July 25, 1950 H. J. HUFNAGEL 2,516,630

WINDOW LOCK

Filed April 19, 1948

Fig. 1.

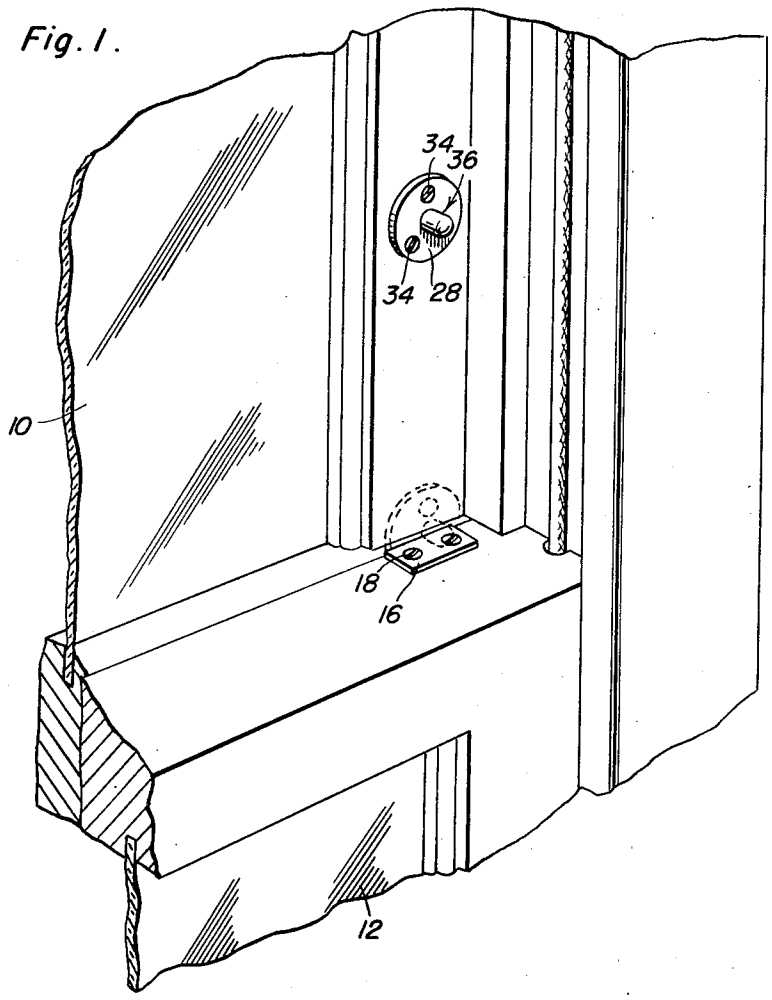
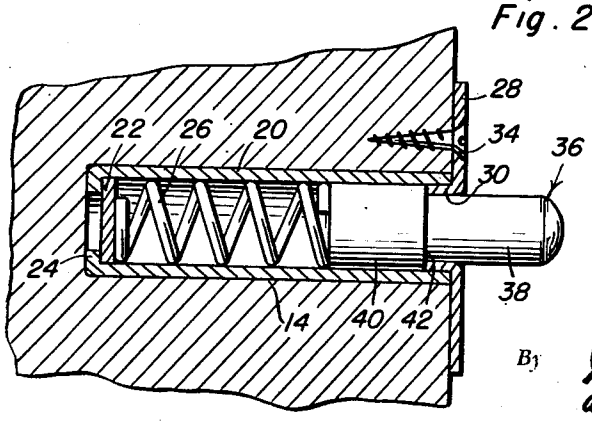


Fig. 2.



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Patented July 25, 1950

2,516,630

UNITED STATES PATENT OFFICE

2,516,630

WINDOW LOCK

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Application April 19, 1948, Serial No. 21,992

1 Claim. (Cl. 292—163)

1

This invention appertains to novel and useful improvements in safety devices for use in association with sliding window construction.

An object of this invention is to constantly resiliently bias a plunger exteriorly of a bore formed in one of the windows and to supply a wear plate on the other of said windows cooperable with said plunger whereby the windows may be relatively opened only a predetermined amount.

Another object of this invention is to provide an extremely simplified device for preventing the opening of windows a sufficient amount in order to permit unauthorized persons to enter a structure.

Another object of this invention is to provide an extremely simplified device of the character described which lends itself well to commercial manufacture and which is sightly in use.

Ancillary objects and features of novelty will become apparent to those skilled in the art, in following the description of the preferred form of the invention, illustrated in the accompanying drawing, wherein:

Figure 1 is a fragmentary perspective view showing a portion of a window construction having the invention associated therewith;

Figure 2 is a longitudinal sectional view of the plunger construction forming a portion of the invention.

Referring now to Figure 1 it will be seen that an upper window section 10 is supplied in association with a lower window section 12, each of which is slidably received in the usual guideways provided therefor. The window section 10 is supplied with a bore 14 a predetermined distance above the lower edge of the window. Seated on the upper portion of the lower window section 12 is a wear plate 16 attached by any suitable means such as the screws 18. This wear plate is cooperable with a plunger for limiting the movement of the windows relative to each other only a predetermined amount.

A sleeve 20 is seated in the said bore 14 and has a plate 22 therein. This plate rests on the incurved portion 24 of the said sleeve and a spring 26 or other suitable equivalent resilient biasing means rests on the said plate 22.

An end plate 28 is attached to the said window 10 and has an inwardly flared portion 30. This inwardly flared portion projects interiorly of the said sleeve 20 and is utilized for a purpose to be described subsequently. Conventional screws 34 may be used for attaching the said plate 28 to the window.

A plunger generally indicated at 36 is slidably receive in the bore of the said sleeve 20 and is composed of a reduced section 38 and an enlarged section 40. The said enlargement defines a shoulder 42 which seats upon the inwardly curved

2

portion 30 thereby limiting the travel of the entire plunger which is constantly urged by the spring 26.

The terminal portion of the said reduced plunger element 38 is rounded since the plunger is adapted to be urged inwardly of the sleeve 20 when it is desired to override the safety device.

In operation the lower section can be lifted only so far when the wear plate 16 engages the reduced portion 38 of the plunger. Conversely the upper section 10 can be lowered only a predetermined amount when the plunger reduced section 38 engages the wear plate and permits movement of the windows relative to each other only a selected distance. However, when it is desired to override the plunger, it is simply urged inwardly of the sleeve 20 and the upper or lower window moved the desired amount.

Due to the extreme simplicity achieved by the present invention a further description thereof is deemed unnecessary. However, it is apparent that certain variations may be made without departing from the spirit of the invention.

Having described the invention, what is claimed as new is:

A safety device for use in a window construction which includes a first and second sliding section, said first sliding section having a bore, a wear plate secured to the second sliding section, a sleeve seated in said bore, a plunger having an enlargement slidably disposed in said sleeve, a shoulder formed on said plunger by said enlargement, a cover plate secured to said first section and having a flange projecting within said sleeve, said flange being engaged by said shoulder for limiting the outward travel of said plunger, means in said sleeve for constantly urging said plunger outwardly of said sleeve, said means including a spring reacting on said sleeve and said enlargement and pushing said plunger outwardly of said bore so that a part of said plunger normally projects outwardly from said first section to be engaged by said wear plate on said second section to thereby limit the movement of said sections with respect to each other.

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