Sept. 7, 1926. 1,599,263

F. C. WOODHULL

DOOR SECURER

Filed May 13, 1926 2 Sheets-Sheet 1

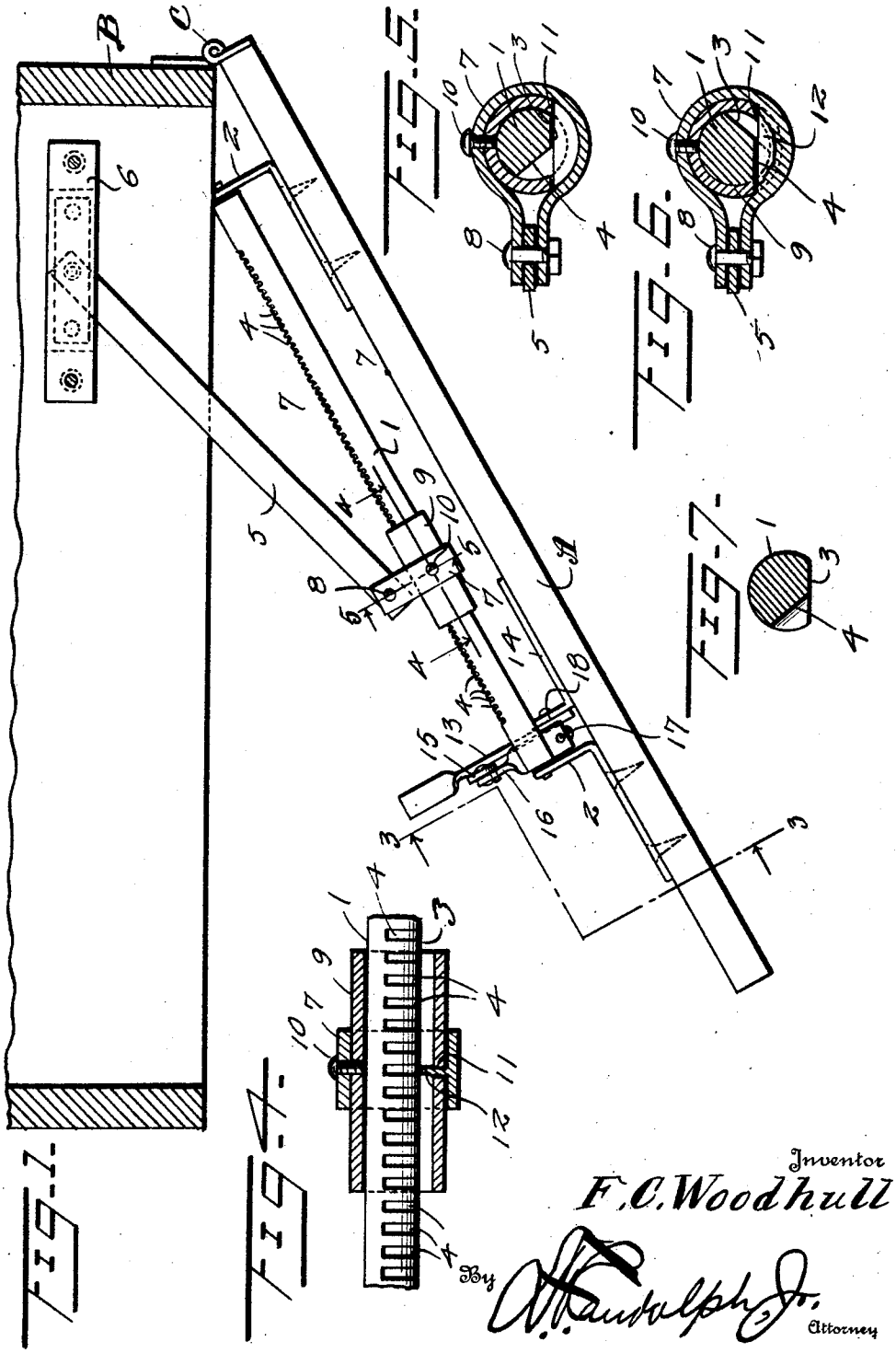


Fig. 1.

Fig. 4.

Fig. 5.

Fig. 6.

Fig. 7.

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Fig. 2.

