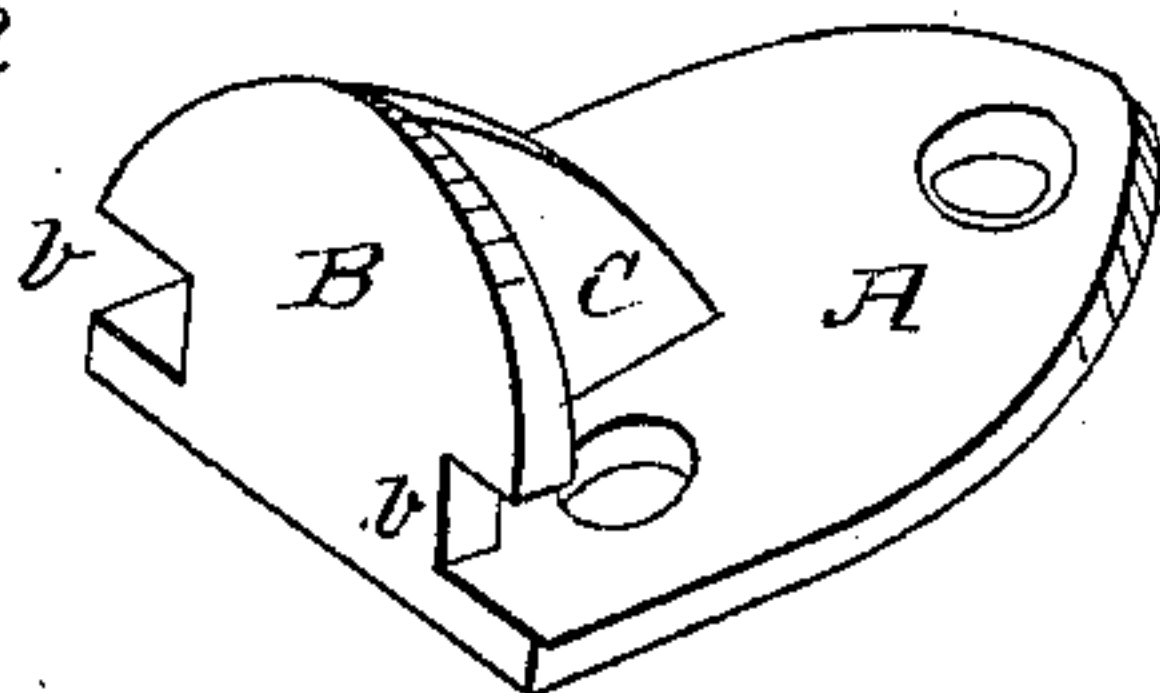


Fig 3

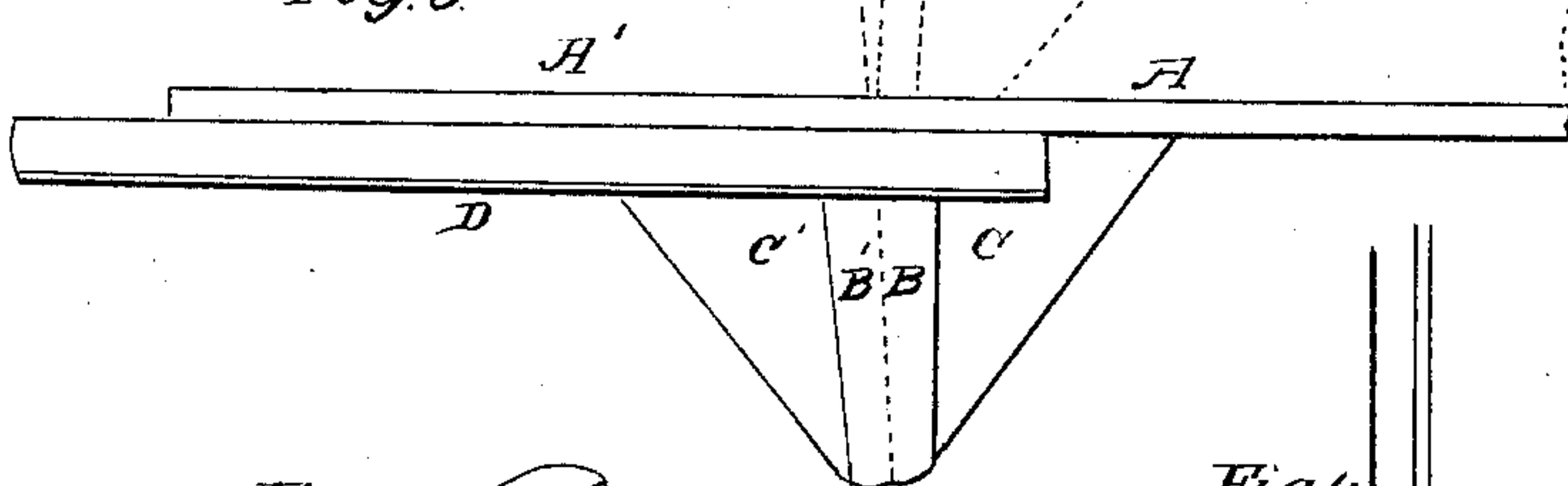


Fig 4

