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PATENTED DEC. 19, 1905.

F. SOLEY.
PADLOCK.

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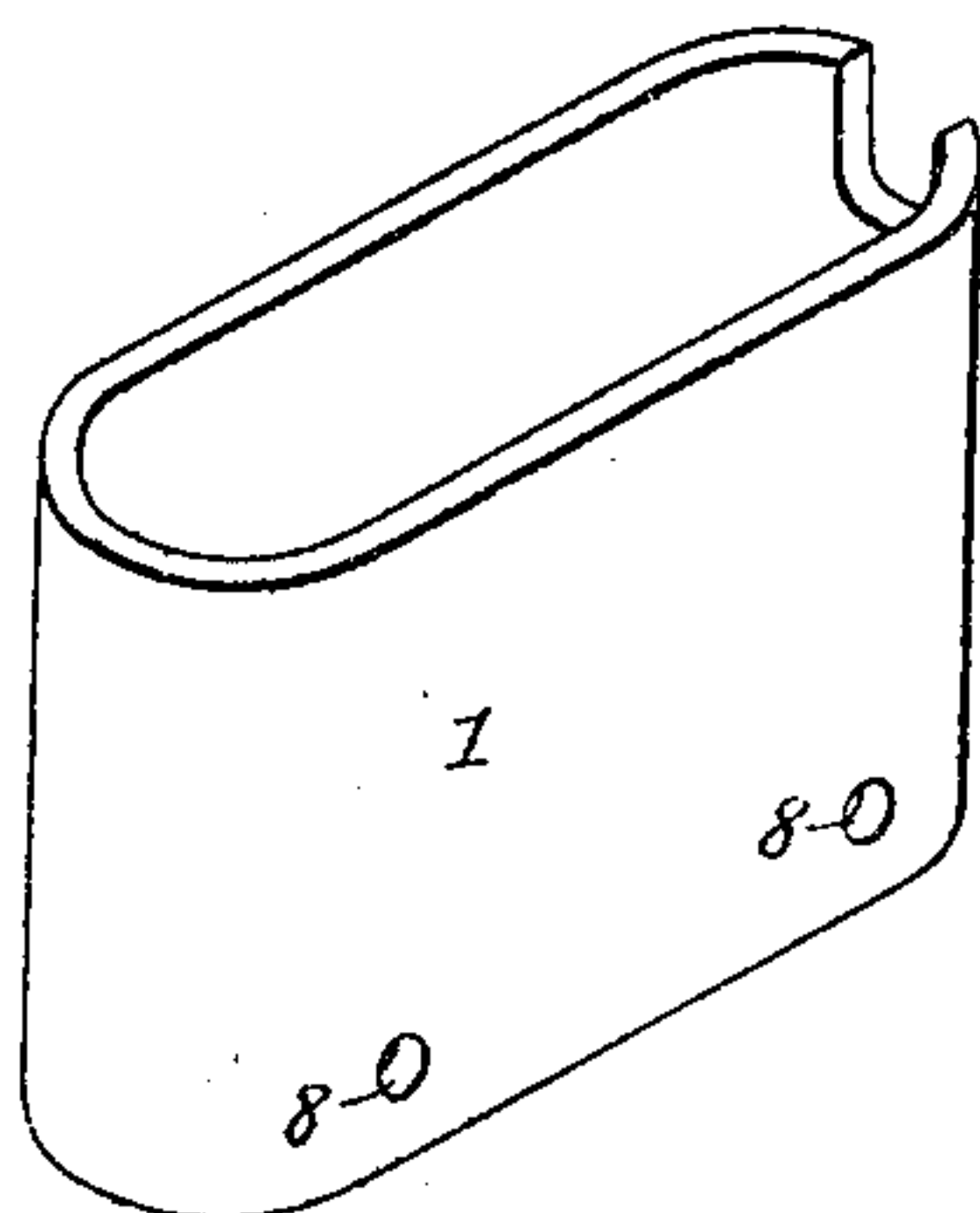
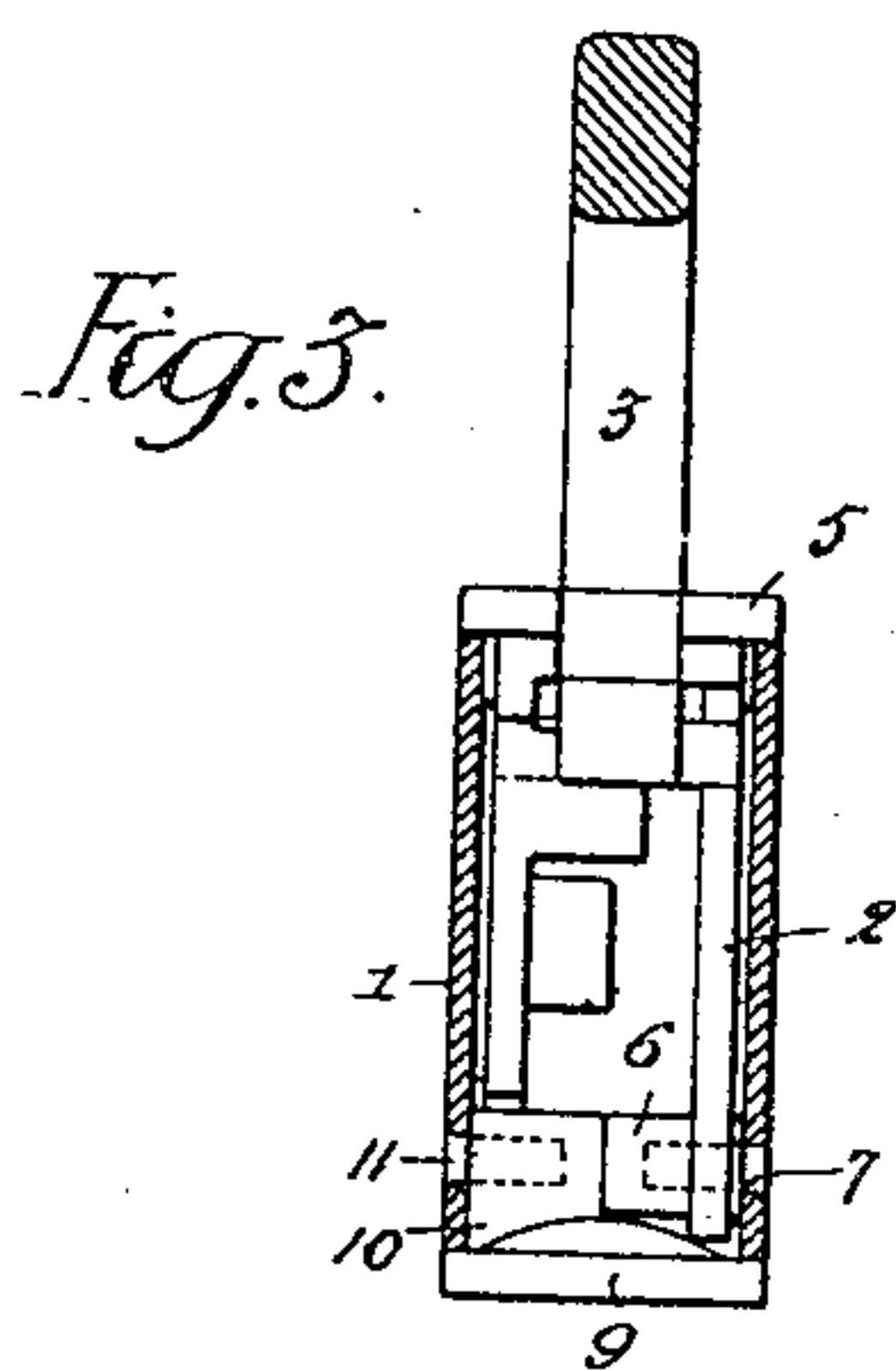
