

C. R. COCHRAN,
DOOR CATCH.
APPLICATION FILED APR. 24, 1908.

914,796.

Patented Mar. 9, 1909.

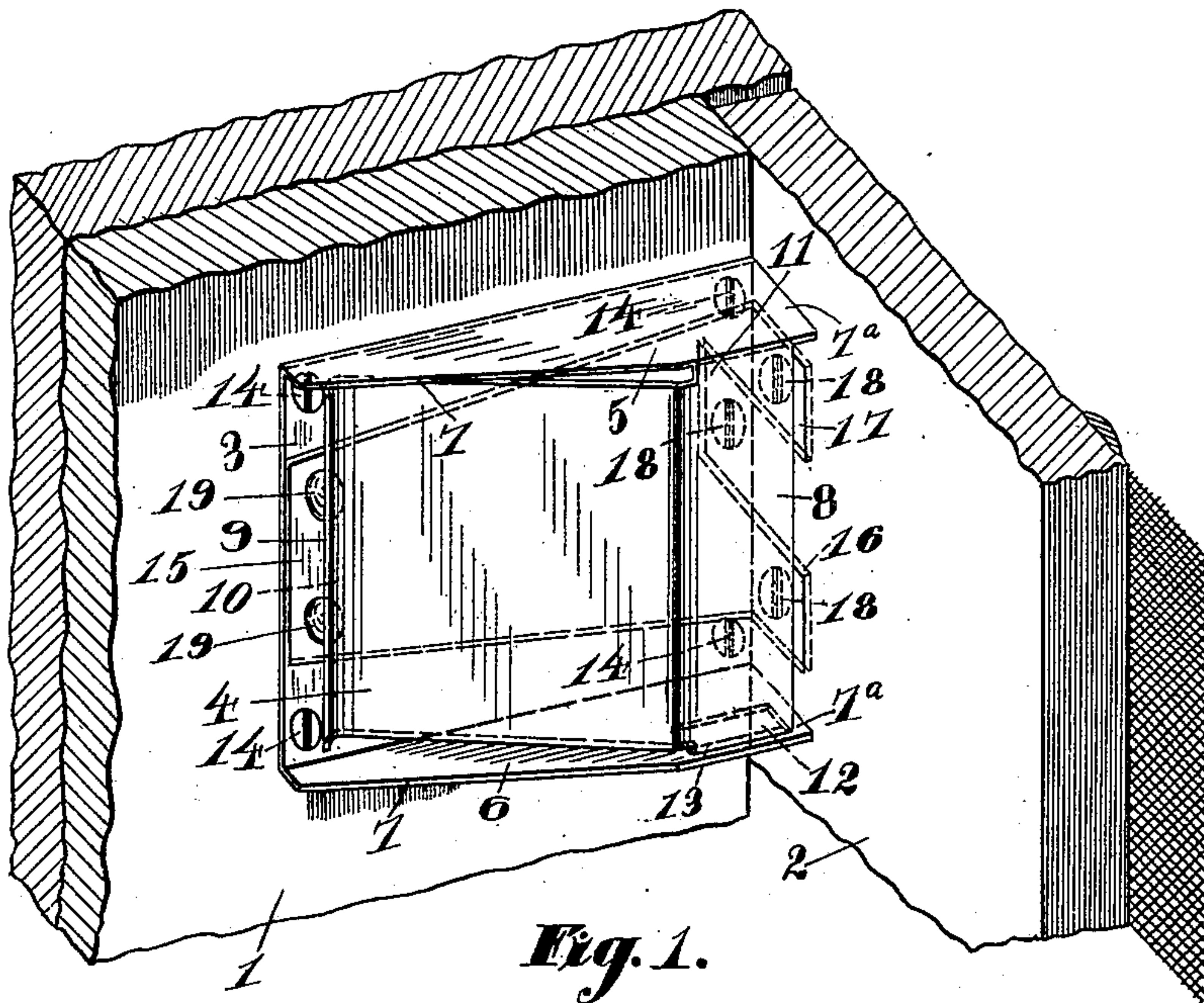


Fig. 1.

