W. H. LAZELLE.

SASH FASTENER.

No. 7,841. Patented Dec. 17, 1850.

Fig. 1

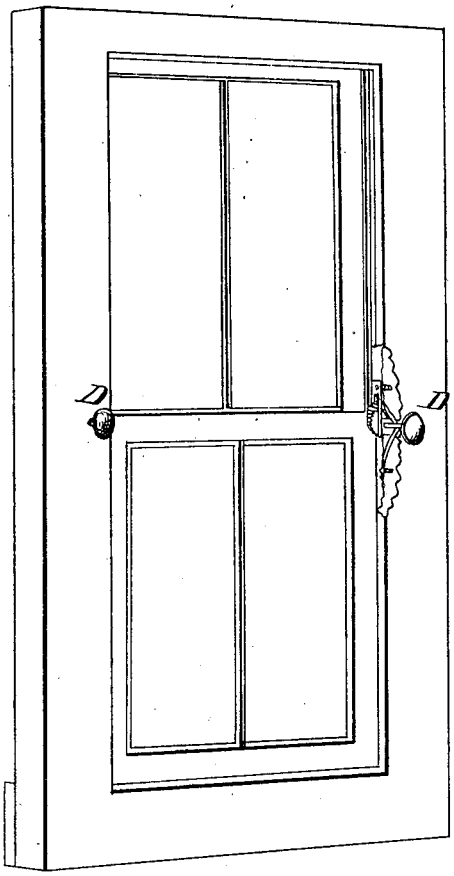

Fig. 4

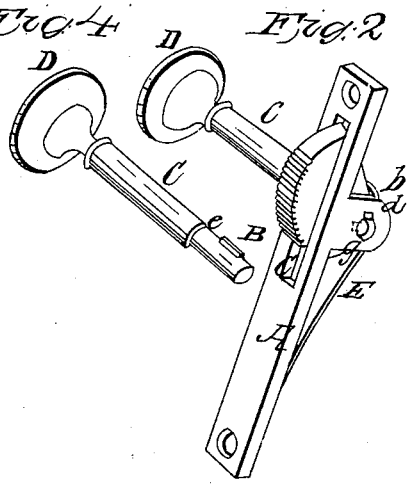

Fig. 2

Fig. 3

UNITED STATES PATENT OFFICE.

WILLIAM H. LAZELLE, OF HARTFORD, CONNECTICUT.

SASH-FASTENER.

Specification of Letters Patent No. 7,841, dated December 17, 1850.

To all whom it may concern:

Be it known that I, WILLIAM H. LAZELLE, of the city and county of Hartford, in the State of Connecticut, have invented a new and useful Improvement in Window-Sash Fasteners; 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 accompanying drawings, which make a part of this specification, in which—

Figure 1, is a perspective view of a window with a pair of the fasteners attached, showing their position and operation. Fig. 2, is a perspective view of the fastener detached from the window, showing the cam, spring, &c. Fig. 3, is a perspective view of the cam, detached from the plate. Fig. 4, is a perspective view of the knob, or handle, by which the cam is turned, and also secured.

My improvement consists in using a cam secured in a slot, or mortise, in a plate by means of the shaft of the knob, or handle passing through holes in ears, or projecting pieces, on the back side of the plate, serving as a fulcrum pin, and also by means of a lip on this fulcrum pin and a slot in one of the projections, as a fastener to prevent the cam from being turned back by any force whatever, thus locking or fastening the lower sash down with absolute safety, while the knob, or handle, serves to turn the cam back when it is desired to raise the sash, in the first instance, and to let it down at all times.

I make the cam, Fig. 3, of any suitable material, and of suitable size for the window sash. I make a round hole, *a*, through the cam for the fulcrum pin, with a slot *b*, in its upper side as seen in Fig. 3, and I groove, notch, or serrate, the front edge which bears against the style of the sash that it may be less liable to slip in any degree, when in use.