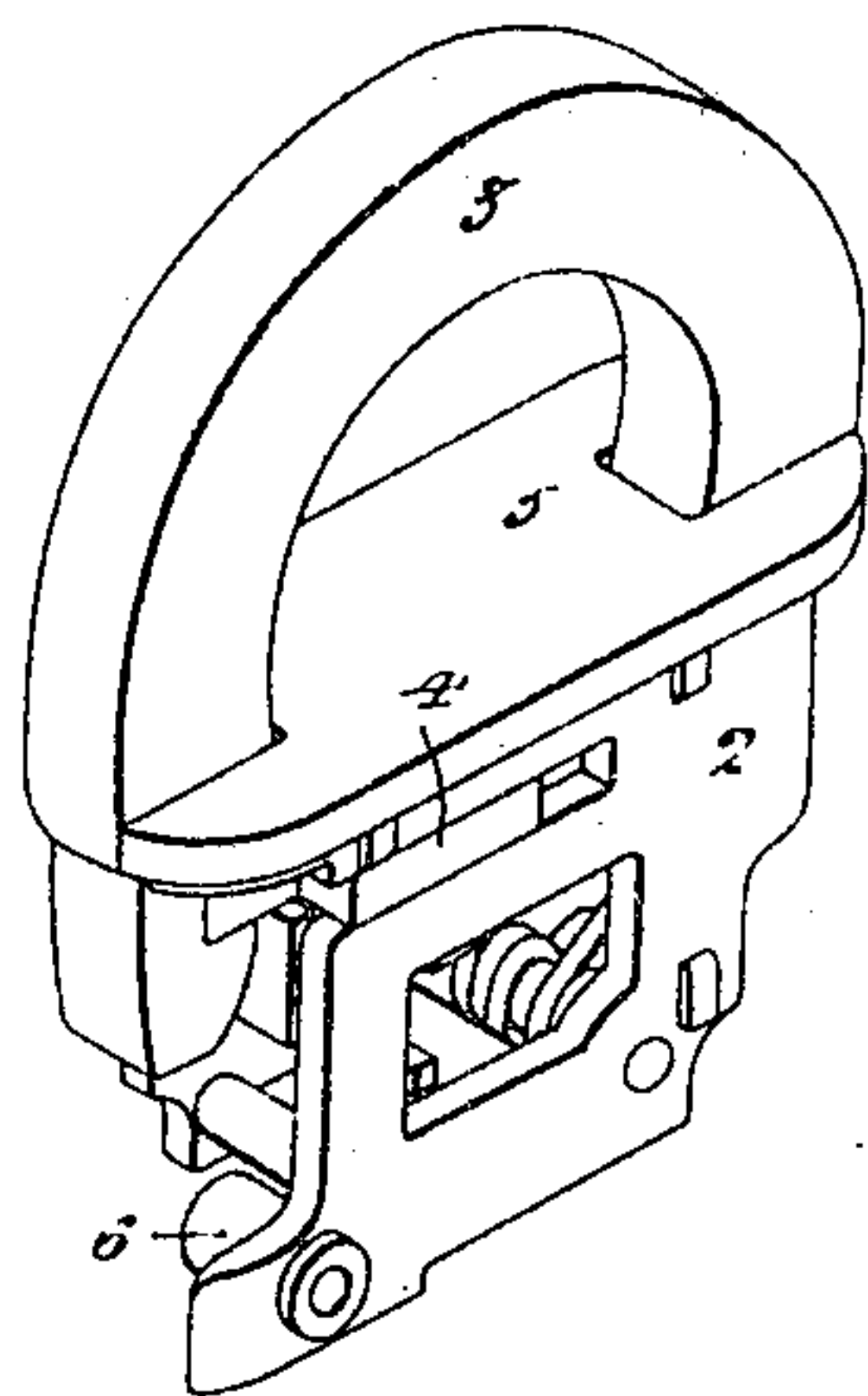
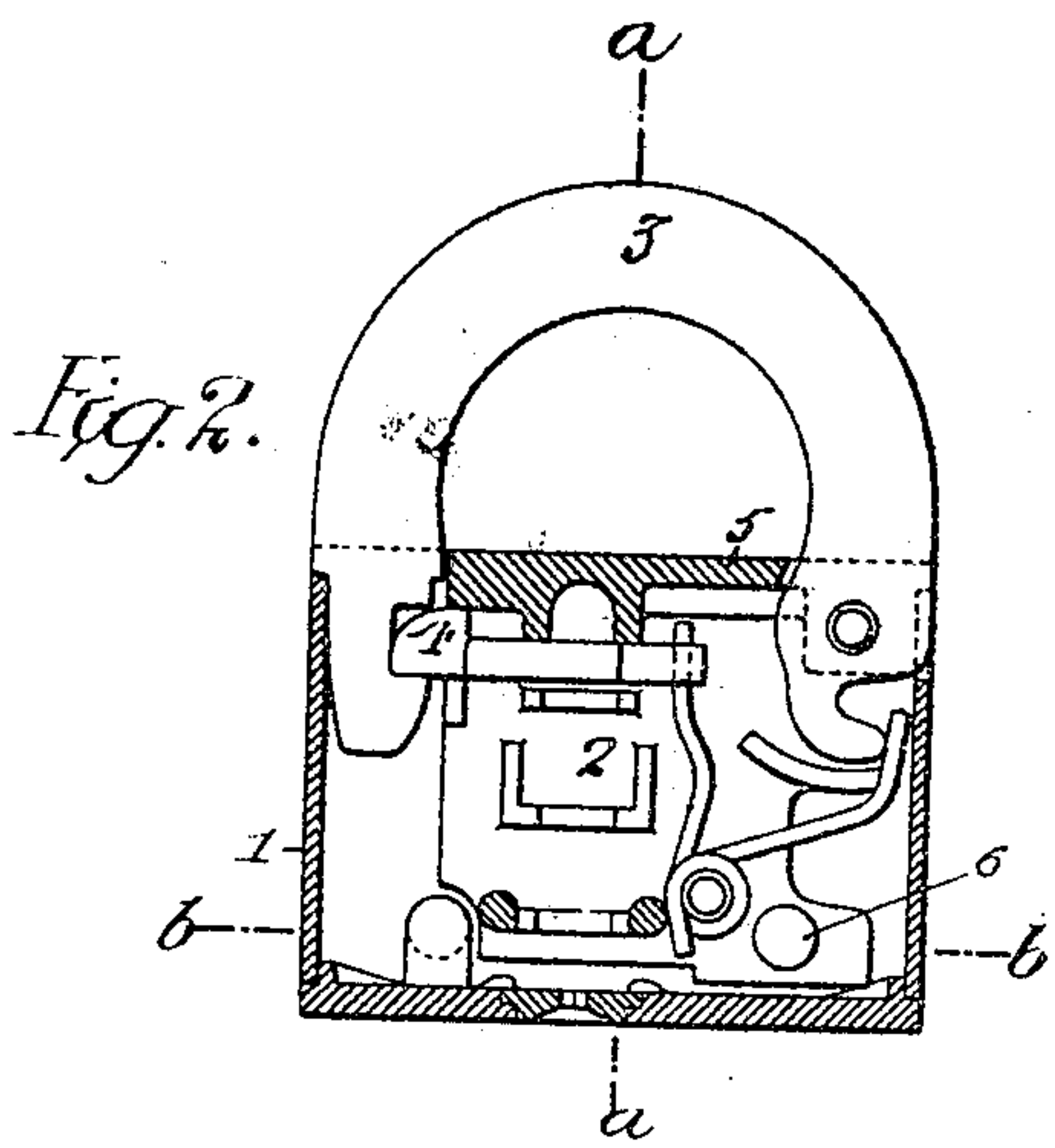


