

982,414.

P. DEVLIN.
WINDOW SHUTTER HOLDER.
APPLICATION FILED MAY 11, 1910.

Patented Jan. 24, 1911.

2 SHEETS—SHEET 1.

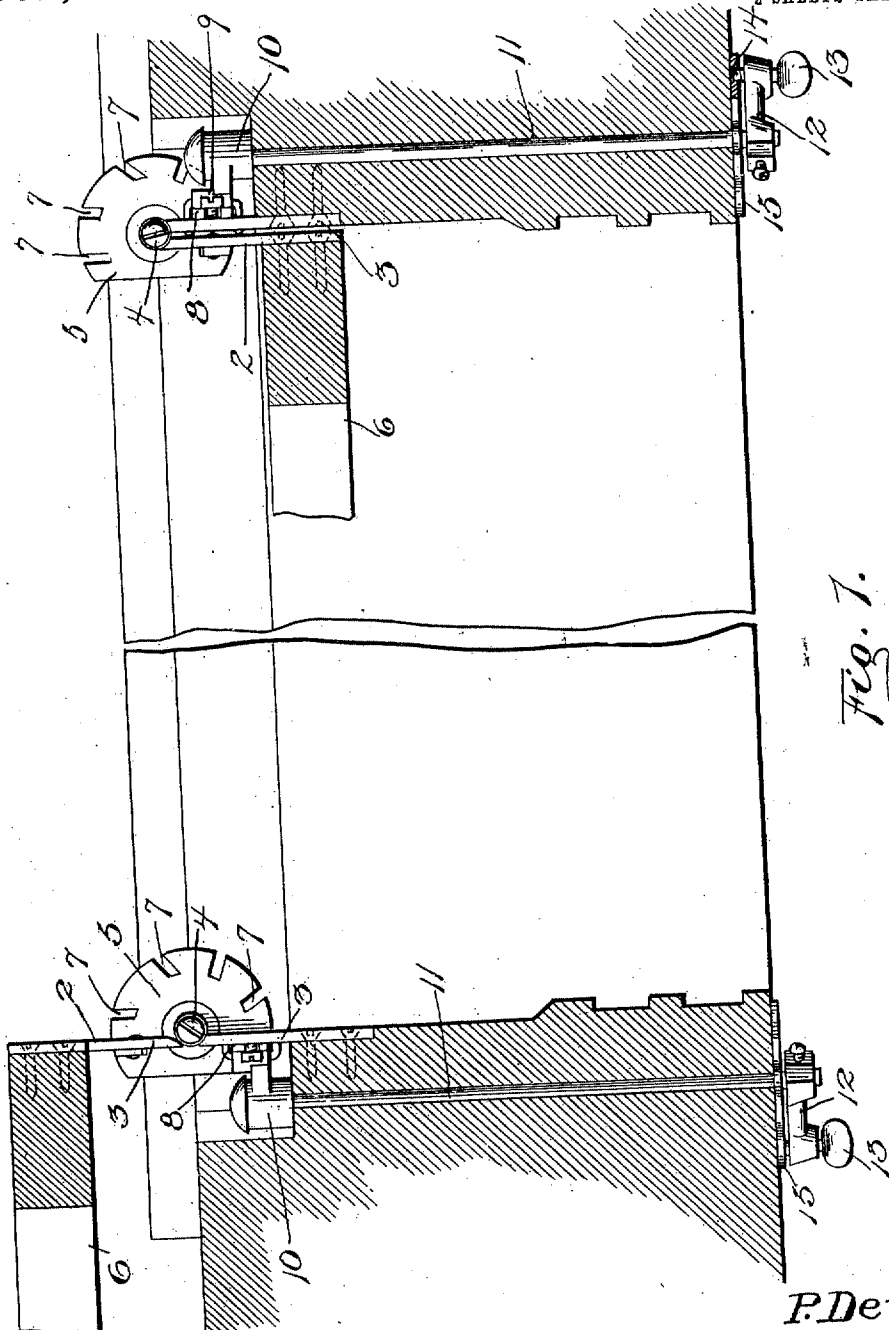


Fig. 1.

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Witnesses

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2 SHEETS-SHEET 2.

Fig. 2.

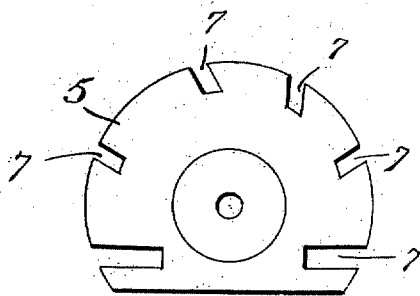
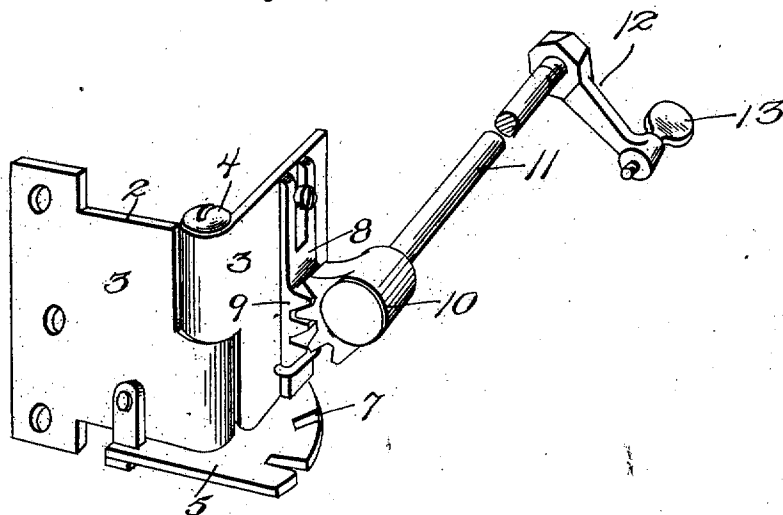


