

(No Model.)

S. E. HARRINGTON.
SASH HOLDER.

No. 407,952.

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Fig. 1.

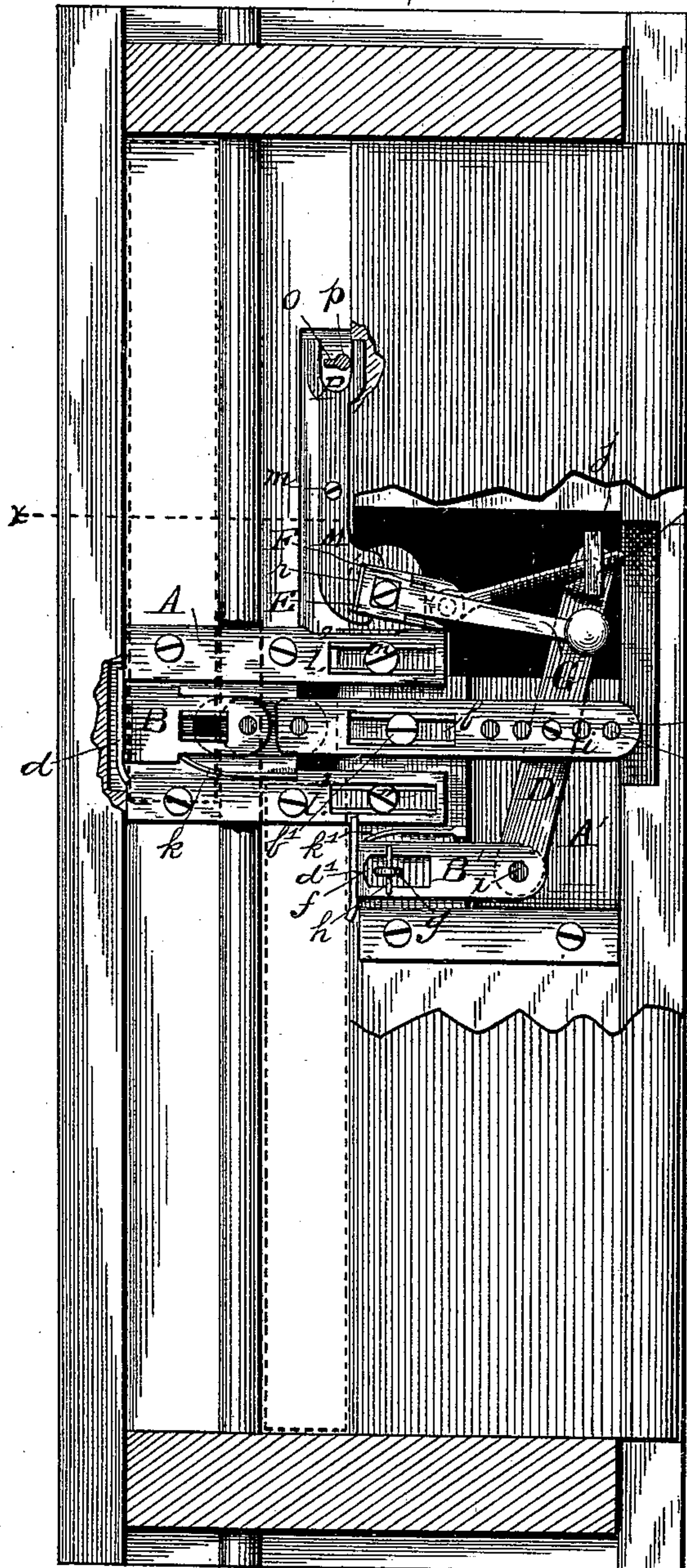


Fig. 2.

