

(No Model.)

E. R. FERRY.

FASTENER FOR THE MEETING RAILS OF SASHES.

No. 466,821.

Patented Jan. 12, 1892.

Fig. 1

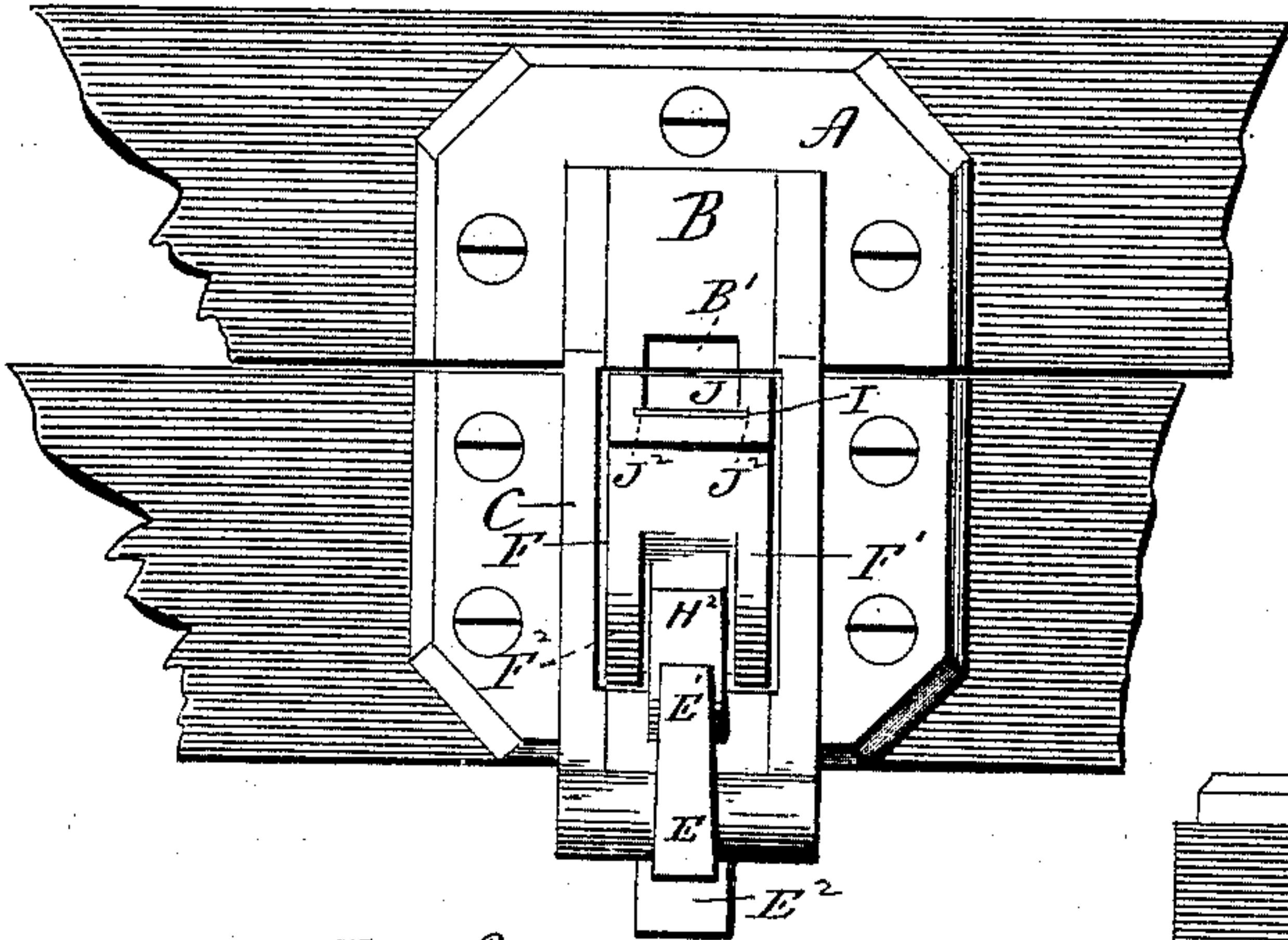


