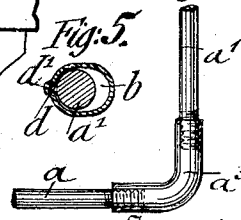
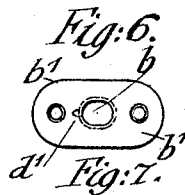
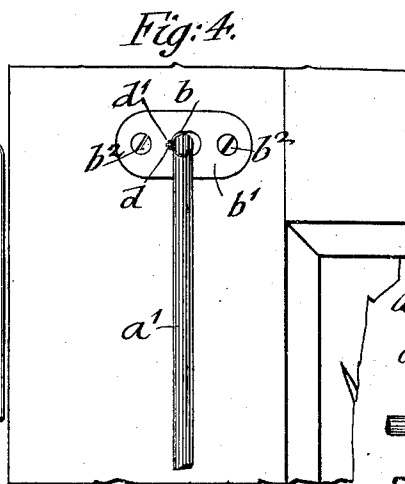
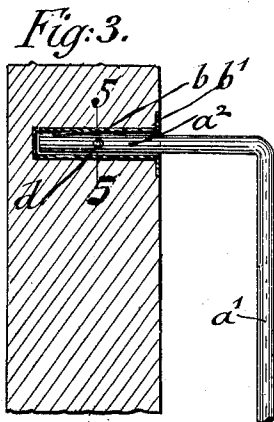
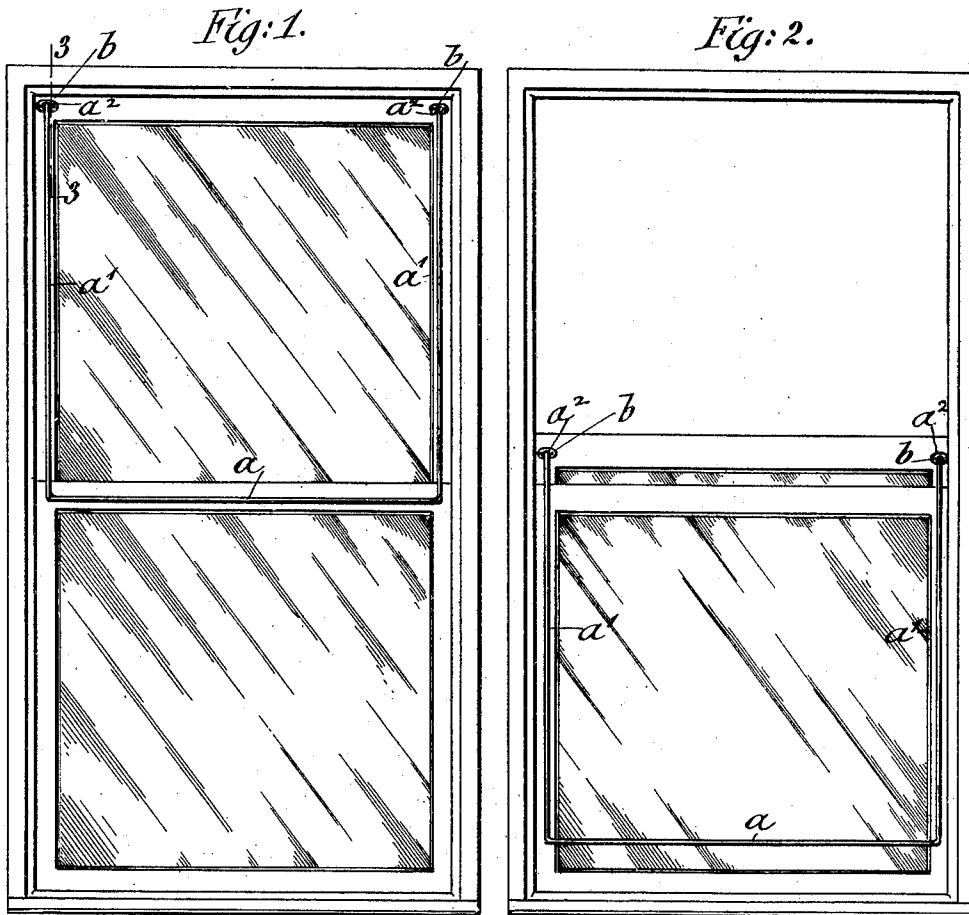


L. J. FISHEL.
ATTACHMENT FOR WINDOW SASHES.
APPLICATION FILED MAR. 17, 1910.

965,096.

