

(No Model.)

H. W. STEINER.
LOCK HINGE.

No. 408,441.

Patented Aug. 6, 1889.

Fig. 1.

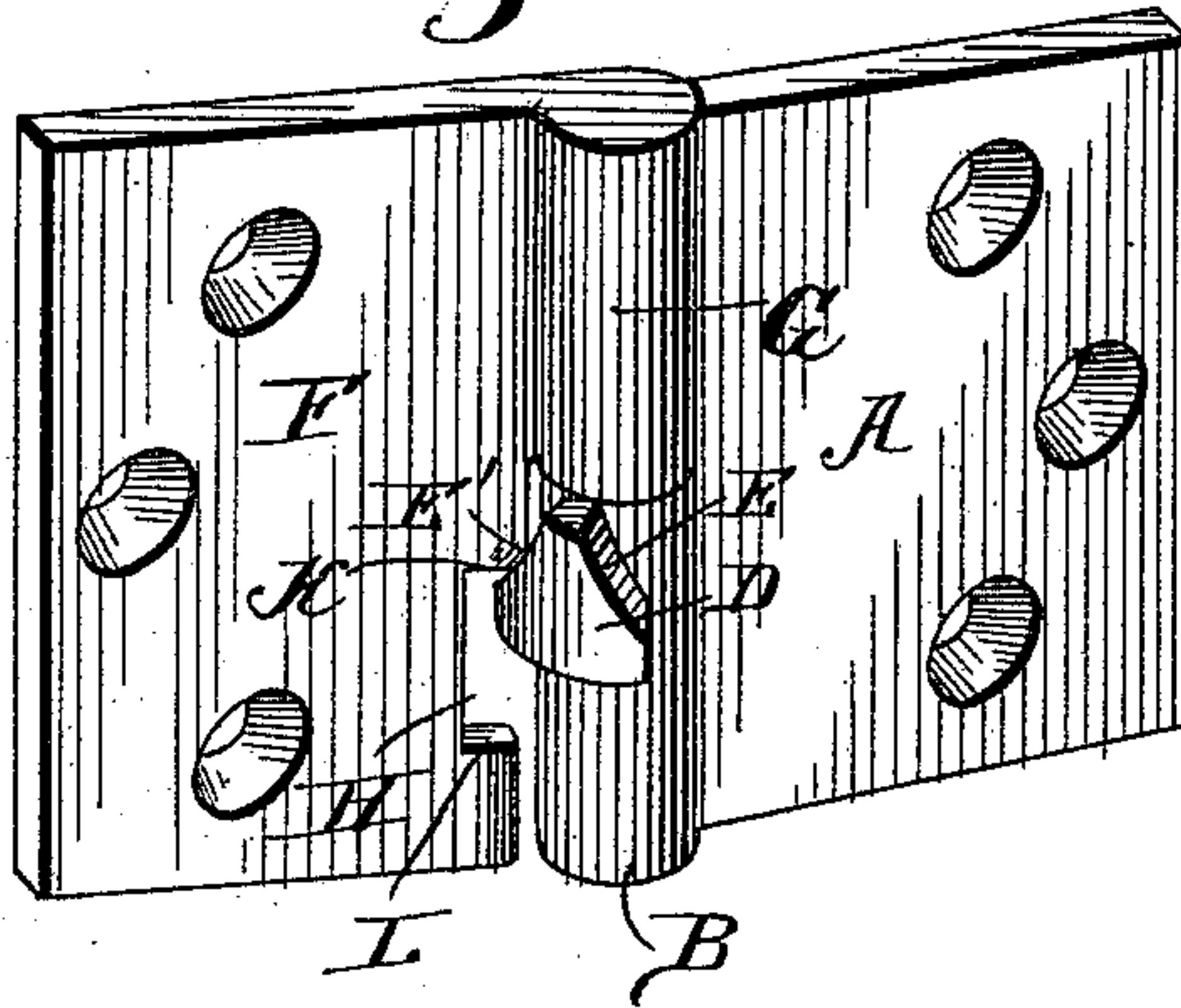


Fig. 2.