I make the plate, A, Fig. 2, of any suitable material, with a slot, or mortise, *c*, in which I insert the cam, and with two ears or projections (one of which is seen at *d*, Fig. 2, and the other is concealed by the cam) with holes in them for the fulcrum pin (as seen at *d*), and in these holes a slot to receive the lip, or projection, B, Fig. 4, on the end of the shaft, or rod, of the knob, or handle. This slot in the other projection should be in the position indicated by the dots at *g*, Fig. 2.

I make the rod, or shaft, C, Fig. 4, of any suitable material, with a shoulder, or bearing, *e*, to rest against the projection on the plate when the shaft is pushed in to lock the cam. And with a lip, or projection, B, Fig. 4, to fit into the slot, *b*, Fig. 3, in the cam, by means of which the cam is turned back to allow the window sash to be let down; and also to pass into the slot at *d*, Fig. 2 to lock the cam, and prevent it from being turned back when the lower window sash is down. This lip should be of the length of the thickness of the cam, so as to turn between the two projections.

On the outer end of this rod, or shaft, C, Fig. 4, I have a knob, or handle, D, Figs. 1, 2, and 4, cast with the shaft, or attached to it by other means as with a screw, *r* otherwise. This rod, or shaft, may be made of wire of suitable size, and a male screw cut on it, and the knob, being taped, may be screwed on; in which case the rod may always be cut to the exact length desired at the time of fitting it; and also any size or shape of knob may be put on, at any time, at pleasure, as convenience or taste may suggest, even to form the most costly and elegant curtain pin.

On the back side of the plate, A, I fit a spring, as seen at E, Fig. 2, which bears upon the back of the cam above the fulcrum pin, as seen at *f*, Fig. 2, to force the cam against the style of the sash.

Having made all the parts, as before described, I insert the cam, Fig. 3, into the mortise, *c*, Fig. 2, and insert the part *e*, B, of the shaft, C, through the holes, *d*, to operate as a fulcrum pin, for the cam, when the spring, E, *f*, will force the cam out; all as shown in Fig. 2. The shaft, C, may be inserted either way, as convenience may require, by simply making the slot in the position shown at *d*, at the end of the fulcrum pin, and in the position indicated by the dots at *g*, for the side toward the knob D. And when two are used, one for each sash, as shown in Fig. 1, of course they must be inserted from opposite sides.

For use, I insert the fastener into the window frame, as seen at D, Fig. 1, inserting the shaft through a hole bored in the window frame, or otherwise let into the frame back of the stay-casing. The fastener shown at D, Fig. 1, is used for the lower sash, and is now seen as when holding the sash down, the cam resting in a slot, or space, cut in the upper end of the style of the sash; and when it is in this position, by

pushing the shaft in, the lip, B, Fig. 4, will pass into the slot, *d*, Fig. 2, and lock the cam, so that it will be impossible to raise the sash by any force whatever. When it is desired to raise the sash I draw the shaft out until the lip, B, Fig. 4, is wholly within the cam so that by turning the knob or handle, D, the cam may be carried back even with the face of the plate, A, Fig. 2, when the sash may be thrown up, without any hindrance, to the desired height, and the spring will always throw the cam forward against the sash so as to hold it wherever the hand leaves it. To let down the sash I turn back the cam by the handles, or knob. The upper sash is held up in the same manner by the left hand fastener.

The advantages of my improvement over all fasteners now used, consist in using the lip on the shaft, not only for turning back the cam, but also for locking it when the sash is down, as before described. Thus it makes the safest fastener, the most convenient to use, and may be an elegant ornament.

I am aware that cams have long been used to fasten window sash, by attaching them to the sash and frames in various ways.

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

The combination of the cam with the plate, when these are combined with the shaft, C, and lip, B, for turning back the cam when necessary, and locking it to fasten down the lower sash, when the whole is constructed, arranged, and combined, substantially as herein described.

WILLIAM H. LAZELLE.

Witnesses:
J. D. WILLARD,
R. FITZGERALD.