F. MERTSHEIMER.

DOOR GUARD.

APPLICATION FILED SEPT. 8, 1913.

1,083,904.

Patented Jan. 6, 1914.

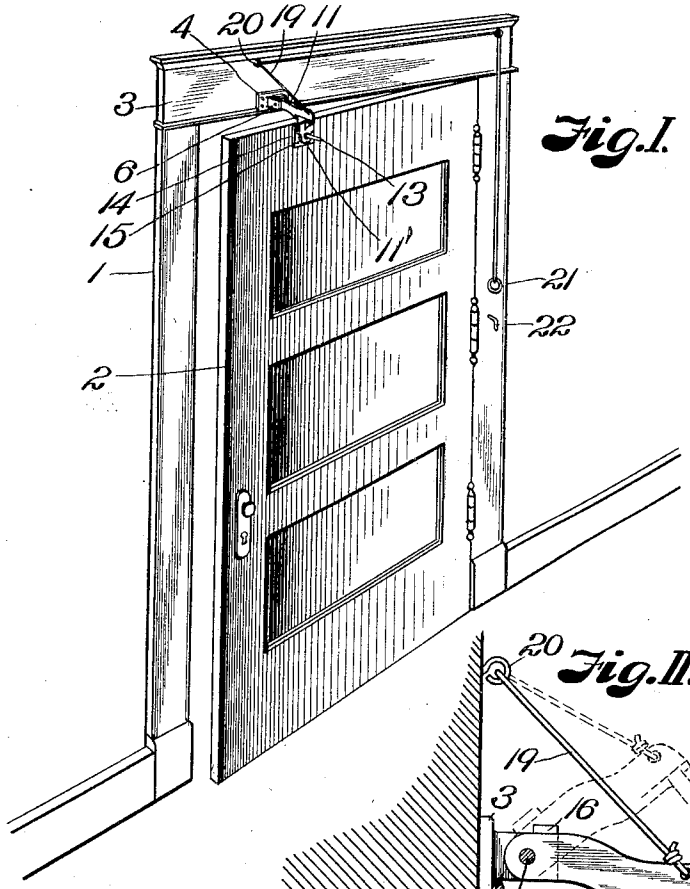


Fig. I.

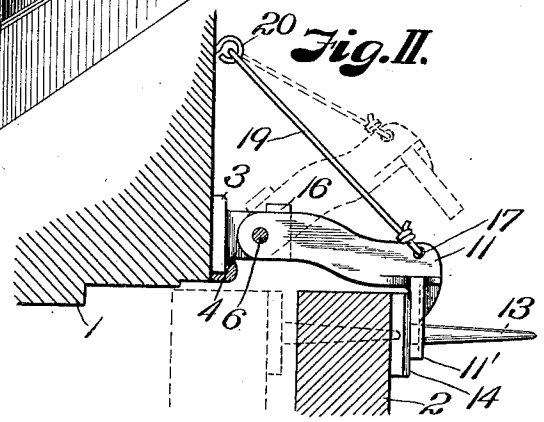


Fig. II.

Fig. IV.

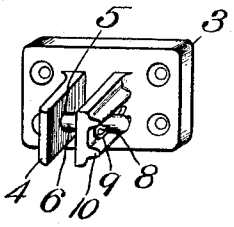


Fig. V.

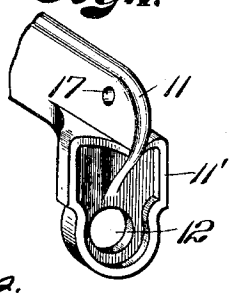
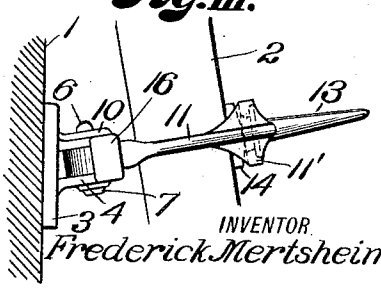


Fig. III.



WITNESSES:

Arthur W. Capp.

L. E. Coates.

INVENTOR

Frederick Mertsheimer.

BY

Arthur C. Comm.

ATTORNEY

COLUMBIA PLANOGRAPH CO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

FREDERICK MERTSHEIMER, OF KANSAS CITY, MISSOURI.

DOOR-GUARD.

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Application filed September 8, 1913. Serial No. 788,630.