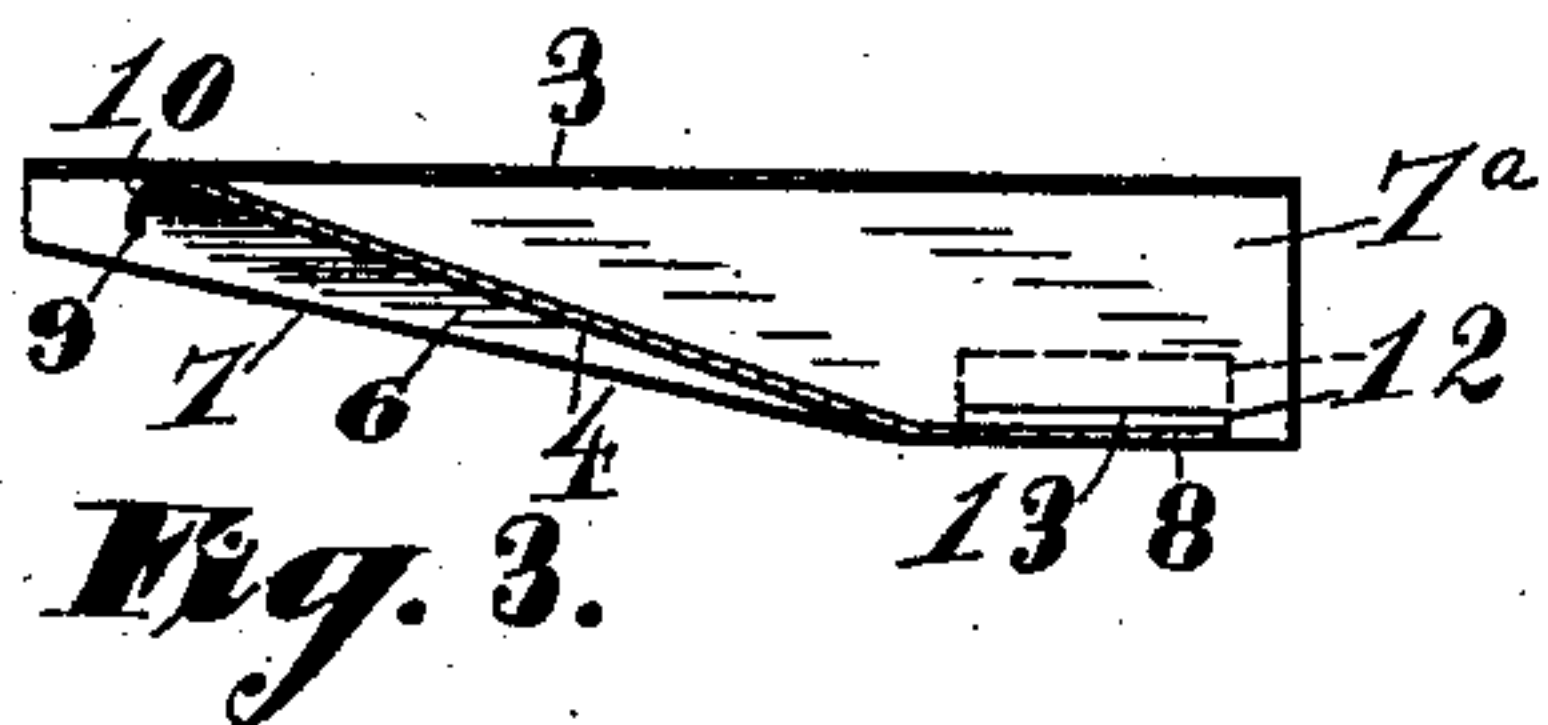


Fig. 3.

