

J. R. DAY.

WINDOW SHUTTER OPENER.

No. 177,697.

Patented May 23, 1876.

Fig. 1

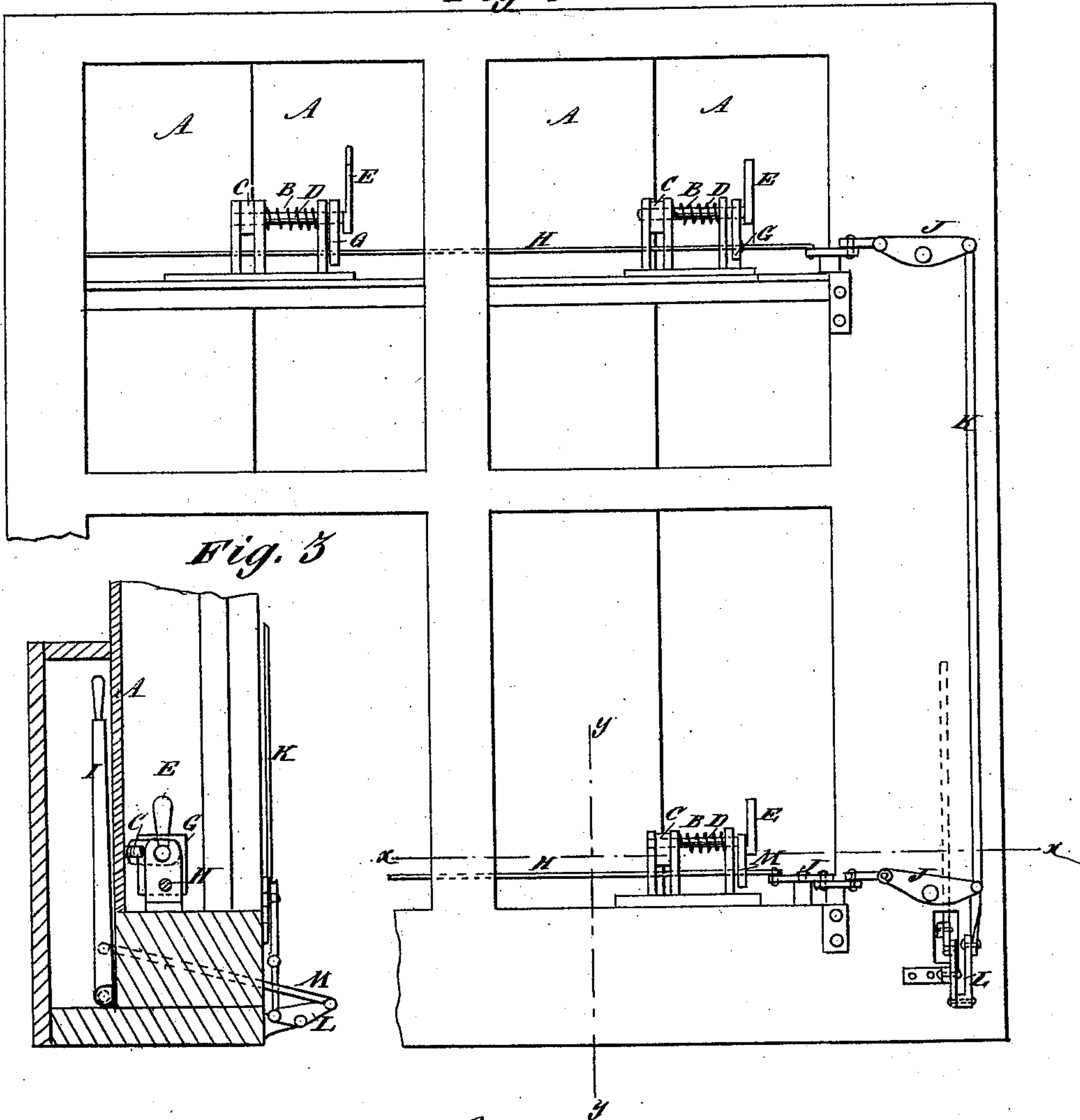