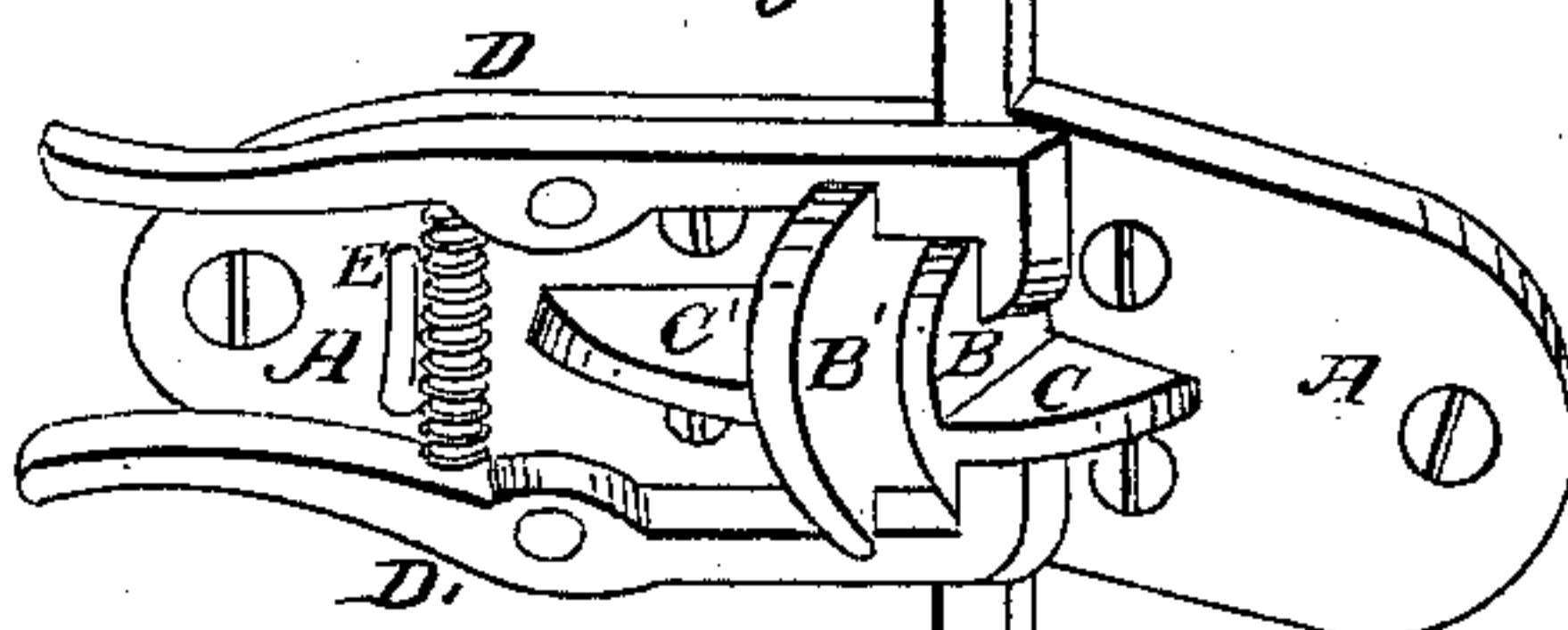
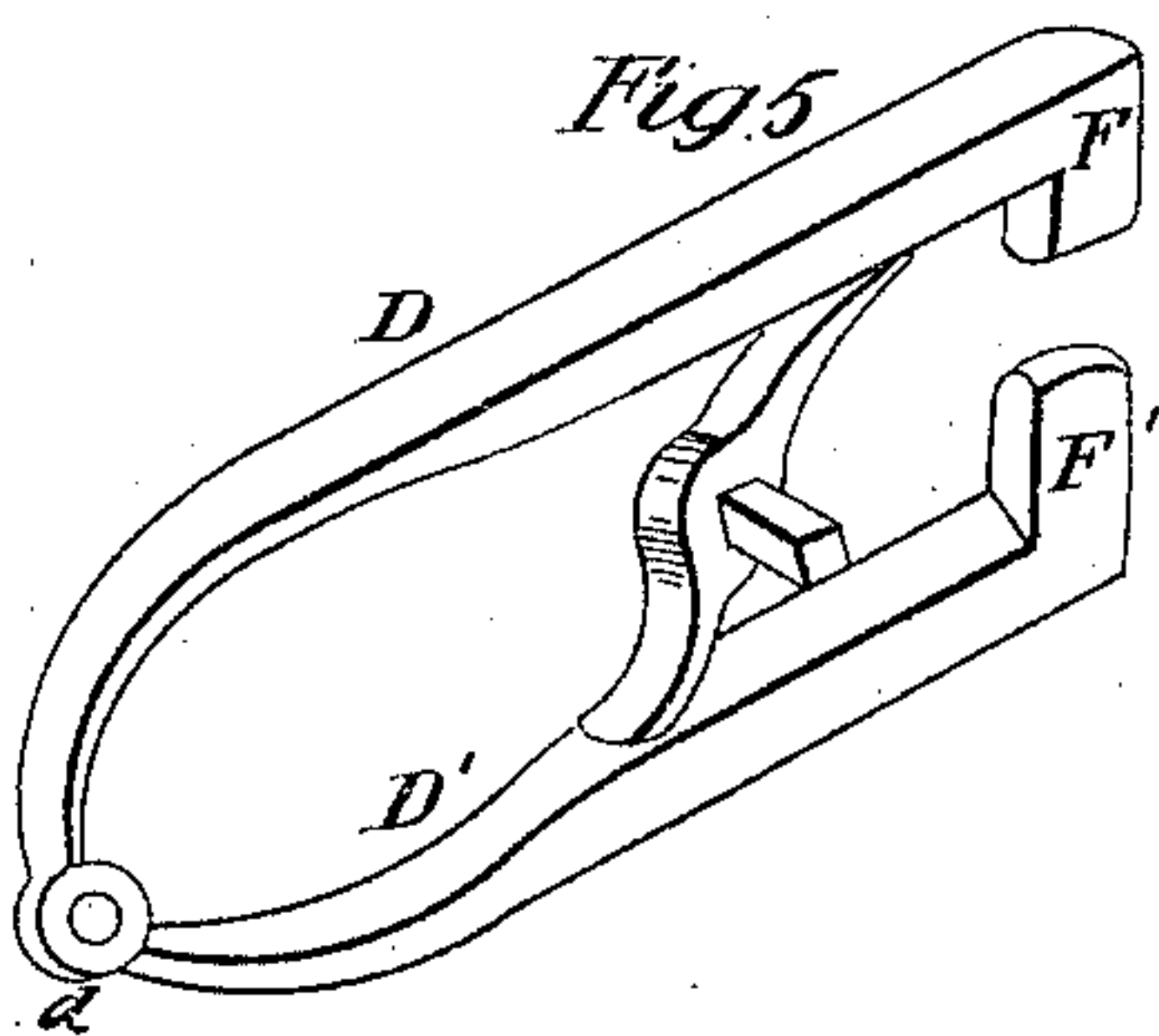


Fig 5



Witnesses

John H. Amweg
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BENJAMIN K. DORWART, OF LANCASTER, PENNSYLVANIA.