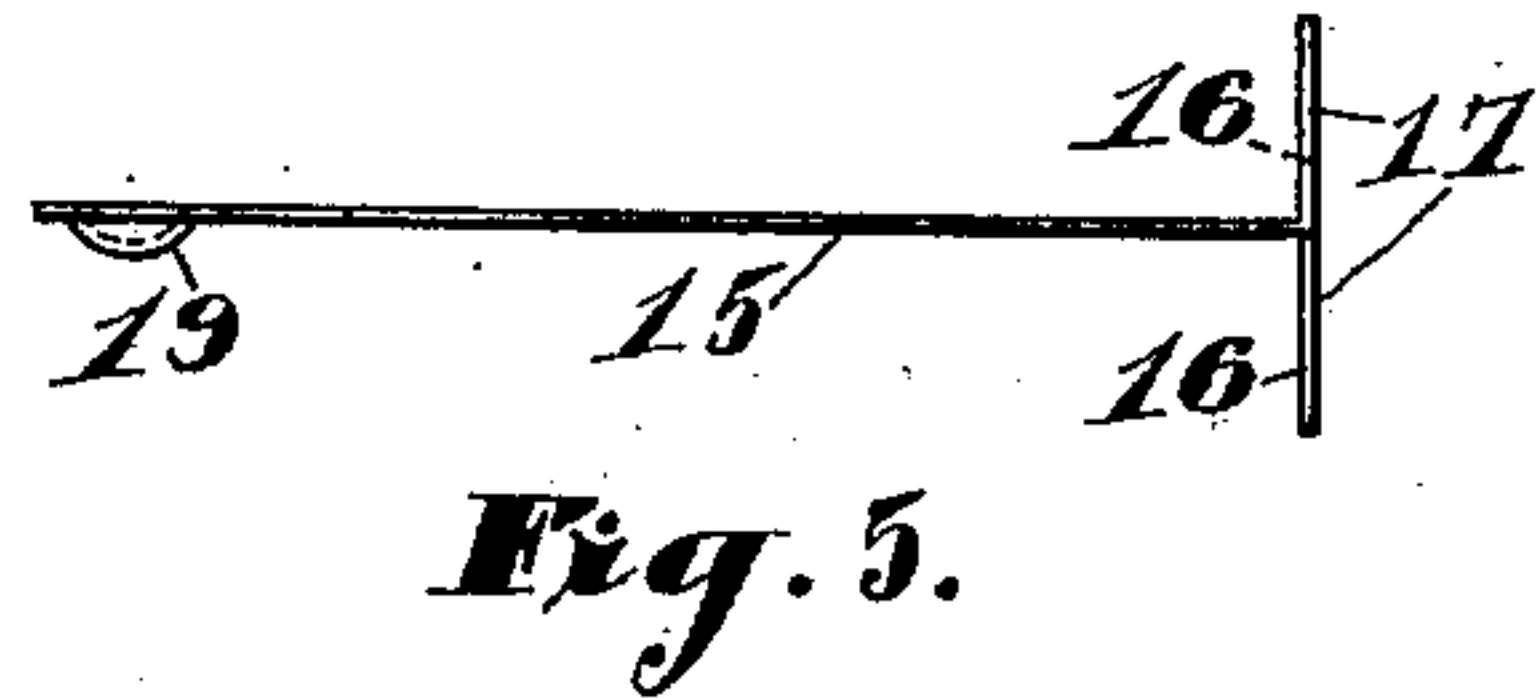


Fig. 5.

