Nov. 30, 1948. W. F. CHRISTISON 2,455,112

DOOR GUARD

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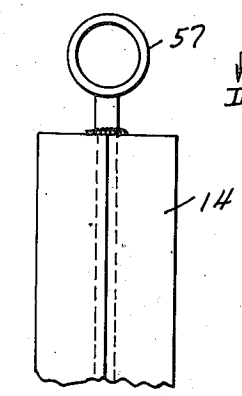


Fig. 6

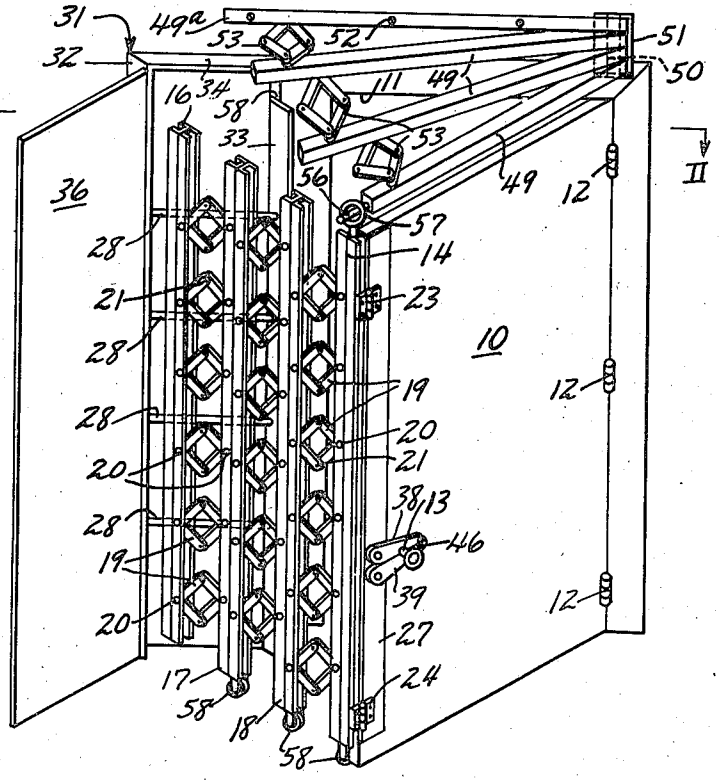


Fig. 1

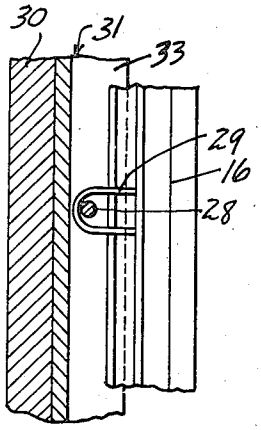


Fig. 3

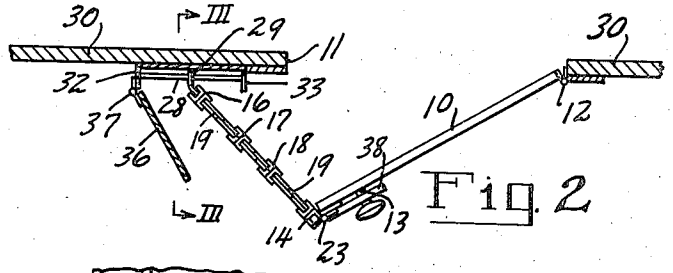


Fig. 2

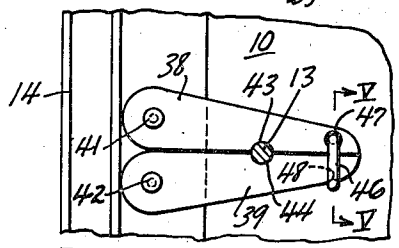
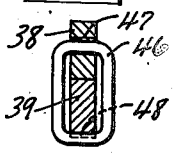


Fig. 5



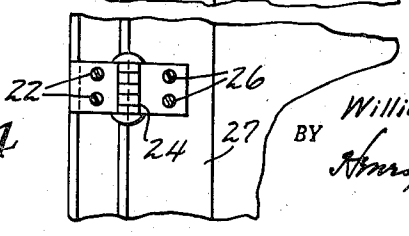


Fig. 4

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DOOR GUARD

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4 Claims. (Cl. 160—32)

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My present invention relates to an improvement in door guards, and has for an object the provision of a burglar proof door guard embodying means for removably attaching the same to the door when it is desired to use the guard, and which when so attached, shall be effective for preventing entry into the room.