Patented July 19, 1910.



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LEO J. FISHEL, OF NEW YORK, N. Y.

ATTACHMENT FOR WINDOW-SASHES.

965,096.

Specification of Letters Patent.

Patented July 19, 1910.

Application filed March 17, 1910. Serial No. 549,818.

To all whom it may concern:

Be it known that I, LEO J. FISHEL, a citizen of the United States of America, residing in New York, in the borough of Manhattan, county and State of New York, have invented certain new and useful Improvements in Attachments for Window-Sashes, of which the following is a specification.

This invention relates to an improved attachment for window-sashes, and more especially for upper large and heavy sashes, by which the raising and lowering of the same can be accomplished in a very convenient and effective manner.

The upper sashes of large windows can be opened only with some inconvenience. The usual way is to raise the lower sash until the meeting rail of the upper sash can be grasped by the hands from the outside and the sash pulled down. As the upper sashes are infrequently opened, they can be lowered only with some difficulty, so that most people prefer not to open the upper sash for ventilating purposes, but rely entirely on the opening of the lower sash for this purpose, especially as the closing of the upper sash is connected with the same inconvenience, namely, of opening the lower sash to a certain extent and then pushing the upper sash into closed position.

The object of this invention is to supply for the upper sashes of windows an attachment by which the opening and closing of the upper sash can be accomplished without raising the lower sash; and for this purpose the invention consists of an attachment for the upper window-sash which comprises receiving-sockets in the upper corners of the sash-frame and a U-shaped bail which is provided at its upper ends of its sides or legs with bent-over ends that are inserted into receiving corner-sockets of the sash-frame and secured thereto.

The invention consists further of means by which the upper ends of the U-shaped bail are retained in the sockets, but which permit the detaching of the bail when it is desired to remove it for cleaning the window-pane or for other purposes.

In the accompanying drawings, Figure 1 represents a front-elevation of an upper window-sash showing my improved attachment in position on the same, Fig. 2 is a front-elevation of the attachment, showing it in position when the upper sash is placed in lowered position, Fig. 3 is a detail verti-

cal transverse section on line 3-3, Fig. 1, Fig. 4 is a detail front-view, showing the connection of the handle-bail with one of the corner-sockets of the sash, drawn on a larger scale, Fig. 5 is a detail vertical transverse section on line 5-5, Fig. 3, drawn on a still larger scale, Fig. 6 is a detail front-view of one of the corner-sockets for receiving the upper end of the handle-bail of the attachment, and Fig. 7 is a detail front-view of a modified construction of the corners of the handle-bail of the attachment.

Similar letters of reference indicate corresponding parts throughout the several figures.

Referring to the drawings, *a* represents the U-shaped bail of my improved attachment for raising or lowering window-sashes. The bail *a* is preferably bent of a brass rod of sufficient thickness and size, corresponding to the size and weight of the sash to which it is applied, and finished in any suitable manner, according to the color of the wood employed for the sashes and window-casing. The U-shaped bail *a* is rounded off at its lower corners and the sides or legs *a*¹ are bent slightly in outward direction and provided at their upper ends with ends *a*² that are bent over at right angles to the legs *a*¹ and plane of the bail *a*. The bent-over ends of the sides or legs of the bail are inserted into sockets *b* that are located in mortises in the upper corners of the sash, said sockets being provided with an exterior face-plate *b*¹ that is attached by means of screws *b*² to the sash-frame so as to hold the socket in position. As the legs of the bail are bent slightly in sidewise direction from the lower cross-bar of the same, a certain spring action is exerted by the horizontally-bent ends *a*² of the legs on the sockets after they are inserted into the same, so that the bail is retained therein by the friction of the bent-over ends with the sockets. For preventing the accidental detaching of the bent-over ends of the bail from the sockets, each end *a*² is provided with a short pin *d* which extends laterally from the bent-over end *a*² and engages a recess *d*¹ in the socket, the socket being preferably made of cast metal and provided with a slightly elongated opening so that the pin *d* clears the opening of the socket when inserted into the same, but engages the recess *d*¹ by the spring action of the legs on their bent-over ends. The legs of the bail are made long enough