Fig. 3

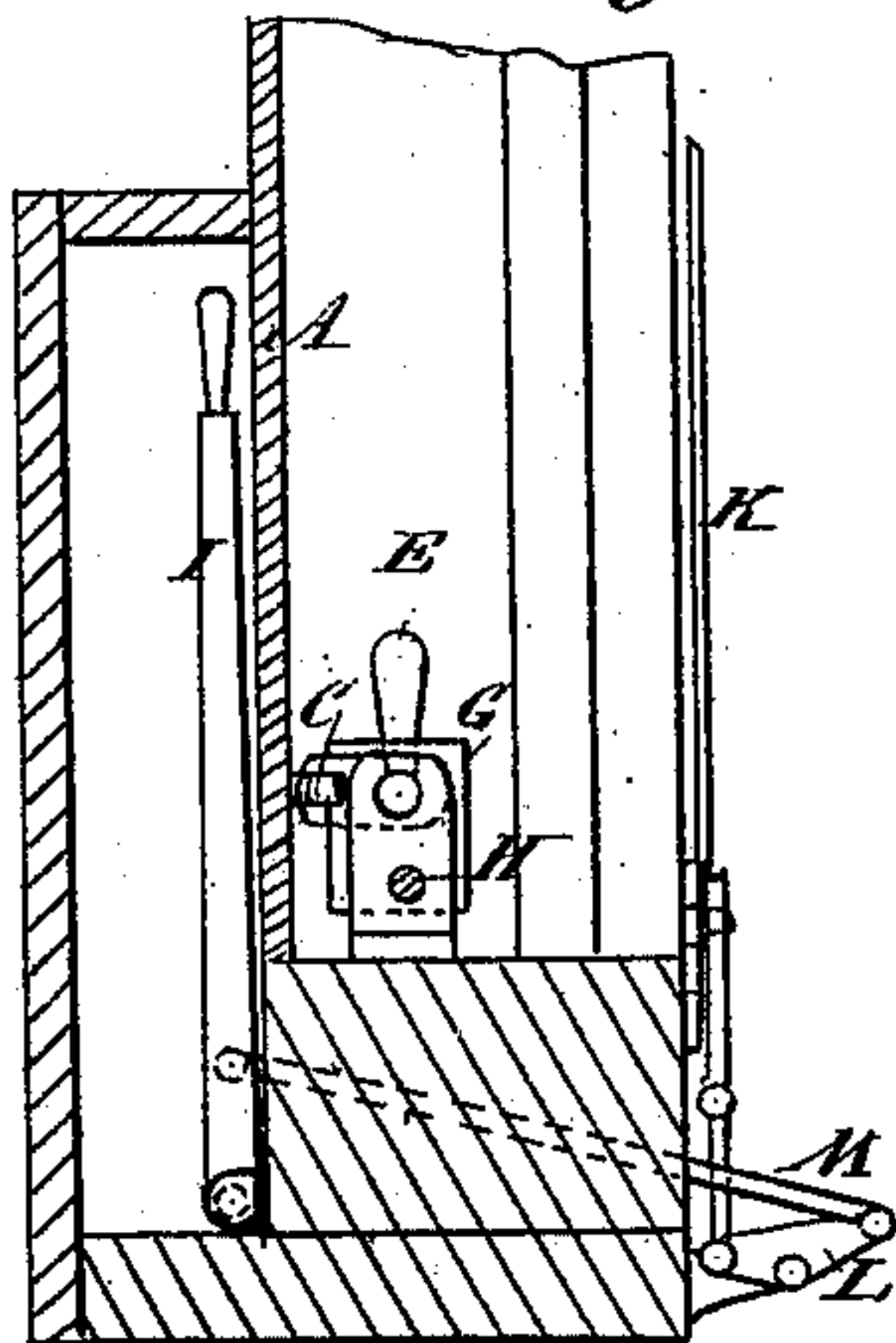
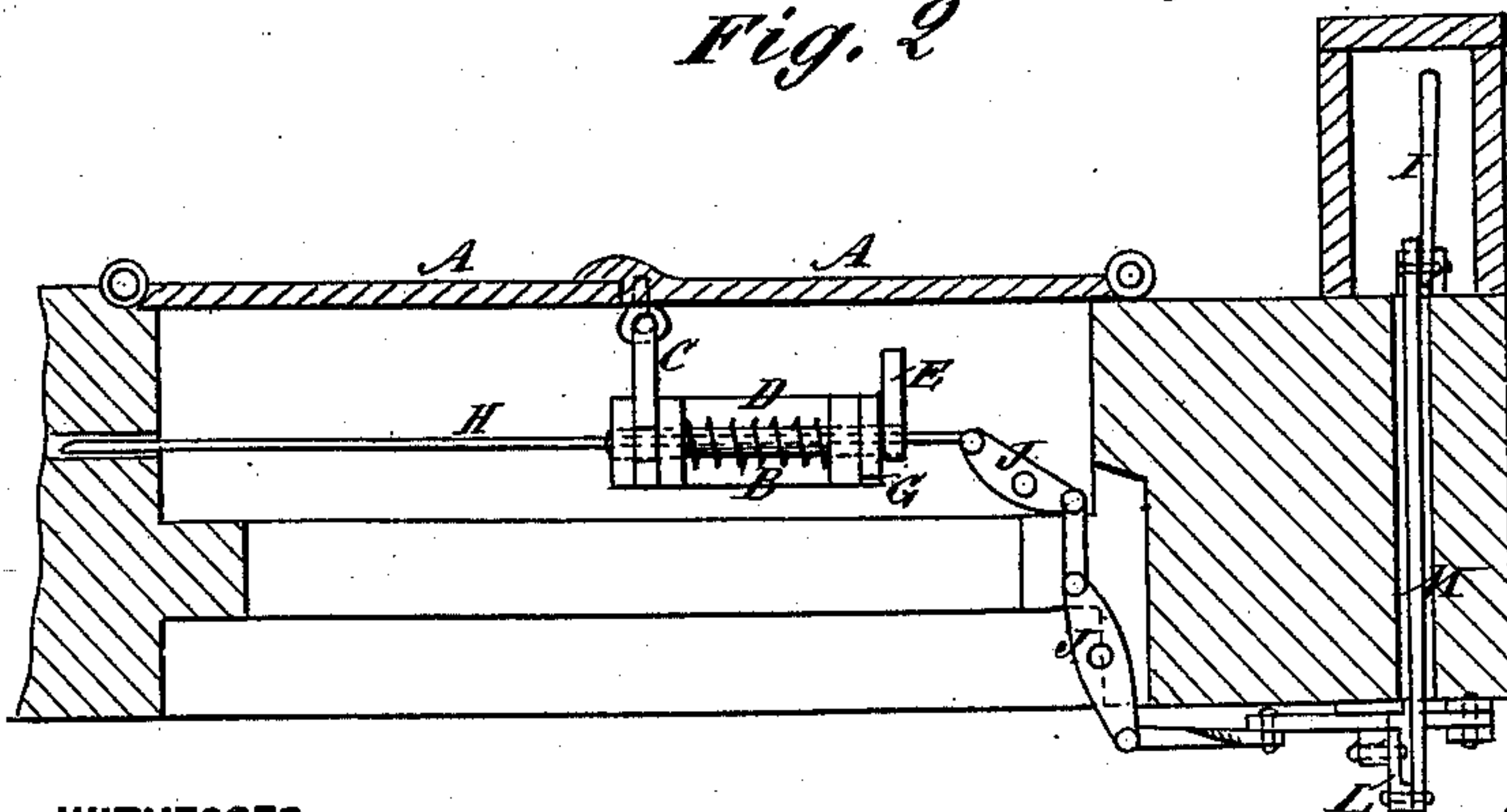