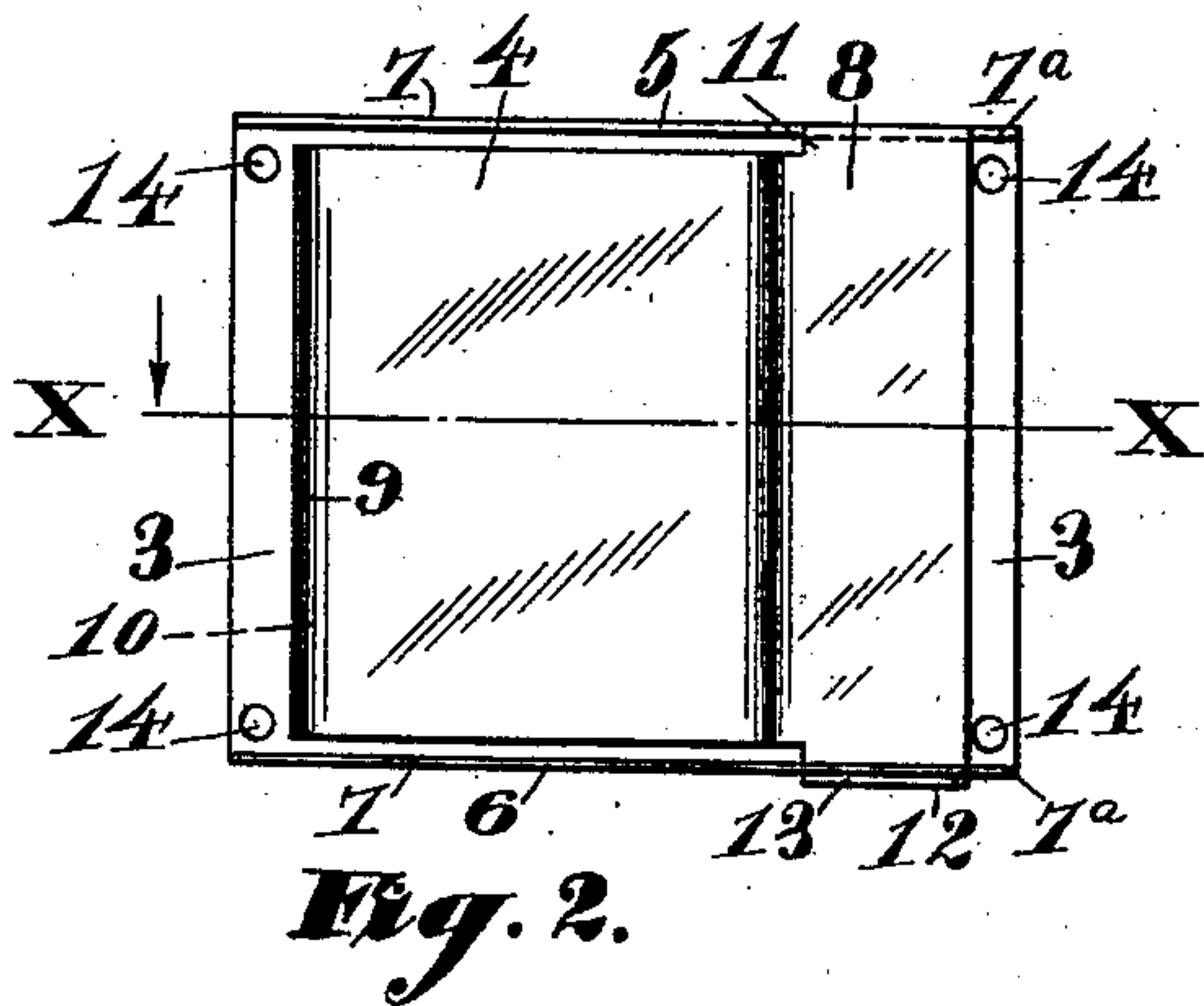


Fig. 2.

