T. MASON.

SASH HOLDER FOR SLIDING SASHES.

APPLICATION FILED MAR. 7, 1913.

1,102,531. Patented July 7, 1914.

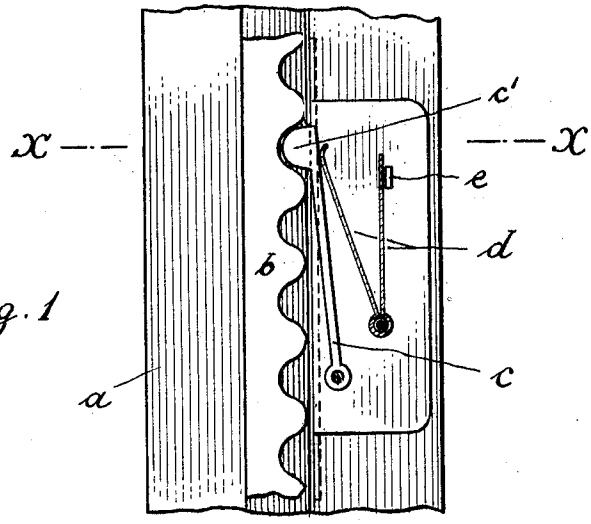


Fig. 1

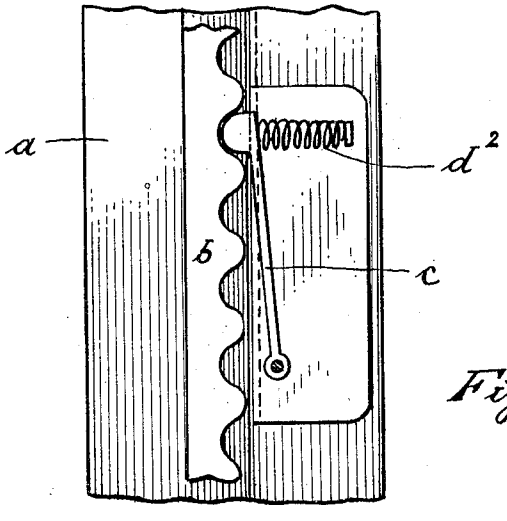


Fig. 2

Witnesses:
E. Alder
E. Willmond

Inventor:
Thomas Mason
by Carl Lewis
His Attorney.

NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C

UNITED STATES PATENT OFFICE.

THOMAS MASON, OF KILLARNEY, IRELAND.

SASH-HOLDER FOR SLIDING SASHES.

1,102,531. Specification of Letters Patent. Patented July 7, 1914.

Application filed March 7, 1913. Serial No. 752,741.

To all whom it may concern:

Be it known that I, THOMAS MASON, a subject of the King of England, and resident of Killarney, county of Kerry, Ireland, have invented a Sash-Holder for Sliding Sashes, of which the following is a specification.

My invention relates to improvements in or relating to window holders for sliding sashes and the like of the type which comprise a rack fitted to the stile of the sash and a pivoted member kept into engagement with same, by means of a spring and has for its object to provide an improved construction and general arrangement of parts which will be fully understood by the following description and finally pointed out in the claim.

Hitherto inventions of this type have been formed so that the arm engaging with the rack has constituted its own spring or has been pivoted at its upper end, which after a little while becomes inefficient in operation or the arm has been carried loosely at its lower end on a pin parallel to the plane of the sash. In other forms the arm itself has been complicated in construction but with my device the arrangement of parts is very simple.

In carrying my invention into practice I fix upon one or both of the sliding stiles of the sash or other frame to which my invention is to be applied, a toothed rack having round shaped or semi-circular teeth and mounted on the window or surrounding framework I arrange a lever pivoted at its lower end on a pin at right angles to the plane of the sash, and which is normally held into engagement with the toothed rack above mentioned by means of a conveniently arranged spring. And in order that my invention may be more readily understood I have shown same upon the accompanying sheet of drawings wherein:

Figure 1 shows a portion of window frame and sash exposing the details which comprises my invention, and Fig. 2 illustrates a modification.

Like letters of reference indicate corresponding parts throughout the figures.

In carrying my invention into practice I fix upon one or both of the sliding stiles *a* of a window sash or the like, a toothed rack as *b* having preferably round shaped teeth which rack can be fitted in a recess conveniently cut for the purpose. The teeth are of course disposed on the outer edge of the rack and engaging with the said rack is a similar shaped projection c^1 fixed to or formed integral with the lever *c* pivoted at its lower end. Against this lever bears a spring *d* of the form shown, one end of which rests against a stop *e*, thus the spring will always tend to keep the toothed shaped projection c^1 into engagement with the teeth of the rack *b*. In lieu of employing a spring of the design shown in Fig. 1 (see *d*) I may use an ordinary spiral spring as shown at d^2, Fig. 2.

It will be seen that the sliding sash can be raised or lowered and when the pressure is released the sash will remain in the desired position.

It will, of course, be understood that all the fittings such as racks, springs and engaging means will be made of any convenient metal and fixed in position in any known or convenient manner.

Having now fully described my said invention what I claim and desire to secure by Letters Patent is:—

In the herein described window holder for sliding sashes, the combination with the sliding stiles of the said sash, of a rack having semi-circular teeth and being fixed to the stile, a lever pivoted to the window frame and terminating in a semi-circular projection adapted to engage with the rack, and a spring mounted on the window frame and causing the said projection to keep in engagement with the teeth of the rack, all substantially as and for the purpose specified and shown.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

THOMAS MASON.

Witnesses:
H. K. CRUIKSHANK,
ED. B. DAWSON.

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