

No. 641,777.

Patented Jan. 23, 1900.

D. KELLY, JR.
PHOTOGRAPHIC PLATE HOLDER.

(Application filed Nov. 18, 1899.)

(No Model.)

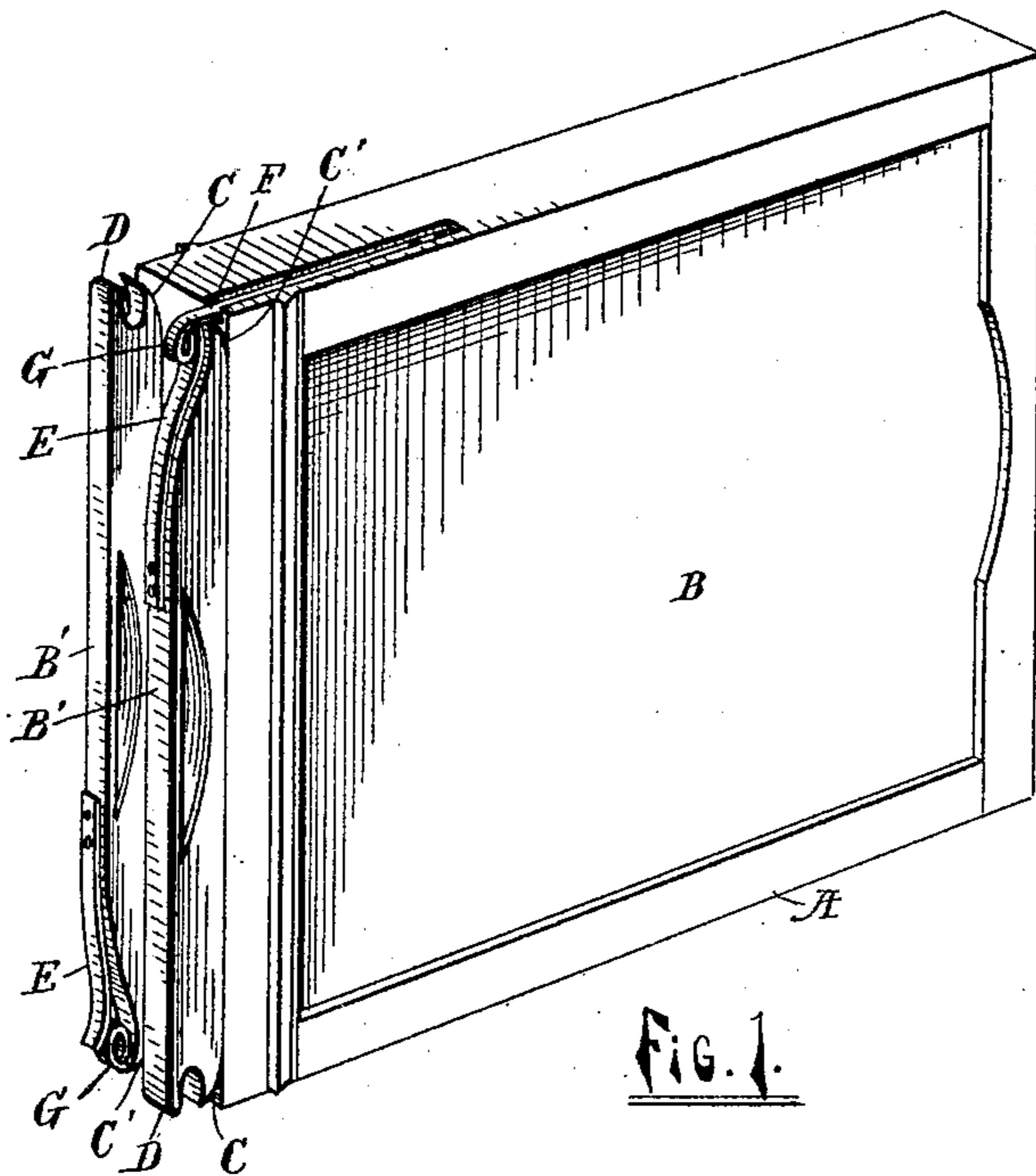


Fig. 1.