Fig. 3.

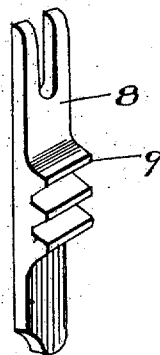


Fig. 4.

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UNITED STATES PATENT OFFICE.

PETER DEVLIN, OF BALTIMORE, MARYLAND.

WINDOW-SHUTTER HOLDER.

982,414.

Specification of Letters Patent.

Patented Jan. 24, 1911.

Application filed May 11, 1910. Serial No. 580,762.

To all whom it may concern:

Be it known that I, PETER DEVLIN, a citizen of the United States, residing at No. 1311 East Biddle street, city of Baltimore, State of Maryland, have invented a new and Improved Shutter-Holder, of which the following is a specification.

This invention relates to new and useful improvements in shutter holding devices, and more particularly to that class in which the shutters are adapted to be held in any desired position or angle with respect to the window frame to which they are applied.

Another object of this invention is the provision of a hinge, whereby the windows may be very readily opened or shut without any unnecessary exertion by the person desiring to open the same.

A further object of this invention is to improve and simplify devices of this character, rendering them comparatively simple and inexpensive to manufacture, reliable and efficient in use, and readily operated.

With the above and other objects in view, this invention resides in the novel features of construction, formations, combinations and arrangements of parts to be hereinafter more particularly described, claimed and illustrated in the accompanying drawing, in which—

Figure 1 is a horizontal sectional view taken through a window frame having my invention applied thereto; Fig. 2 is a perspective view of my improvement detached; Fig. 3 is a plan view of the segmental plate, and Fig. 4 is a detail perspective view of the rack.

Referring to the drawings by characters of reference, the numeral 1 designates generally a window frame, upon the inner sides or edges of which are secured hinges 2. These hinges 2 comprise the customary leaves 3, connected at their adjacent edges by means of the customary vertically extending pintles 4, to the lower ends of which are secured in any desired manner segments 5, the straight edges of which are secured to the lower edges of the leaves 3 to which the shutters 6 are secured. The outer or curved edges of the segments are provided with vertically arranged notches 7, for the reception of the lower reduced terminal of vertically movable racks 8 secured in suitable guides 9 to the rear of the leaves 3, which are secured to the inner edges of the

Teeth 9 are formed upon the rear of the previously mentioned racks 8 for the engagement with segmental pinions 10 keyed to the outer ends of horizontally disposed shafts 11, to the inner ends of which are secured operating cranks 12, provided at their free ends with thumb screws 13, adapted to engage one or more of the spaced apertures 14, located in plates 15 secured to the inner face of the window frame.

The operation of the device is as follows: When a person desires to open or close the shutters, or retain the same in any desired angle or position with respect to the window frame, obviously upon the turning of the thumb screws, the inner ends of the same which lie in engagement with one pair of the apertures 14, said inner ends will be free from the said apertures, thus permitting a free swinging of the operating cranks 12, manifestly raising the racks secured to the rear face of the leaves through the medium of the previously mentioned segmental pinions and removing the reduced lower ends of the said racks out of engagement with the vertical opening formed in the segments, which are carried by the lower end of the shutter supporting leaves and the pintles 5.

From the foregoing it will be readily apparent that the shutters may then be swung to any desired position and retained therein by lowering the racks again into engagement with the nearest apertures, and again seating the thumb screws into the apertures formed into the curved plate for the purpose of retaining the shutters against displacement.

Having thus fully described this invention, what I claim as new and desire to secure by Letters Patent is:

1. The combination in a hinge of a segment secured to one leaf thereof, a rack secured to the opposite leaf thereof, for engagement with said segment, and means for moving said rack into and out of engagement with the segment, substantially as and for the purpose set forth.

2. The combination in a device such as described of a hinge, a segment secured to one leaf thereof, a rack secured to the opposite leaf of the said hinge for engagement with the segment, a segmental pinion engaging the said rack, and means for operating the segmental pinion for the purpose of moving the said rack into and out of engagement with the said segment.

3. The combination with a hinge of a segment secured to the opposite leaf thereof, a rack secured to the opposite leaf thereof and adapted to engage the segment, a segmental pinion engaging the rack, a crank adapted to operate the segmental pinion and move the rack into and out of engagement with the segment secured to one leaf of the hinge, and means for locking the rack into and out of engagement with the said segment.

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Witnesses:

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