W. BOYLE.

WINDOW STAY.

APPLICATION FILED OCT. 8, 1920.

1,434,732. Patented Nov. 7, 1922.

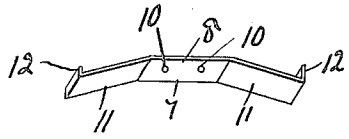


Fig. 1.

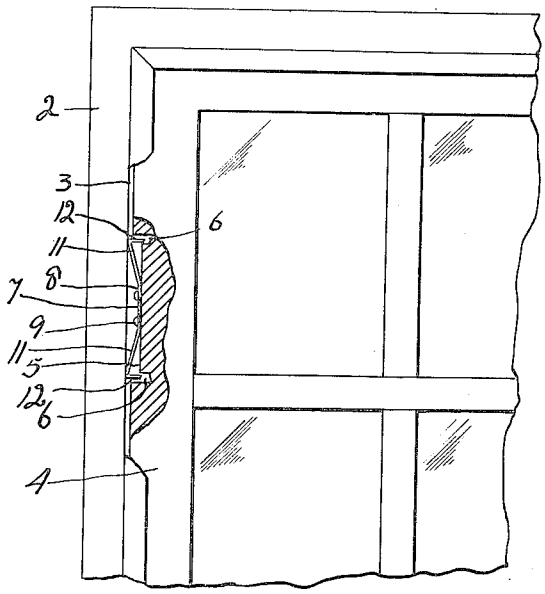


Fig. 2.

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UNITED STATES PATENT OFFICE.

WILLIAM BOYLE, OF PHILADELPHIA, PENNSYLVANIA.

WINDOW STAY.

Application filed October 8, 1920. Serial No. 415,486.

To all whom it may concern:

Be it known that I, WILLIAM BOYLE, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented new and useful Improvements in Window Stays, of which the following is a specification.

My invention relates to new and useful improvements in a sash stay, and has for its object to provide an exceedingly simple and effective device of this character adapted to be fastened to a window sash and frictionally engage one of the walls of the window casing so as to hold a sash in any adjusted position within the casing.

A further object of the invention is to produce a window stay from sheet metal having a sufficient resiliency to provide a spring pressure between a window sash and a window casing for holding the sash in different adjusted positions, said stay consisting of a body portion having oppositely projecting arms lying at angles to the body with fingers projecting from the outer ends of said arms adapted to register with chambers in the window sash.

With these ends in view, this invention consists in the details of construction and combination of elements hereinafter set forth and then specifically designated by the claims.

In order that those skilled in the art to which this invention appertains, may understand how to make and use the same, I will describe its construction in detail, referring by numerals to the accompanying drawings forming a part of this application, in which:—

Fig. 1, is a perspective view of my improved sash stay.

Fig. 2, is a fragmentary front elevation of a window sash and its casing, a portion thereof being broken away and shown in section to clearly illustrate the application of one of the sash stays.

In carrying out my invention as here embodied, 2 represents a window casing having a channel 3 therein in which is slidably mounted the window sash 4.

In the side edge of the sash is formed a groove 5 lengthwise of the sash and from the ends of this groove project inwardly the chambers or cavities 6 communicating with said groove. In this groove is mounted my improved sash stay 7 the central portion or body 8 thereof lying entirely within the groove and held in place by suitable fastening devices 9 such as screws which pass through holes 10 formed in the body. From each end of this body extend the oppositely projecting arms 11 which are arranged at opposite angles so that when in use these arms project outwardly with relation to the sash as plainly shown in Fig. 2 and with these arms are formed the inwardly projecting fingers 12 which register with the chambers or cavities 6 in the window sash, while at the points of connection between the arms and fingers, which in practice will be slightly rounded and bear against one of the walls of the window casing forming the channel 3 with sufficient spring pressure to produce sufficient friction to hold the window in any adjusted position.

The sash stay is formed from a piece of sheet metal having sufficient resiliency to normally hold the arms 11 outward or out of line with the body, but when the sash is being fitted to the window casing some device such as a screw driver or chisel may be placed between the window casing and sash in the region of the sash stay so as to engage the arms 11 and when the sash is forced into the casing the arms will be caused to enter the groove 5 sufficiently to permit said arms to pass into the casing after which the instrument may be withdrawn.

Although I have shown only one sash stay it is to be noted that one of them is used upon each side of the window sash so as to engage both the channels of the window casing in which the sash is mounted and where an extra heavy sash is to be fitted with my device two or more might be placed upon each side thereof as will be readily understood.

Of course I do not wish to be limited to the exact details of construction as herein shown as these may be varied within the limits of the appended claims without departing from the spirit of my invention.

Having thus fully described my invention, what I claim as new and useful is:—

1. In combination with a window sash and its casing, said sash having a groove therein with a chamber projecting from each end thereof in communication there-

with, a sash stay comprising a body, arms projecting therefrom and fingers carried by the outer ends of said arms, said stay being mounted in the groove with the fingers registering with the chambers.

2. A sash stay formed from a single piece of resilient metal and consisting of a body, arms projecting from each end thereof in opposite directions at angles to said body, and inwardly projecting fingers formed integral with the ends of said arms.

In testimony whereof, I have hereunto affixed my signature.

WILLIAM BOYLE.