Jan. 1, 1924 1,479,312

L. M. O'HARROW

SHUTTER ATTACHMENT FOR DOORS

Filed March 13, 1922

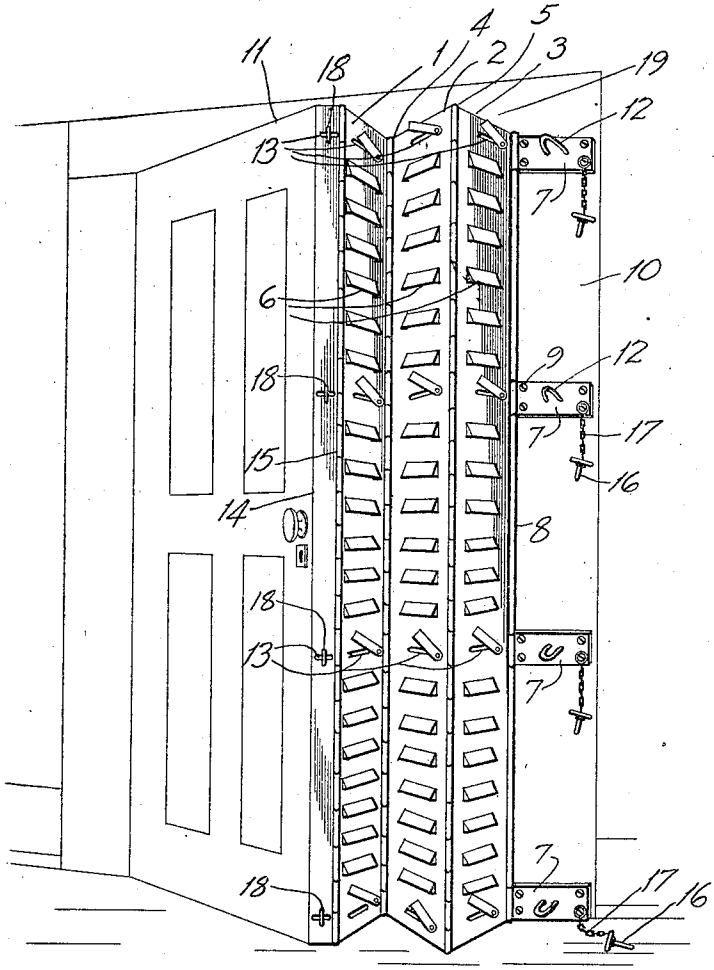


Fig. 2

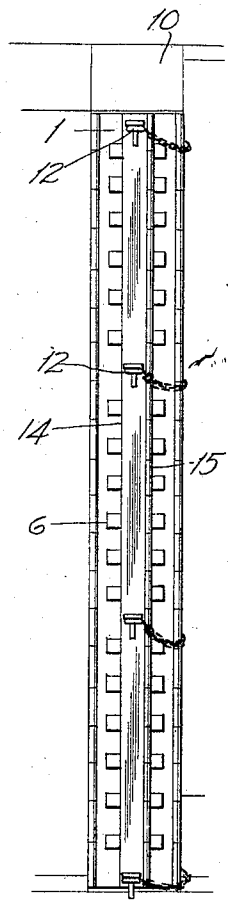


Fig. 1

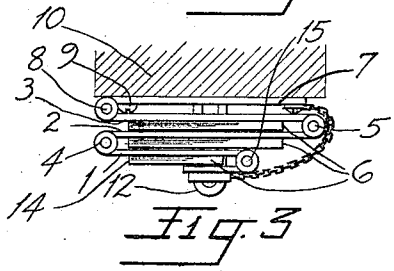


Fig. 3

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Patented Jan. 1, 1924. 1,479,312

UNITED STATES PATENT OFFICE.

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SHUTTER ATTACHMENT FOR DOORS.

Application filed March 13, 1922. Serial No. 543,374.

To all whom it may concern:

Be it known that I, LYDIA MARIAN O'HARROW, a citizen of the United States, and a resident of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a new and useful Improvement in Shutter Attachments for Doors, of which the following is a full, clear, and exact description.

My invention relates to improvements in a ventilating attachment for doors, and it consists in the combinations, constructions and arrangements herein described and claimed.

An object of my invention is to provide a device of the character described by means of which a door may be held partially opened to provide ventilation which prevents persons from entering the room from the outside.

A further object of my invention is to provide a device of the character described which may be folded and secured clear of the door when not in use.

A further object of my invention is to provide a device of the character described which is simple in construction, easy to operate and thoroughly practical commercially.