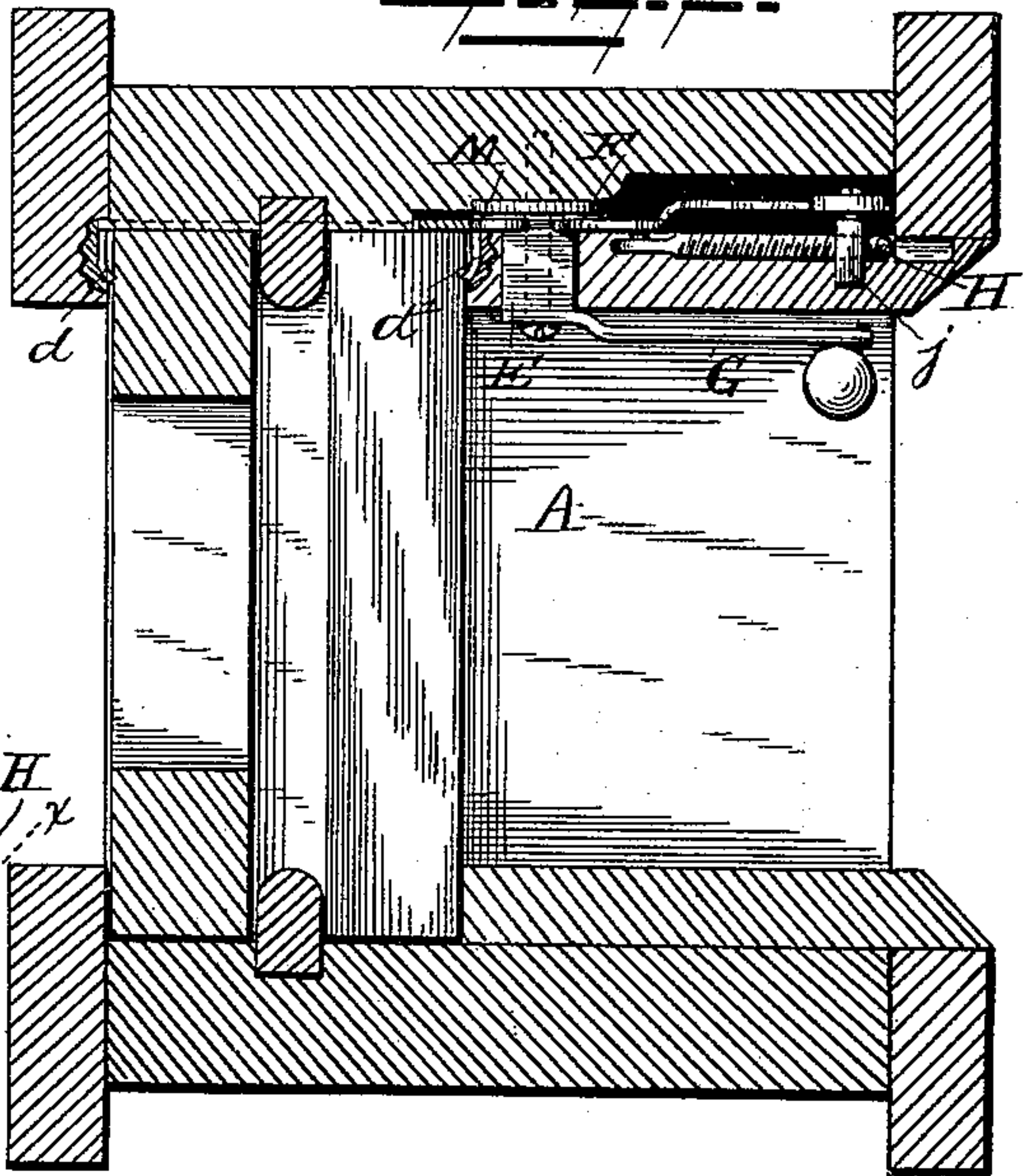
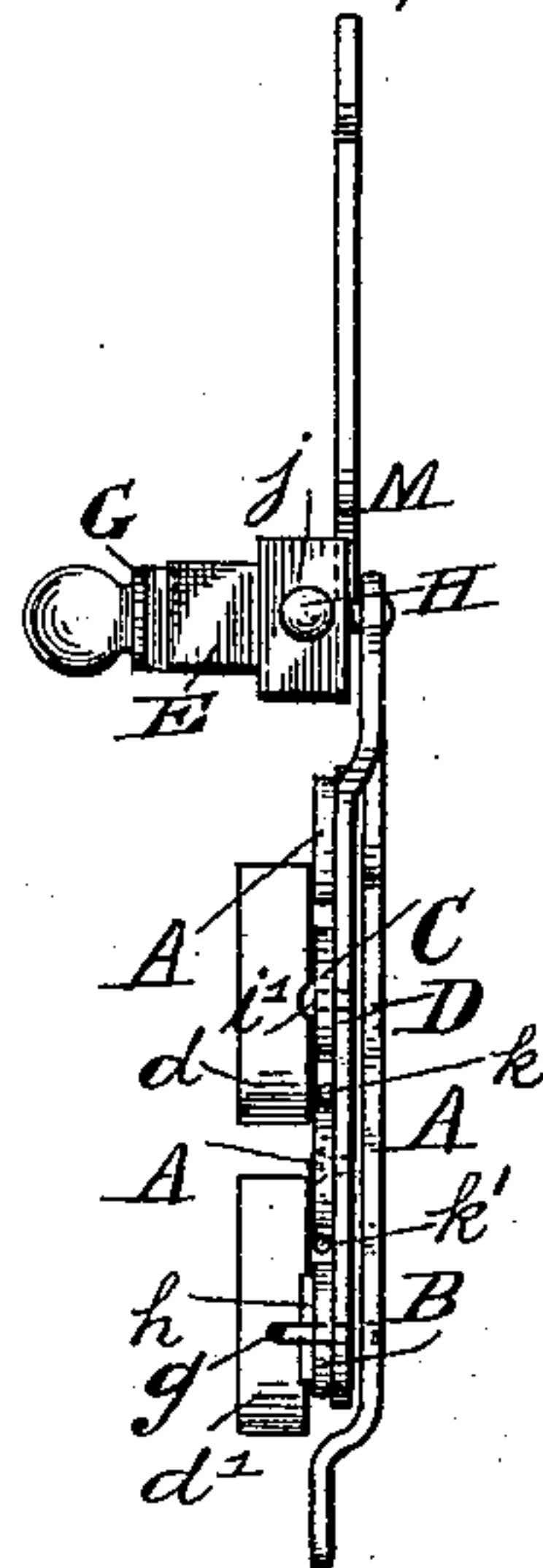


