

No. 692,119.

Patented Jan. 28, 1902.

W. B. COCHRANE.
SCREEN DOOR FASTENER.

(Application filed Aug. 6, 1901.)

(No Model.)

Fig. 1.

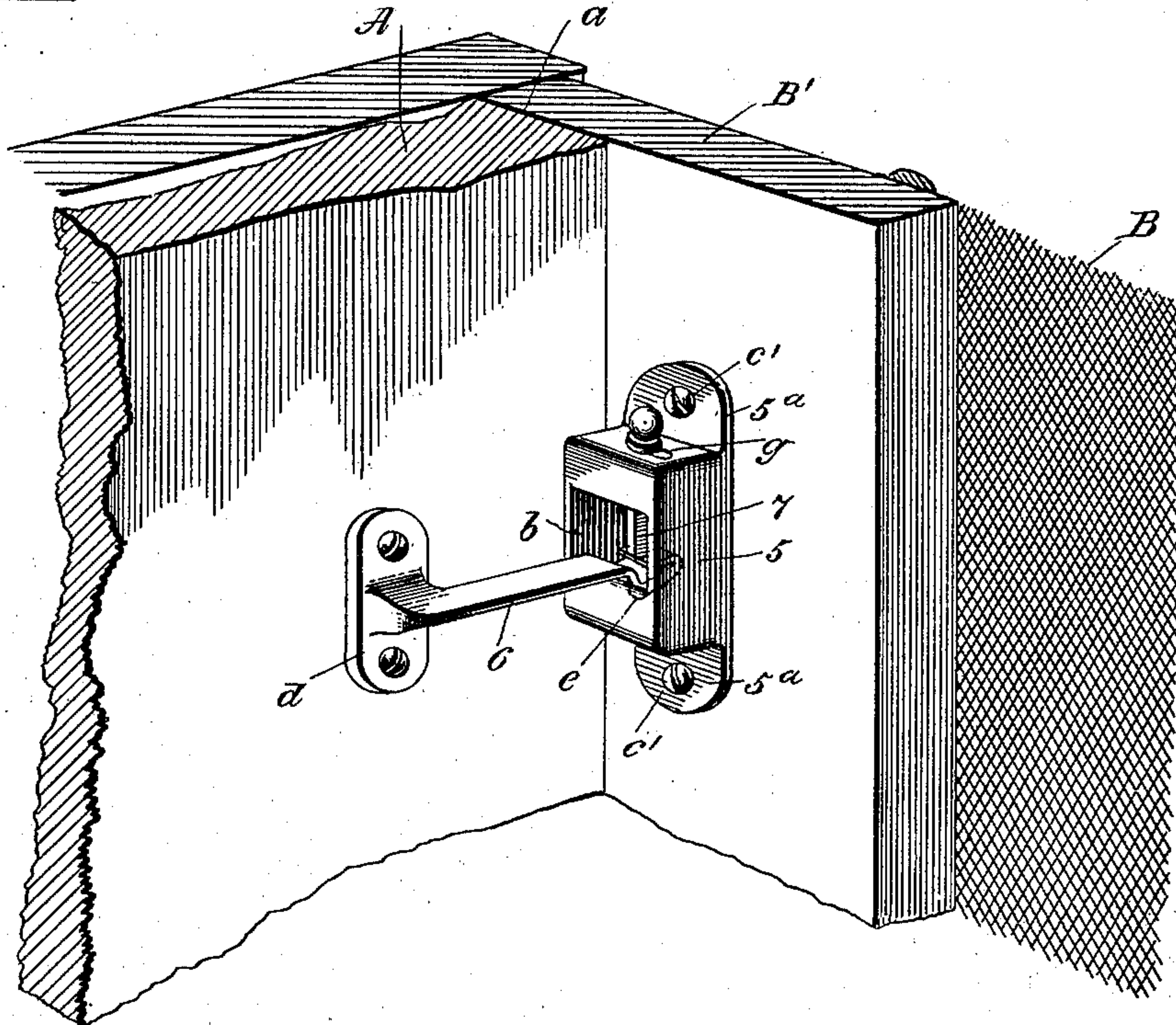
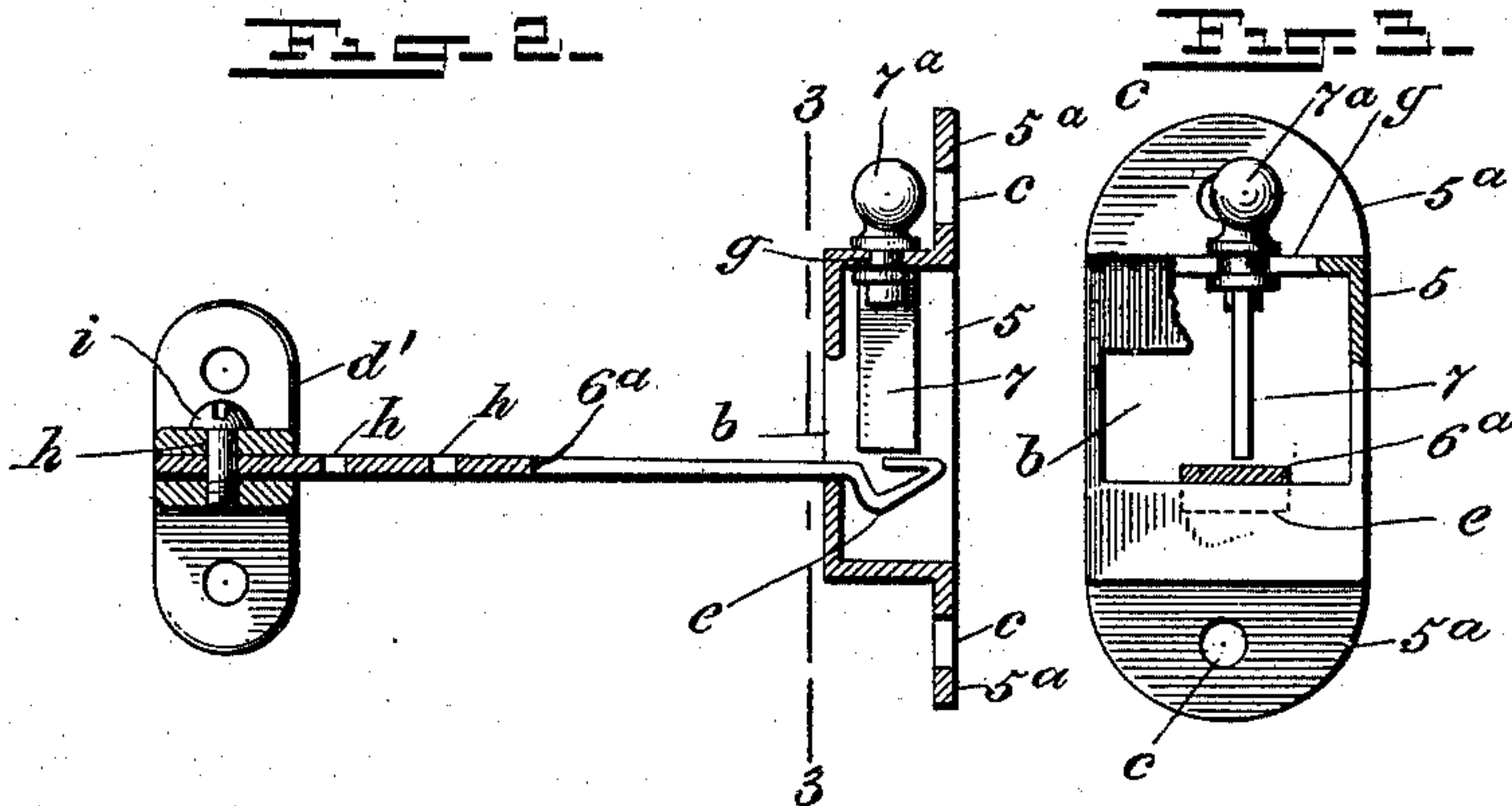