Fig. 2

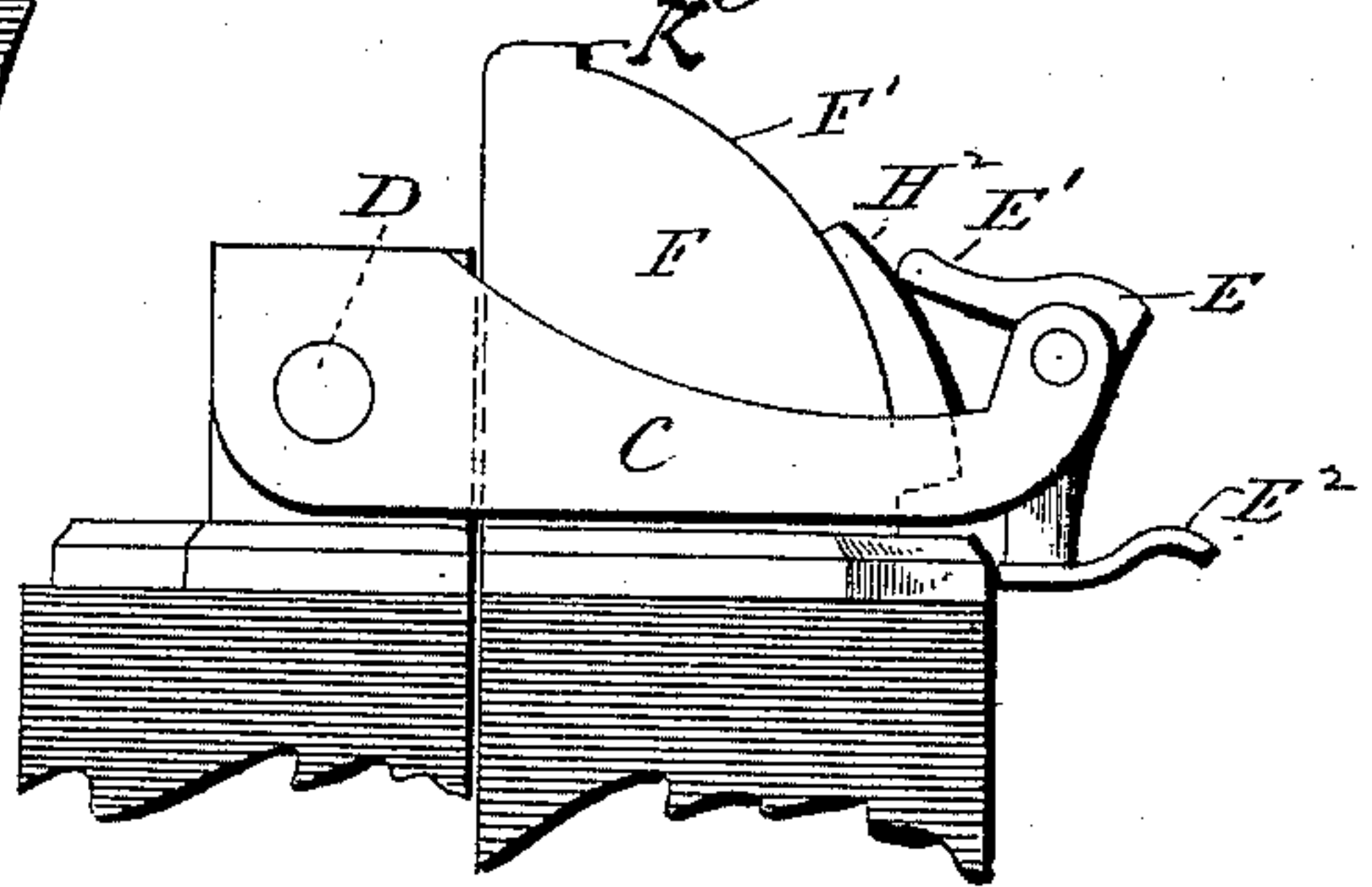


Fig. 3