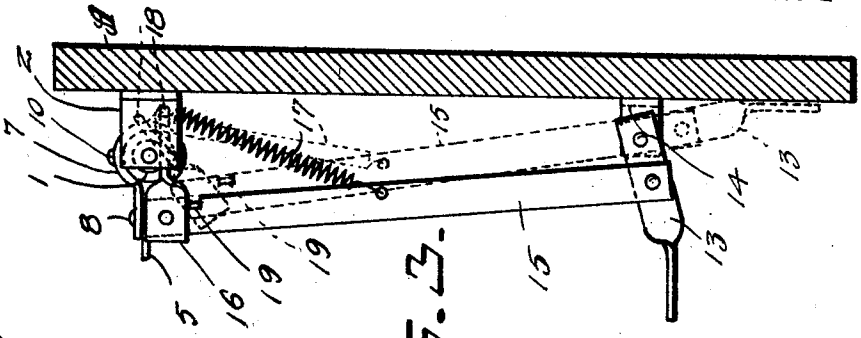
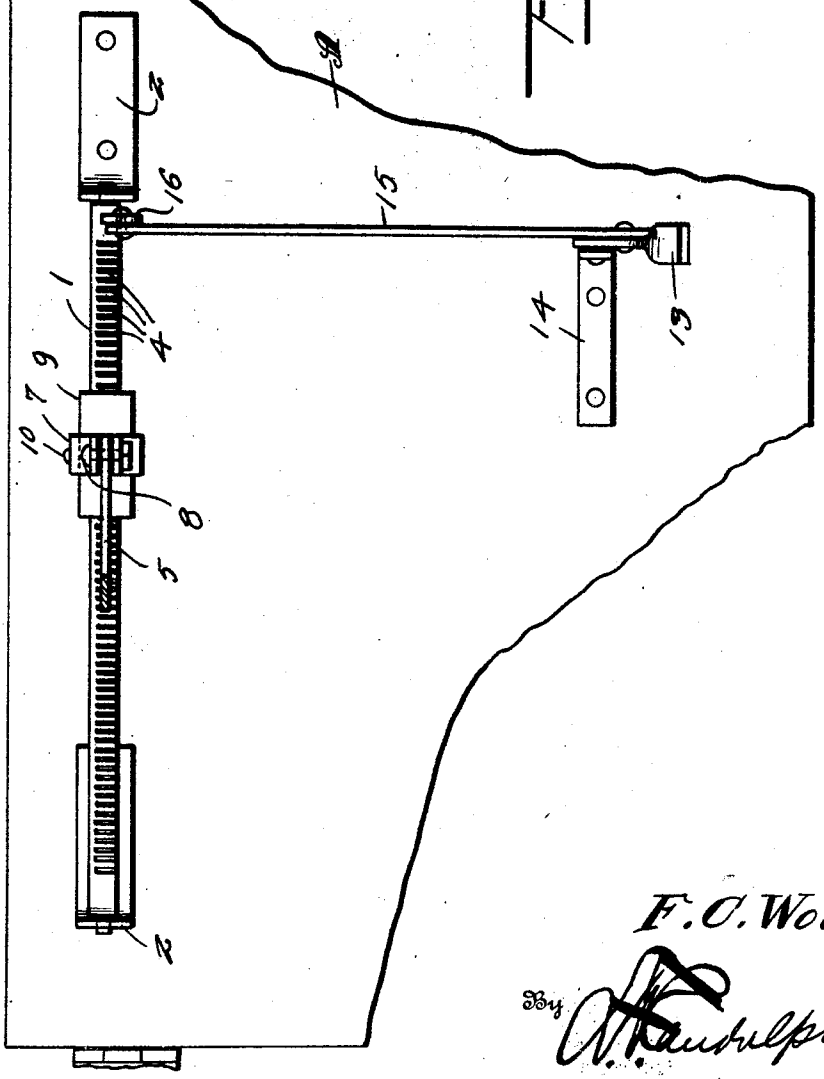


Fig. 3.



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UNITED STATES PATENT OFFICE.

FLOYD C. WOODHULL, OF ELMIRA, NEW YORK.

DOOR SECURER.

Application filed May 13, 1926. Serial No. 108,855.

The invention relates to means for securing swinging doors, window sash, and the like, and has for its object the provision of improved means for securing the door in a closed position or at any angle when open and latching the securing means against casual displacement in any of its securing positions.

The invention will be described in detail hereinafter and will be found illustrated in the accompanying drawings in which—

Figure 1 is a top edge view of a door and a horizontal sectional view of the door casing showing the improved door securer applied thereto,

Figure 2 is a view of the door showing the parts applied thereto, the arm connecting the door casing with the device being shown in section,

Figure 3 is a vertical sectional view on a plane indicated by the line 3—3 of Figure 1.