Fig. 2.



WITNESSES:

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HALF TO LOUIS C. KETTLER, OF POCA TELLO, IDAHO.

SCREEN-DOOR FASTENER.

SPECIFICATION forming part of Letters Patent No. 692,119, dated January 28, 1902.

Application filed August 6, 1901. Serial No. 71,065. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM BUTLER COCH-
RANE, a citizen of the United States, and a resi-
dent of Pocatello, in the county of Bannock
5 and State of Idaho, have invented a new and
Improved Screen-Door Fastener, of which the
following is a full, clear, and exact descrip-
tion.

The object of this invention is to provide a
10 door-fastener of novel simple construction
especially adapted for holding a screen-door
completely closed and yet permit the door to
be pushed open without requiring manipula-
tion of the fastener.

15 A further object is to provide means for
locking the fastener so that the door may be
secured in closed condition at any time de-
sired.

The invention consists in the novel con-
20 struction and combination of parts, as is here-
inafter described, and defined in the appended
claims.

Reference is to be had to the accompanying
drawings, forming a part of this specification,
25 in which similar characters of reference indi-
cate corresponding parts in all the figures.

Figure 1 is a perspective view in part of a
door-casement and of a screen-door thereat
30 held in closed adjustment by the improved
fastener. Fig. 2 is a sectional side view of
the improvement, showing a modified con-
struction of part of the device; and Fig. 3 is
a transverse sectional view substantially on
the line 3 3 in Fig. 2.

