

P. S. PETERSON.

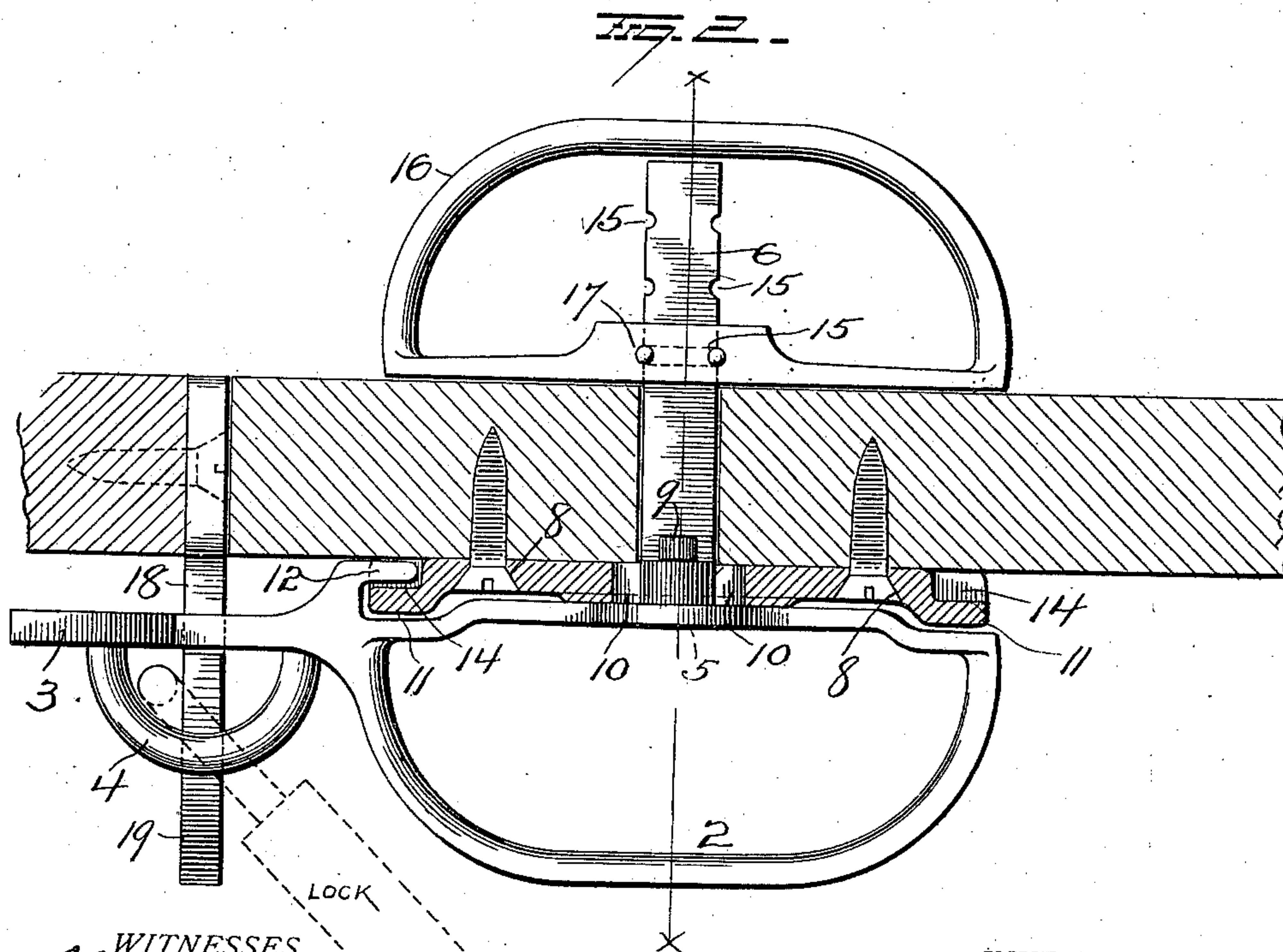