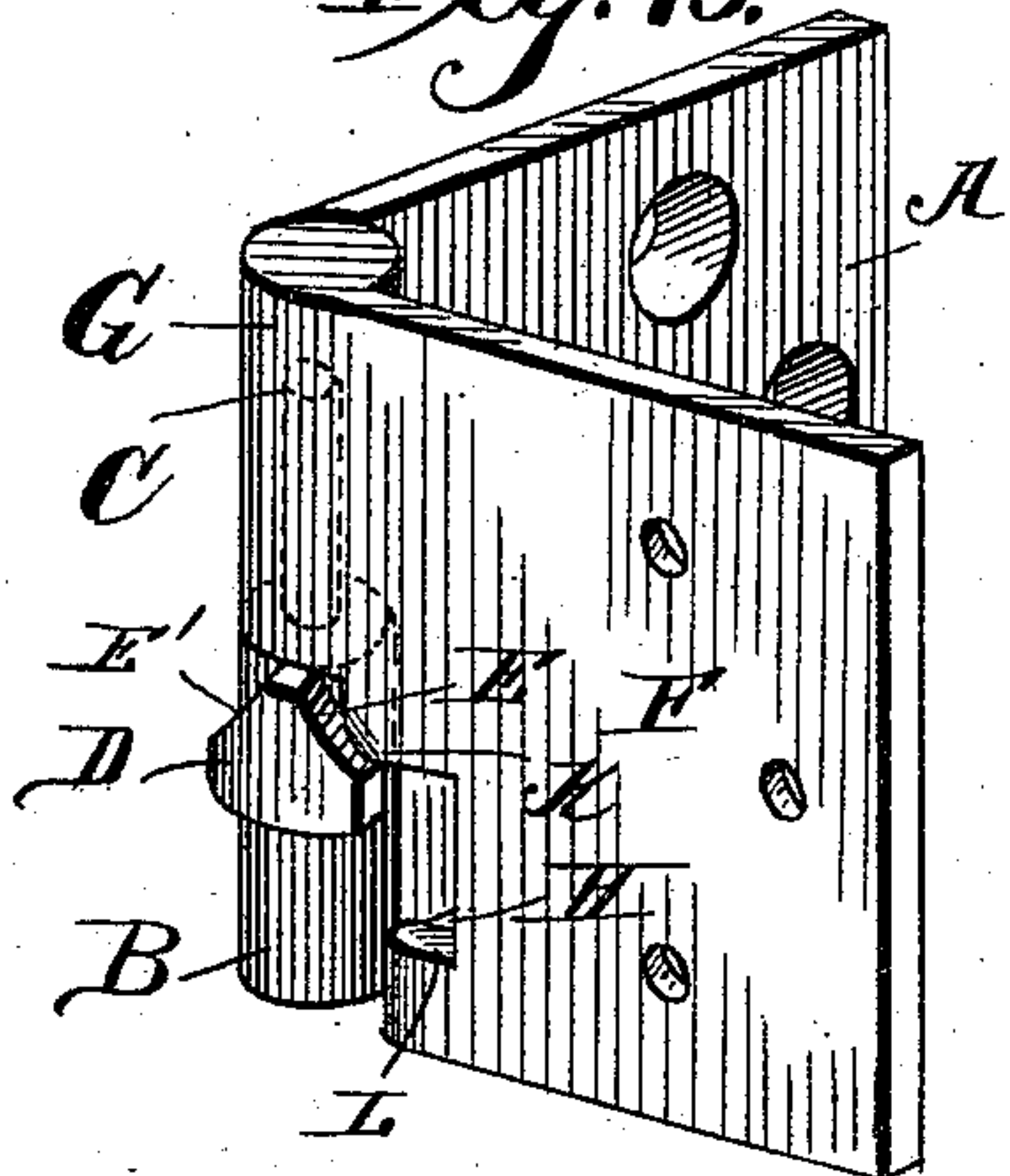


Fig. 3.