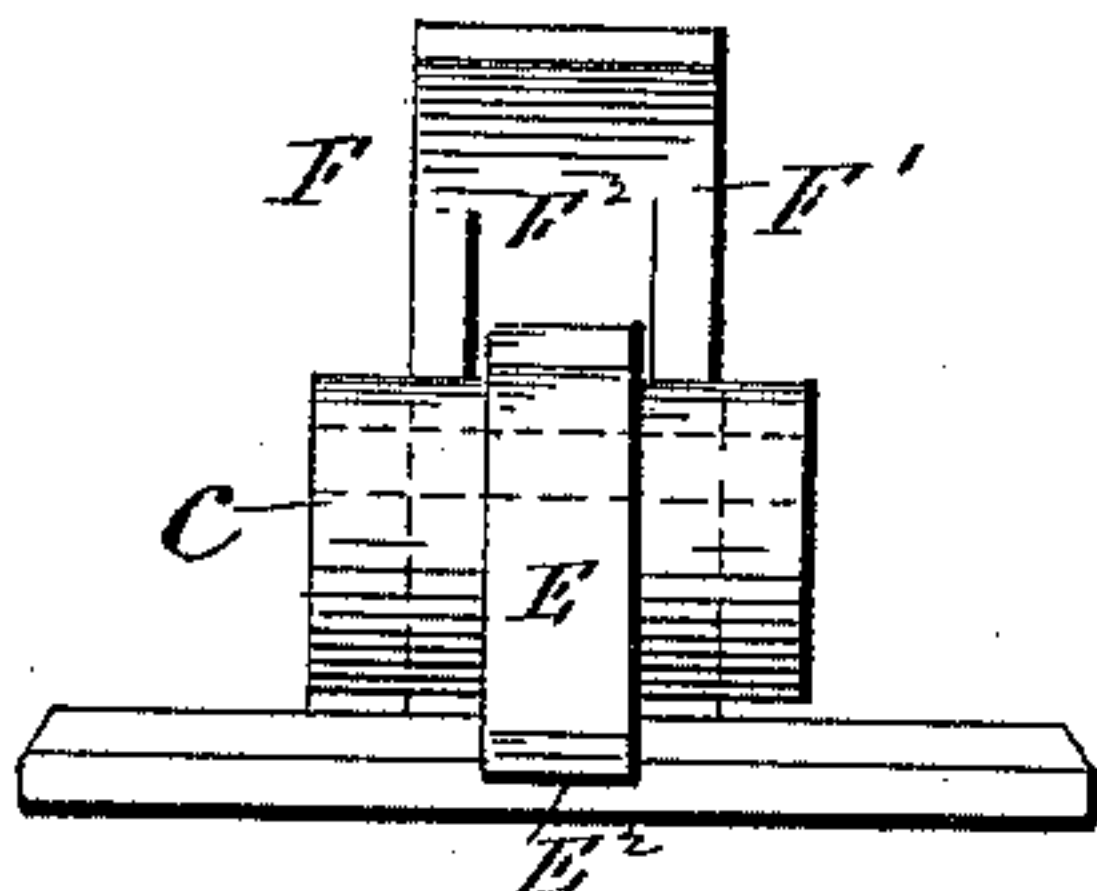


Fig. 6

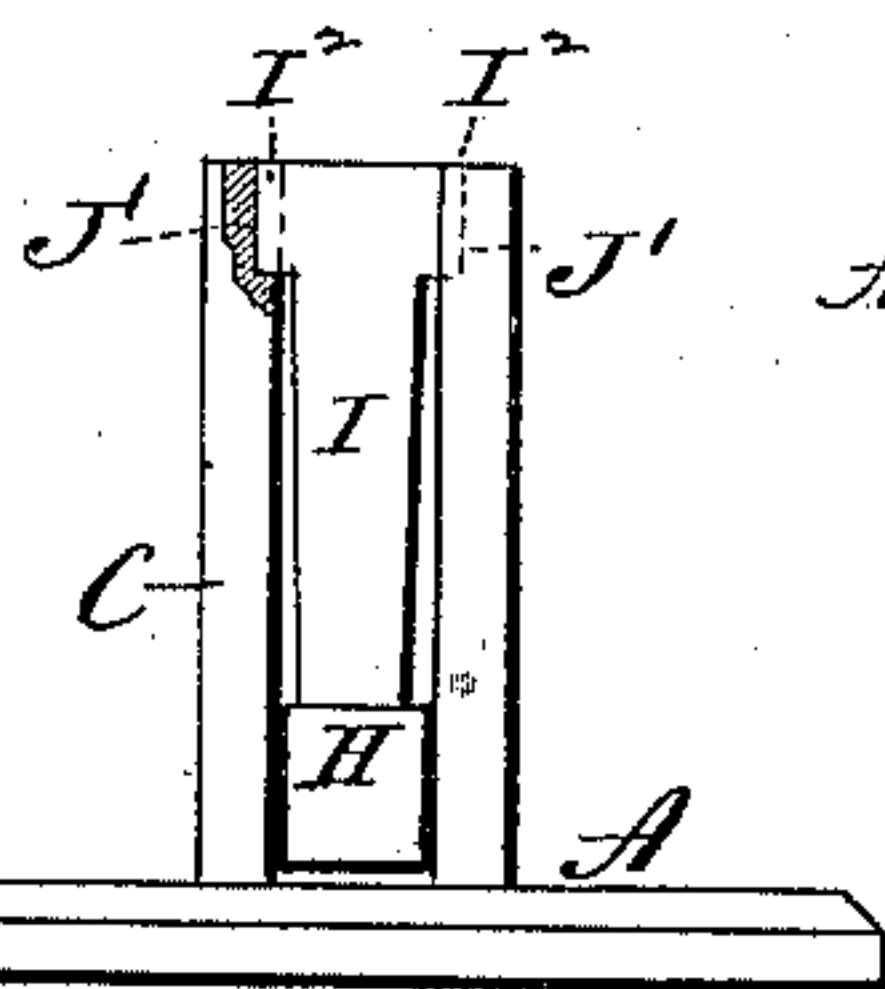