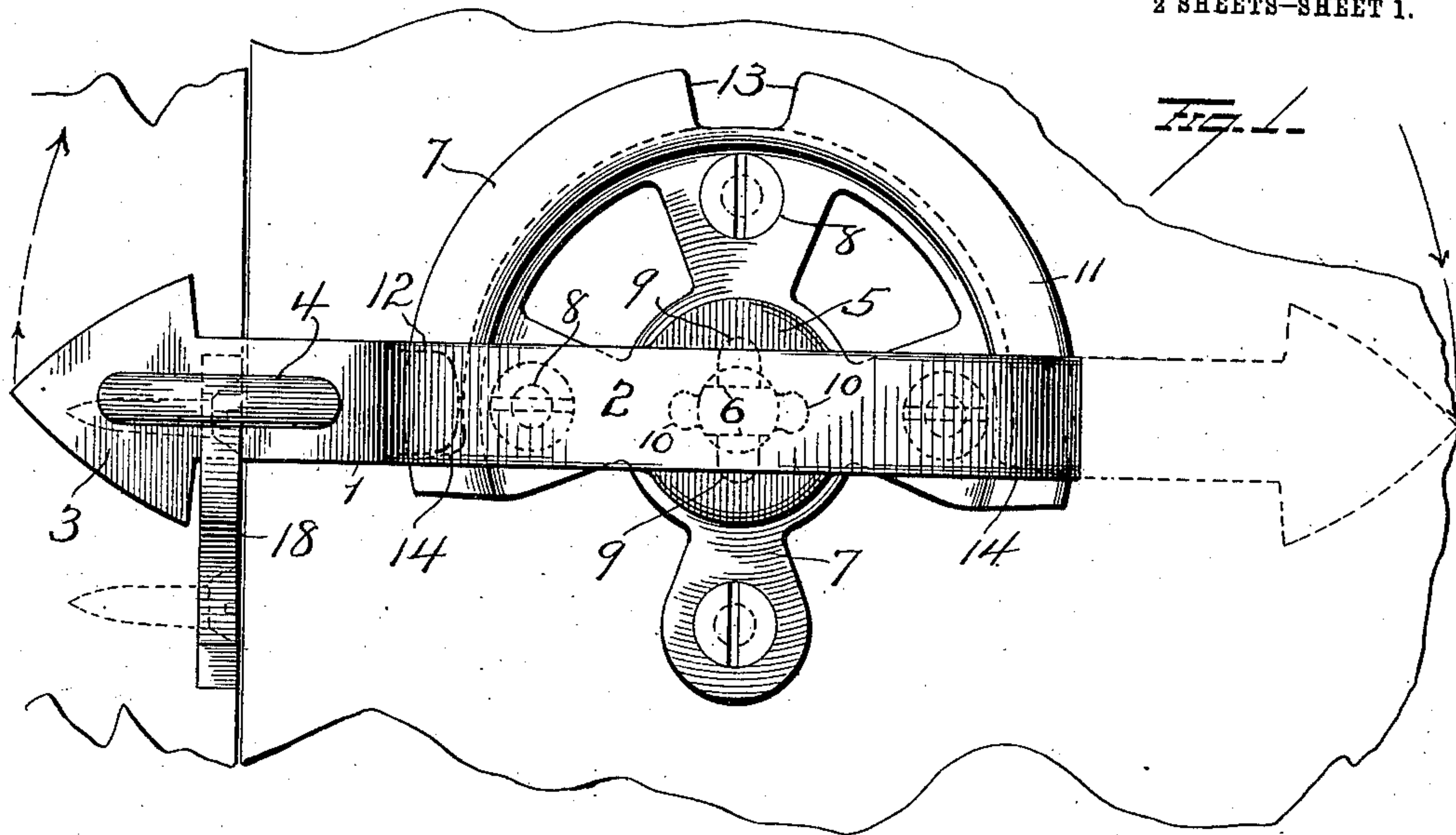
LATCH.

