

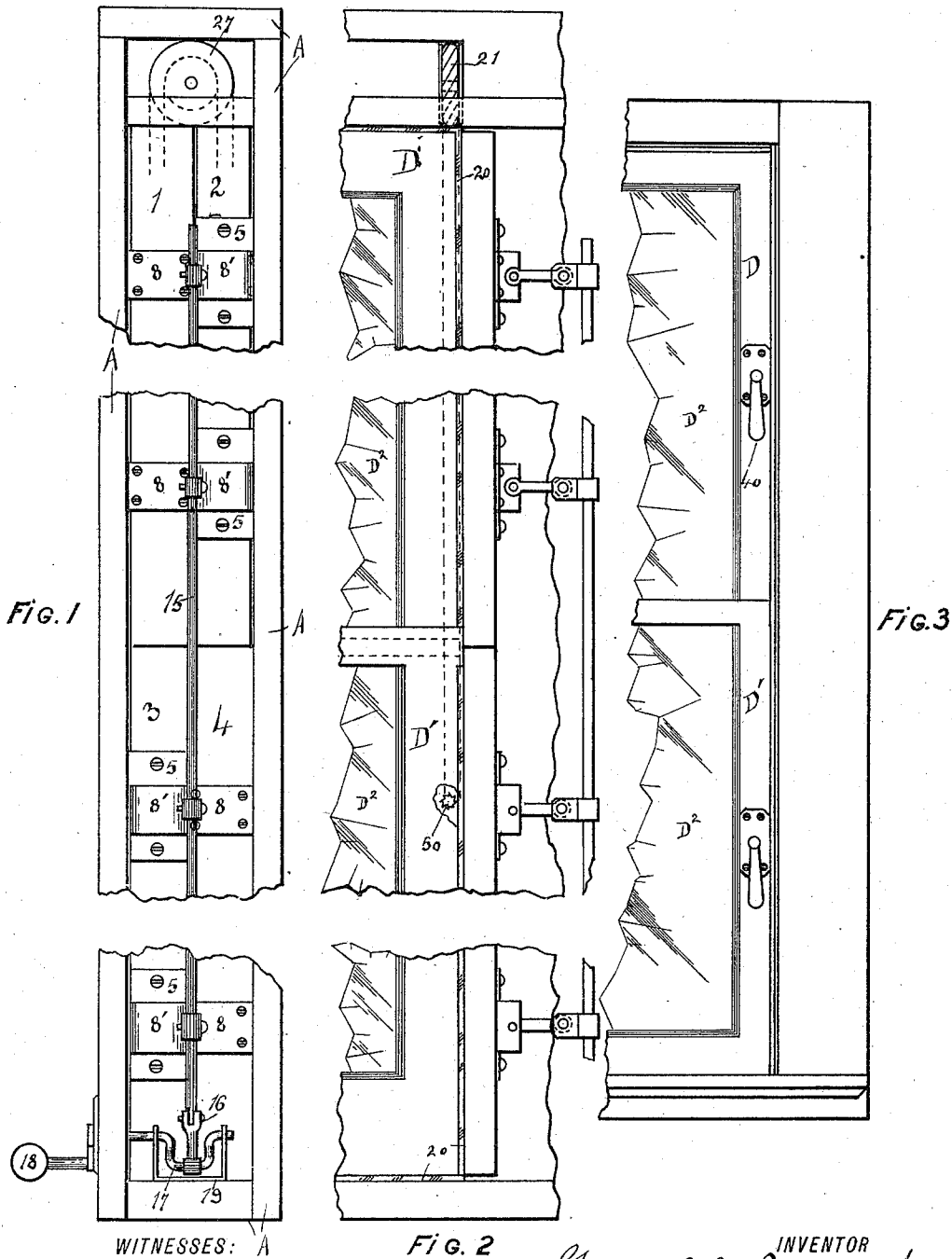
(No Model.)

2 Sheets—Sheet 1.

C. C. A. BAUERCAMPER.
SASH FASTENER.

No. 579,529.

Patented Mar. 23, 1897.



(No Model.)

C. C. A. BAUERCAMPER.
SASH FASTENER.

2 Sheets—Sheet 2.

No. 579,529.

Patented Mar. 23, 1897.