Letters Patent No. 62,617, dated March 5, 1867.

IMPROVED SHUTTER-BOLT.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, BENJAMIN K. DORWART, of the city of Lancaster, in the county of Lancaster, and State of Pennsylvania, have invented a new and improved "Self-Fastening Shutter-Bolt;" and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a perspective view of both portions of the bolt locked together.

Figure 2 shows the parts detached.

Figure 3 shows the top of the plates and bolts, with the bevelled or curvilinear faces B B' of the projecting notched catch-plates, or terminal conic flanges on the plates A A', so as to be adapted to the radius of the shutters moving on their hinges.

Figure 4 shows the plates A A' and their parts attached to their respective shutters S S', in the act of being closed.

Figure 5 shows a modification of the parallel spring-bolts D D', pressed apart by a central, double-winged, and curved lever, with a socket for a key or turning handle. Said united bolts are held by a central rivet on their spring ends.

The object of this invention is to secure shutters firmly from the outside by simply pushing them into place. The long bolts in common use are frequently bent and troublesome to bolt. Bottom bolts are objectionable for various reasons. This bolt, it is confidently believed, when introduced to the trade as a new article of manufacture, will meet with general favor, being admirably adapted for the purpose, simple, neat, and strong, and can be furnished at prices as low as ordinary bolts, and made ornamental and strong, to suit the fancy as well as the security of stores and dwellings.

To enable others skilled in the art to make and use my invention, a simple inspection of the drawings would suffice.

I will briefly state that the plate A, with its bevelled or slightly-curved raised face B, may be strengthened by a back-brace, C. This conical flange B has a notch, *b*, on each side for the reception of the bolts D D', and is firmly fastened to one of the wings or shutters. The other plate A' is similar having a braced conical flange, C' B', to match. This plate has a bolt, D, above, and a similar bolt, D', below, in a reversed position, held by a central pivot, *d*, and resting in the notch *b'* of the conical flange B', extending over into the notch *b*, in the other flange B, on the plate A. Said bolts D D' are terminated by a hook, F, which locks the several flanges B B' firmly together, uniting the plates attached to the separate shutters. The ends of the bolts may be curved, and will form handles for opening the bolts. There is also a spiral spring, E, shown, and a supporting ledge to confine the spring. It will be seen (fig. 4) that when the one shutter S', with its portion of the bolt A' B' C', is in place, the other wing or portion S being pushed in from the outside, or drawn in by an ordinary ring on the inside, the conic flange B will enter between the bolts and terminal hooks F, and wedge the bolts apart, until they both fall into their respective notches *b* by the action of the spring E, and thus firmly lock both parts together. In order to open the same, it is only necessary to press the lever ends of the bolts D D' (held on their strong pivots *d*) together, which raises the hooks or bolts out of the notches *b* in the plate A, and the shutters are readily thrown open. The operation is as simple as it is satisfactory. As intimated, one of the flanged faces B must incline, or be slightly concave, and the other face B' of a convexity to match and adapt them to the radius of a semicircle traversed by the shutter, from the hinge to the inner or joining edges of the same, in closing. I am aware that spring locks with hooked bolts, separated by a conical catch, with a notch on each side, entering vertically between the rounded hook ends of the bolts, such as chest locks, are in use. Such I do not claim. But I am not aware that shutter-bolts were ever constructed or used in the manner specified, entering on the sides, or behind the hooks on the bolts, as shown. These bolts may be made straight, without the hooks F, and will answer equally well in holding the parts together.

What I claim as my invention, as a new article of manufacture, is—

A shutter-bolt, when composed of two twin plates A A', each provided with a raised conic flange B, notched at base for the reception of the horizontal bolts D D', in the manner and for the purpose specified.

BENJ. K. DORWART.

Witnesses:

JOHN M. AMWEG,
JACOB STAUFFER.