Fig. 3.



WITNESSES:

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SASH-HOLDER.

SPECIFICATION forming part of Letters Patent No. 407,952, dated July 30, 1889.

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To all whom it may concern:

Be it known that I, SAMUEL EMERSON HARRINGTON, a citizen of the United States, residing at North Amherst, in the county of Hampshire and State of Massachusetts, have invented certain new and useful Improvements in Sash-Holders and Locks; 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 is an improvement in sash-holders, and in combination with the improvement of a locking device; and it has for its object to provide a holder for the upper and lower sashes of a window, which is operated from the inside of a room to hold said sashes open, the one lowered and the other raised to any relative positions, or to hold either sash open while the other is closed, or to hold both closed and locked.

The device is so constructed and arranged as that by a single movement of a crank-lever in the hands of the operator the upper and lower sashes may be moved toward each other horizontally and pressed against the parting-bead of a window-frame, and so held at any desired points in the vertical traverse of the sashes.

In the drawings illustrating my invention, and which form a part of this specification, Figure 1 is a vertical section of a window, one side of which is broken away to exhibit in elevation the holding and locking devices as secured in one of the hanging-stiles. Fig. 2 is a horizontal section of the window and the supporting and locking devices for the same. Fig. 3 is an edge elevation of the sash-holder.

Similar reference-letters indicate like parts in all of the figures.

Referring to the drawings, A A' is the bed-plate of the holding device, formed in two parts, and thus rendered adjustable to suit any thickness of window-sashes, made, preferably, of metal, and secured firmly in the hanging-stile of a window-frame by screws which pass through said plates.

One portion of bed-plate A A'—as, for instance A'—may be permanently fixed to the hanging-stile of the window; but the portion A being provided with long slots l^2 l^3 and that of A' with screws m , the heads of said screws

hold the two parts of said bed-plate adjustably together when the said plates are in proper position.

B is a clamp linked to an arm C, provided with a slot b and holes e . A screw b' passes through the slot b and enters the portion A' of bed-plate A A'. The clamp B is provided with a clamping-jaw d , having an inwardly-bent lip adapted to bite upon the sash laterally.