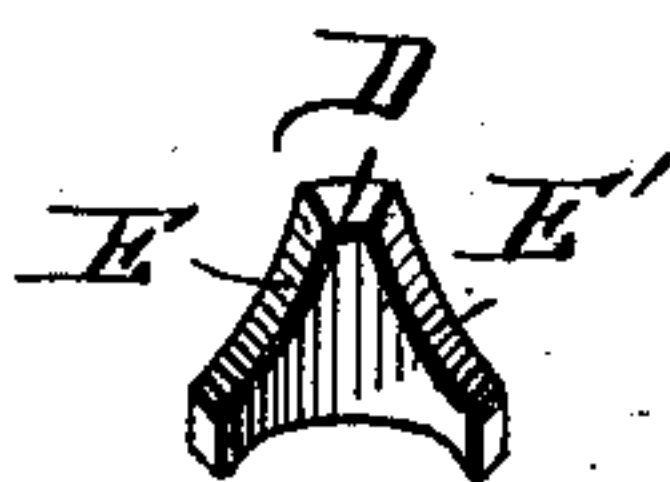


Fig. 4.

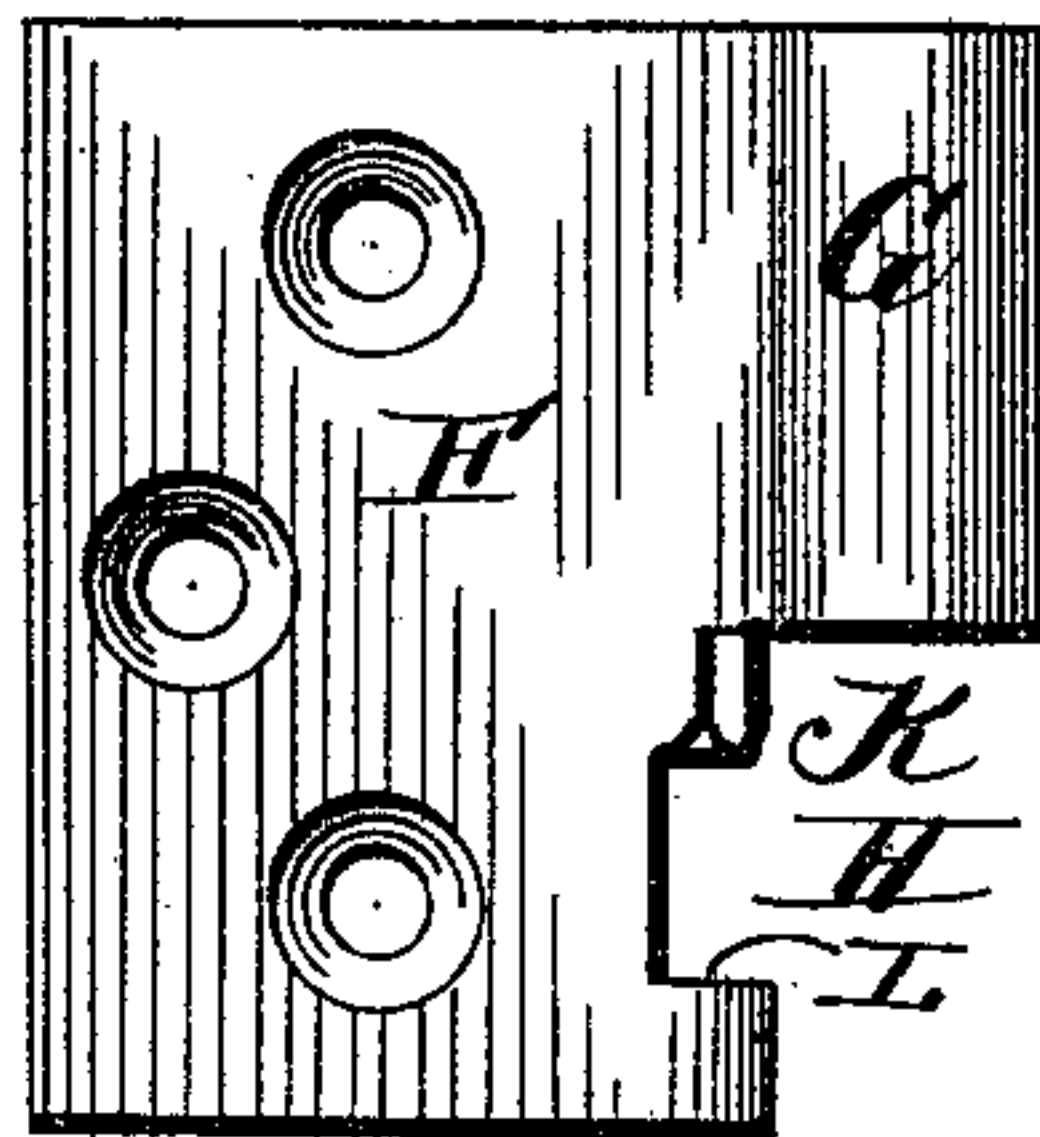
