

GEORGE M. McCONNEL

Improvement in Sash Holders.

No. 123,034.

Patented Jan. 23, 1872.

Fig. 1

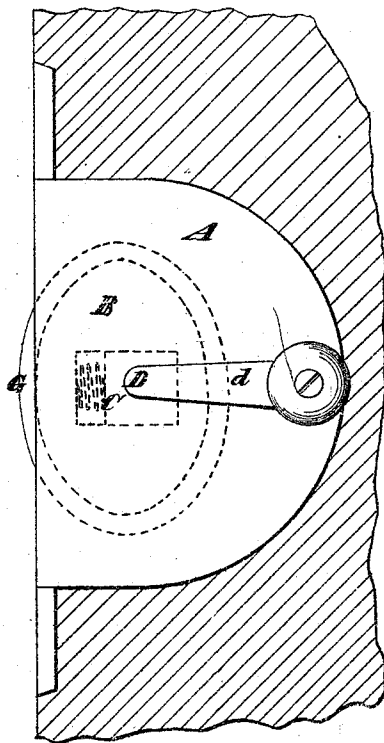


Fig. 2

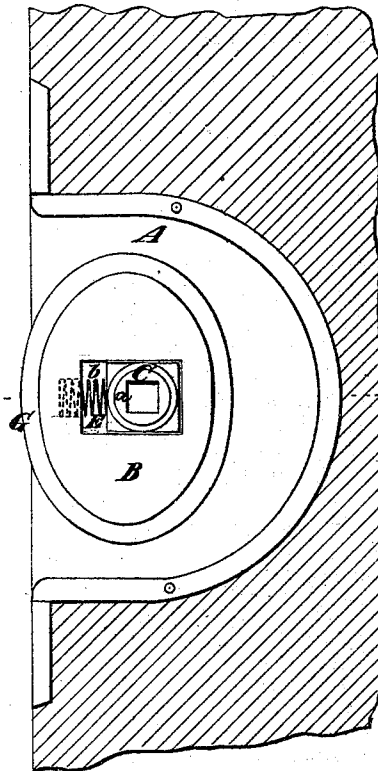
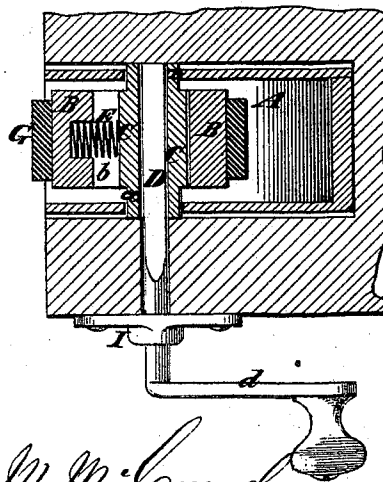


Fig. 3



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IMPROVEMENT IN SASH-HOLDERS.

Specification forming part of Letters Patent No. 123,034, dated January 23, 1872.

Specification describing an Improved Sash-Stop, invented by GEORGE M. McCONNEL, of Jacksonville, in the county of Morgan and State of Illinois.

This invention consists in the combination of a double cam faced with rubber, a square box, which receives the operating-shaft of said cam and forms a means of attaching the cam and shaft together, and a spring interposed between one side of the said box and adjacent side of the cam, the whole arranged in a suitable shell or case to be attached to a window-casing, and constituting a stop which is neat in appearance and noiseless and very effective in its operation, and will not injure the sash to which it is applied.

Figure 1 in the accompanying drawing is a side view of my sash-stop, showing it applied to a window-casing. Fig. 2 is a similar view with part of the shell removed; and Fig. 3 is a central horizontal section of the same.

Similar letters of reference indicate corresponding parts in all three figures.

A is the metal shell or case, of semicircular form, similar to the shell of an ordinary window-pulley. It is recessed into one of the jambs of the window-casing and secured by screws passing through its face-plate. B is the double cam, which is of elliptical form, made of metal and has a facing, G, of rubber or other binding material. It has a rectangular slot formed in it, parallel with its minor axis, for the reception of and to enable it to slide upon a square metal box, C, through which the shaft D passes, and which has formed on its ends journals *a a*, which are supported in bearings in the shell A. Between the said box and the outer side of the slot *b* a spiral spring, E, is interposed, it being recessed into the cam and there-

by retained in place. This spring holds the cam out against the window-sash. The shaft D of the lock is square and fits within the box C, so that the latter is compelled to turn with it. The cam is also compelled to turn with the box C. The shaft is provided at its outer end with a crank, *d*, which is parallel with the slot *b* in the cam. By thus supporting the cam on the box instead of directly supporting it on the operating-shaft the longitudinal adjustment of the latter to suit window-casings of different thicknesses is provided for. The shell, A with that side of the cam out which is operated by the spring, is inserted into the face of the jamb and the shaft D through the outer side of the casing, which is provided with a bearing-plate, I, for its reception.

The cam, being kept in contact with the shaft by the spring E, is caused to lock the sash in any position to which it may be adjusted; for if it be moved in either direction the friction produced on the rubber face of the cam tends to draw it toward its longer or major axis, and thereby jam it and prevent the continued motion of the sash. To raise or lower the sash the crank is slightly turned up or down and held, thereby keeping the cam in such a position that the motion of the sash tends to force the cam back and relieve itself of friction.

Claim.

The combination of the slotted cam B, square box C, spring E, and shaft D, the whole arranged and operating substantially as described, for the purpose set forth.

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