B' is a clamping-arm provided with a slot f and having a clamping-jaw d' formed like the clamping-jaw previously described. The portion A' of bed-plate A A' has a perforated boss g projecting through the slot f of the clamping-arm B', and this, in connection with a pin h , which passes through said boss on top of the said arm B', confines the latter to the said bed-plate, so as to admit of a free movement beneath said pin.

D is a pivoted lever-arm connected by pivots i i' to clamping-arms B' C, and pivoted to one end of said pivoted lever is a swivel-nut j , provided with a screw-threaded opening. Pivoted to a projecting part of the bed-plate A is a square sleeve E, to which are secured at opposite ends crank-arms F G, the former of which is permanently fixed to said sleeve, and the latter of which is provided with a thumb-knob and arm, which may be removed, if necessary.

H is an arm, screw-threaded on one end to enter nut j , and perforated on the opposite end to fit over a pin projecting from the crank-arm F. The screw-threaded portion of the arm H engages the screw-threaded opening of the swivel-nut j , pivoted to the pivoted lever-arm D.

The arms of clamps B B' are respectively influenced somewhat by springs k k' , secured to the bed-plate, which bear against the edges of the said clamps and keep their jaws normal to the sash against which they may bear.

In connection with the sash-holding device I have arranged a locking device, the same to be employed when it is desirable to raise the lower sash a short distance and lower the upper one a corresponding distance for ventilating purposes. If this were done to the windows of the first story of a house, especially without a locking device, thieves might reach in and release the clamped sash by op-

erating the crank G; but in using the lock with the holding device, the sash could not be released without the proper key.

It will be remembered that the sleeve E was previously mentioned as being square in transverse section. This sleeve I use in connection with a slotted tumbler and key to form the chief features of the locking device. The bed-plate A being extended upward, it serves as a bearing for the tumbler M of the lock. Said tumbler M is pivoted to the bed-plate at *m*, and its ends, which are of slotted form, are within reach of a suitable key and the sleeve F.

o is the key-hole, and *p* represents the key. The lock is provided with a suitable casing, which incloses the tumbler M. When the key *p* is turned to the left, it engages one wall of U-shaped slot P on the key side, and, controlled by the pivot at *m*, the slot *r* will clasp the square portion of the sleeve E and hold the said sleeve so that the cranks F and G cannot be moved. The key *p* being now removed, the sashes cannot be released except by the person holding the key.

In using the holding device, either or both of the sashes are opened, and the crank G in the hand of the operator is revolved a quarter of a revolution. Cranks G and F being in radial line, the arm H moves the swivel-lever arm D about its pivot *i*, and at the same time the clamping-bars B B' are moved toward each other and their jaws embed themselves in the respective sashes. At the limit of movement of the arm D to effect the holding of the sashes both cranks F and G are in line with the screw-threaded arm H, so that the jaws of the clamps B B' cannot be released except by a reverse movement of the crank G.

Having thus described my invention, what

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

1. The combination, with bar B, having jaw *d*, arm C, and the link connecting said bar and arm, and the bar B, provided with jaw *d'*, and upper and lower sashes of a window, of the lever D, pivoted to said bars B B', operated in the manner substantially as described, whereby the said sashes may be locked together against the parting-bead of the window, as and for the purpose specified.

2. The combination, with the bed-plate A as a bearing, the pivoted lever D, the arm C and clamp B, united by a compensating link, the clamp B', and pivots *i i'*, and the window-sashes, of the swivel-nut *j*, pivoted to said pivoted lever D, the crank F and G, and the screw-threaded arm H, as and for the purpose set forth.

3. The combination, with the holding device for the sashes and the square collar F, as described, of the locking device composed of the pivoted tumbler-plate, having slots at opposite ends, and the key to operate said tumbler, substantially as and for the purpose set forth.

4. The combination, with the double holding and locking device composed of clamps B *d* B' *d'*, arm C, linked to said clamp B *d* and lever D, of the bed-plate composed of parts A A', adjustably arranged with reference to each other and the window hanging-stile by slots and holding-screws, as and for the purpose set forth.

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

SAMUEL EMERSON HARRINGTON.

Witnesses:

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F. W. HARRINGTON.