35 In the drawings, A indicates a jamb of a
door-frame, and B' the stile or free edge of a
screen-door B, said free edge having a lapped
engagement with a shoulder *a*, formed on the
door-frame and whereon the screen-door im-
40 pinges when in closed condition, as indicated
in Fig. 1. A catch-box 5 is one main feature
of the invention and comprises a preferably
four-sided box normally open at its rear and
transversely apertured, as at *b*, in its front
45 wall at or near the vertical center of said front
wall.

Two similar flanges 5^a are formed on the
catch-box 5 and respectively project in the
same plane at the rear edge thereof a suitable
50 distance beyond the top and bottom walls,
and screw-holes *c* are formed in said flanges

to receive screws *c'* for attachment of the
catch-box upon the stile B' in an upright po-
sition, so that the lower edge of the aperture
b is horizontal, and the catch-box is located 55
near the jamb of the casement or door-frame
A when the door is closed, as represented in
Fig. 1. A latch-bar 6, which coacts with the
catch-box 5, essentially consists of a spring-
limb having a pad-like footpiece *d* formed 60
thereon at one end, said footpiece being adapt-
ed for secure attachment upon the casement-
jamb A. At its opposite end the latch-bar 6
is formed with a latch-hook *e*, substantially
V-shaped on the nose thereof, which depends 65
from the free end of the limb, and said nose
may be slightly rounded on its apex to adapt
it to work effectively.

In the top wall of the catch-box 5 a trans-
verse slot *g* is formed, and in said slot a lock- 70
ing-bolt 7 is held to slide, the upper end of
the bolt being provided with a head 7^a, the
flat body of the bolt projecting down into the
cavity of the catch-box.

In arranging the door-fastener for service 75
such a relative position is given to the latch-
bar 6 as will permit the latch-hook *e* thereon
to have free latching engagement with the
lower transverse edge of the aperture *b*.

It will be seen that the peculiar form given 80
to the latch-hook *e* will adapt it to hold the
screen-door closed against a current of air
or other slight pressure upon it, but will per-
mit the door to be opened by pushing it with
such force as will lift the latch-bar at its free 85
end by overcoming the tension of its spring-
body.

As the locking-bolt 7 may be moved in the
catch-box 5 by means of its head 7^a toward
either side wall of the box, it is evident that 90
the pendent portion of the bolt, which has
such length as will permit the lower end to
pass above and near the upper side of the
latch-hook *e*, may be adjusted to dispose it
directly over the hook portion of the latch- 95
bar 6 or at one side of the same.

When the door is in use for frequent pas-
sage through the opening it guards, the lock-
ing-bolt 7 must be moved away from the latch-
bar 6, so that it may be raised at its hooked 100
end by pressure upon the door. If, however,
the door is to be temporarily locked, this may

be readily effected by movement of the locking-bolt 7, so as to locate it above the hooked end of the latch-bar 6, which will prevent the latch-bar from rising sufficiently to disengage the hook *e* from the catch-box and therefore lock the door until the bolt 7 is removed from over the latch-bar.

In Fig. 2 is shown a modified form of the latch-bar to adapt it for adjustment endwise, so that it may be increased or diminished in length to suit different widths of door-casement jambs. In this construction one end of the latch-bar body 6^a is longitudinally movable in the transversely-slotted footpiece *d'* and is perforated at short intervals, these perforations *h* being adapted separately for alinement with mating holes in the slotted footpiece *d'* and for the reception of a securing-screw *i*, whereby the latch-bar may be adjusted endwise to give it desired length, as may be required.

Having described my invention, I claim as new and desire to secure by Letters Patent—

1. A door-fastener, consisting of catch-box adapted to be secured to a door and provided with a central opening in its front wall and with a transverse slot in its top wall, an adjustable spring-bar adapted to be secured to a door-casement and provided at its free end with a V-shaped hook adapted to enter the opening of the box and engage the front wall thereof, and a bolt loosely held in the slot of the box and having its lower end extending down into the box, said bolt being adapted

to be moved in the said slot to dispose it directly over the hook of the said bar or at one side of the same, as set forth.

2. A door-fastener, comprising a catch-box adapted to be secured to a door and provided with an opening in its front wall and with a transverse slot in its top wall, a spring-bar adapted to be secured to a door-casement and having a hook-shaped end adapted to enter the opening of the box and engage the front wall thereof, and a bolt slidably held in the slot of the box with its end extending down into the same, the said bolt being adapted to be disposed directly over the hook of the bar or at one side of the same, as set forth.

3. A door-fastener, consisting of a box having an opening in its front wall and a slot in its top wall and adapted to be secured to a door, a bolt slidably held in the slot of the box with its end extending down into the same, a slotted footpiece adapted to be secured to a door-casement, and a spring-bar having a plurality of openings for adjustably securing it to the slotted foot, and provided with a hook at one end adapted to enter the opening of the box and engage the front wall thereof, as set forth.

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

WILLIAM BUTLER COCHRANE.

Witnesses:

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ALEX. HYSLOP.