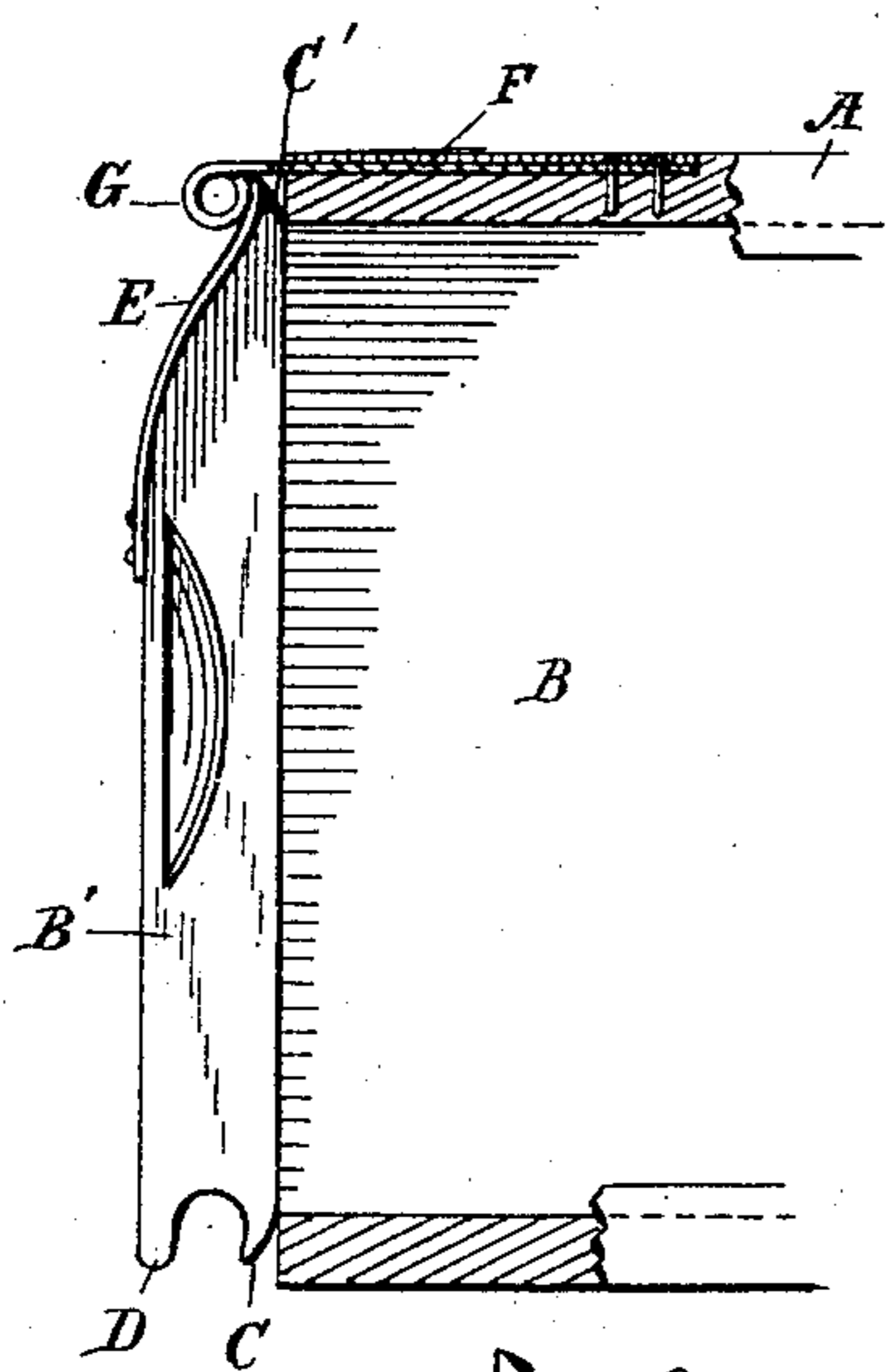


Fig. 2.

