

(No Model.)

T. D. SCRUGGS.
PERMUTATION PADLOCK.

No. 557,155.

Patented Mar. 31, 1896.

Fig. 1

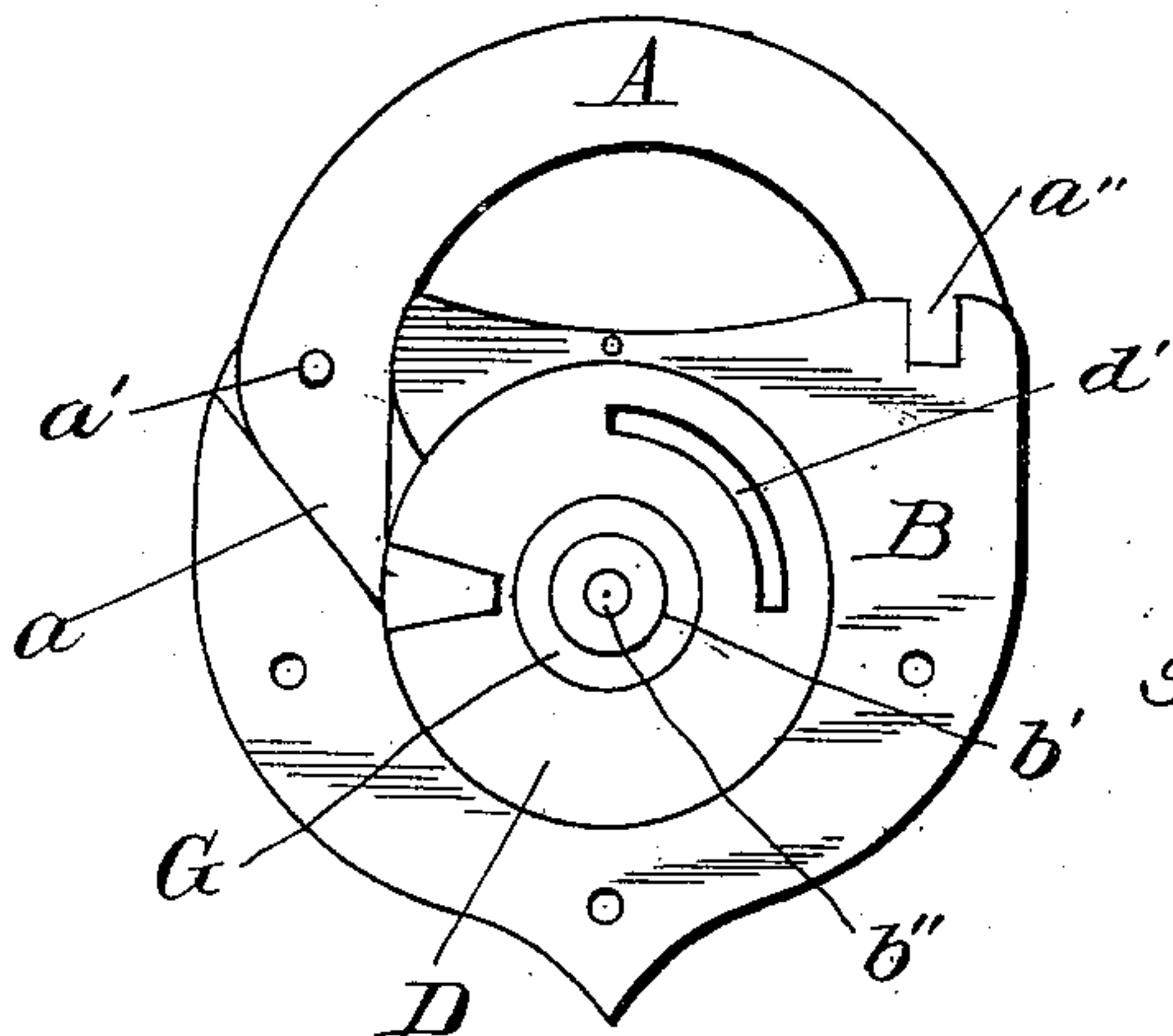


Fig. 2