Fig. 4.

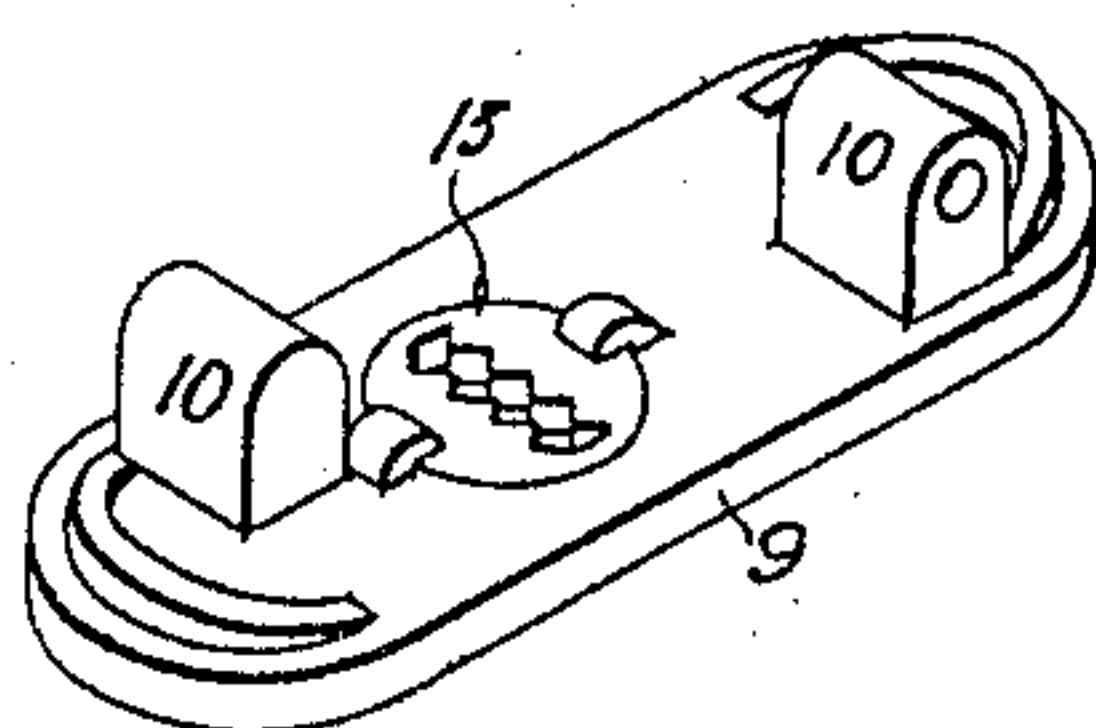
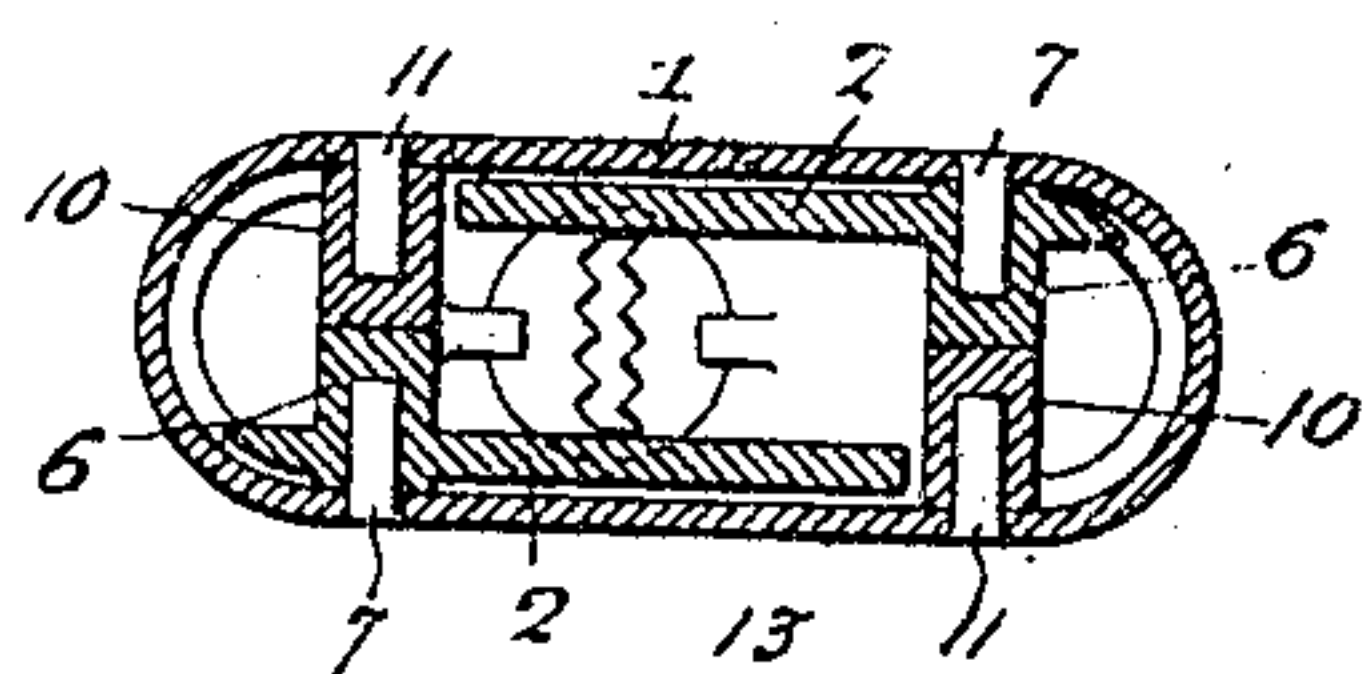