FIG. 4

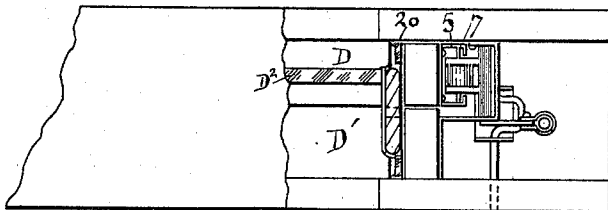


FIG. 5

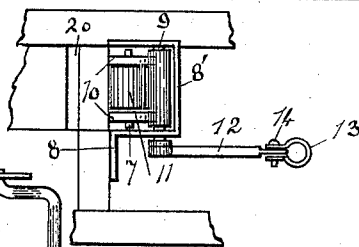


FIG. 6

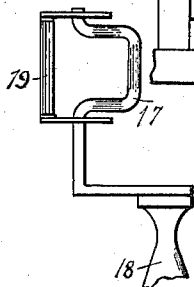


FIG. 7

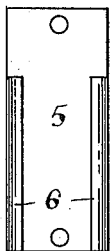
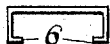


FIG. 8



WITNESSES:

O. F. Lanyon
W. G. Meyer

INVENTOR

Charles C. A. BaerCamper

BY

E. W. Miles

ATTORNEY.

UNITED STATES PATENT OFFICE.

CHARLES C. A. BAUERCAMPER, OF OMAHA, NEBRASKA.

SASH-FASTENER.

SPECIFICATION forming part of Letters Patent No. 579,529, dated March 23, 1897.

Application filed April 13, 1896. Serial No. 587,302. (No model.)

To all whom it may concern:

Be it known that I, CHARLES C. A. BAUER-CAMPER, residing at Omaha, in the county of Douglas and State of Nebraska, have invented certain useful Improvements in Sash-Fasteners; and I do hereby declare that the following is 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, reference being had to the accompanying drawings, which form a part of this specification.

This invention has relation to a new and improved sash-locking mechanism, the object of my invention being to provide a sash-lock which at the same time shall embody a means whereby the sash can be locked practically air-tight, so as to eliminate the necessity of using weather-stripping.

In the accompanying drawings, Figure 1 shows an end view, with parts removed and broken away, of the window-frame equipped with my improvement. Fig. 2 shows a broken front view thereof with parts removed. Fig. 3 shows a front view, disclosing the arrangement of the locking-levers. Fig. 4 shows a top view of one side of the window-casing, disclosing the arrangement of the operating effects. Fig. 5 shows an enlarged detached detail with parts removed. Fig. 6 shows an enlarged top view of the operating-handle. Fig. 7 shows a front view of one of the cleat-carriers. Fig. 8 shows an end view thereof.

Similar letters and numerals of reference refer to corresponding parts throughout the drawings.

The aim of my invention is to provide an air-tight, dust-proof window which shall be arranged and adapted to be locked at any point.

My invention comprises, essentially, a movable cleat, which cleat is adapted to form part of the window-framing and be adjustably clamped against the window adjoining which said cleat works when said window is closed, or it may comprise a controllable cleat adapted to be movably held within the window-sash proper and be clamped or bound against the window-frame, as may be desired.

Referring now to Fig. 1, A represents a suitable window-frame which is provided upon one side with four cleats, (marked 1, 2,

3, and 4.) The cleats numbered 1 and 4 are stationary and fixed to the window-frame A, as will be noticed in referring to Fig. 1, while the cleats marked 2 and 3 are laterally movable and come adjacent to the upper and lower window-sashes, respectively, when said windows are in their closed position. In the method as ordinarily employed a given space is permitted between the window-frames to allow a free movement of the sashes, but this method, while it facilitates the operation of the windows proper, leaves an air-space between the window sash and frame, which is usually covered by a packing-strip of some kind when it is desired to provide a dust-proof fitting of the window. In my invention, however, I overcome this objection in providing a laterally-working and controllable cleat arrangement, so that when the window is to be opened and lowered said cleat is removed from its binding position against the window and carried away to permit the operation of the window, which, when properly positioned, can be secured by virtue of being impinged between the window-frame and the adjustable cleat to simultaneously form a dust-proof fitting and window-lock.