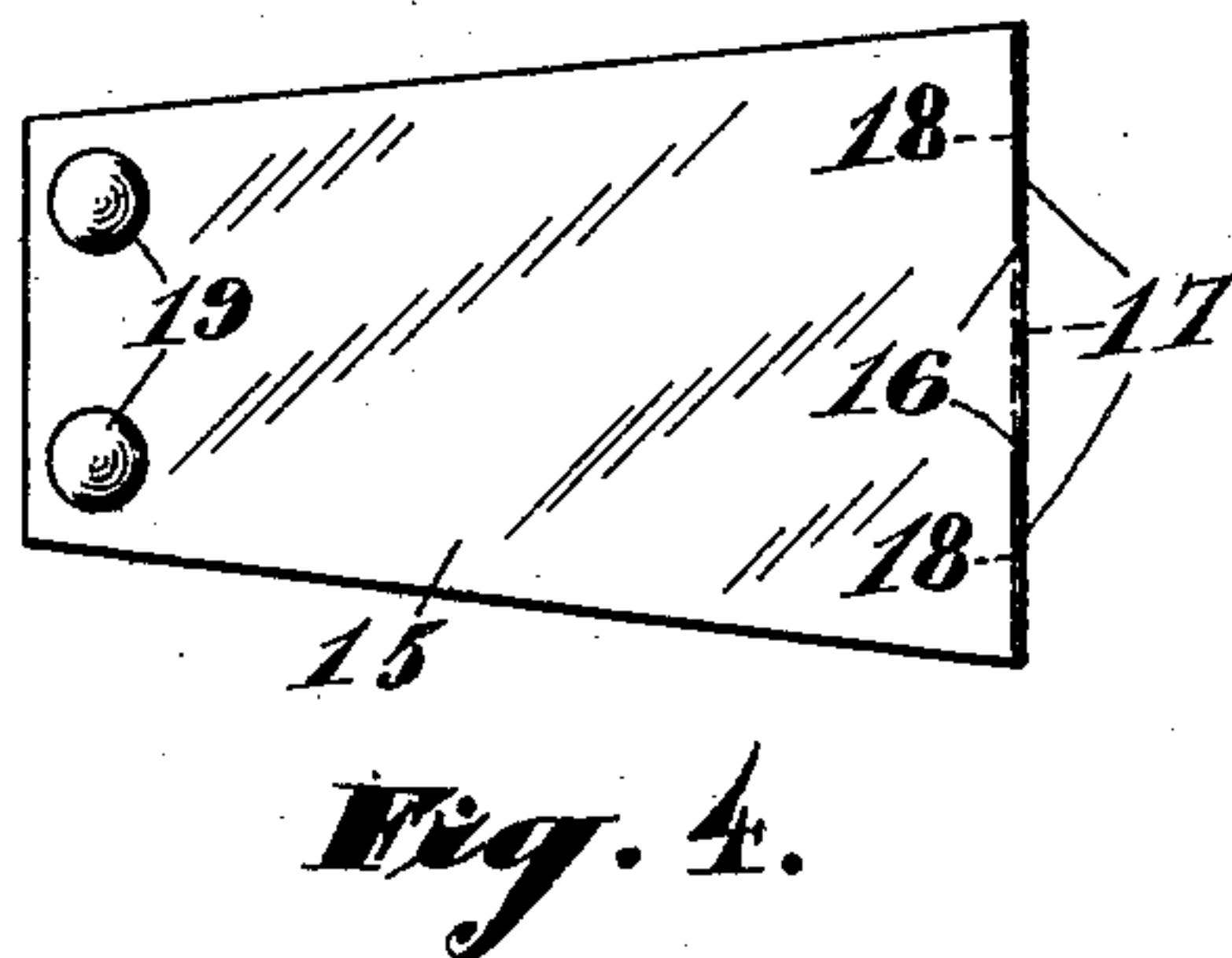
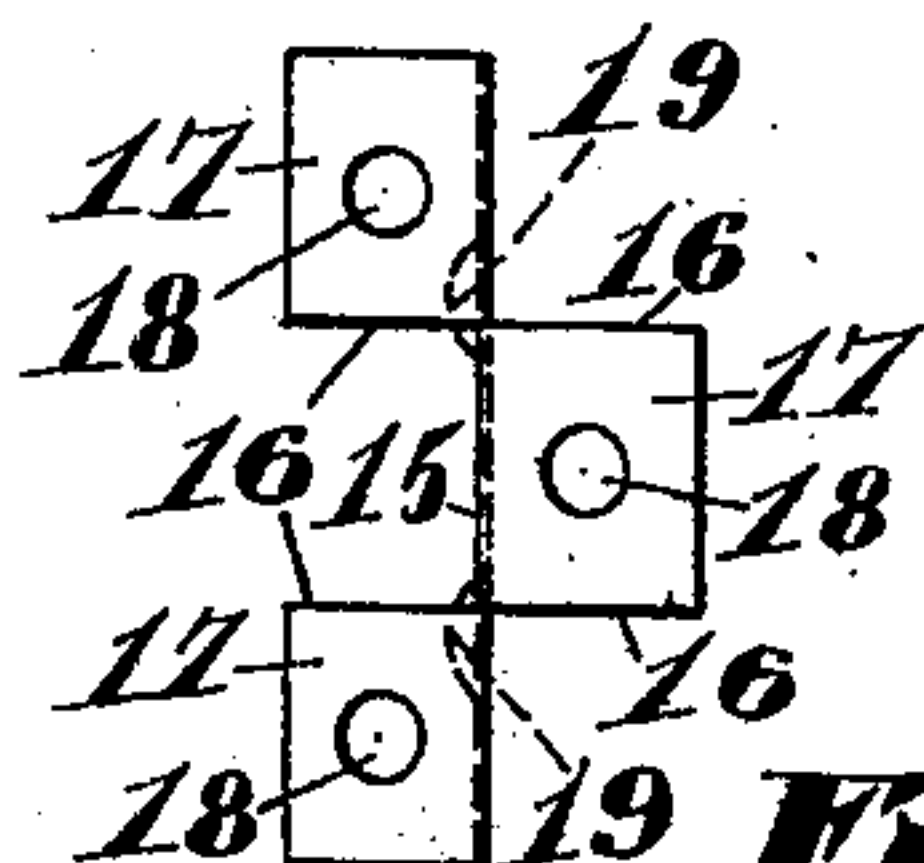