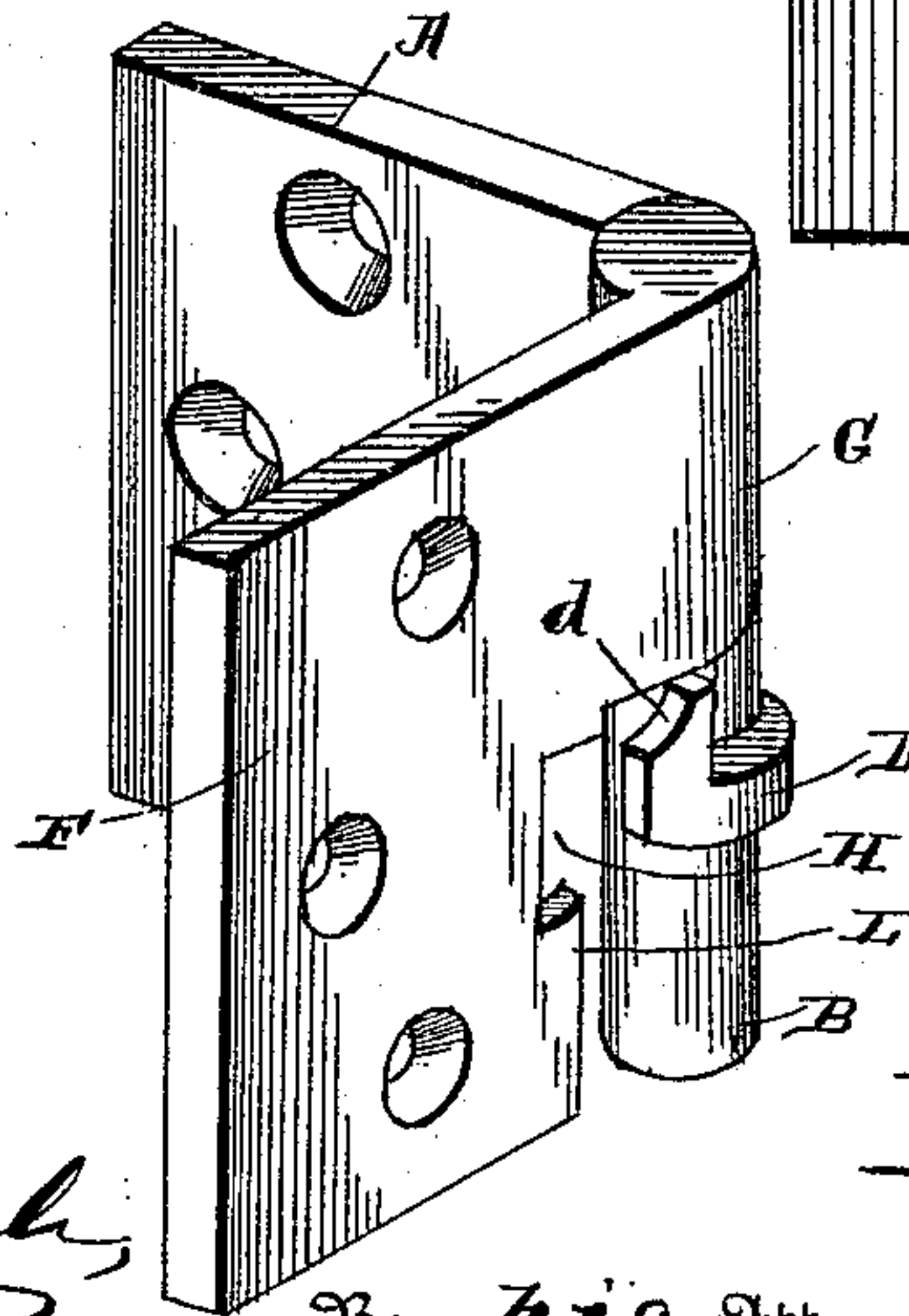


Fig. 5.



