(Model.)

R. H. BRIGGS & J. H. DOUGHERTY.

Car Door Fastener.

No. 234,526. **Patented Nov. 16, 1880.**

Fig. 1.

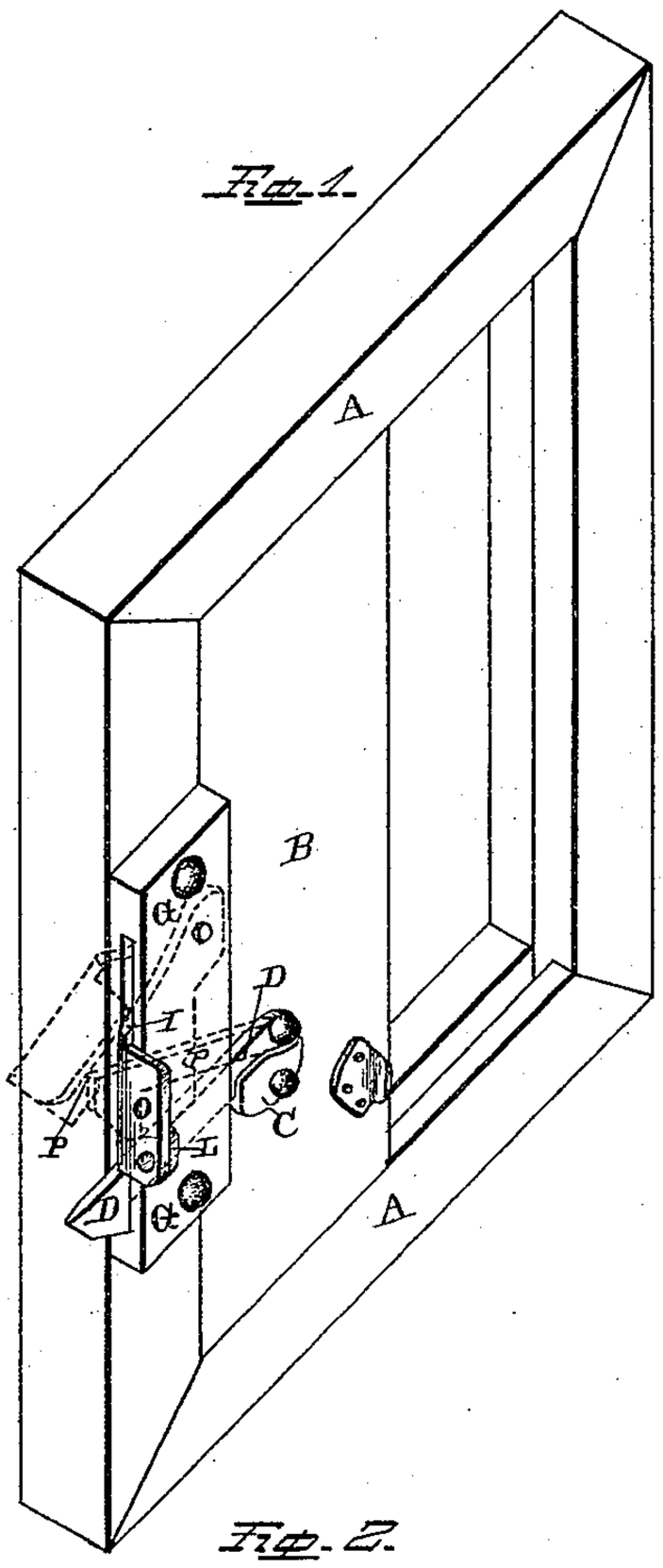
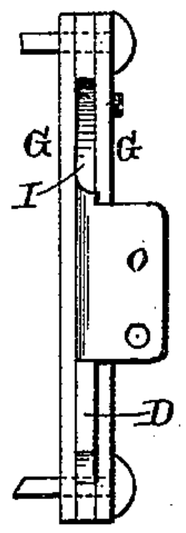


Fig. 2.



Witnesses.

Wm. H. Mortimer.

Will A. Kerr.

Inventors.

R. H. Briggs.

J. H. Dougherty

per

F. A. Lehmann,

Atty

UNITED STATES PATENT OFFICE.

