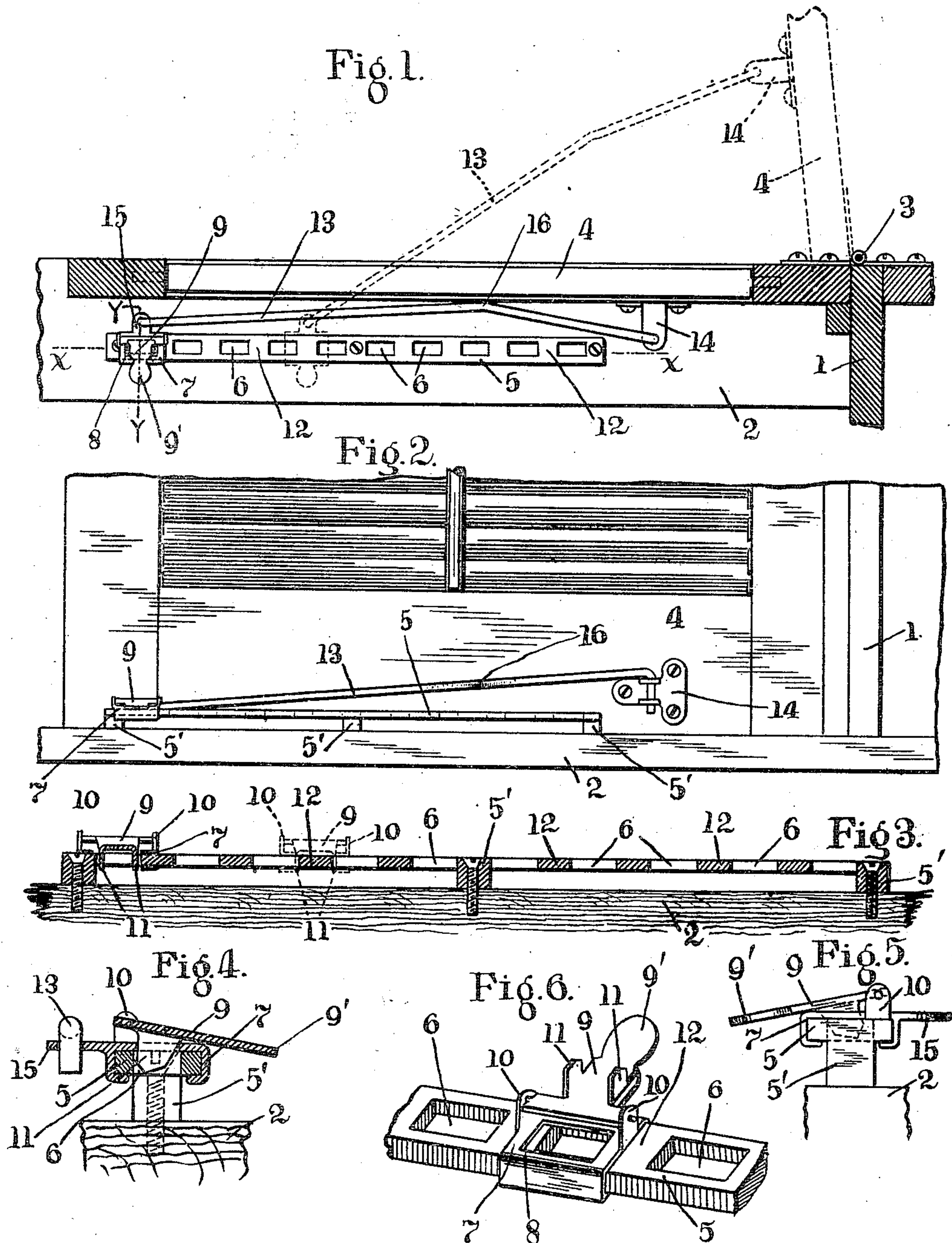


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 WINDOW SHUTTER REGULATOR AND FASTENER.
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964,441.

Patented July 12, 1910.



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JOSEPH H. LYNCH, OF RED BANK, NEW JERSEY.

WINDOW-SHUTTER REGULATOR AND FASTENER.

964,441.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JOSEPH H. LYNCH, a citizen of the United States, and a resident of Red Bank, in the county of Monmouth and State of New Jersey, have invented certain new and useful Improvements in Window-Shutter Regulators and Fasteners, of which the following is a specification.

My invention relates to means for regulating and fastening window shutters, casement windows and the like whereby they may be positively locked in open or closed position or in any intermediate position.

The main objects of my invention are to provide locking means which will securely and positively hold the shutter or window in the desired position and which will be capable of being easily manipulated to vary the position of the shutter or window.

Among the other objects are simplicity combined with strength and reliability.

I am aware that heretofore devices for fastening shutters in open, closed or intermediate positions have been made and used but they have all been open to more or less serious objections such as being awkward to operate, providing insecure fastenings and so forth, which objections are overcome by my invention. Further, by my invention, the shutter or window can be positively locked in a great number of positions between its open and closed position, due to the construction of locking bar and latch.

My invention consists in the novel parts, combinations of parts and details of construction hereinafter more particularly described and then specified in the claims.