Other objects and advantages will appear in the following specification, and the novel features of the invention will be particularly pointed out in the appended claims.

My invention is illustrated in the accompanying drawings, forming part of this application, in which—

Fig. 1 is a view of an embodiment of my invention with a ventilating attachment in an inoperative position,

Fig. 2 is a view of the mechanism illustrated in Fig. 1, showing the ventilating attachment in use.

Fig. 3 is a plan view of the ventilating attachment to show the details of construction.

In carrying out my invention, I make use of three sheet metal ventilating shutters 1, 2 and 3, which are hingedly connected to one another by means of integral hinge fastenings 4 and 5.

The ventilating shutters are each provided with louvers 6, which are arranged to open upwardly so that one cannot see through the shutters from either side. The shutter 1 is constructed so that it is narrower than the shutters 2 and 3 for the purpose hereinafter described.

Four hingedly mounted supporting plates 7 are disposed at the outer edge of the shutter 3 and are secured by means of wood screws 9 to the frame 10 of the door 11. Each of the plates 7 is provided with an outwardly extending eye 12. The eyes 12 are in exact registration with elongated openings 13 in the shutters 1, 2 and 3 so that when the shutters 1, 2 and 3 are folded against the plates 7, the eyes 12 will project through the openings 13. A relatively narrow metal plate 14 is hingedly mounted at 15 to the outer edge of the shutter 1 and is also provided with openings 13 in registration with the eyes 12.

Each of the plates 7 is provided with a bolt 16 loosely attached to the plate by means of the chain 17. The chain 17 is of sufficient length to permit the bolt 16 to be passed through the eyes 12 after the shutters and the plate 14 are folded thereagainst, thus locking the shutters and the plate 14 in an inoperative position adjacent the door frame 10.

Means for removably securing the plate 14 to the edge of the door when open, is provided in a plurality of small metal buttons 18 secured to the edge of the door and arranged for registration with the openings 13 in the plate 14.

From the foregoing description of the various parts of the device, the operation thereof may be readily understood. My invention is particularly well suited for use in hotels and sometimes where one desires a maximum ventilation in the sleeping room, but where the opening of the door for this purpose may be inconvenient. In using my device, it would be merely necessary to release the bolt 16 from the eyes 12 when the device is in an inoperative position and to unfold the shutters. The plate 14 is then secured to the edge of the portion by passing the buttons 18 through the openings 13 and turning the buttons so that they will prevent the removing of the plate 14 by pressure thereagainst, as from the outside. The passage of air to or from the room is hereupon established, since the air may pass through the louvers 6 of the shutters and also through the opening 19 between the frame 10 and the door 11 at the top thereof.

The door 11 may be moved toward and away from the frame 10 to vary the opening therebetween without removing the plate

14 from the edge of the door. When a ventilating attachment thus described is not in use, the shutters 1, 2 and 3 are folded back upon the plates 7 and the plate 14 is folded against the shutter 1 so that the eyes 12 protrude through the openings 13 of the interposed shutters and plate and the bolts 16 are passed through the eyes 12 to lock the attachment in its inoperative position.

I claim:

1. The combination with a hingedly mounted door and a frame for said door, of a foldable ventilating shutter comprising foldable sections hingedly supported at one edge on said frame, said shutter having a plurality of openings therethrough adjacent its opposite edge, and a plurality of fastening members secured to said door, said fastening members being arranged to engage with the openings in said shutter to lock said shutter to said door.

2. The combination with a hingedly mounted door and a frame for said door, of a foldable ventilating shutter comprising a plurality of plates hingedly mounted to one another and provided with ventilating openings therethrough, one of said plates being hingedly supported at one edge on said frame, and means for removably securing the opposite edge of said shutter to said door.

3. The combination with a hingedly mounted door and a frame for said door, of a foldable ventilating shutter hingedly supported at one edge on said frame, a relatively narrow plate hingedly connected to the outermost section of said shutter, said plate having a plurality of openings therethrough, and a plurality of fastening buttons secured to said door, said buttons being arranged to engage the openings in said plate to lock said plate to said door.

4. The combination with a hingedly mounted door and a frame for said door, of a foldable ventilating shutter hingedly supported at one edge on said frame, a relatively narrow plate hingedly connected to the outermost section of said shutter, said plate having a plurality of openings therethrough, and a plurality of fastening buttons secured to said door, said buttons being arranged to engage the openings in said plate to lock said plate to said door, and means for removably locking said shutter and plate against said frame when folded and in an inoperative position.

LYDIA MARIAN O'HARROW.