Fig. 4

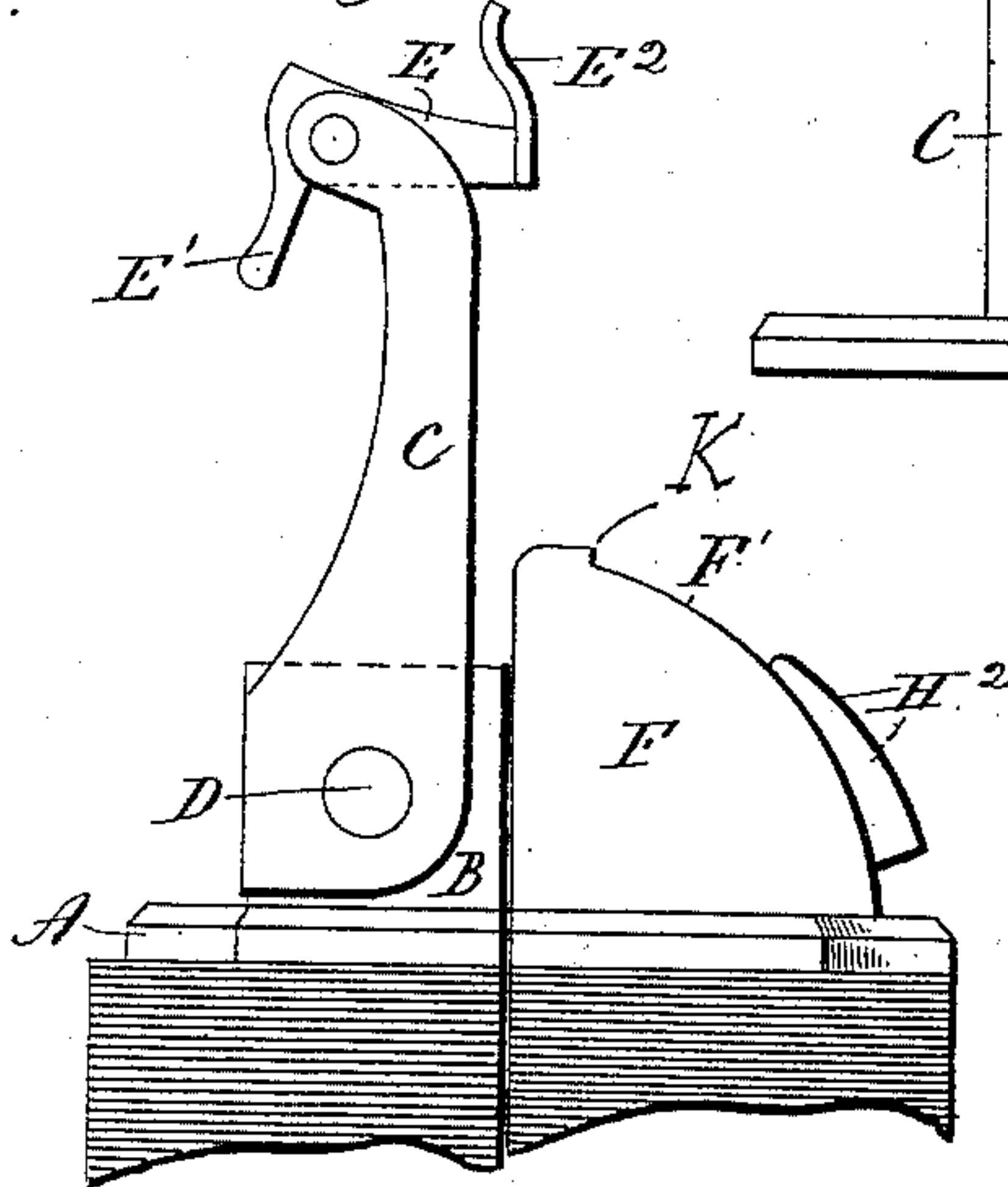


Fig. 5

