S. R. PARKES & C. H. FREEMAN.

CASEMENT HINGE.

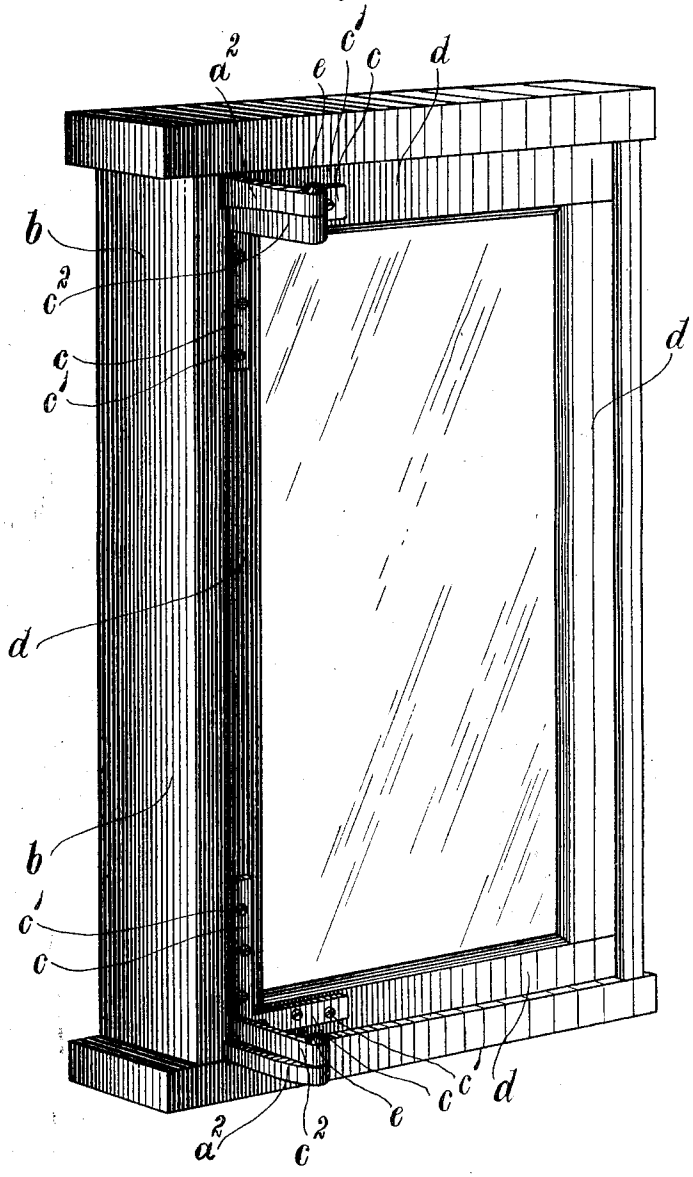
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3 SHEETS—SHEET 1.

Fig. 1.



WITNESSES

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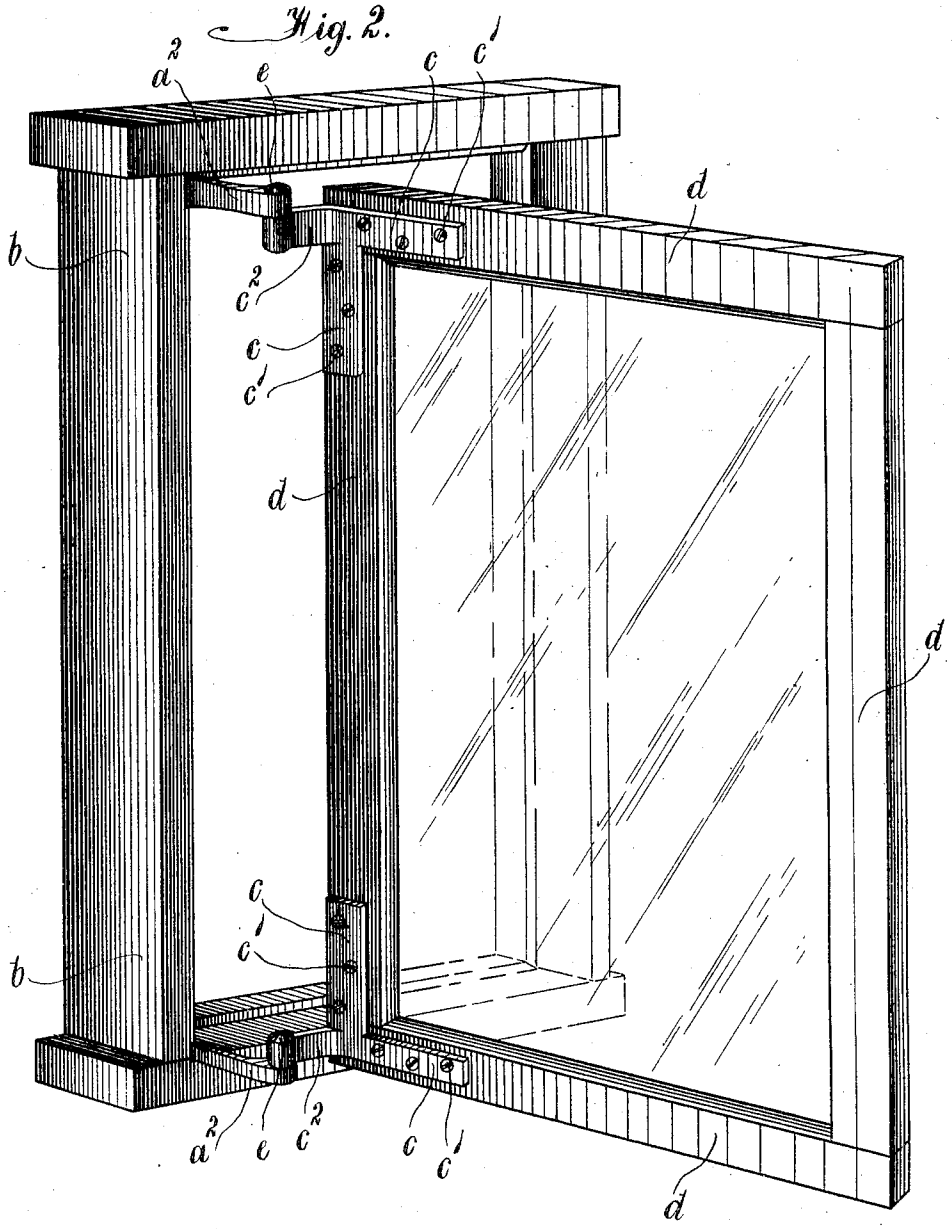
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3 SHEETS—SHEET 2.