APPLICATION FILED JUNE 15, 1910.

996,792.

Patented July 4, 1911.

2 SHEETS-SHEET 1.



WITNESSES
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G. J. Downing

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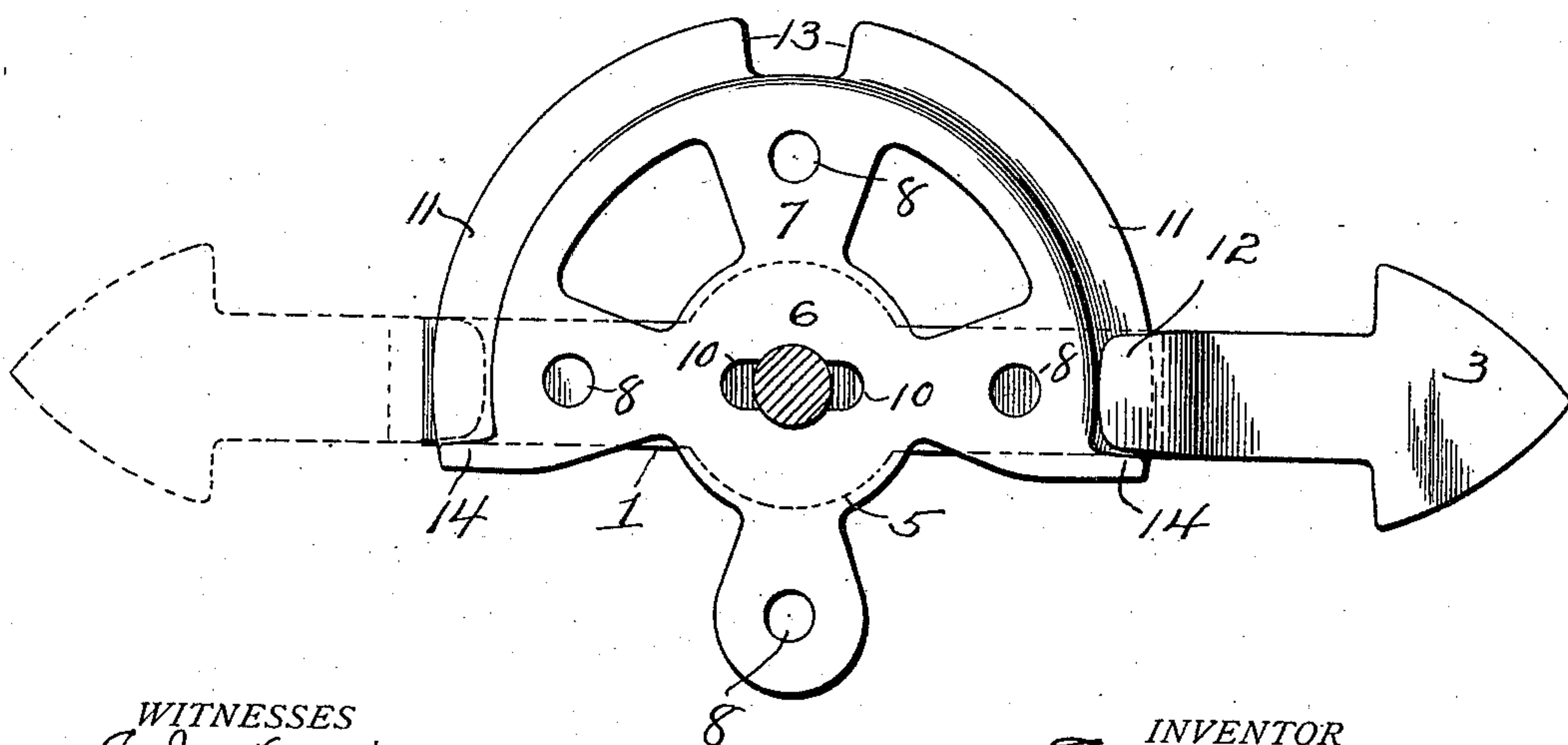
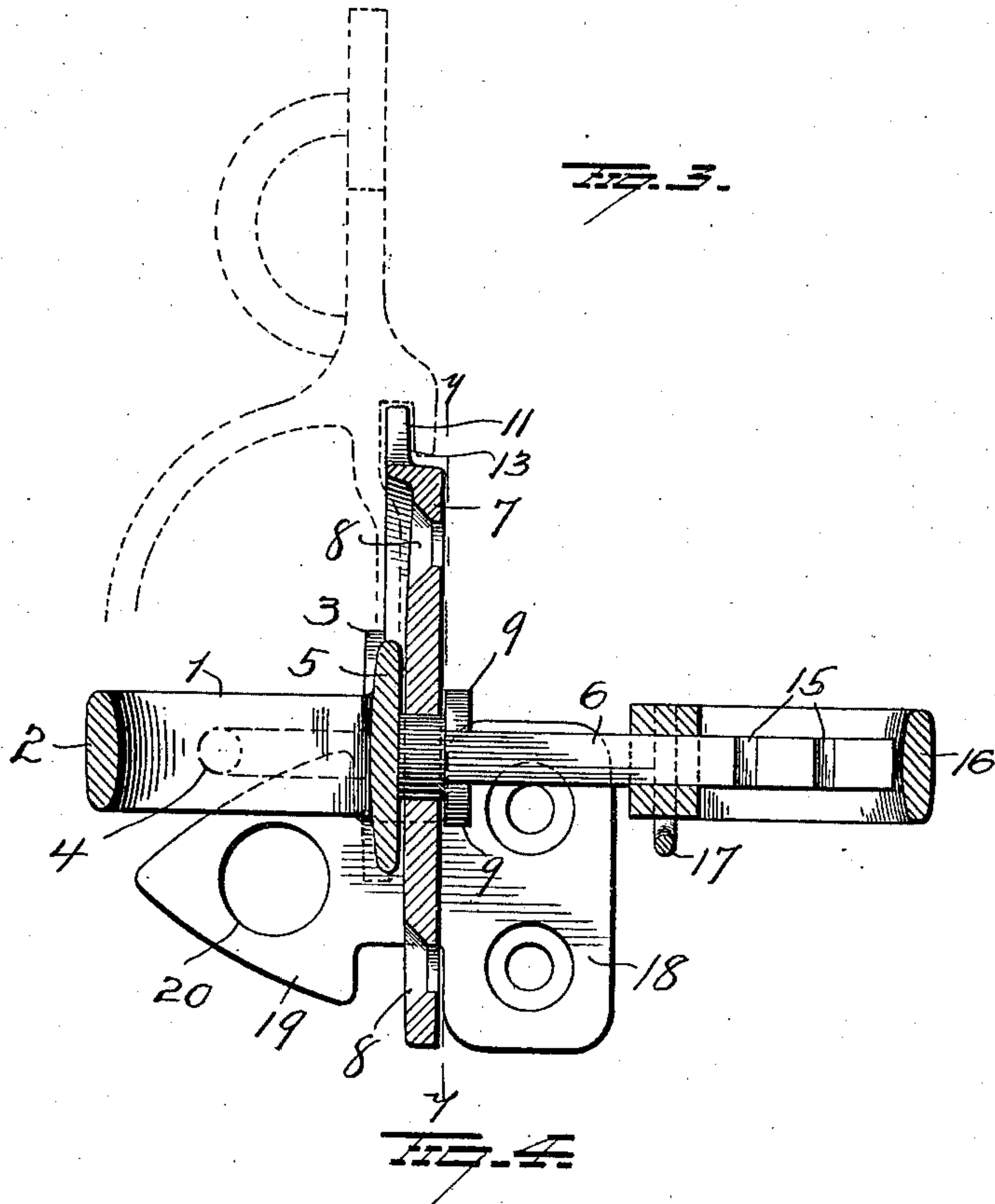
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UNITED STATES PATENT OFFICE.