Fig. 4.

Witnesses;
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UNITED STATES PATENT OFFICE.

CHARLES ROYAL COCHRAN, OF MEETEETSE, WYOMING.

DOOR-CATCH.

No. 914,796.

Specification of Letters Patent.

Patented March 9, 1909.

Application filed April 24, 1908. Serial No. 428,913.

To all whom it may concern:

Be it known that I, CHARLES ROYAL COCHRAN, a citizen of the United States, residing at Meeteetse, county of Bighorn, and State of Wyoming, have invented certain new and useful Improvements in Door - Catches, of which the following is a specification.

My invention relates to catches for screen doors or other light doors and the object of my invention is to provide a catch which will hold the door tightly closed, yet will permit the same to be readily opened without manipulating the catch.

A further object of my invention, is to provide a device as mentioned, which shall be of simple construction, of low cost to manufacture and one which shall not readily get out of order.

Other objects will appear hereinafter.

In carrying out my invention, I provide a spring tongue secured to the door jamb and having a curved end adapted to impinge against the jamb or a plate secured thereto and a tongue secured to the door and adapted to enter between said jamb or plate and the curved end of the spring tongue, the tongue on the door having a boss or lug formed thereon adapted to be engaged by said curved end to hold the door in closed position.

My invention further consists in a casing or socket member adapted to be secured to a door jamb and comprising a base plate, top and bottom walls extending outwardly at right angles therefrom and a spring tongue arranged between said walls and having an end adapted to impinge against said base plate, and a tongue secured to the door and adapted to rest between said base plate and said spring tongue when the door is closed.

My invention further consists in a device as mentioned, the two parts or members of which are each formed of a single piece of sheet metal.

My invention further consists in various details of construction and arrangements of parts, all as will be hereinafter fully described and particularly pointed out in the claims.

