

W. H. MYERS.
DOOR-SPRING.

No. 170,887.

Patented Dec. 7, 1875.

Fig. 1

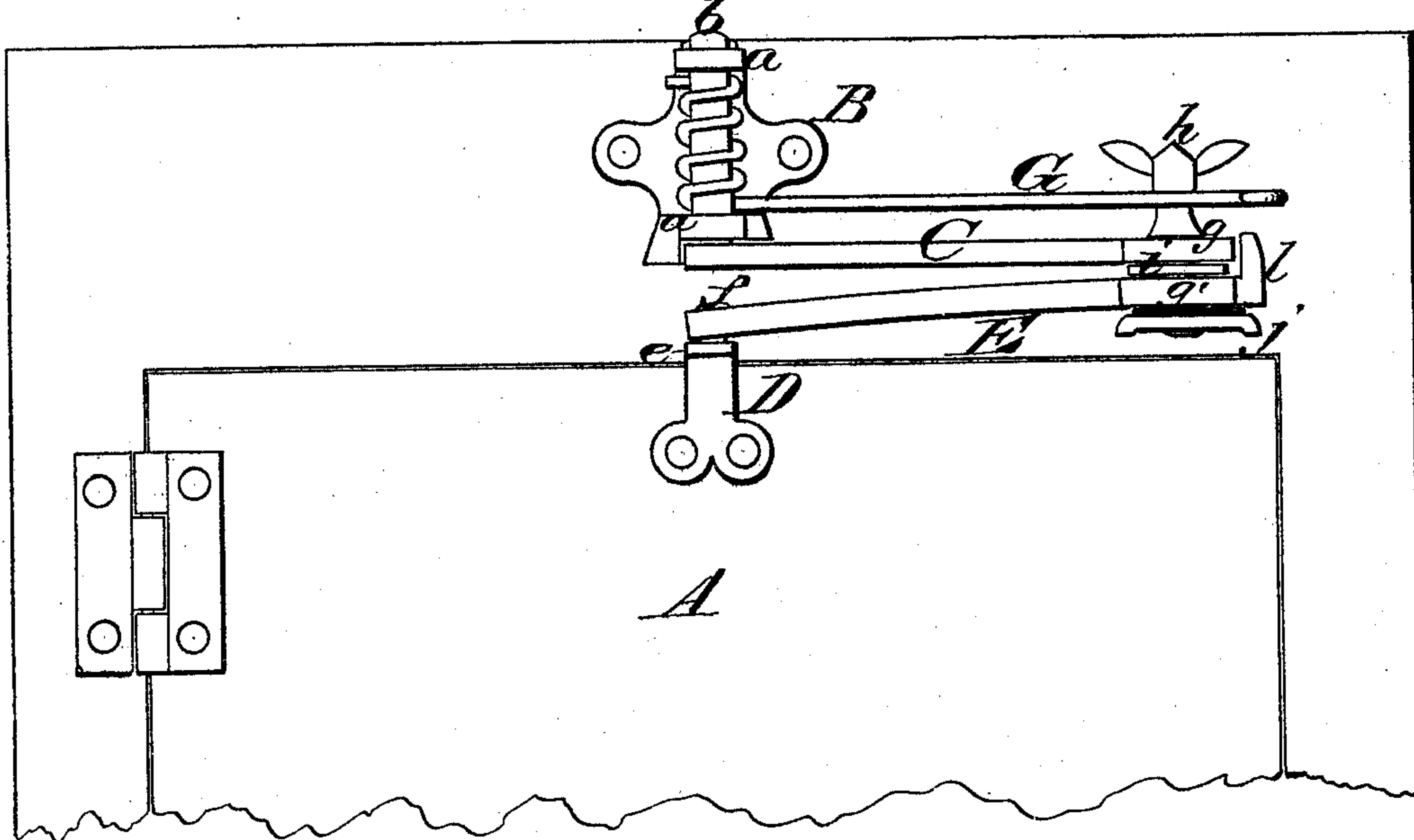