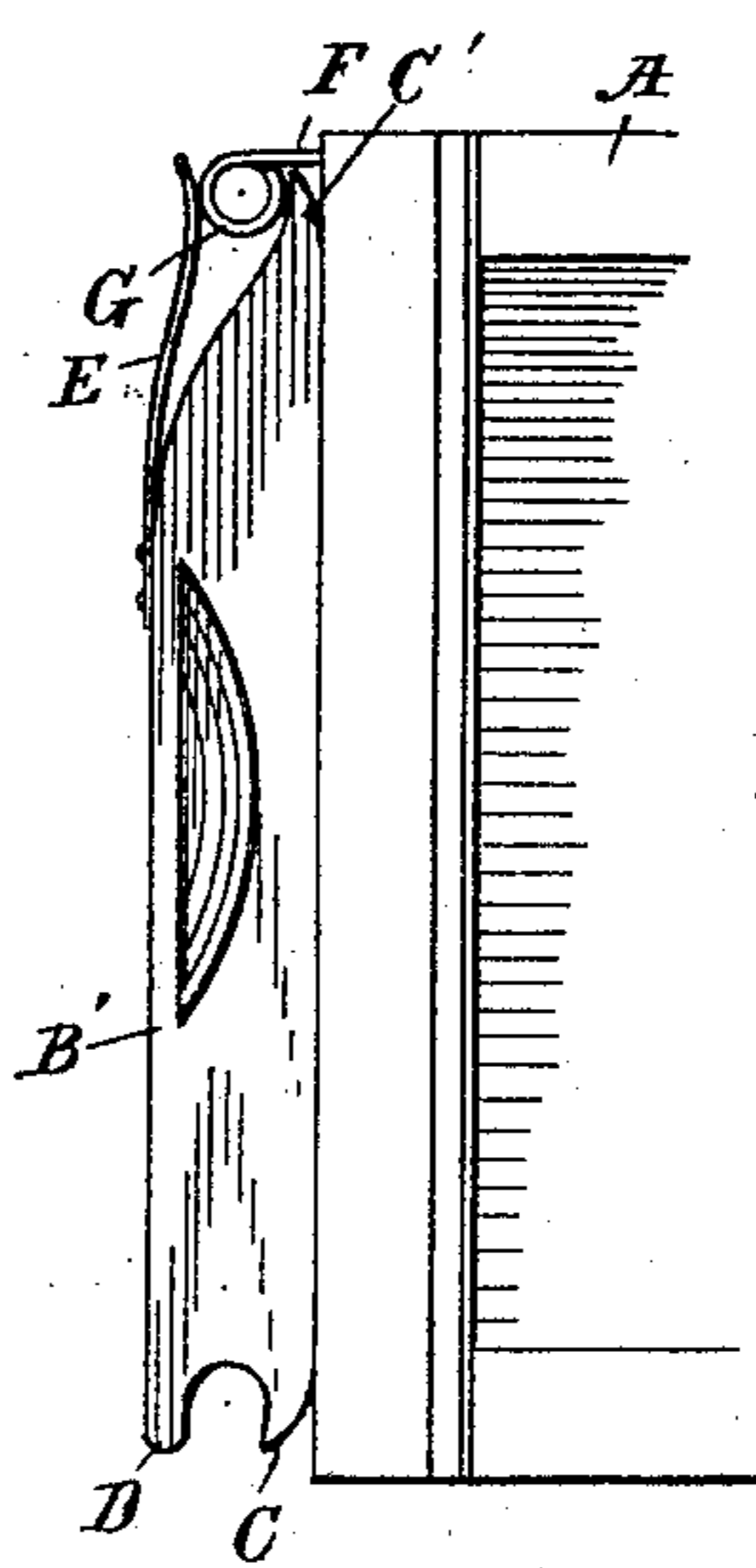


Fig. 3.