so that their lower connecting cross-bar extends partly over the upper meeting rail of the lower sash, as shown in Fig. 1, the bent upper ends a^2 being of sufficient length so
 5 that the bail will readily pass over the side-rails of the lower sash when the upper sash is lowered or raised.

The bail is preferably made in one piece. For large sashes it may be inconvenient to
 10 make the bail attachment in one piece, and it may be made of three pieces, a cross-piece and two legs, which are connected by curved corner-pieces a^3 having interiorly-threaded sockets into which the threaded
 15 ends of the cross-bar and legs are screwed, as shown in Fig. 7. The upper horizontal ends a^2 may also be made of short separable pieces and connected with the upper ends of the legs by similar corner-pieces a^3 .
 20 Shorter pieces of brass or other rods may thus be used for making up the U-shaped sash-bail.

For detaching the upper ends of the bail, it is necessary to move the sides or legs of
 25 the bail slightly toward each other, so that the pins d are released from the recesses of the sockets and permit thereby the detaching of the ends a^2 and of the entire bail from the upper sash. This may be necessary when it
 30 is desired to clean the sash or the bail itself or when arranging curtains, draperies, etc., for the window. Any suitable means for connecting the upper ends of the bail with the upper corners of the sash may be em-
 35 ployed, as many different connecting means may be devised for this purpose. For very heavy sashes, the attachment can also be used with the lower sash, only that in this case the bail has to be made somewhat
 40 shorter than the bail for the upper sash, so that the cross-bar is located in front of the lower rail of the lower sash.

The advantages of my improved bail attachment for sashes are, first, that the same
 45 can be readily sprung into position and retained in the sockets at the upper corners of the sash and easily detached therefrom

when desired; second, that the upper sash can be handled with great facility when lowering or raising the same; and, third, that it
 50 forms a very convenient means for opening and closing large and heavy sashes in buildings, such as hotels, apartment houses, public buildings, etc., in which the lowering of the upper sash for ventilating purposes is
 55 hardly ever attempted owing to the inconvenience connected with opening or closing the same.

Having thus described my invention, I claim as new and desire to secure by Letters
 60 Patent:

1. The combination, with a sash provided with sockets at its upper corners, of an approximately U-shaped bail having bent-over
 65 upper ends for insertion into the sockets.

2. The combination, with a sash provided with receiving-sockets at its upper corners, of an approximately U-shaped bail provided with bent-over ends at the upper ends of its legs, the legs of the bail exerting a spring
 70 action on the corner-sockets for being retained in the same.

3. The combination, with a sash, and sockets in the upper corners of the same, said sockets having laterally-elongated open-
 75 ings, of an approximately U-shaped bail provided with sidewise-bent legs and bent-over ends at the upper ends of said legs, the bent-over ends being provided with a laterally-projecting pin for engagement with recesses
 80 in the sockets.

4. A raising and lowering attachment for sashes, formed of an approximately U-shaped bail provided with rounded-off corners at the lower part and bent-over ends
 85 at the upper ends of its legs.

In testimony, that I claim the foregoing as my invention, I have signed my name in presence of two subscribing witnesses.

LEO J. FISHEL.

Witnesses:

PAUL GOEPEL,
 FANNIE FISK.