RICHARD H. BRIGGS AND JAMES H. DOUGHERTY, OF WHISTLER, ALABAMA.

CAR-DOOR FASTENER.

SPECIFICATION forming part of Letters Patent No. 234,526, dated November 16, 1880.

Application filed August 14, 1880. (Model.)

To all whom it may concern:

Be it known that we, RICHARD H. BRIGGS and JAS. H. DOUGHERTY, of Whistler, in the county of Mobile and State of Alabama, have invented certain new and useful Improvements in Car-Door Fasteners; and we 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 pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

Our invention relates to an improvement in car-door fasteners; and it consists in the combination of a horizontally-pivoted latch, which is fastened to the sliding door of the car, with a latch-frame, which is secured to the edge of the car, and which has pivoted within it a swinging latch, which serves to lock the horizontal latch in position when the door is closed.

It further consists in the combination of a pivoted horizontal latch, which is fastened to the sliding door of the car, and a pivoted swinging latch, which is fastened in a latch-frame that is secured to the edge of the car, the pivoted vertically-moving latch having a notch in its inner side to catch over the end of the horizontal latch and hold the horizontal latch in an elevated position, so that both hands can be used in forcing the door open, as will be more fully described hereinafter.

Figure 1 is a perspective of our invention, showing the horizontal latch locked in position in solid lines, and raised upward so that the door can be opened, in dotted lines. Fig. 2 is an edge view of the fastener complete.

A represents the side of the car, and B the sliding door placed therein.

Rigidly secured to the edge of the door is the support C, upon which the horizontal latch D is pivoted. This support has a suitable shoulder formed at its upper edge, which serves as a support for this horizontal latch D, and prevents it from falling below a horizontal line, whether the latch is turned forward ready to lock the door in position or thrown backward so that it will not lock the door when the door is closed.

Secured to the door-frame is the latch-frame G, which has a long narrow opening through it, not only for the hooked front end of the horizontal latch D to pass through, but for the vertically-moving pivoted locking-latch I to move in. When the door is closed and the horizontal latch is turned forward this hooked end of the latch passes through this opening in the latch-frame and then drops down behind its outside edge, as shown in solid lines in Fig. 1. The pivoted vertically-moving locking-latch, which is pivoted in the upper part of this latch-frame, drops down so as to bear against the top of the horizontal latch, and thus prevent the horizontal latch from being raised upward so as to unlock the door. On the edge of this latch-frame is formed a perforated ear or projection, L, and on the outer edge of the swinging latch is formed a small perforated ear or flange, O, which rests against the ear L when the locking-latch is in position, and through these two ears is passed the lock or the sealing-wire. While this locking-latch is down and bearing against the top of the horizontal latch it will readily be seen that it is impossible to raise the horizontal latch upward.

After the lock or sealing-wire has been removed from the two ears or flanges the swinging latch can be raised upward at any suitable angle, and then the outer end of the horizontal latch can be made to catch in the notch P, that is made in the inner edge of the swinging latch, and thus the horizontal latch will be held in a raised position, as shown in dotted lines in Fig. 1, and then both hands can be applied to pushing the door open, instead of having to use one hand to keep the latch raised and the other hand alone to open the door.

This latch, as will readily be seen, is very cheap, simple, and easily operated, and can be applied to sliding doors and gates of all kinds.

Having thus described our invention, we claim—

1. In a car-door fastener, the combination of a horizontal latch, D, the latch-frame G, and swinging pivoted locking-latch, the locking-latch and the frame being provided with

the perforated ears or flanges in which the lock or sealing-wire is secured, substantially as shown.

2. The combination of the horizontal latch D, the latch-frame G, and the swinging locking-latch, having a notch, P, in its inner edge for the end of the latch D to catch in, whereby the latch D is held in a raised position, so that both hands can be applied to opening the door, substantially as described.

In testimony that we claim the foregoing we have hereunto set our hands.

RICHARD HENRY BRIGGS.
JAMES HENRY DOUGHERTY.

Witnesses:
GEO. W. DALY,
DENNIS RYAN.