Fig. 1

Witnesses:

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PADLOCK.

No. 807,877.

Specification of Letters Patent.

Patented Dec. 19, 1905.

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To all whom it may concern:

Be it known that I, FRANK SOLEY, a citizen of the United States, residing in Philadelphia, Pennsylvania, have invented certain Improvements in Padlocks, of which the following is a specification.

My invention relates to that class of padlocks in which a body structure carrying the working parts of the lock is inserted and secured within a seamless sheet-metal case.

The object of my present invention is to so effect the securing of said body structure and of an end plate or cap to said seamless sheet-metal case that said parts cannot be detached from the case without practically destroying the lock, thereby preventing surreptitious entry, which is sometimes effected by taking the lock apart and afterward reassembling and connecting the parts of the same.

In the accompanying drawings, Figure 1 is a perspective view of the parts of my improved lock detached from each other. Fig. 2 is a longitudinal section of the lock, showing the parts assembled and secured in position. Fig. 3 is a view, partly in elevation and partly in transverse section, on the line *a a*, Fig. 2; and Fig. 4 is a sectional plan view on the line *b b*, Fig. 2.

1 represents the sheet-metal case of the lock, which in the present instance has flat sides and rounded ends, and 2 represents the body structure of the lock, which is provided with the usual pivoted shackle 3, the sliding bolt 4 for engaging the same, and the springs for actuating said bolt and shackle, together with the wards, plates, tumblers, or other devices for engaging the key whereby the bolt is retracted in order to free the shackle.

The body structure 2 has at the top a plate 5, integral therewith and overlapping the sides and ends of the casing 1, as shown in Figs. 2 and 3, and at the other end said body structure 2 is provided with internally-projecting studs 6, which are bored part way through for the reception of pins or rivets 7, which pass through openings 8 in the casing 1 and which fit snugly in the openings formed in the studs 6, so that they cannot be readily withdrawn therefrom, especially if their outer ends are dressed off flush with the sides of the casing, as shown in Fig. 4.

