

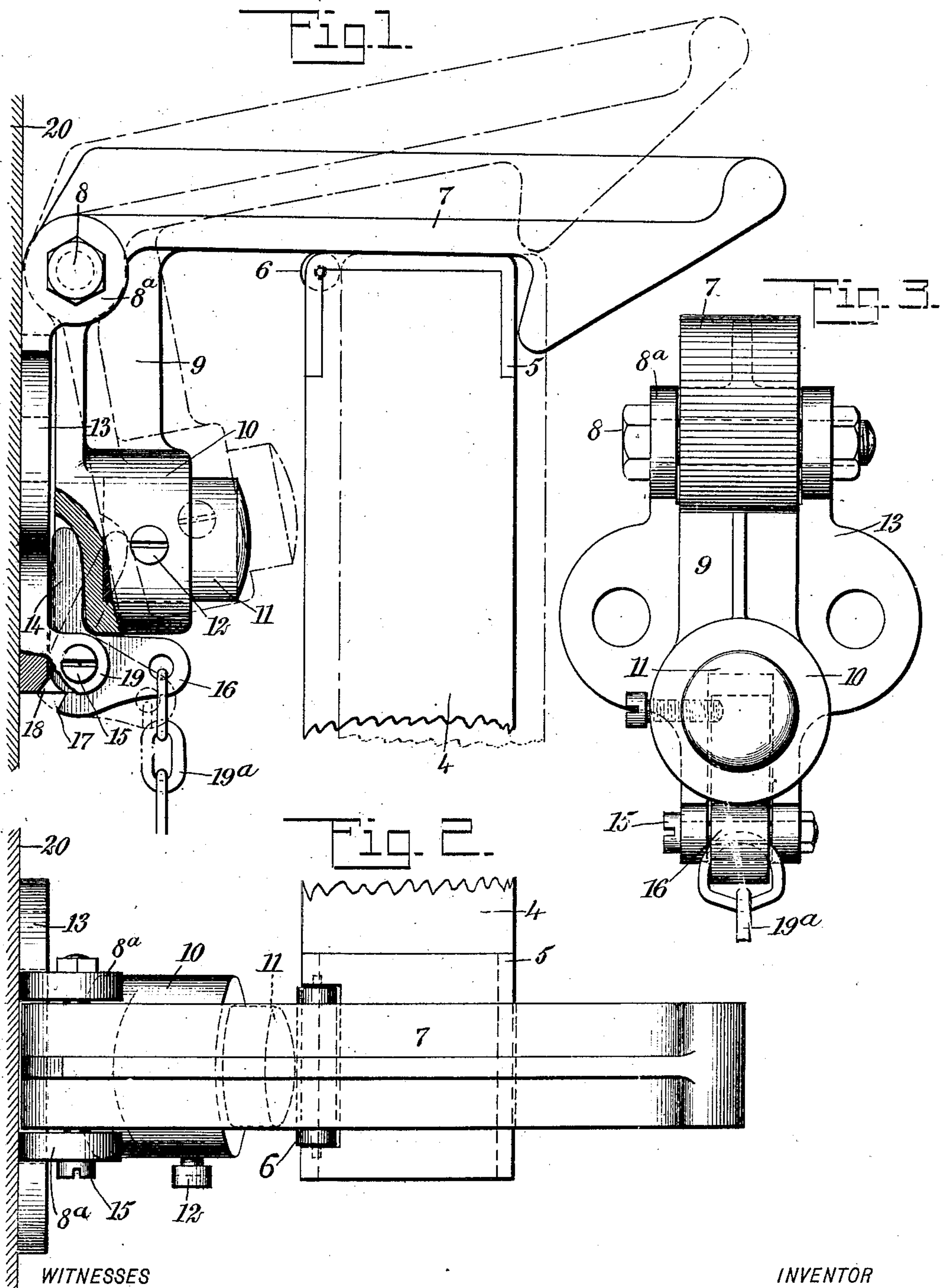
H. P. CONNOR.

DOOR CATCH.

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914,798.

Patented Mar. 9, 1909.



WITNESSES

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HARRY PERCY CONNOR, OF ENGLEWOOD, NEW JERSEY.