In the accompanying drawings, Figure 1 is a partial plan of and horizontal section through a window casing and shutter having my invention in its preferred form applied thereto. Fig. 2 is a front elevation of the same. Fig. 3 is a longitudinal section through the locking bar on an enlarged scale and taken on the line X X Fig. 1. Fig. 4 is a transverse section through the latch and locking bar taken on the line Y Y Fig. 1 and shown on an enlarged scale. Fig. 5 is an enlarged end elevation of the locking bar and latch showing the same in locked position. Fig. 6 is a perspective view of the latch in open or unlocked position and a portion of the locking bar.

While my invention is herein shown and described as applied to a shutter it will be understood that it might equally well be

used to adjust and fasten casement windows and for all similar uses and therefore the description and claims are to be construed as covering all such applications of the invention. Also it will be understood that various departures from the exact form and arrangement might be resorted to without departing from the spirit of the invention.

In the drawings but one side of the window is shown, it being understood that where double windows or double shutters are employed there will be one of the devices for each window or shutter it is desired to have so equipped.

The ordinary window casing indicated at 1 is provided with the usual sill 2, the shutter hinged as at 3 to the window casing or the outside of the building being indicated at 4, which shutter might equally well typify a casement window.

5 indicates a bar firmly secured to the window sill 2 and preferably disposed parallel with the shutter 4 when said shutter is in closed position. The bar 5 is preferably formed with a rectangular upper portion supported above the sill 2 by posts or lugs 5' through which the fastening screws pass. The bar 5 is provided with a plurality of holes preferably in the form of openings 6 passing clear through the said bar and arranged longitudinally of said bar at equal distances apart. These holes or openings are preferably rectangular in form and slightly longer than the partitions 12 between them.

7 indicates a slide or carrier which travels longitudinally from one end of the bar 5 to the other on the rectangular part thereof as a guide. The said guide or carrier is conveniently formed from a blank of sheet metal, two opposite edges of which are bent downward and in to grip around the longitudinal sides of the rectangular bar 5, a rectangular opening 8 being formed in the upper surface of the carrier and which progressively registers with the openings in the bar 5 as the carrier is moved along the bar.

An arm 9 pivotally mounted in ears 10 rising from the carrier 7 is provided with a pair of laterally projecting ears 11 projecting from either side of the arm 9, the free end of the arm terminating in a thumb-piece 9' whereby the arm can be turned about its pivot. When the opening 8 in the carrier registers with one of the openings in the bar 5 and the arm 9 is brought forward,

the ears 11 pass through the opening 8 and enter the opening in the bar thereby locking the movable carrier to the fixed bar 5. If the carrier is stopped with the opening 8 over one of the partitions 12 of the bar 5, the ears 11 will pass through the opening 8 and span the partition, as shown in dotted lines in Fig. 3, thus again locking the carrier and bar.

13 indicates a rod connected at one end to a bracket 14 fixed to the shutter 4 and so as to be free to turn therein, the other end being pivotally connected to the carrier 7 and so as to travel therewith. The rod 13 might be secured to the carrier 7 and bracket 14 in any desired manner, but preferably it is freely and loosely secured thereto so that it can be readily detached and assembled without any special tools and also to render the device more compact for shipment. Preferably the bracket 14 is fastened to the shutter some distance above the plane of the locking bar 5 and the end of the rod 13 which is mounted in this bracket is bent sharply downward until the bent part is at an angle of less than 90° to the main part whereby the other end of the rod 13, which is also downwardly bent, has to be sprung upward to cause it to enter a hole in a horizontal tongue 15 projecting from the carrier 7. By this construction the rod 13 is always kept under tension and the end thereof is prevented from accidentally springing out the tongue 15. When opening or closing the shutter the carrier 7 travels along the bar 5 and the shutter is locked in any desired position by causing the ears of the latch 9 to enter an opening in the bar 5 or to span a partition, the shutter rod 13 being then positively locked to the fixed sill bar 5. The shutter rod 13 is bent as at 16 to allow the rod to avoid the edge of the shutter when said shutter is full open and lying flat against the outside of the building.

What I claim as my invention is:

1. In a shutter regulator and fastener, the combination of a bar adapted to be secured

to the sill, and provided with openings therein, a rod adapted to be secured at one end to the shutter, a carrier adapted to travel on said bar and to which the other end of said rod is secured and a latch pivotally mounted on said carrier and adapted to engage the openings in said bar to lock said rod and said bar at different positions along said bar.

2. In a shutter regulator and fastener, the combination of a bar secured to the sill, and provided with alternate openings and partitions, a rod secured at one end to the shutter, a slide to which the other end of said rod is secured, said slide being adapted to travel on said bar and means carried by said slide and adapted to lock said rod to said bar at the openings therein or at the partitions between the openings.

3. In a shutter regulator and fastener, the combination of a bar secured to the sill, and provided with alternate openings and partitions, a rod secured at one end to the shutter, a carrier to which the other end of said rod is secured, said carrier being adapted to travel on said bar and a latch pivoted on said carrier and adapted to lock in said openings or on the partitions between said openings.

4. In a shutter regulator and fastener, the combination of a bar secured to the sill, and provided with alternate openings and partitions, a rod secured at one end to the shutter, a carrier to which the other end of said rod is secured, said carrier being adapted to travel on said bar and an arm pivotally mounted on said carrier provided with laterally projecting ears, said ears being adapted to enter said openings or span said partitions to lock said rod to said bar.

Signed at New York in the county of New York and State of New York this 22nd day of October A. D. 1909.

JOSEPH H. LYNCH.

Witnesses:

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