A further object of my invention is to provide a door guard embodying an extensible gate slidably secured at one end to a plurality of rods or the like, and to the other end to the door knob handle, whereby, when the door is opened the gate is extended and slides on the rods to a position covering the opening between the free edge of the door and the door frame, thereby to make the doorway burglar proof even through the door is partially open.

A further object is to provide an overhead securing device for preventing entry by a person over the top of the door or extensible gate, and means associated with the extensible gate and the overhead guard whereby the latter is placed in operative position automatically upon opening of the door.

Apparatus embodying features of my invention is illustrated in the accompanying drawing forming a part of this application in which,

Fig. 1 is a somewhat diagrammatic perspective view of my improved guard applied to a door and showing the door partially open and the extensible gate partly withdrawn from its storage cabinet;

Fig. 2 is a detail sectional view taken on line II—II of Fig. 1;

Fig. 3 is a detail sectional view taken on line III—III of Fig. 2;

Fig. 4 is a fragmentary view of the door showing the manner of connecting my improved guard to the door knob handle;

Fig. 5 is a detail sectional view taken on line V—V of Fig. 4; and

Fig. 6 is an enlarged detail view of the eye bolt for connecting the overhead guard member with the extensible gate.

Referring now to the drawing for a better understanding of my invention, I show in Fig. 1 a door 10 mounted in the usual door opening 11 on hinges 12 and provided with a door knob and handle 13 therefor.

Referring more particularly to Figs. 1 and 2, my improved guard comprises an extensible gate comprising an outer vertical member 14, an inner vertical member 16, and intermediate vertical members 17 and 18. Each of the members 16 to 18 inclusive may be formed of a pair of small channels secured together back to back in any

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suitable manner, and with the flanges thereof outturned. The vertical members are connected to each other by means of toggles or links 19 pivoted to the vertical members as indicated at 20, and to each other as indicated at 21. The vertical member 14 has secured thereto by means of screws 22 one of the legs of a pair of hinges 23 and 24. The other legs of the hinges 23 and 24 are secured by screws 26 to a flat strip 27, preferably formed of metal, the length of which is substantially equal to the length of the member 14.

The member 16 at the inner end of the gate, is slidably supported by means of U bolts 29, fitting about a plurality of horizontally disposed rods 28. The U bolts 29 are considerably larger than the rods 28, and, as best shown in Fig. 2 are bent slightly to permit pivotal movement of the entire guard about the rods 28. While the rods may be secured in any suitable manner to the wall 30 in which the doorway is located, they preferably are disposed adjacent the door opening 11 and within a cabinet 31. The cabinet has sides 32 and 33, a top 34 and a door 36 supported from the side 32 by means of hinges 37, and serves as a storage place for the gate when the same is not in use.

Referring more particularly to Figs. 1 and 4, I show my improved means for attaching the outer member 14 of the gate to the door. The same comprises a pair of links 38 and 39 pivotally connected as at 41 and 42 to the strip 27. The links 38 and 39 are provided with semicircular cutouts 43 and 44 adapted to fit about the door knob handle 13. Adjacent the free end of the links I provide a locking ring 46 which passes through an opening 47 in the link 38, and is adapted to snap into a recess 48 provided on the bottom of the link 39. It will be apparent that the links 38 and 39 may be engaged about the door knob handle 13, the cutouts 43 and 44 permitting the two to be drawn together, and that they may be locked in place by means of the locking ring 46. With the links 38 and 39 thus secured, the outer or free edge of the extensible gate is locked to the door 10.