Fig. 2

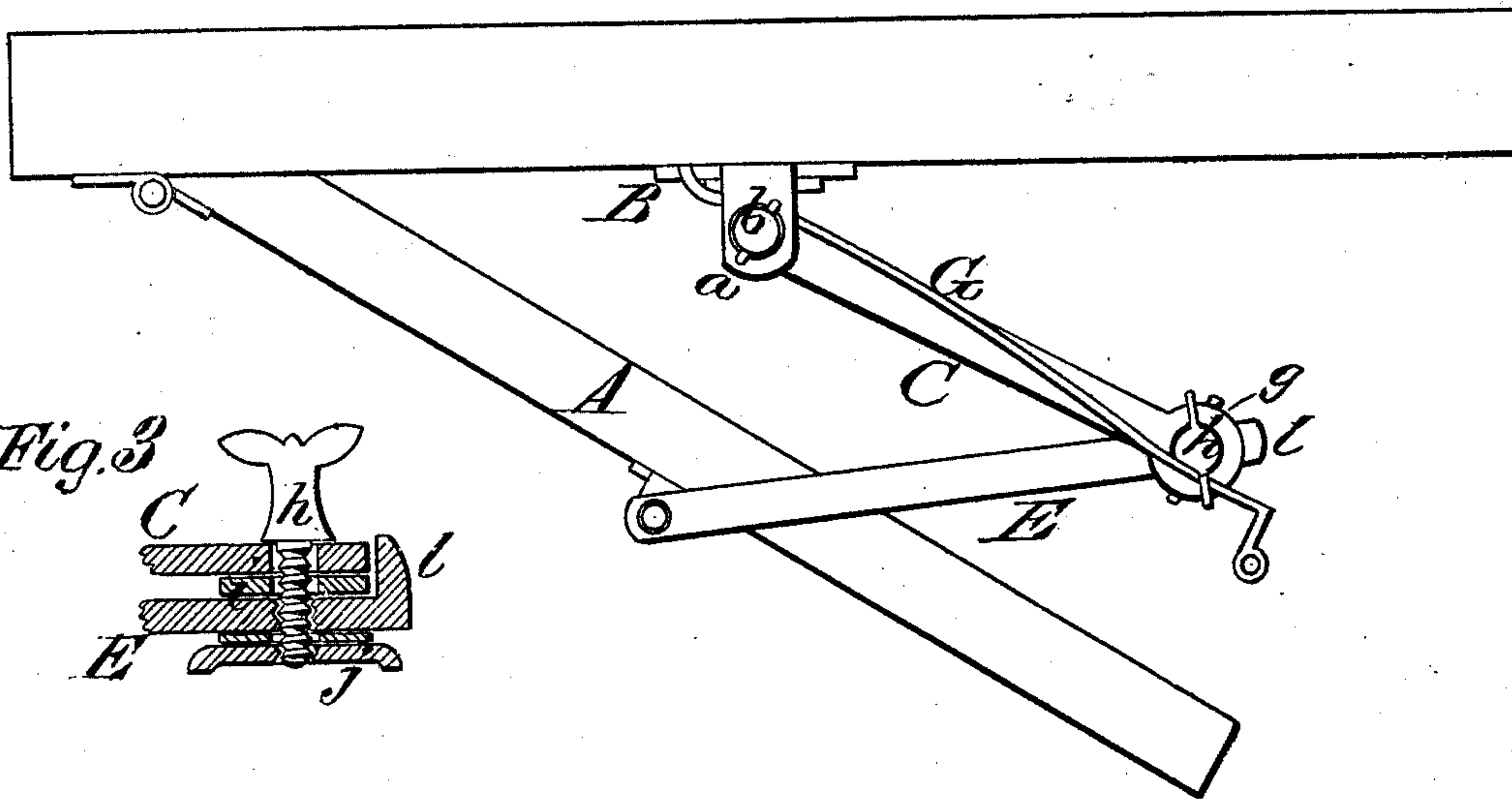
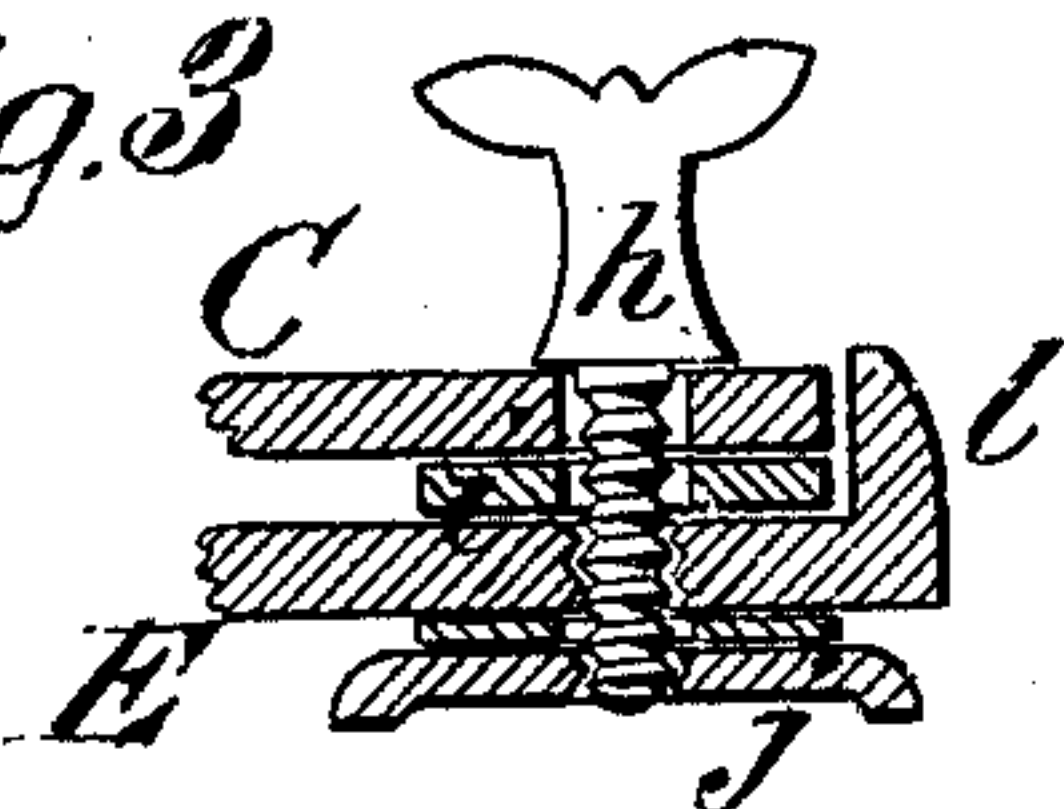