In the accompanying drawings the two movable cleats 2 and 3 are provided with a cleat-carrier 5, (shown in detail in Fig. 5,) which cleat-carrier is further provided with two projecting lips 6 6, as clearly shown in Fig. 8, between which lips is held a projecting shaft 7, as is shown in Figs. 4 and 5. This cleat-carrier is secured by any suitable means and they may be used either singly or in sets, as desired. Secured to the fixed cleats 1 and 4, and also to the window-framing A, are the angular supporting-straps 8, (see Fig. 6,) within the rectangular portion 8' of which is held an operating stub-shaft 9, upon which shaft is fixed a sleeve provided with two outwardly-extending arms 10, between and upon which is held the impact-roll 11, referring to Fig. 5. Extending from and forming part of the shaft 9 is an arm 12, which at the end is provided with a swivel-collar 13. Secured by means of a screw 14, adjustably within the swivel-collar 13, by means of the screw 14, is an operating-bar 15, which below is shackled to the bifurcated end of the arm 16, which arm is secured to and

forms part of a crank-shaft 17, (shown in Figs. 1 and 6,) which shaft is provided with an operating-handle 18 and is held within the supporting-ears 19. This arrangement of instrumentalities would comprise my principal invention. Should a window equipped with this improvement be required to be raised or lowered, the operating-handle 18 would have to be thrown in such a position as to carry upward the operating-bar 15, which upward movement would carry with it the arms 12, so as to carry away the impact-roll 11 from the movable cleat 2. As this cleat, however, is secured to the impact-roll by means of the cleat-carrier 5, this movable cleat is carried away from the window-sash C, so that said window can be operated, it being of course understood that this impact-roll 11 travels in the path of an arc, while the movable cleat is carried laterally, riding upon the fixed cleat below it or against the fixed cleat above it, according to which of the cleats is operated. Whenever it is desired to lock the windows it is simply necessary to work the operating-handle 18 so as to draw down the rod 15, so that the window will be impinged between the movable cleats 2 and 3 and the window-frame upon the opposite side.

To further insure a practical air-tight fitting, I provide the movable cleats with the packing-strips 20, which of course can be used upon all sides of the window and can be of rubber, felt, or any other suitable material.

The second part of my invention comprises a method of securing the windows D and D' to the cord 21, which is made to pass over a suitable pulley 27, so that as the lower window is raised the upper is lowered a corresponding distance, it being understood that both the adjustable cleats 2 and 3 are simultaneously actuated. It should, however, be understood that the windows could be arranged to be raised or lowered independently.

To provide a take-up mechanism to compensate the lengthening of the connecting-strand securing the two window-sashes, I provide the lower sash with a pintle, to which said strand is secured, a pintle which upon the outside is provided with a slot adapted to receive a screw-driver, and, further, has a ratchet 50 working in conjunction with an ordinary pawl, so that said strand can be shortened, so that when the lower window-sash finds its secure seating the upper win-

dow-sash is tightly held against the upper part of the window. The devices are noticeable because of their simplicity of construction; and now,

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

1. The combination with a window-frame of a two-part movable cleat, one part of said cleat being positioned adjacent to the upper window-sash, the lower cleat being positioned adjacent to the lower window-sash so as to compose two fixed and two movable cleats, a support secured to each of said fixed cleats, a horizontal shaft working within each of said supports provided with an impact-roll, a carrier secured to each of said movable cleats and movably secured to said shaft and impact-roll, an operating-arm extending from each of said shafts and a main operating-bar secured to said extending arms to operate said movable cleats, all substantially as and for the purpose set forth.

2. The combination with a window-frame of a vertical cleat, forming part of said frame, a stationary shaft positioned adjacent to said movable cleat, bearings extending from said shaft adapted to engage said movable cleat, an arm extending from said shaft, a connecting-bar secured to said arm, and a means for carrying said connecting-bar in a vertical plane to operate said cleat, substantially as and for the purpose set forth.

3. The combination with a window-frame of a movable cleat, a shaft positioned within the window-frame and adjacent to said cleat, arms extending from said shaft, a projecting shaft within said arms, the ends of said shaft projecting beyond said arms, an impact-roll upon said shaft, a carrier secured to said cleat and provided with extending lips, said lips being adapted to engage said projecting shaft, an arm extending from said shaft, a connecting-rod, a swivel-collar secured to said last-mentioned arm and connecting-rod and a crank-shaft secured to said connecting-rod to actuate said rod, substantially for the purpose set forth.

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

CHARLES C. A. BAUERCAMPER.

Witnesses:

CHARLES L. THOMAS,
GEO. W. SUES.