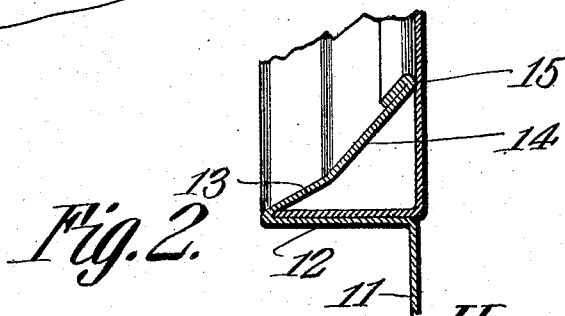
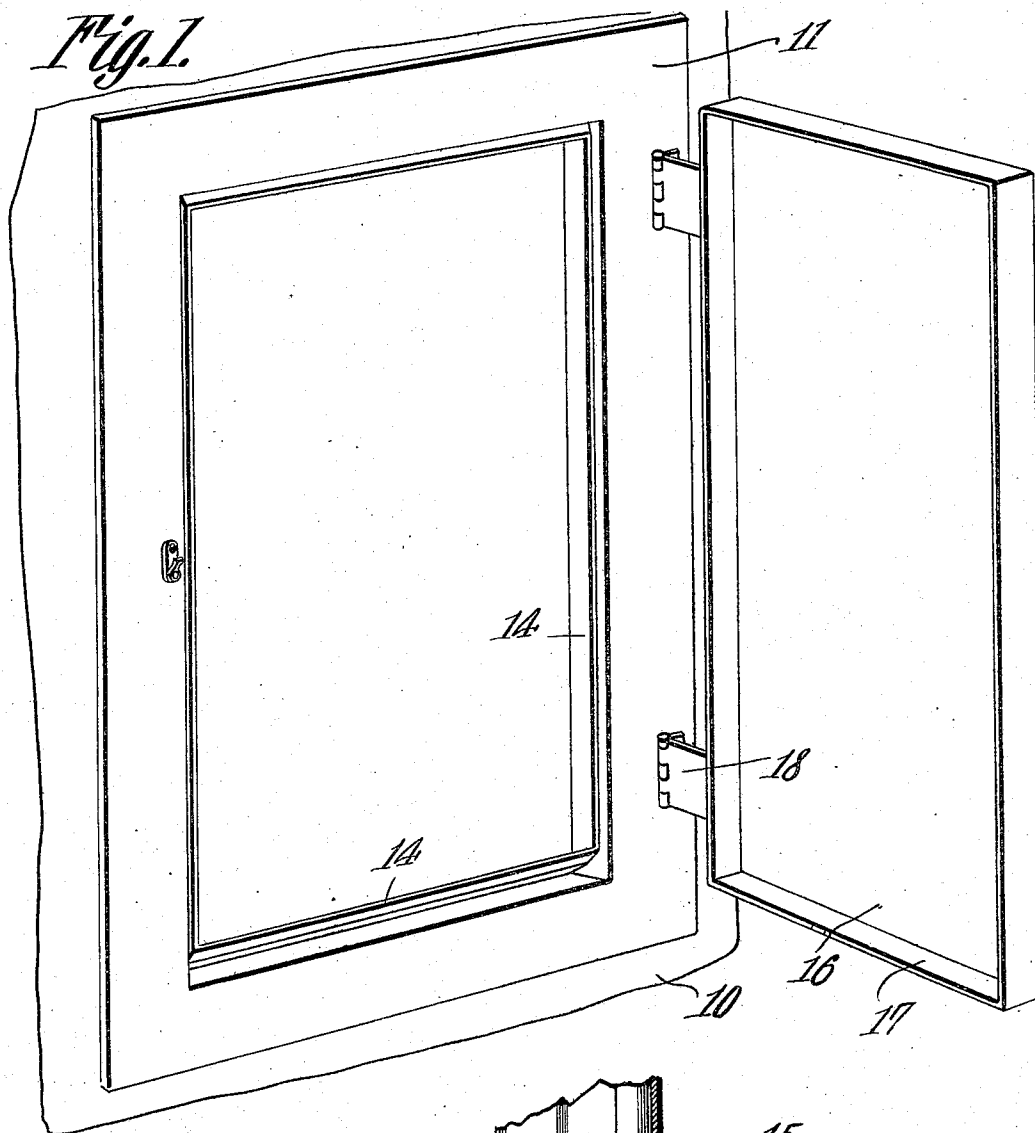