Fig. 3



WITNESSES
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UNITED STATES PATENT OFFICE.

WILLIAM H. MYERS, OF OREGON, WISCONSIN.

IMPROVEMENT IN DOOR-SPRINGS.

Specification forming part of Letters Patent No. **170,887**, dated December 7, 1875; application filed October 9, 1875.

To all whom it may concern:

Be it known that I, WILLIAM H. MYERS, of Oregon, in the county of Dane and State of Wisconsin, have invented a new and valuable Improvement in Door-Springs and Locks; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a plan view of my door-spring and lock, and Fig. 2 is a side view thereof. Fig. 3 is a sectional detail view.

This invention has relation to springs and locking devices for doors, shutters, and for other purposes; and the nature of my invention consists in two pivoted lever-arms, which are acted on by a spring-arm, in combination with a locking-clamp, as will be hereinafter explained.

In the annexed drawings I have represented my improved device applied at the upper end of a door, A. B designates a bracket, which is secured to the lintel of the door-frame A', and which is constructed with lugs *aa*, through which a shaft, *b*, passes, having fixed to its lower end an arm, C. D designates a bracket, which is secured to the door A, and constructed with a lug, *e*, having a stud, *f*, fixed to it. The stud *f* affords a pivot for an arm, E, the axis of which pivot coincides with the axis of the shaft *b* when the door is shut, as shown in Fig. 1. The free ends of the two arms C E are enlarged at *g g'*, and are connected together by means of a screw-threaded

pivot, *h*, having a thumb-piece on its upper end, and a setting-nut, *j*, on its lower end. Between the two heads *g g'* is a friction-washer, *i*, which will yield more or less when the pivot-screw *h* is tightly set up, and allow a lock-joint to be formed between the two arms C E. G designates a spring, one end of which is coiled around the shaft *b* and secured to it. The other end of this spring bears against the neck of the pivot-screw *h*, for closing the door and keeping it closed. The force with which spring G operates on the ends of the arms C E to shut the door can be regulated by means of the pivot-screw *h*.

If the free end of the spring G is removed from the pivot-screw *h* it will cease to act on the door, and the latter may be held open at any angle by tightening the pivot-screw *h*.

For the purpose of preventing the door from being opened too far, I form a stop-lug, *l*, on the enlargement *g'*, which, when the door is opened to a given point, will abut against the arm C, and arrest the door.

What I claim as new, and desire to secure by Letters Patent, is—

In combination with the two pivoted arms C E, the arm E having a stop-lug, *l*, on its free end, the spring G, the clamping screw *h*, nut *j*, and washer *i*, substantially as described.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

WILLIAM H. MYERS.

Witnesses:

F. POWERS,
VORRIS GETZ.