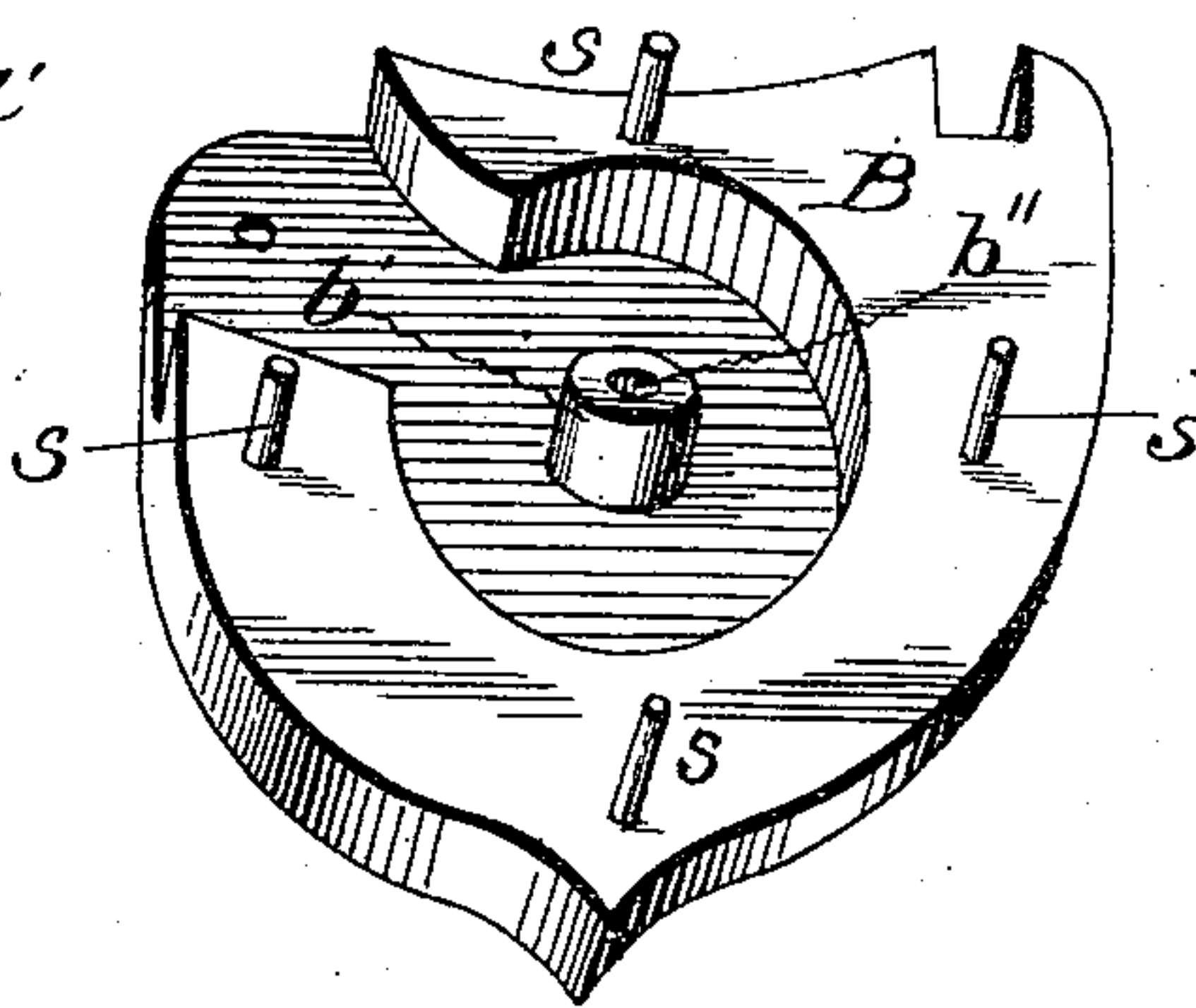


Fig. 3

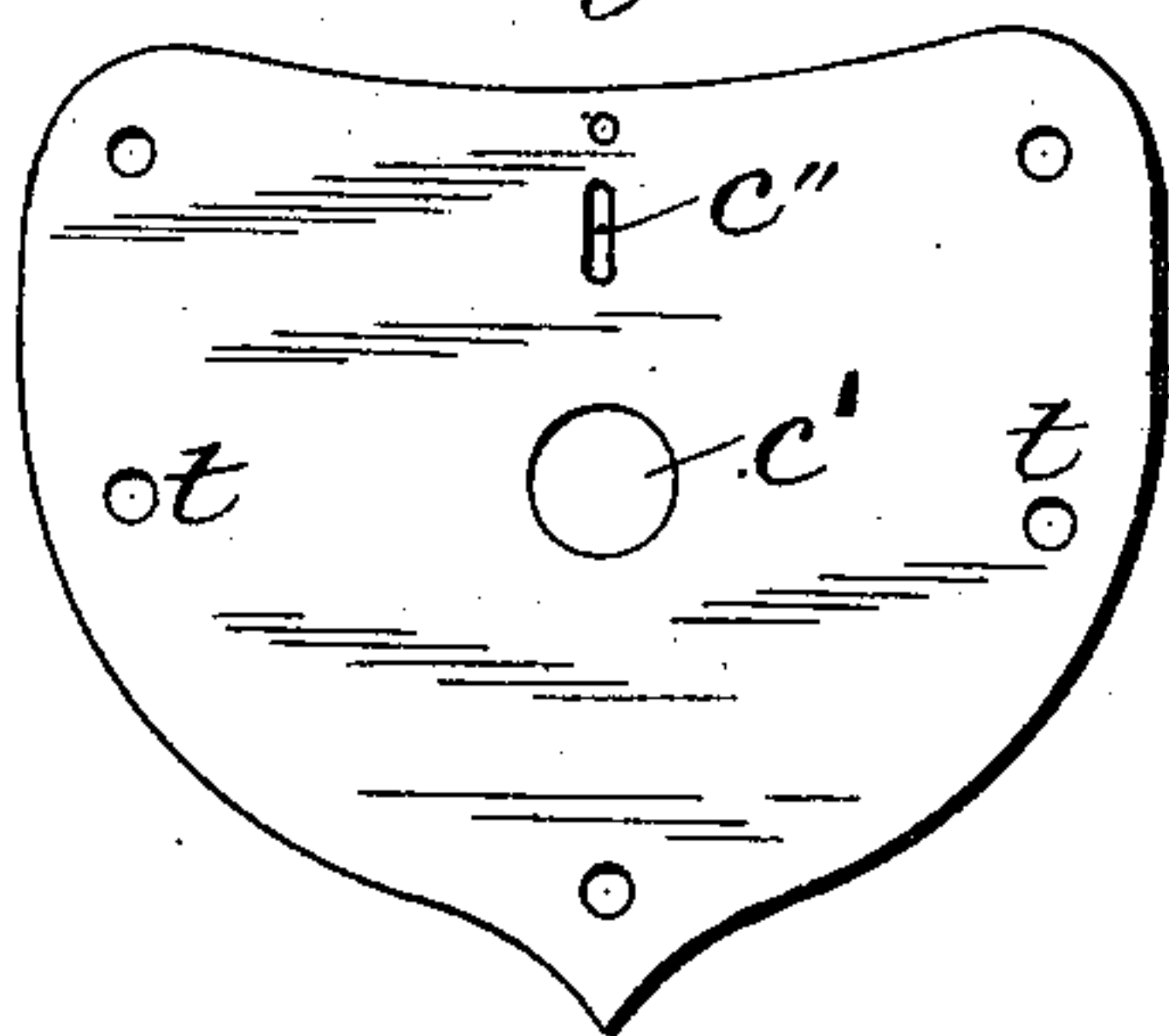