Witnesses

Henry G. Dietrich
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Inventor

Henry W. Steiner

By *his* Attorneys

C. Snowden

UNITED STATES PATENT OFFICE.

HENRY W. STEINER, OF EASTON, PENNSYLVANIA, ASSIGNOR OF ONE-HALF
TO THOMAS T. MILLER, OF SAME PLACE.

LOCK-HINGE.

SPECIFICATION forming part of Letters Patent No. 408,441, dated August 6, 1889.

Application filed January 12, 1889. Serial No. 296,202. (No model.)

To all whom it may concern:

Be it known that I, HENRY W. STEINER, a citizen of the United States, residing at Easton, in the county of Northampton, and State of Pennsylvania, have invented new and useful Improvements in Locks for Hinges, of which the following is a specification.

The invention relates to a lock for hinges; and it consists in an attachment to an ordinary butt-hinge whereby the movable leaf is locked in either the opened or closed position, but may be unlocked and moved without raising the same, as when an ordinary shoulder is used.

The invention is more fully described hereinafter, in connection with the accompanying drawings, and specifically pointed out in the claim.

In the drawings, Figure 1 is a perspective view of a hinge provided with the attachment. Fig. 2 is a similar view showing the hinge partly closed. Fig. 3 is a view of the attachment removed from the knuckle of the stationary leaf. Fig. 4 is a view of the movable leaf. Fig. 5 is a perspective view of another form of hinge in which a single shoulder is employed, with a lock or catch in rear of the shoulder to hold the hinge locked when it is open.

Referring by letter to the drawings, A designates the stationary leaf of the hinge, having the knuckle B and the vertical pintle C, and D designates the projection or attachment on the outer side of the said knuckle adjacent to its upper end, which is provided at its opposite sides with the inclined or beveled shoulders E E', respectively. The lower side of the projection or attachment is horizontal.

F represents the movable leaf of the hinge, having the tubular knuckle G fitting on the pintle C, and the leaf is provided in its inner edge, a short distance below the lower end of its knuckle, with a rectangular notch H, which is slightly greater in vertical length than the height of the projection or attachment on the stationary leaf. The upper end of this notch forms a shoulder K, which is slightly rounded, and slides on the beveled shoulders of the projection or attachment, and the lower end of the notch forms a shoulder L, which bears against the lower horizontal

side of the said projection or attachment, and prevents the movable leaf from being lifted from the pintle of the stationary leaf.

The beveled shoulders on the projection or attachment are sufficiently abrupt to hold the movable leaf in either its closed or open position under ordinary circumstances; but if the shutter or door which is attached to the said movable leaf is given a quick sharp movement the shoulder at the upper end of the notch will ride over the beveled shoulder.

The advantage of the improvement is that it is not necessary to raise the shutter or door to disengage the shoulder on the movable leaf from the projection or attachment when the said shutter or door is in its locked (or open) position. This projection or attachment may be formed separately from the hinge and attached thereto by any suitable means, as by solder, screws, &c.; but it is preferably cast integral with the same, as shown in the drawings.

I do not limit myself to the use of the double inclined shoulder on the cam projection D, as the same may have only one shoulder, with a notch or catch in rear of the shoulder to hold the hinge locked when it is open, substantially as shown in Fig. 5 of the drawings; but the construction already shown and described is my preferable form, for the reasons set forth—viz., that it avoids the necessity of raising the shutter when the hinge is in its open position.

Having thus described the invention, I claim—

In a hinge, the leaf A, having its knuckle provided with the projection D, having an inclined shoulder, and the leaf F, provided with a rectangular notch H, the upper shoulder of which is adapted to ride over the inclined shoulder of the projection, and the lower shoulder contacting with the straight under side of the projection, thereby preventing the separation of the parts of the hinge, as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

HENRY W. STEINER.

Witnesses:

JNO. STOTZER,
T. H. BECKER.