Figure 4 is a fragmentary detail in section taken substantially on the line 4—4 of Figure 1,

Figure 5 is a transverse sectional view on a plane indicated by the line 5—5 of Figure 1, showing the securing means unlatched,

Figure 6 a similar view to that of Figure 5 showing the parts in a latching position, and

Figure 7 a transverse sectional view on a plane indicated by the line 7—7 of Figure 1.

In the drawings similar reference characters will be used to designated corresponding parts throughout the several views.

In Figure 1 is shown a door A and its casing B to which the door A is hinged as shown at C. The purpose of the invention is to secure the door A in a closed position or at any open position, and comprises a rod 1 that is journaled on brackets 2 secured to the door, said rod 1 being circular in cross section as shown in Figures 5, 6, and 7 and having a flat underside 3, and notches 4 arranged on one side of the rod and intercepting the flat side 3. A bar 5 is adapted to be pivotally secured to the frame B in any suitable manner such for instance as by means of a plate 6 that may be secured to the lintel of the door. 7 indicates a strap looped around the rod 1 and having its ends pivotally secured, as shown at 8, to the free end of the bar 5. The loop 7 encloses a sleeve 9 that is secured to the loop by means of a threaded member 10 or by any other suitable means, and is provided with a slot 11 through which projects a segmental lug 12 on the inner side of the strap loop 7, said lug being adapted to fit under the flat side 3 of the rod 1 when the rod 1 is in the position as shown in Figure 5, but when the rod 1 is rotated on its axis into the position shown in Figure 6, the lug 12 engages in one of the notches 4 and holds the strap loop 7 in fixed position relatively to the rod 1, resulting in holding the door A in the position to which it may be adjusted at that time from movement either to close it or to further open it.

The rod 1 is rotated by means of a lever 13 fulcrumed on a bracket 14 secured to the door A, and connected by means of a link 15 with an arm 16 secured to the rod 1. 17 indicates a contractile coil spring secured to the link 15 and to a rearward extension 18 of the arm 16 to cushion the movement of the rod 1 and to also hold the rod 1 in adjusted position, 19 indicating a stop on the link 15 that engages the arm 16 to limit the movement of the rod 1 into the position shown in Figure 5 to permit sliding movement of the sleeve 9 and loop 7, this position being shown in full lines in Figure 2, while when the lever 13 is turned into the dotted line position shown in Figure 3, the door A acts as a stop, and the spring serves to hold the parts in position so that the rod 1 is latched, or in the position shown in Figure 6.

The operation of the device will be apparent from the detail description hereinbefore set out.

What is claimed is:—

1. A door securer, comprising a notched rod adapted to be secured to a door, said rod having a flat side cutting said notches, a bar adapted to be pivotally connected with a door casing, a sleeve carried by said bar and mounted on said rod, said sleeve and rod being relatively rotatable, and a segmental detent carried by said sleeve and slidably engaging the flat side of the rod in one position of the sleeve and rod and engaging the notches in another position.

2. A door securer, comprising a rod adapted to be rotatably mounted on a door and having a series of notches therein, said rod being circular in cross section and provided with a flat side intercepting said notches, a sleeve slidably mounted on the

rod, an arm engaging said sleeve and adapted to engage a door frame, a detent associated with said sleeve and adapted to engage the notches in one rotative position of the rod, and means to rotate the rod and to hold it in position to engage the detent with one of said notches.

3. A door securer, comprising a rod adapted to be rotatably mounted on a door, said rod having a series of notches therein and a flat side intercepting said notches, an operating lever, means connecting said lever and the rod to rotate it, a bar adapted to be pivotally mounted on the door casing, a looped strap pivotally engaging said bar and enclosing said rod, and a lug on said strap and forming a detent to engage said notches in one position of the rod.

4. A door securer, comprising a rod adapted to be rotatably mounted on a door, said rod having a series of notches therein and a flat side intercepting said notches, an operating lever, an arm on said rod a link connecting said lever and arm to rotate the rod, means to limit the rotation of the rod including a spring connected to the link to hold the parts in adjusted positions, a bar adapted to be pivotally mounted on a door casing, a looped strap pivotally engaging said bar and enclosing the rod, a sleeve carried by the loop and enclosing the rod, a segmental lug on the strap extending through a slot in the sleeve and forming a detent to engage said notches in one rotative position of the rod and arranged opposite the flat side thereof to permit movement of the loop and sleeve longitudinally of the rod.

In testimony whereof I affix my signature.

FLOYD C. WOODHULL.