Fig. 4

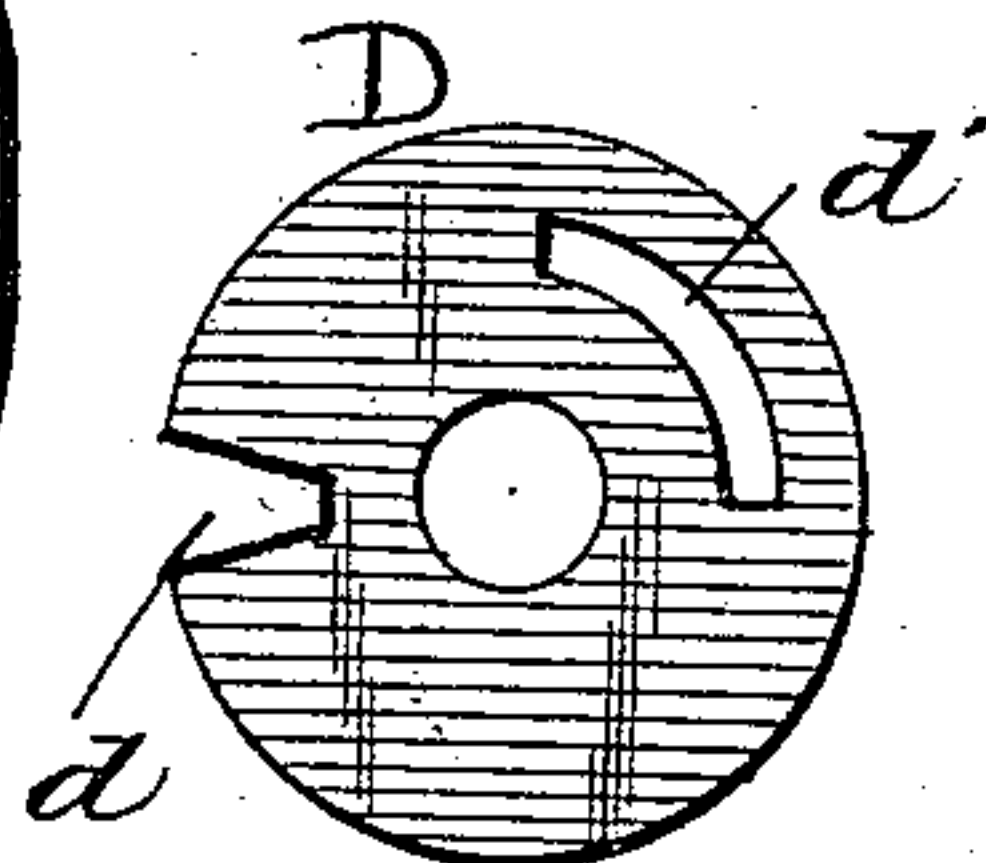


Fig. 5.