To all whom it may concern:

Be it known that I, FREDERICK MERTSHEIMER, a citizen of the United States, residing at Kansas City, in the county of Jackson and State of Missouri, have invented certain new and useful Improvements in Door-Guards; and I do 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, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to a door guard, and has for its principal object to provide a device of that class, whereby a door may be held in a partially opened position, and locked in such a manner that it cannot be opened beyond the determined point, nor the lock manipulated from the outside, to release the door.

In accomplishing this object, I have provided improved details of structure, the preferred forms of which are illustrated in the accompanying drawings, wherein:—

Figure I is a perspective view of a door guard containing my improvements, shown in connection with a door frame and door. Fig. II is an enlarged vertical section of the guard, and the upper portion of the door frame and door. Fig. III is a plan view of the same. Fig. IV is a detail view of the bracket for carrying the lock bar. Fig. V is a detail perspective of the free end of the lock bar.

Referring more in detail to the parts:— 1 designates a door frame and 2 a door hingedly mounted in said frame in the ordinary manner. Fixed to the upper rail of the door frame, adjacent the door opening, is a bracket 3, having spaced ears 4, extending inwardly at such angle to the base of the bracket that a locking bar carried thereby will extend at a right angle to the door when the latter is opened a determined distance, and having apertures 5 within which a pivot pin 6 is mounted; the pin having a head 7 at one end, and having an aperture 8 at the other end through which a cotter pin 9 is projected to hold the pin in the bracket, and the inner bracket ear 4 being provided with longitudinal ribs 10 on its outer face, for covering the cotter pin so that access may not be had thereto by a malicious person seeking to gain access to the house by removing the lock bar.

11 designates a locking bar, the inner end of which is located between the bracket ears 4 and is pivotally mounted on the pin 6, and the outer end of which is downwardly offset and provided with a lip 11′ adapted for locking engagement with the upper portion of the door, and having an aperture 12 for receiving a locking pin 13 that is mounted on the door, preferably by means of a base plate 14 which is preferably attached to the door by screws 15.

The inner end of the bar 10 is provided with a stop plate 16 which is adapted for engagement with the upper edge of the bracket ears 4, to limit the upward travel of the bar and to prevent same from dropping below its locking position, where it might interfere with the complete closing of the door.

In order that the lock may be held up out of operative position when the door is to remain open, or its use is not desired, I provide the lock bar with an aperture 17 for receiving a cord 19, that is run through the eyelets 20 on the door frame and has a free end located at a convenient point for manipulation by a person at the inside of the door; the inner end of the cord being provided with a ring 21 which is adapted for application to a hook 22 on the door frame, in order to hold the lock bar elevated above the path of the door.

In using the device, presuming the parts to be constructed and assembled as described, when the door is to be held in a partially opened position, so that a conversation may be carried on, or a package passed through the restricted door opening, the cord is released from the hook 22, before the door is opened so that the lock plate of the guard bar will overhang the upper portion of the door. With the lock bar free, the door is opened and, as it swings inwardly, the pin 13 projects into the aperture 12 in the jaw of the lock bar, so that when the door has reached the determined open position, the inner edge of the door engages the rear face of the lock plate and is held against farther inward travel. The door is then held open so that a person on the inside may converse or receive packages from a person on the outside, but should a

person on the outside attempt to force the door farther open, the latter will be securely held by the lock bar.

While the bar is exposed at the upper portion of the door, it is impossible to lift the bar from the outside, as the lock bar is held securely by the lock pin, which is of sufficient length to engage the lock bar when the door is first opened, so that in order to release the bar from the pin, the door must be closed to such an extent that a person on the exterior could not reach through the opening sufficiently to manipulate the lock bar.

It is also impossible for a person on the outside to gain access to the pivot pin to remove same, as the ribs 9 on the bracket 3 inclose the cotter pin by which the pivot pin is held in place.

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

1. In a door guard, a frame member comprising a pivotally mounted bar, having a plate at its free end provided with an aperture, and a door member comprising a pin adapted for projection into said aperture when the door is opened.

2. In a door guard, a frame member comprising a fixed bracket, having spaced ears, a locking bar having one end pivotally mounted between said ears and having a stop plate adapted for contact with said ears to limit its downward movement, a plate on the outer end of said bar adapted for locking contact with a door, and having an aperture therein, and a door member comprising a pin adapted for projection into the plate aperture when the door is opened.

In testimony whereof I affix my signature in presence of two witnesses.

FREDERICK MERTSHEIMER.

Witnesses:
ARTHUR W. CAPS,
LETA E. COATS.

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