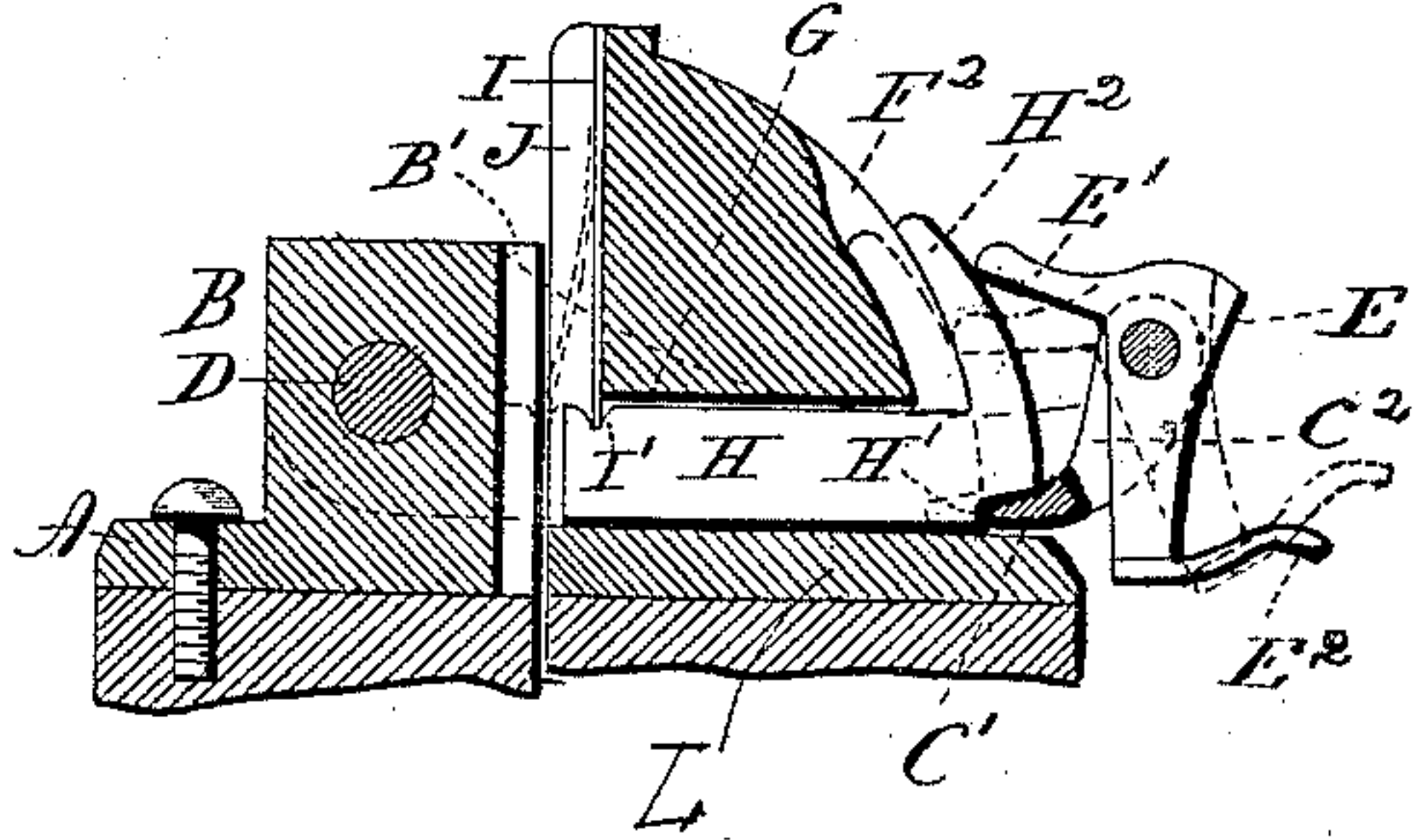
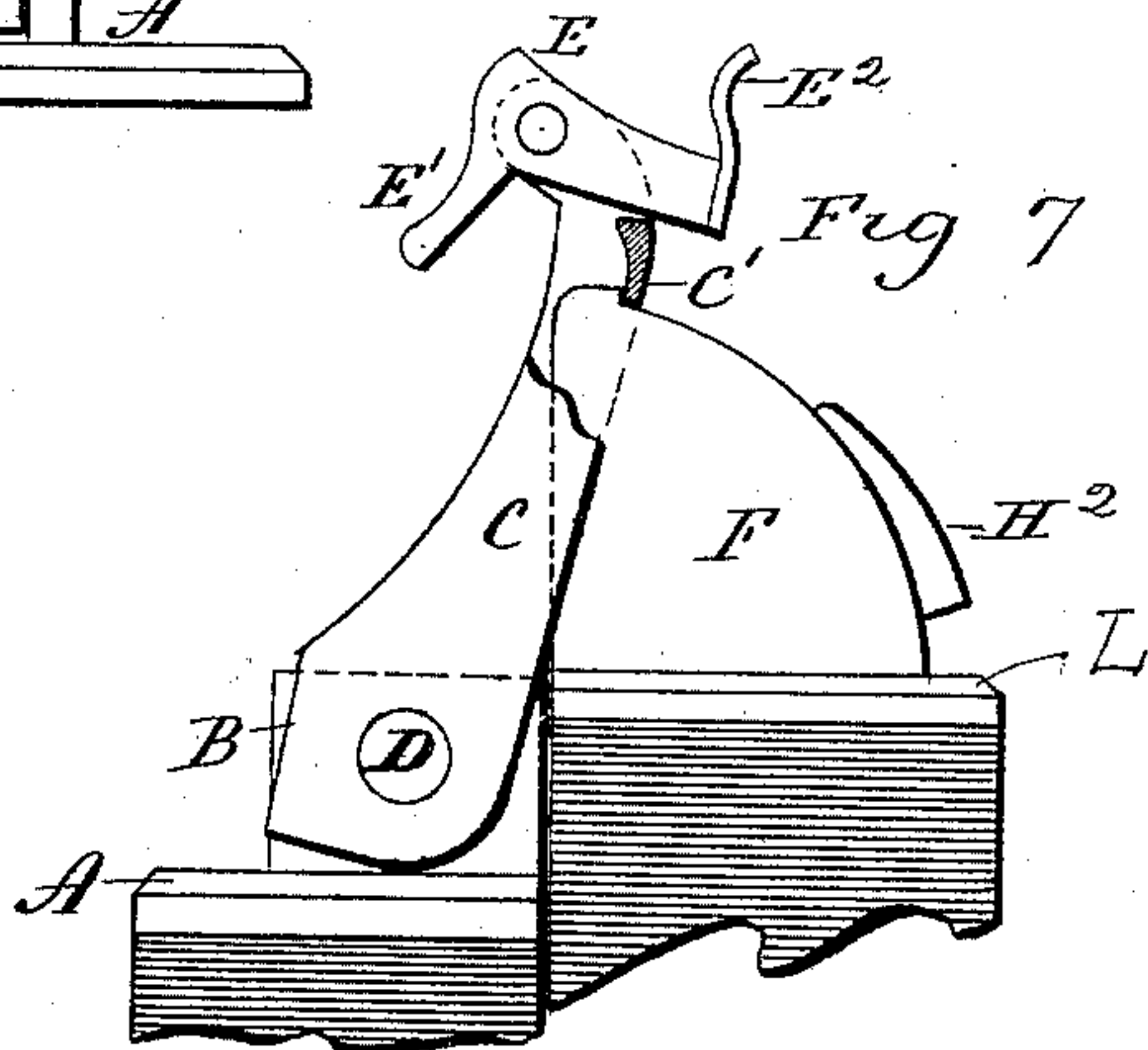


