

(No Model.)

J. E. DOLBER.
SASH FASTENER.

No. 502,556.

Patented Aug. 1, 1893.

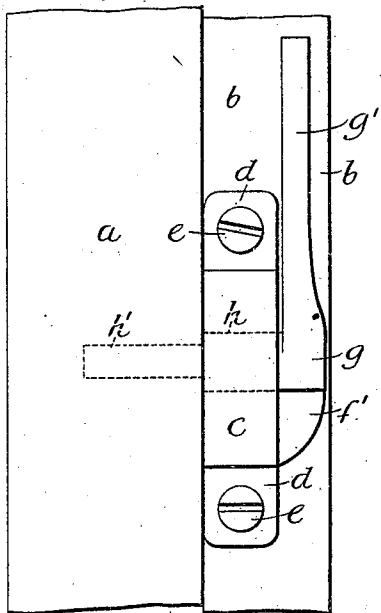


Fig. 1.

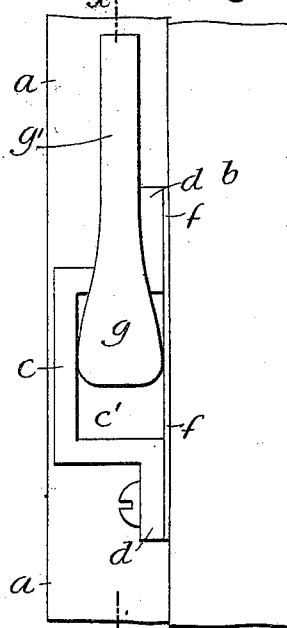


Fig. 2.

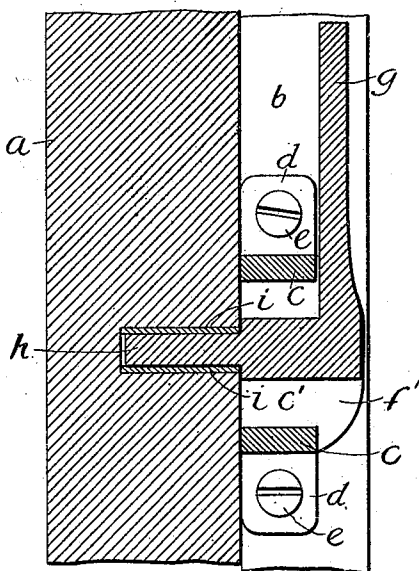


Fig. 3.

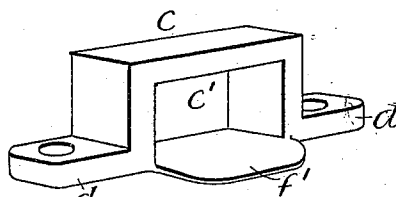


Fig. 4.

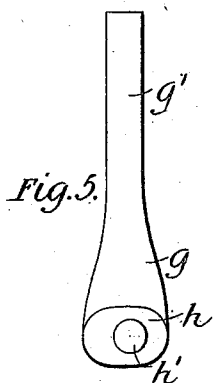


Fig. 5.

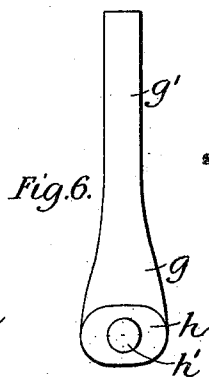


Fig. 6.

Inventor

John E. Dolber

By *W. W. Ashley* & Co.
his Attorneys

Witnesses

Wm. S. Norton
Geo. H. Brown Jr.

UNITED STATES PATENT OFFICE.

JOHN E. DOLBER, OF MANCHESTER, NEW HAMPSHIRE.

SASH-FASTENER.

SPECIFICATION forming part of Letters Patent No. 502,556, dated August 1, 1893.

Application filed April 5, 1893. Serial No. 469,172. (No model.)

To all whom it may concern:

Be it known that I, JOHN E. DOLBER, a citizen of the United States, residing at Manchester, in the county of Hillsborough and State of New Hampshire, have invented certain new and useful Improvements in Securing Devices; 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 relates to a new and novel device for securing in place double windows, screens and the like, and which may also be advantageously employed in securing to a stationary object any movable part or parts either temporarily or permanently, the object being to obtain by a cheaply constructed device, a strong and rigid connection where desired, with a minimum of time and labor.