H. W. DIERS.  
INSECT PROOF DOOR AND FRAME.  
APPLICATION FILED JULY 21, 1908.

933,238.

Patented Sept. 7, 1909.



Witnesses

*E. W. Stewart*  
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By

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# UNITED STATES PATENT OFFICE.

HENRY W. DIERS, OF REDWING, MINNESOTA.

INSECT-PROOF DOOR AND FRAME.

933,238.

Specification of Letters Patent.

Patented Sept. 7, 1909.

Application filed July 21, 1908. Serial No. 444,678.

*To all whom it may concern:*

Be it known that I, HENRY W. DIERS, a citizen of the United States, residing at Redwing, in the county of Goodhue and State of Minnesota, have invented a new and useful Insect-Proof Door and Frame, of which the following is a specification.

This invention relates to closures or doors, such as are used for ice-boxes, refrigerators, clothes closets, bread and cake boxes and the like, where it is desired to provide a form of closure which will keep out moths, ants and other troublesome insects.

The object of the invention is to provide an improved form of metallic door and casing, so arranged as to absolutely exclude all insects from the receptacle to which the door is attached, when the same is closed.

With the above, and other objects in view, as will be hereinafter apparent, the invention consists of certain novel arrangements of details and combinations of parts, hereinafter fully described, illustrated in the accompanying drawings, and specifically set forth in the claim.

In the accompanying drawings, like characters of reference indicate like parts in the several views, and:—Figure 1 is a perspective view of a portion of a box, showing my door-casing and door attached thereto. Fig. 2 is a section through the door and casing, to an enlarged scale, but one end of the casing and door being shown.

In the form of the device here shown, the numeral 10 indicates the wall of a box. Within this wall is mounted a metallic casing, preferably formed of sheet metal, as at 11. This casing has an inwardly extending flange, 12, which is bent back as at 13, to form an acute angle with the portion 12. This angled portion is continued outward at 14, and the part 14 is so arranged that it forms an angle with the back 12, more obtuse than that formed by the part 13. The outer

end of the part 14 is rebent upon itself to form a thickened portion, as indicated at 15.

The door 16, is preferably stamped from sheet metal, and is provided with a peripheral flange, 17, so arranged that when the door is closed, the end of the flange will be wedged between the parts 13 and 12, at the same time that the thickened part, 15, of the casing, contacts with the door-body adjacent to the said flange. This door is provided with suitable hinges, 18, preferably spaced away from the edge of the door-casing, so that when the door is opened, the flange on the end edge will be entirely removed from within the recess formed by the flanges of the casing. The obtusely angled portion, 14, of the casing, aids in permitting the withdrawal of this flange. There has thus been provided a simple and efficient device of the character described, and for the purpose specified.

Having thus described the invention, what is claimed as new, is:—

In a closure for boxes and the like, a door frame, provided with an inwardly extending peripheral flange, rebent upon itself, at an acute angle, outwardly from the inner edges of the flange, and provided with an extension at an angle to the part adjacent the flange, said extension having a thickened edge, and a door, provided with a peripheral flange, adapted to closely fit within the straight portion of the frame flange when the door is closed, and contact with the inner angle of said flange, the thickened edge simultaneously contacting with the inner face of the door.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

HENRY W. DIERS.

Witnesses:

BURNET COGEL,  
ARTHUR E. ARNTSON.