Fig. 7



Witnesses.

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UNITED STATES PATENT OFFICE.

EDWIN R. FERRY, OF NEW HAVEN, CONNECTICUT.

FASTENER FOR THE MEETING-RAILS OF SASHES.

SPECIFICATION forming part of Letters Patent No. 466,821, dated January 12, 1892.

Application filed May 4, 1891. Serial No. 391,484. (No model.)

To all whom it may concern:

Be it known that I, EDWIN R. FERRY, of New Haven, in the county of New Haven and State of Connecticut, have invented a new Improvement in Sash-Fasteners; and I do hereby declare the following, when taken in connection with accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a plan view of a sash-fastener constructed in accordance with my invention and applied to the meeting-rails of the ordinary upper and lower sashes of a window; Fig. 2, a view of the device in side elevation in its locked position; Fig. 3, a view of the device in front elevation in the same adjustment; Fig. 4, a view of the device in side elevation in its unlocked adjustment; Fig. 5, a view of the device in vertical longitudinal section, the retirement of the locking-dog by the operating-piece being indicated by broken lines; Fig. 6, a detached broken view in rear elevation of the base-plate and chambered upright of the lower sash; Fig. 7, a view of the device partly in elevation and partly in section, and showing its use for supporting the upper sash in a slightly-lowered position for ventilation.

My invention relates to an improvement in sash-fasteners, the object being to produce a simple, durable, convenient, and effective device.

With these ends in view my invention consists in a sash-fastener having certain details of construction and combinations of parts, as will be hereinafter described, and pointed out in the claims.

The base-plate A of the upper sash is provided with an upright post B, which is embraced by the free ends of the two arms of a yoke-shaped lever C, the said ends of the arms being pivotally secured to the post by a pin D. The outer end of the said lever is constructed with a locking-edge C' and is slotted, as at C², to receive a pivotal finger-piece E, having an inwardly-projecting finger E' at its upper end and an outwardly-projecting finger E² at its lower end. The said finger-piece may, however, have other forms than that shown, if desired. It may, for instance,