The lower end of the casing 1 is closed by a cap or cover plate 9, which has internally-

projecting studs 10, these studs being likewise bored part way through for the reception of pins or rivets 11, which pass through openings 8 in the casing and are driven into the openings in the studs 10, as shown in Fig. 4.

The studs 6 are located at diagonally opposite corners of the body structure 2, as shown in Fig. 4, and the studs 10 are in like manner located at diagonally opposite corners of the cap or cover plate 9, the two sets of studs by preference abutting against each other, as shown in Fig. 4, when the body structure and cap-plate are fitted to the casing of the lock. The secure confinement of the body structure and cap-plate to the casing is thus effected, and the rivets or pins 7 and 11 cannot be driven out, as can a rivet passing completely through the structure from one side to the other. Hence the release of the internal parts of the lock from the case cannot be readily effected, and tampering with the lock in this way is therefore rendered highly improbable.

The cap or cover plate 9 is provided with a rotatable key-hub 13 of the usual character.

Although I prefer in carrying out my invention to adopt the diagonal disposition of the riveting-studs which I have shown and described and to so dispose said studs that those of the cap-plate or cover will abut against those of the body structure, other arrangements of studs can, as will be evident, be adopted within the scope of my invention. For instance, the body structure and cap-plate of the lock may each have but one stud instead of two, and the studs may in some cases be through-bored, the inner end of the securing pin or rivet abutting against the opposing stud or against the other side of the casing.

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

1. The combination, in a padlock, of a seamless sheet-metal casing, a body structure contained therein and having one or more partly-bored studs thereon, and a securing-pin for each of said studs, which pin passes into the bore of the stud and through one of the sides of the casing only, substantially as specified.

2. The combination, in a padlock, of a

seamless sheet-metal casing, a body structure contained therein and having studs located at diagonally opposite corners thereof and securing-pins each passing through one side only of the casing and into one of said securing-studs of the body structure, substantially as specified.

3. The combination, in a padlock, of a seamless sheet-metal casing, a body structure contained therein and having partly-bored studs located at diagonally opposite corners and securing-pins each passing through one side only of the casing and engaging one of said partly-bored studs, substantially as specified.

4. The combination, in a padlock, of a seamless sheet-metal casing, a cap or cover plate adapted to close one end of said casing and having one or more inwardly-projecting studs abutting at the inner end against another member of the lock, and a transverse securing-pin for each of said studs, said pin entering the stud and passing through an opening in one side only of the casing; substantially as specified.

5. The combination, in a padlock, of a seamless sheet-metal casing, a cover-plate closing one end of the same and having one or more inwardly-projecting and partly-bored studs, and a securing-pin for each of said partly-bored studs, said pin passing through one side only of the casing, substantially as specified.

6. The combination, in a padlock, of a seamless sheet-metal casing, a cap or cover plate closing one end of the same and having inwardly-projecting studs located at diagonally opposite corners of the plate and abutting at the inner ends against other members of the lock, and transverse pins engaging said studs and each passing through one side only of the casing, substantially as specified.

7. The combination, in a padlock, of a seamless sheet-metal casing, a cap or cover plate closing one end of the same and having inwardly-projecting and partly-bored studs located at diagonally opposite corners of the plate, and transverse pins engaging said partly-bored studs, and each extending through one side only of the casing, substantially as specified.

8. The combination, in a padlock, of a seamless sheet-metal casing, a body structure adapted thereto and having one or more securing-studs thereon, a cap-plate closing one end of the casing and having one or more inwardly-projecting studs which abut against those of the body structure, and transverse pins each engaging one of the said studs and passing through one side only of the casing, substantially as specified.