My invention consists essentially in a bracket adapted to be secured to the movable object, as for instance, a window or screen, and a locking lever having a pin which enters a socket made therefor in the stationary object, and a cam-shaped portion operating when turned within the bracket to produce a binding action between the objects to be connected.

My invention consists also in the construction, relative arrangement and operation of the several parts constituting my improved fastening device, all of which will fully and clearly appear from a reading of the following description taken in connection with the accompanying drawings which form a part of this specification and in which—

Figure 1 represents in front elevation my improved fastening device in operation. Fig. 2 is a side elevation of the same. Fig. 3 is a sectional view taken on the line $x-x$ of Fig. 2. Fig. 4, is a detail perspective view of the bracket and the wearing plate formed integrally therewith. Fig. 5 is a detail elevation of the locking lever employed in connection with the device; and Fig. 6 is an elevation of the locking lever in a modified form.

In the said drawings, the reference letter a denotes a stationary object which for the purpose of illustration I will call the casing of a window.

b denotes a portion of the frame of a window

or screen to which my fastening device is applied and which is shown secured to the casing.

The fastening device consists of a bracket c having a rectangular opening c' and ears d extending above and below the same and perforated to receive the screws e by which connection is made to the frame b . Between the bracket and frame is an interposed wearing plate f centrally enlarged at f' and provided with perforations which register with the perforations in the ears to admit the screws.

In Fig. 4 I have shown the bracket and wearing plate formed in one piece, by which method the expense of manufacture and the time and labor in handling same are materially reduced. The locking lever g consists of a handle g' for manipulating the same, a cam shaped portion h which enters the opening c' in the bracket, and a pin h' extending beyond and in line with the portion h and adapted to enter a recess or socket formed in the casing as shown. This recess is preferably provided with a metallic bushing i to receive the wear and strain when the parts are assembled. The locking lever is not positively connected to the bracket, and only maintains its relative position during operation, the wide portion of the cam being made slightly greater in diameter than the width of the opening c' , in order that when the handle is turned in line with the casing the cam shall be tightly bound between the plate f and the inner side of the bracket. The recess in the casing is so arranged with relation to the said bracket and lever, as that in operation, when the handle is turned, as stated, the pin is moved slightly to the rear sufficiently to tightly bind the frame to the casing, so that the cam performs the double function of engaging the said frame and casing and at the same time binding and holding itself in position between the bracket and plate. To assist the action of the cam in connecting the frame and casing, the pin is either set eccentrically with relation to the cam, or one side of said cam is made of a greater radius than the other side, in either event the operation being the same. I may if desired however form the lever with its pin set concentrically with the cam portion, as the operation would not be changed and the same lever could be used either for the right or left side of the window.

By my invention, when applied to the fastening of windows, screens and the like, all the work of connecting and adjusting the parts may be done from the inside, thus overcoming the many difficulties due to the use of devices now employed for similar purposes.

In connection with the above, the device when applied permits the inside windows, both top and lower sash, to be raised and lowered freely without any interference. The sash of the inside window moreover, practically covers the device so that it cannot be seen from either the inside or the outside.

In the operation the pressure imparted between the frame and casing is very great, and can be regulated to any extent. The pressure is also evenly divided, thereby imparting no detrimental strain to any of the parts.

While I have shown my invention as practically applied to a window casing and a mov-

able window or screen, it is evident that the device is applicable to many other uses.

What I claim is—

1. A fastening device comprising a bracket secured to a movable object, a locking lever having a handle, a pin for engaging a socket in a stationary object, and a cam between said pin and handle adapted to engage the bracket.

2. A fastening device comprising a bracket and a wearing plate secured to a movable object, a locking lever having a handle, a pin for engaging a socket in a stationary object, and a cam between said pin and handle adapted to engage the bracket and wearing plate.

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

JOHN E. DOLBER.

Witnesses:

GEO. W. PRESCOTT,
JOSIE A. DOLBER.