Fig. 2



WITNESSES:

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UNITED STATES PATENT OFFICE.

JOHN R. DAY, OF NEW YORK, N. Y.

IMPROVEMENT IN WINDOW-SHUTTER OPENERS.

Specification forming part of Letters Patent No. **177,697**, dated May 23, 1876; application filed February 21, 1876.

To all whom it may concern:

Be it known that I, JOHN R. DAY, of New York city, in the county and State of New York, have invented a new and Improved Window - Shutter - Opening Apparatus, of which the following is a specification:

This invention is a contrivance of apparatus for opening fire-proof shutters from the outside of the building in case of fire and the like. It consists of a spring slide-bolt and hasp for fastening the shutters, contrived so that the hasp will hook on the bolt to fasten, and the bolt may be drawn back by hand to unfasten, the shutters from the inside, and also so that it can be drawn back from the outside of the building by a hand-lever, with which it connects by rods and levers, any desired number of fasteners for as many different windows being all connected to one lever, so that they can be opened, and the lever being arranged in a lock-up case, so as not to be exposed to those not authorized to use it.

Figure 1 is an inside elevation of a building, showing the apparatus arranged for three different windows. Fig. 2 is a section on line *x x* of Fig. 1, and Fig. 3 is a section on line *y y*.

Similar letters of reference indicate corresponding parts.

A represents the two shutters, which hook on the slide-bolt B by the hasp C, to be made fast. The bolt has a spring, D, for sliding it

forward into the position for receiving the hasp; also a handle, E, by which to slide it back by hand to open the shutters from the inside, and it is connected by the arm G with the rod H, to be pulled back from the outside by the lever I, to which the rod is connected by other rods K M and suitable levers or cranks J L. The arm G is so connected to the bolt that the latter is free to slide by hand-lever E without interference by the outside lever contrivance. The rod H may extend along the whole side of the house and work the bolts of all the shutters in that row, and the rod K may extend to and connect with the rods H of all the floors.

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

1. The combination, with the spring slide-bolt B and hasp C, of arm G and rod H, connected, by suitable lever J L and rods K M, with a hand-lever, I, located outside of the building, substantially as specified.

2. The spring slide-bolt B and the arms G, connected to the rod H, arranged to allow the bolt to be moved by hand independently of rod H, substantially as specified.

JOHN R. DAY.

Witnesses:

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