9. The combination, in a padlock, of a seamless sheet-metal casing, a body structure adapted thereto and having securing-studs at one end and at diagonally opposite

corners, a cover-plate closing one end of the casing and having inwardly-projecting studs at diagonally opposite corners, which studs abut against those of the body structure, and transverse pins each engaging one of the said studs and passing through one side only of the casing, substantially as specified.

10. The combination, in a padlock, of a seamless sheet-metal casing, a body structure adapted thereto and having one or more partly-bored securing-studs at one end, a cap or cover plate closing one end of said casing and having one or more inwardly-projecting and partly-bored studs abutting against the stud or studs of the body structure, and transverse pins each engaging one of said studs and passing through one side only of the casing, substantially as specified.

11. The combination, in a padlock, of a seamless sheet-metal casing, a body structure adapted thereto, and having securing-studs at one end, partly-bored and disposed at diagonally opposite corners of the structure, a cap-plate closing one end of the casing, and having inwardly-projecting studs likewise partly bored and located at diagonally opposite corners of the plate, said studs abutting against those of the body structure, and transverse pins each engaging one of said studs and extending through one side only of the casing, substantially as specified.

12. The combination, in a padlock, of a seamless sheet-metal casing open at both ends, a body structure adapted thereto and having at one end a plate overlapping the upper end of the casing and at the other end one or more studs, a cap or cover plate closing the lower end of the casing and having one or more inwardly-projecting studs, and securing-pins, each engaging one of said studs and passing through one side only of the casing, substantially as specified.

13. The combination, in a padlock, of a seamless sheet-metal casing open at both ends, a body structure adapted thereto and having at one end a plate overlapping the upper end of the casing and at the other end one or more studs, a cap or cover plate closing the lower end of the casing and having one or more inwardly-projecting studs, which abut against those of the body structure, and securing-pins, each engaging one of said studs and passing through one side only of the casing, substantially as specified.

14. The combination, in a padlock, of a seamless sheet-metal casing open at both ends, a body structure adapted thereto and having at one end a plate overlapping the upper end of the casing and at the other end a pair of studs disposed at diagonally opposite corners, a cap or cover plate closing the lower end of the casing and having a pair of inwardly-projecting studs, likewise at diagonally opposite corners and abutting against the studs of the body structure, and

securing-pins, each engaging one of said studs and passing through one side only of the casing, substantially as specified.

15. The combination, in a padlock, of a
5 seamless sheet-metal casing open at both
ends, a body structure adapted thereto and
having at one end a plate overlapping the
top of the casing and at the other end one or
more partly-bored studs, a cap or cover plate
10 closing the lower end of the casing and hav-
ing one or more inwardly-projecting and
partly-bored studs, and securing-pins each en-
gaging one of said studs and passing through
one side only of the casing, substantially as
15 specified.

16. The combination, in a padlock, of a
seamless sheet-metal casing open at both
ends, a body structure adapted thereto and
having at one end a plate overlapping the
20 top of the casing and at the other end one or
more partly-bored studs, a cap or cover plate
closing the lower end of the casing and hav-
ing one or more inwardly-projecting and
partly-bored studs which abut against those
25 of the body structure, and securing-pins each

engaging one of said studs and passing
through one side only of the casing, substan-
tially as specified.

17. The combination, in a padlock, of a
seamless sheet-metal casing open at both 30
ends, a body structure adapted thereto and
having at one end a plate overlapping the
top of the casing and at the other end a pair
of partly-bored studs disposed at diagonally
opposite corners of the body structure, a cap 35
or cover plate closing the lower end of the
casing and having a pair of inwardly-pro-
jecting and partly-bored studs likewise at
diagonally opposite corners and abutting
40 against the studs of the body structure and
securing-pins each engaging one of said studs
and passing through one side only of the cas-
ing, substantially as specified.

In testimony whereof I have signed my
name to this specification in the presence of 45
two subscribing witnesses.

FRANK SOLEY.

Witnesses:

FRED. W. CASSIDY,
WM. C. GREER.