be constructed for reciprocal instead of pivotal movement. The inner face of the post B is constructed with a shallow vertical groove B', forming a clearance-space, for a purpose to be hereinafter mentioned. The base-plate L of the upper sash is constructed with a chambered upright F, having its outer edge curved to form the lifting-face F', the said upright being adapted in its dimensions to have the yoke-shaped lever drawn over it, as clearly shown in Figs. 2 and 5 of the drawings. A horizontal chamber G, extending through the lower portion of the said upright, receives the shank H of a locking-dog, which is provided at its outer end with a notch H', adapting the dog to engage with the locking-edge C' of the said lever. The said end of the dog is provided with a curved finger H², for which a recess F² is formed in the curved face of the upright. This curved finger is provided for engagement by the inwardly-projecting finger E' of the operating-piece E, whereby the locking-dog is retired to clear its notch H' from the locking-edge C' of the lever. The said dog is normally pushed outward by means of an upright flat sheet-metal spring I, entered at its lower end into a transverse notch I', formed in the upper edge of the extreme inner end of the shank H of the dog. This spring is located in a vertical groove J, formed in the inner face of the chambered upright and secured in place by providing its upper end with two narrow lateral extensions I²I², which are inserted into slits J' J', offsetting from the upper end of the said groove J. Under this construction the spring is simply and firmly secured in place without perforating it to receive a rivet, whereby its usefulness is greatly prolonged. When the said dog is retired, its inner end and also a portion of the said spring enter the vertical groove B', formed in the inner face of the post. The said chambered upright is provided at the upper extremity of its curved lifting-face with a shoulder K, which co-operates with the locking-edge C' of the yoke-shaped lever, as shown by Fig. 7 of the drawings, in sustaining the upper sash in a very slightly lowered position for ventilation.

Under the described construction the yoke-shaped lever co-operates with the lifting-face of the chambered upright in lifting the up-

per sash into its locking position and drawing the two sashes together in case they are not rightly adjusted before the lever is drawn over the upright. When the lever is in its locked position, it is impossible to tamper with the device from the outside of the window, as a knife or any thin edge inserted between the sashes cannot be manipulated so as to lift the lever. The several parts of the device, as will be observed, are of strong and simple construction, and will not therefore break or get out of order.

I have already stated that the operating-piece, instead of being pivotally mounted in the outer end of the lever, may be mounted so as to reciprocate therein. Under this construction the shape of the outer end of the locking-dog will be somewhat changed. I would therefore have it understood that I do not limit myself to the exact construction herein shown and described, but hold myself at liberty to make such changes and alterations therein as fairly fall within the spirit and scope of my invention.

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a sash-fastener, the combination, with a base-plate provided with a post, of a yoke-shaped lever pivoted thereto, an operating-piece mounted in the outer end of the said lever, a base-plate provided with a chambered upright having its outer edge curved to form a lifting-face to co-operate with the lifting-lever which fits over the upright, and a spring-actuated dog mounted horizontally in the said upright to engage with the outer end of the lever and lock the same in its closed position, substantially as set forth.

2. In a sash-fastener, the combination, with a base-plate provided with a post, of a yoke-shaped lever pivoted thereto, an operating-piece mounted in the outer end of the said lever which has a locking-edge, a base-plate provided with a chambered upright having its outer edge curved to form a lifting-face and constructed with a shoulder located at the upper extremity thereof, and a spring-actuated locking-dog mounted horizontally in

the said upright to engage with the locking-edge of the lever, substantially as set forth, and whereby the upper sash may be sustained in a slightly-depressed position for ventilation by engaging the said edge of the lever with the shoulder of the upright.

3. In a sash-fastener, the combination, with a base-plate provided with a post, of a yoke-shaped lever pivoted thereto, an operating-piece mounted in the outer end of the said lever, a base-plate provided with a chambered upright having its outer edge curved to form a lifting-face which co-operates with the lever which fits over the said upright, a locking-dog mounted horizontally in the said upright and adapted to engage with the outer end of the lever and lock the same in its closed position, and a flat sheet-metal spring located in an upright recess formed in the inner edge of the upright, engaging at its lower end with the said dog, which it actuates, and secured in place by fitting lateral extensions of its upper end into slits offsetting from the said groove, substantially as set forth.

4. In a sash-fastener, the combination, with a base-plate provided with a post, of a yoke-shaped lever pivoted thereto, an operating-piece pivotally mounted in the outer end of the said lever and provided with an inwardly-projecting finger, a base-plate provided with a chambered upright having its outer edge curved to form a lifting-face which is recessed, and a spring-actuated dog mounted horizontally in the said upright to engage with the outer end of the yoke and lock the same in its closed position and provided at its outer end with a curved finger fitting into the recess in the curved face of the upright and adapted to be engaged by the inwardly-projecting finger on the operating-piece, substantially as set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

EDWIN R. FERRY.

Witnesses:

FRED C. EARLE,
J. H. SHUMWAY.