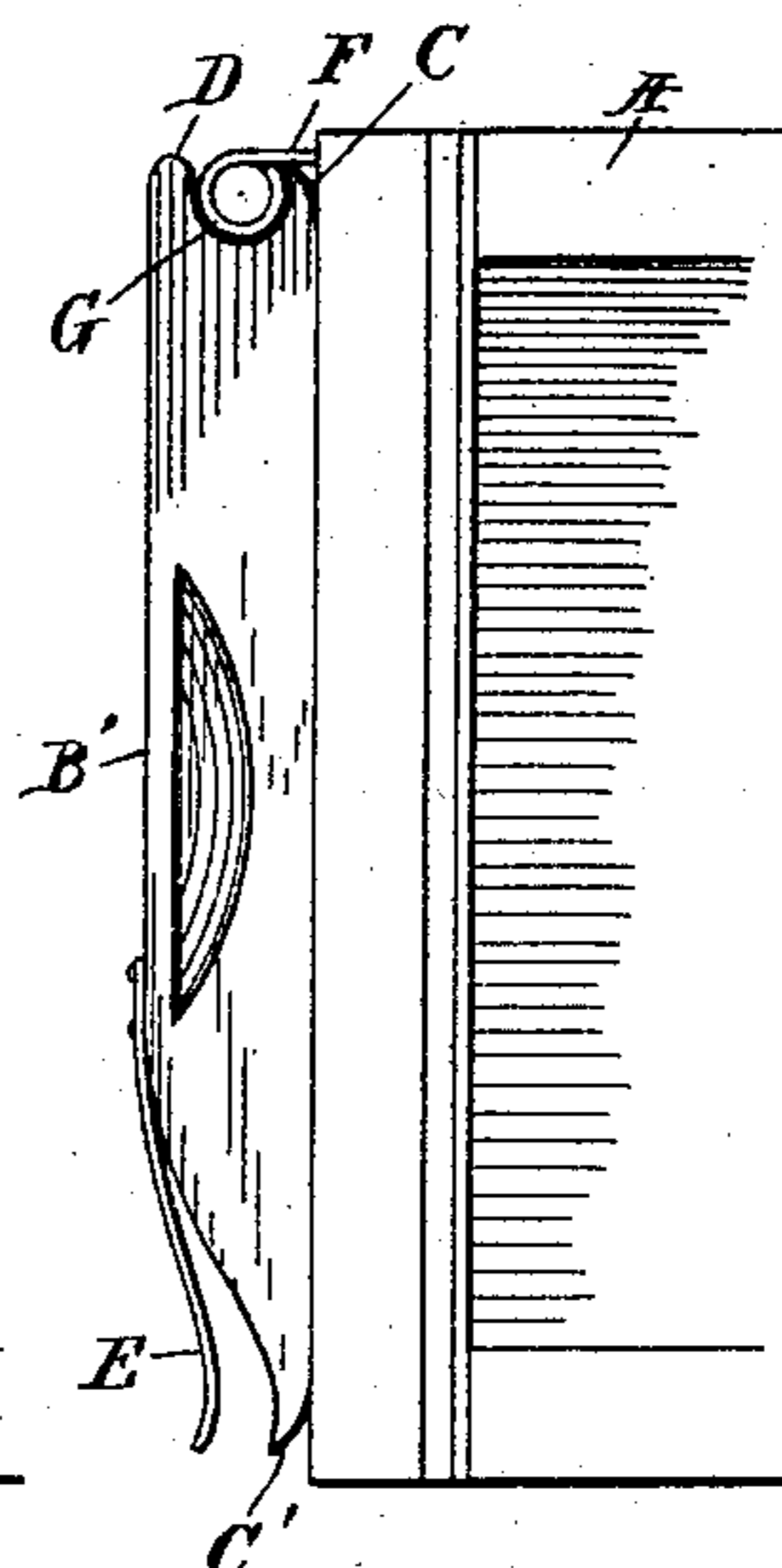


Fig. 4.

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PHOTOGRAPHIC-PLATE HOLDER.

SPECIFICATION forming part of Letters Patent No. 641,777, dated January 23, 1900.

Application filed November 18, 1899. Serial No. 737,399. (No model.)

To all whom it may concern:

Be it known that I, DANIEL KELLY, Jr., a citizen of the United States, residing at Muskegon, in the county of Muskegon and State of Michigan, have invented certain new and useful Improvements in Photographic-Plate Holders; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in photographic-plate holders; and its object is to provide means whereby the slide thereof will be securely held in closed position, and also means whereby after exposure of the plate and return of the slide to place it cannot be again inadvertently exposed, and means whereby the fact that a plate has been exposed will be readily indicated, as hereinafter more fully described, and particularly pointed out in the claims.