Fig. 2.



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3 SHEETS—SHEET 3.

Fig. 3.

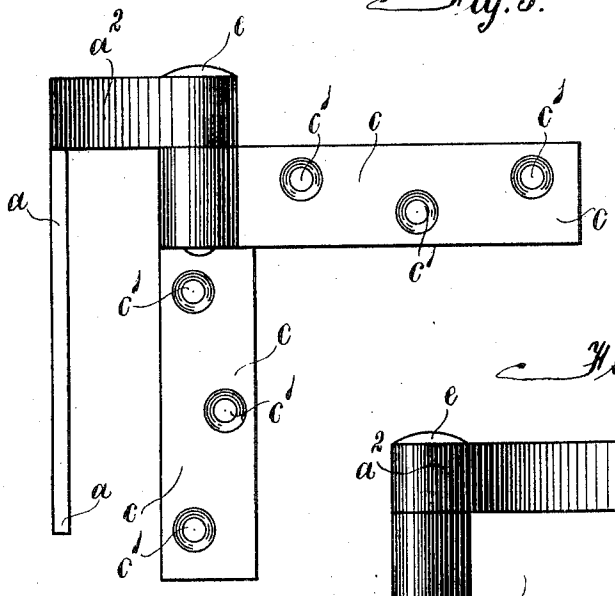
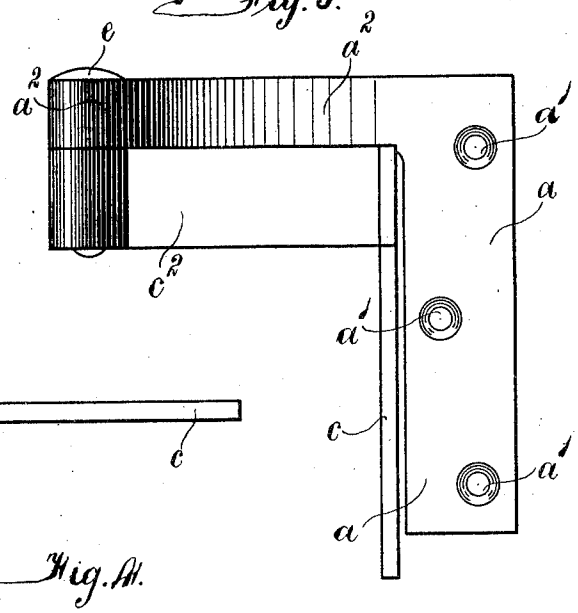


Fig. 5.



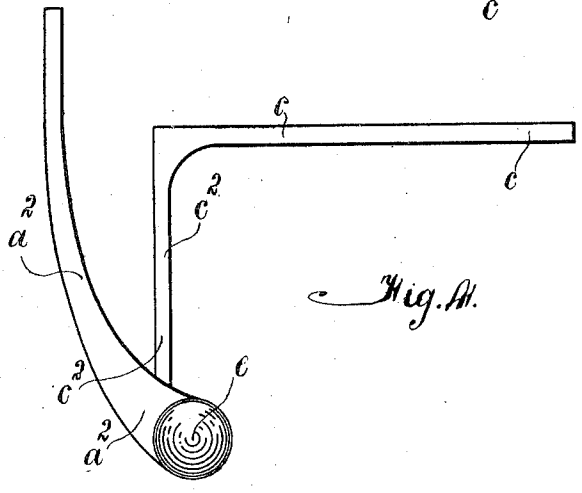


Fig. 4.