PETER S. PETERSON, OF JANESVILLE, WISCONSIN.

LATCH.

996,792.

Specification of Letters Patent.

Patented July 4, 1911.

Application filed June 15, 1910. Serial No. 567,110.

To all whom it may concern:

Be it known that I, PETER S. PETERSON, of Janesville, in the county of Rock and State of Wisconsin, have invented certain new and useful Improvements in Latches; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in latches and more particularly to such as are adaptable for use on barn and factory doors,—one object of the invention being to provide a simple and cheap, although substantial, latch of the character described, which can be employed with a swinging or a sliding door and which will operate equally as well on a left hand door as on a right hand door.

A further object is to so construct a door lock or latch that it will be operable either from the inside or the outside of the door; so that the latch bar will be properly guided in its movements; so that it can be easily locked with a padlock, and so that the use of rivets between any of its members will be avoided.

A further object is to so construct the device that it can be easily and quickly assembled and readily applied.

With these objects in view the invention consists in certain novel features of construction and combinations of parts as hereinafter described and pointed out in the claims.

In the accompanying drawings, Figure 1 is a face view illustrating a latch embodying my improvements. Fig. 2 is a plan view, Fig. 3 is a sectional view on the line $x-x$ of Fig. 2, and Fig. 4 is a sectional view on the line $y-y$ of Fig. 3.

1 represents a latch bar having cast integral therewith, a handle 2 which extends preferably from one end of the latch bar to a point near the other end. The forward end of the latch bar 1 is made with an arrow head 3 and adjacent to this head, a loop or eye 4 is provided for a purpose to be hereinafter explained. At an intermediate point, the latch bar 1 is enlarged somewhat as shown at 5 and from this enlarged portion, a spindle 6 projects and is revolutely mounted in a bearing in a segment 7. The segment 7 is provided with a series of holes 8 for the accommodation of fastening devices whereby said segment will be secured to the

door, through which latter the spindle 6 passes. In proximity to the segment 7, the spindle is provided with lugs 9 at diametrically opposite sides and the segment is provided at respective sides of the spindle bearing with notches 10 for the passage of said lugs during the assembling of the parts. After the spindle has been passed through the segment, the walls of the notches 10 may be slightly distorted with the use of a punch to prevent longitudinal displacement of the spindle when the lugs on the latter come in alignment with said notches. The segment 7 is provided with an off-set flange 11 and the latch bar 1 is provided with a finger 12 which embraces this flange and thus guiding means are provided for the latch bar. In order to facilitate the assembling of the parts, the flange 11 is provided centrally between its ends with a notch 13 for the passage of the finger 12 when the spindle is passed through the bearing in the segment. To limit the movements of the latch bar when the latter is thrown to a horizontal position in either direction, lugs 14 are provided at each end of the flanged portion of the segment, to be engaged by the finger 12.

With the exception of that portion of the spindle which has a bearing in the segment, said spindle is made angular in cross-section and the inner end portion thereof is provided in diametrically opposite edges with notches 15 and on this said inner portion of the spindle an inside handle 16 is mounted. This handle is provided with holes for the passage of locking means which, in the present instance, consists of a staple 17, passed through the holes in the handle and engaging in two of the diametrically disposed notches 15 in the spindle. By employing several pairs of notches 15, the inside handle can be adjusted on the spindle to three different thicknesses of doors, also so shaped that the harness can not catch on handle.

A keeper 18 is secured to the door frame and is provided with an arrow head 19 having a hole 20. The arrowhead 3 of the latch bar is adapted to engage the keeper in rear of the arrowhead of the latter. When the latch is applied to a sliding door, the arrowhead on the latch bar will engage the keeper, be raised by such engagement and then drop into latched position. When the device is used on a swinging door, the head of the

latch bar will engage the arrow head of the keeper and, riding thereon, will be elevated and then permitted to drop into latched position behind said arrow head. When the
5 latch bar and keeper are in latched relation to each other, the device can be locked in such position with the use of a padlock, the yoke of which will be passed through the eye or loop 4 and the hole 20 in the keeper,
10 such construction being shown in Fig. 1 of the drawings.

Having fully described my invention what I claim as new and desire to secure by Letters-Patent, is,—

15 1. The combination with a segment provided with a peripheral flange, and a keeper, of a latch bar projecting radially beyond the segment to engage the keeper, a spindle projecting from said latch bar and mounted
20 in said segment, and a finger projecting from said latch bar at a point between the ends thereof and cooperating with the flange on the segment to guide said latch bar.

2. The combination with a segment hav-

ing a bearing and notches adjacent to said 25 bearing, and said segment also provided with a guide flange having a notch, of a latch bar provided with a spindle mounted in said bearing and having lugs, a finger
30 on said latch bar to cooperate with the flange on the segment, and a handle on said latch bar.

3. The combination with a segment provided with a guide flange and with stops at
35 respective ends of said guide flange, of a latch bar provided with a spindle mounted in said segment, a finger on said latch bar cooperating with the guide flange of the segment and adapted to engage one or the
40 other of the stops on the latter to limit the movement of said latch bar.

In testimony whereof, I have signed this specification in the presence of two subscribing witnesses.

PETER S. PETERSON.

Witnesses:

C. W. REEDER,
JENNIE L. BURKE.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."