DOOR-CATCH.

No. 914,798.

Specification of Letters Patent.

Patented March 9, 1909.

Application filed June 23, 1908. Serial No. 439,968.

To all whom it may concern:

Be it known that I, HARRY PERCY CONNOR, a citizen of the United States, and a resident of Englewood, in the county of Bergen and State of New Jersey, have invented a new and Improved Door-Catch, of which the following is a full, clear, and exact description.

My invention relates to door catches, my more particular purpose being to produce a device of this character in which the locking of the latch has a positive relation to the pressure exerted by the door or other swinging member in opening.

My invention further relates to various improvements in the construction of the mechanism whereby its general efficiency is improved.

Reference is to be had to the accompanying drawings forming a part of this specification in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a side elevation showing my improved catch mounted in position for use upon a door, this view showing the bent lever having a latch integral with it and actuated directly by pressure of the door in opening so as to obtain a positive grip upon the door, the view further showing mechanism for releasing the latch; Fig. 2 is a fragmentary plan showing the latch and the top edge of the door; and Fig. 3 is an end elevation showing the device viewed as from the right of Fig. 1, the door being removed.

The door is shown at 4, and is provided at its top with a wearing plate 5 of metal, this wearing plate being sunken close to the surface of the door. Mounted upon the door, and partially protected by the wearing plate 5, is a roller 6. The latch 7 is mounted upon a pivot 8, and is provided with a downwardly projecting portion 9. The latch, including its downwardly projecting portion 9, has generally the form of a bent lever. Mounted upon the downwardly projecting portion 9, and integral with it, is a cup 10 containing a buffer 11 made of soft rubber or other resilient material, and having a substantially cylindrical form. A wall plate 13 has integral therewith ears 8^a in which the pivot 8 is journaled. A bent lever 14 is mounted upon a pivot pin 15 and is provided with a portion 16 projecting a little way outwardly from the

wall plate. The bent lever 14 is provided with a shoulder 17 which is adapted to engage a shoulder 18 upon the wall plate 13. Ears 19 integral with the wall plate 13, support a pivot pin 15, and a wall 20 supports the wall plate 13. A chain 19^a is attached to the portion 16 of the lever 14. By pulling the chain 19^a downward, the lever 14 is rocked so that the shoulder 17 engages the shoulder 18, thus limiting the movement of the lever 14.

The operation of my device is as follows: When the door 4 is swung toward the wall 20, the latch 7 is raised by the roller 6, as indicated by dotted lines in Fig. 1, and after the door is in close proximity to the buffer 11, the latch clears the top of the door and drops into the position indicated by full lines in Fig. 1, the weight of the latch tending to bring it into said position. If, however, owing to the quickness of movement of the door, or to any sluggishness on the part of the latch 7, it should happen that the weight of the latch fails to bring it into the position it should assume, the door engages the buffer 11 and pushes the latch out toward the left; this causes the latch to assume the position indicated by full lines in Fig. 1, that is to say, the movement of the door in pressing upon the buffer 11, forces the latch positively into position to grip the door and hold it open positively. A pull upon the chain 19^a now rocks the lever 14 and causes the buffer 11 to release the door, the latch meanwhile swinging slightly, as indicated by dotted lines in Fig. 1. The parts are so proportioned that the pressure of the buffer 11 against the door, takes place only when the latch is in such position as to clear the door and thus allow the lever 14 to move from the wall 20.

Having thus described my invention, I claim as new and desire to secure by Letters Patent,—

1. The combination of a door, a latch for temporarily holding the same, said latch being provided with a projecting portion disposed partially within the path of travel of the door, a buffer mounted upon said projecting portion and normally engaged by said door, and a lever disposed upon the side of said projecting portion opposite said buffer for the purpose of engaging said projecting portion in order to force said buffer against said door.

2. The combination of a latch having an opening, means for supporting said latch so as to allow the same to rock, and an L-shaped lever provided with a portion fitting into
5 said opening for the purpose of actuating said latch.

In testimony whereof I have signed my

name to this specification in the presence of two subscribing witnesses.

HARRY PERCY CONNOR.

Witnesses:

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