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UNITED STATES PATENT OFFICE.

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CASEMENT-HINGE.

1,067,369. Specification of Letters Patent. Patented July 15, 1913.

Application filed September 4, 1912. Serial No. 718,554.

To all whom it may concern:

Be it known that we, SAMUEL ROWLAND PARKES and CHARLES HENRY FREEMAN, subjects of the King of Great Britain, residing at Pretoria Works, Willenhall, in the county of Stafford, England, and 30 Stephenson street, Wolverhampton, in the county of Stafford, England, respectively, have invented a new and useful Casement-Hinge; and we do hereby declare the following to be a full, clear, and exact description of the same.

Our invention comprises improvements relating to casement windows and comprises an improved mounting for same of the type wherein the casement is pivoted at a distance from the window jamb whereby when a window is opened a sufficient space is left between the window jamb and the window to permit a person's arm to be inserted, thus enabling the outside of the casement window to be cleaned from within the room. Various devices or hinges for this purpose have been heretofore proposed, but they have usually been complicated and attached to the upper and lower edges of the window, being inapplicable to windows having arched tops or to those which are mounted upon frames having special rails, while it is impossible to employ more than two of such hinges with windows of exceptional height. We are aware that it has also been proposed to mount a casement window by hinges in which the pivot projects a considerable distance from the window so as to enable it to be cleaned; but in such cases the hinge plates were disposed horizontally and screwed to the window jamb and to the edge of the window; but such fixing was insecure in practice and moreover was inapplicable to windows with a thin edge such as iron windows, to which our hinge is particularly applicable.

The object of our said invention is to overcome these defects and to provide an improved and simpler mounting of the specified type.

According to our invention we provide a hinge for casement windows one part of the hinge embodying a strap of L or other shape adapted to be secured to the outer face of the window, and a part outstanding from said strap; and a second hinge part embodying a strap adapted to be secured to the face of the window jamb, and a similar outstanding arm; all so arranged that when the casement window is opened it will leave a substantial space between the window jamb and window whereby the cleaning of the window is facilitated.

Referring to the drawings:—Figure 1, is a perspective view of a window fitted with our hinges in its closed condition. Fig. 2, is a similar view open. Fig. 3, is an elevation of a hinge removed, looking toward the strap which is attached to the window. Fig. 4 shows the hinge in plan view. Fig. 5 is an elevation looking toward the strap which is attached to the window frame.

In carrying our invention into practice as illustrated upon the accompanying drawings the one member of the hinge is conveniently in the form of a strap a being secured within a recess in the window jamb b, by screw holes a^1, one extremity a^2 of this L shaped member a projecting beyond the outside of the window and being slightly curved in a plane away from the window jamb in order to increase the opening provided by the window. The second part of the hinge is preferably in the form of an L shaped strap c which is however secured to the outer face of the window d by screw c^1 or it may be a simple straight strap. The strap is provided with an out-standing member c^2 of a length corresponding with the projecting part of the other member, say three inches, these two projecting members lying one above the other and being provided with suitable vertical holes whereby they are connected together by a pivot pin e.

It will be obvious that when such a casement window is opened outwardly the window will move about the pivot point which is at a distance from the window jamb, thereby providing an opening between the window jamb and the window as seen in Fig. 2 through which a person's arm may be passed thus enabling the outside of the window to be cleaned by a person within the room. Our method of mounting does not involve any fittings upon the upper or lower rail of the window frame or upon the upper or lower edge of the window, which as previously stated is a considerable advantage in practice, while the hinges may be readily fixed in position by the usual screws. Moreover three or more hinges so constructed may be mounted one above the

other as with windows of exceptional height, which is impossible when the hinges can only be attached to the upper and lower edges, such constructions limiting the number of hinges to two.

It will be seen that each pair of hinges may be readily employed for casements opening either right or left hand windows, while they are easily fixed and as no cutting away of the window is required they strengthen the window, being screwed onto the outside of same.

What we claim then is:—

The combination with a casement and the casement window, of a fixed hinged part secured to the window jamb and projecting therefrom to a position outwardly spaced from the plane of the window opening and in a vertical plane perpendicular to said plane at a point within the window opening; and a movable hinge part secured to said casement and pivoted to said fixed part at said position, the sum of the distances that said position is spaced from the window jamb and casement respectively being greater than the width of a person's arm.

In testimony whereof, we have signed our names to this specification in the presence of two subscribing witnesses.

SAMUEL ROWLAND PARKES.
CHARLES HENRY FREEMAN.

Witnesses:
HAROLD J. HOWESTON,
HERBERT J. O. BARTON.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."