The overhead guard comprises a plurality of members 49 which are pivotally mounted at one end on a pin 50, carried in a bracket 51, secured in any suitable manner to the wall 30 of the room in which the door 10 is located. A member 49*a*, similar to the members 49, is fastened to the wall 30 by means of screws 52 and the members 49 are connected to the member 49*a* and to each other by means of toggles 53, similar to the tog-

gles 19. The lowermost member 49 is provided at its free end with a projecting pin 56 which passes loosely through an eye bolt 57 mounted on the upper end of the vertical member 14 of the gate.

From the foregoing the operation of my improved guard will be readily understood. If it be assumed that the guard is not attached to the door, but is stored in the cabinet 31, the cabinet door 36 is opened and the member 14 is grasped in the hand and pulled outwardly. The strip 27 is now positioned against the inner face of the door 10, and the links 38 and 39 are engaged about the door knob handle 13 and the ring 46 is snapped into place, thus securing the links 38 and 39 to the handle. The door 10 is now opened whereupon the gate slides toward the door opening 11 on the rods 28 and at the same time, the vertical members of the gate separate due to the pivotal action of the links 19. Simultaneously, the members 49 fan out over the top of the door and extensible gate, it being understood that the pin 56 remains inserted through the eye bolt 57 even when the gate is in its storage cabinet 31. It will be apparent that as long as the pin 56 remains in the eye bolt 57, the opening over the top of the door 10 and the gate is effectively closed to prevent the entry of a person into the room.

When it is desired to store the guard, the links 38 and 39 are removed from the door knob handle 13 and the gate is pushed inwardly thus collapsing the toggles 19 and the entire mechanism is placed in the cabinet 31. To facilitate sliding movement of the gate, I may provide the vertical members with casters as indicated at 58. The overhead guard 49 is pushed into place to lie flush against the wall 30 responsive to inward movement of the gate due to engagement of pin 56 in the eye bolt 57. A small section of the cabinet wall 33 is cut away as indicated at 58 to permit entry into the cabinet of the end of member 49 carrying pin 56.

From the foregoing, it will be apparent that I have devised a simple and effective guard for preventing the unauthorized entry of persons into a room. It will be noted that the hinges 23 and 24 at the free edge of the gate permit the door 10 to be opened or closed a substantial amount without interfering with the connection afforded by the links 38 and 39. Also, as stated, the eye bolt 57 is sufficiently larger than the pin 56 to permit this rotation without the necessity of disengaging the pin 56. In actual operation, I have found that my improved guard is simple of manufacture, simple of operation, and fully effective for its intended purposes.

While I have shown my invention in but one form, it will be obvious to those skilled in the art that it is not so limited, but is susceptible of various changes and modifications, without departing from the spirit thereof, and I desire, therefore, that only such limitations shall be placed thereupon as are specifically set forth in the appended claims.

What I claim is:

1. In a guard for a doorway embodying a hinged door having a door knob handle, an extensible gate, means to mount one end of the gate adjacent the doorway at the free edge of the door, and means for removably connecting the other end of the gate to the door knob handle.

2. In a guard for a doorway embodying a hinged door having a door knob handle, an extensible gate, a storage cabinet for the gate mounted adjacent the opening at the free edge of the door, horizontally disposed rods in the cabinet, means to slidably mount one end of the extensible gate on said rods, and means to removably attach the other end of the gate to the door knob handle.

3. In a guard for a doorway embodying a hinged door having a door knob handle, an extensible gate, a storage cabinet for the gate positioned adjacent the opening at the free edge of the door, horizontally disposed rods in the cabinet, means to slidably mount one end of the gate on said rods, means to pivotally and removably attach the other end of the gate to the door knob handle, an extensible guard positioned above the door and comprising a plurality of members pivotally mounted at one end over said door, a projecting pin on the free end of one of said members, and an eye bolt mounted on the free end of the gate and loosely surrounding said pin.

4. Apparatus as defined in claim 3 in which the means to removably attach the other end of the gate to the door comprises a pair of links pivotally connected to said end of the gate and disposed to engage about the door knob handle.

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