My device consists, essentially, in a spring-stop adapted to engage a projection on the slide, a flexible strip of metal adapted to engage the respective sides of the stop as occasion requires, and a projection on the slide to shield the stop and prevent opening the same, as hereinafter more fully described.

Reference is to be had to the accompanying drawings, in which—

Figure 1 is a perspective of a device embodying my invention; Fig. 2, an elevation of a portion of the same with parts broken away, and Figs. 3 and 4 like elevations showing different positions of the slide.

Like letters refer to like parts in all of the figures.

A represents the plate-holder as usually constructed, and B the slide, covering the photographic plate and adapted to be withdrawn to expose the same. B' is the bar on the outer end of this slide, which is provided with curved projections C and C' at its respective angles adjacent to the plate-holder, said projection being adapted to engage and be held by the downwardly-projecting cylindrical end G, forming a downwardly-projecting stop on the end of the spring F. Said spring is recessed in the plate-holder, as shown, and secured thereto at its inner end. One end of the bar B' is cut away at the outer angle, as shown,

and a flexible strip of metal forming a spring E is attached to the bar at one end and extends in the plane of the bar, and when sprung inward extends along the outer edge thereof and at its free end terminates between the stop G and the projection C, as shown in the upper part of Figs. 1 and 2, the normal position of the spring E when released being as shown in the lower part of Fig. 4. The other end of the bar B' is provided with a projection D, adapted to pass outside of the stop G, as shown in Fig. 4, and thus preventing inadvertently opening the slide.

From the foregoing description the operation of my device will be readily understood. Before exposure of the plates the stop G and spring E are adjusted as shown in the upper part of Figs. 1 and 2. In this position there is no obstruction to prevent raising the stop by placing the finger beneath the same, and thus releasing the slide. When the slide is returned to place again after exposure, the spring E will automatically assume the position shown in Fig. 3, resting upon the outside of the stop G, and thus prevent any release of the same. This will prevent inadvertently exposing the plate again and will also notify any person at sight that the plate has been exposed. Should the slide be reversed and returned to place, the projection D will cover the outside of the stop and prevent raising the same. Fig. 2 shows the position of the parts before the plate is exposed, and Figs. 3 and 4 show the parts after exposure with the slide in reverse positions.

If for any reason it becomes necessary to withdraw the slide after exposure, the stop G can readily be lifted out by seizing the ends of the cylindrical portion between the thumb and finger and lifting it out from between the projection C' and spring E or the projections C and D, as the case may be. The necessity for so doing, however, would immediately notify any one that they were attempting to withdraw the slide from over an exposed plate. By rendering it unnecessary to reverse the slide and by the automatic action described no attention need be paid to reversal of the slide or returning the same to place.

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

1. In combination with a plate-holder having a removable slide, a stop attached to the plate-holder, a projection on the slide to engage the stop, and a spring on the slide adapted to engage the respective sides of the stop, substantially as described.

2. In combination with a plate-holder having a reversible slide, a stop attached to the plate-holder, projections at opposite sides of the slide adapted to engage the inner side of the stop, and a projection on the slide adapted to cover the outer side of the stop, substantially as described.

3. In combination with a plate-holder having a slide, a stop attached to the plate-holder, projections at opposite sides of the slide adapted to engage the inner side of the stop, a spring at one side of the slide adapted to alternately engage the respective inner and outer sides of the stop, and a projection at the other side of the slide adapted to cover

the outer side of the stop, substantially as described.

4. In combination with a plate-holder and a removable slide for the same, a transverse bar on the end of the slide having one end reduced and provided at its respective ends with projections, a spring-stop attached to the plate-holder and adapted to engage the projections on the bar, a spring attached to the bar and adapted to alternately engage the respective inner and outer sides of the said stop, and a projection on the bar adapted to cover the outer side of the stop, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

DANIEL KELLY, JR.

Witnesses:

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M. H. BRENNAN.