My invention will be more readily understood by reference to the accompanying drawings forming a part of this specification, and in which,

Figure 1 is a perspective view of portions of a door jamb and screen door equipped with the door catch embodying my invention

in its preferred form, Fig. 2 is an elevation of the socket member, Fig. 3 is a horizontal section of the socket member on the line $x-x$ of Fig. 2, Fig. 4 is a side elevation of the tongue member, Fig. 5 is a top plan view thereof, and Fig. 6 is an end elevation of the tongue member.

Referring to the drawings, 1 indicates a portion of a door jamb and 2 the adjacent portion of the frame of the screen door. The socket member is secured to the jamb 1 and comprises a preferably rectangular base plate portion 3, and a spring wall or tongue 4 which are attached by the top and bottom walls 5 and 6 respectively. The walls 5 and 6 and the spring wall or tongue 4 are stamped out of sheet metal integrally with the base plate 3 and then bent into the form shown in the drawings. The walls 5 and 6 are quite wide at their outer end, that is the end toward the door, for a short distance and then taper toward the inner end as at 7. The spring wall comprises a narrow portion 8 extending between the walls 5 and 6 at their broad outer ends 7^a and the spring tongue portion 4 which slopes downwardly from the edge thereof terminating in an outwardly curved portion 9 and forming a well rounded or convex portion 10 extending from top to bottom of the tongue and normally bearing against the plate 3. As before stated, the wall 8—4 is formed integrally with the remainder of the socket member and to this end the portion 8 is connected to the broad end of the wall 5 by a narrow portion 11. The opposite end of the wall 8 is provided with a tongue 12 which extends through a slot or aperture 13 formed in the wall 6 near and parallel with the outer edge of the portion 7^a. The plate 3 is provided with the screw or nail hole 14 for attaching the device to the door jamb. These are arranged in the corners of the plate and the wall 8—4 is made somewhat shorter than the plate 3 to facilitate placing the screws or nails.

15 indicates the tongue member which is secured to the door. This comprises a tapered plate of sheet metal having its end longitudinally slit as at 16 and then bent at right angles to the body portion forming ears or base flanges 17 by which it is secured to the door, the flanges being provided with the screw or nail holes 18. The outer or small end of the tongue is indented forming bosses or rounded lugs 19. When the door is shut, the tongue 15 passes into the socket

member between the plate 3 and the tongue 4 and its end extends beyond the convex portion 10 bringing the bosses 19 into engagement with the inner edge of the convex portion as shown in Fig. 1. It is obvious that this will hold the door securely closed against slight force such as winds and drafts, but will not interfere the same being readily opened when desired without the necessity of manipulating the catch. It is also obvious that the device may be made at very low cost as both the socket and tongue members may each be stamped out in a single piece and then bent into the required form.

15 Having described my invention what I claim as new, and desire to secure by Letters Patent, is:

1. A door catch comprising a socket member adapted to be secured to a door jamb and comprising a base plate, and an angularly disposed spring tongue formed integrally therewith and having its free end impinging against said plate, in combination with a tongue member adapted to be secured to a door and to extend between said plate and said spring tongue when the door is closed, substantially as described.

2. A door catch comprising a socket member adapted to be secured to a door jamb and comprising a base plate, and an angularly

disposed spring tongue formed integrally therewith and having its free end curved and impinging against said plate, in combination with a tongue member to be secured to a door and to extend between said plate and said tongue when the door is closed, said tongue member having a boss to engage said curved end, substantially as described.

3. A door catch comprising a socket member adapted to be secured to a door jamb and comprising a base plate, top and bottom walls formed integrally therewith and bent at right angles thereto and an integral spring tongue having its free end curved and impinging against said base plate, in combination with a tapered tongue member secured to the door and having a pair of rounded bosses formed upon its end, said tongue being adapted to pass between the base plate and spring tongue of the socket member when the door is closed, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

CHARLES ROYAL COCHRAN.

Witnesses:

E. P. BOWMAN,
E. W. HEWITT.