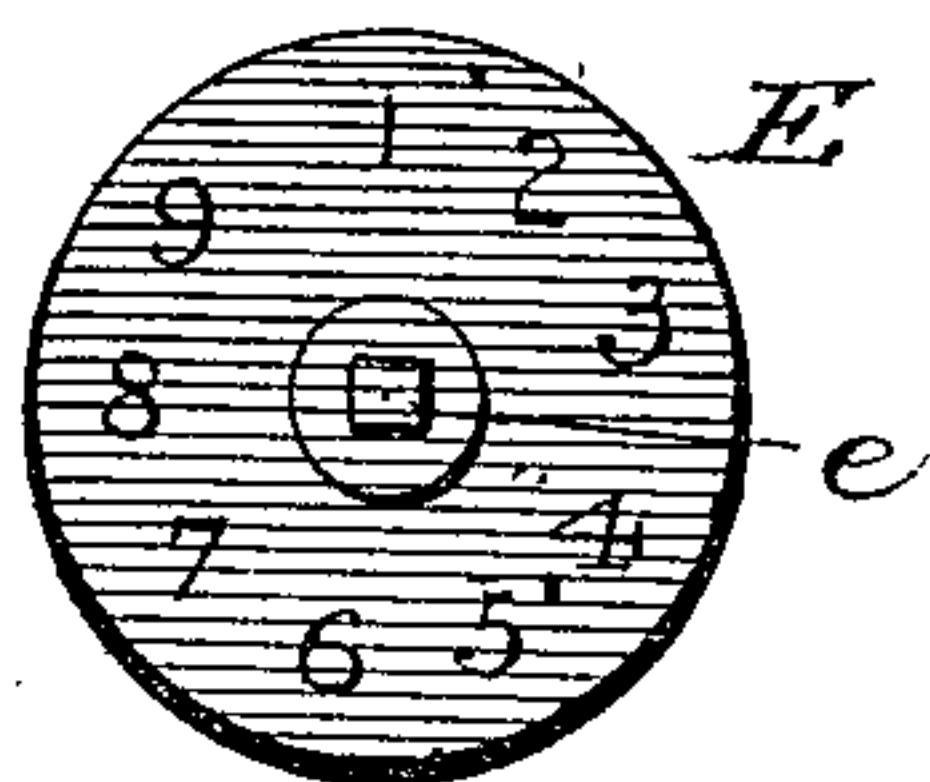


Fig. 6

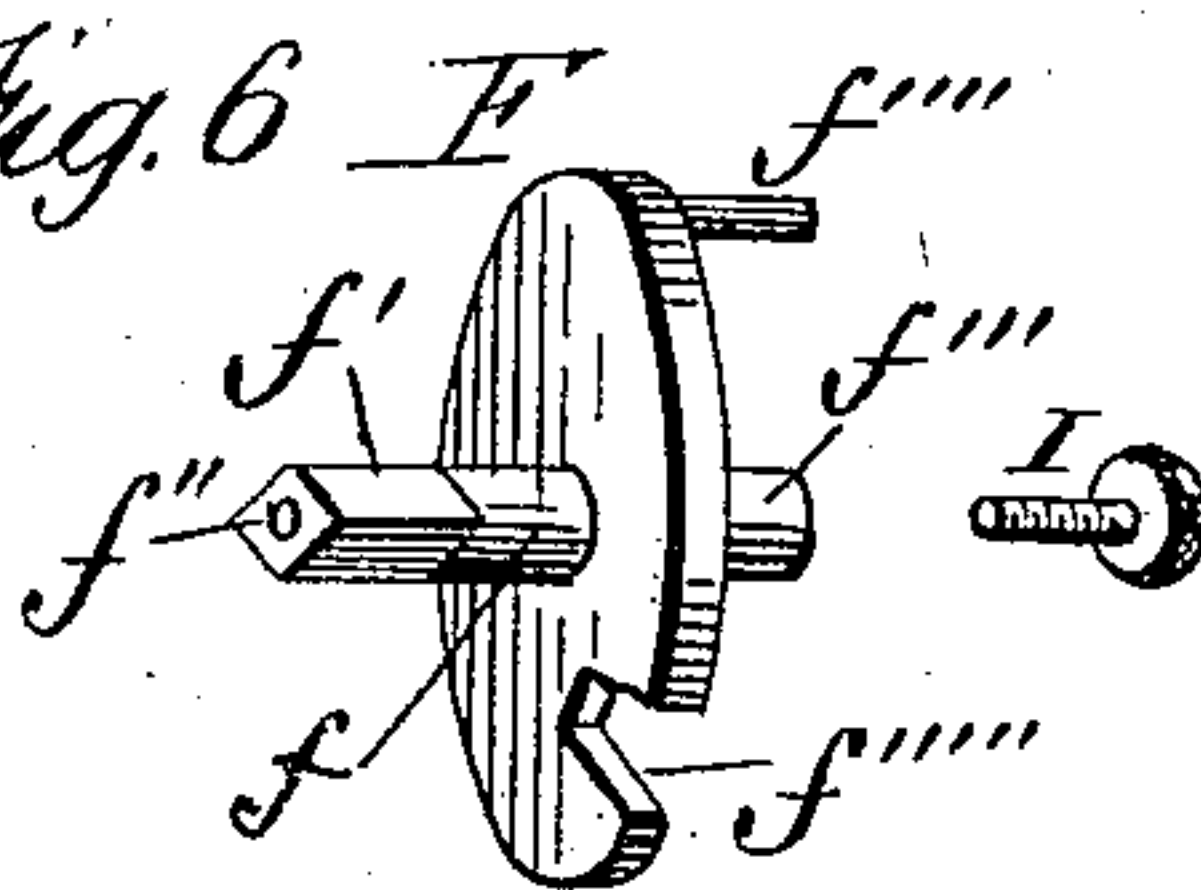
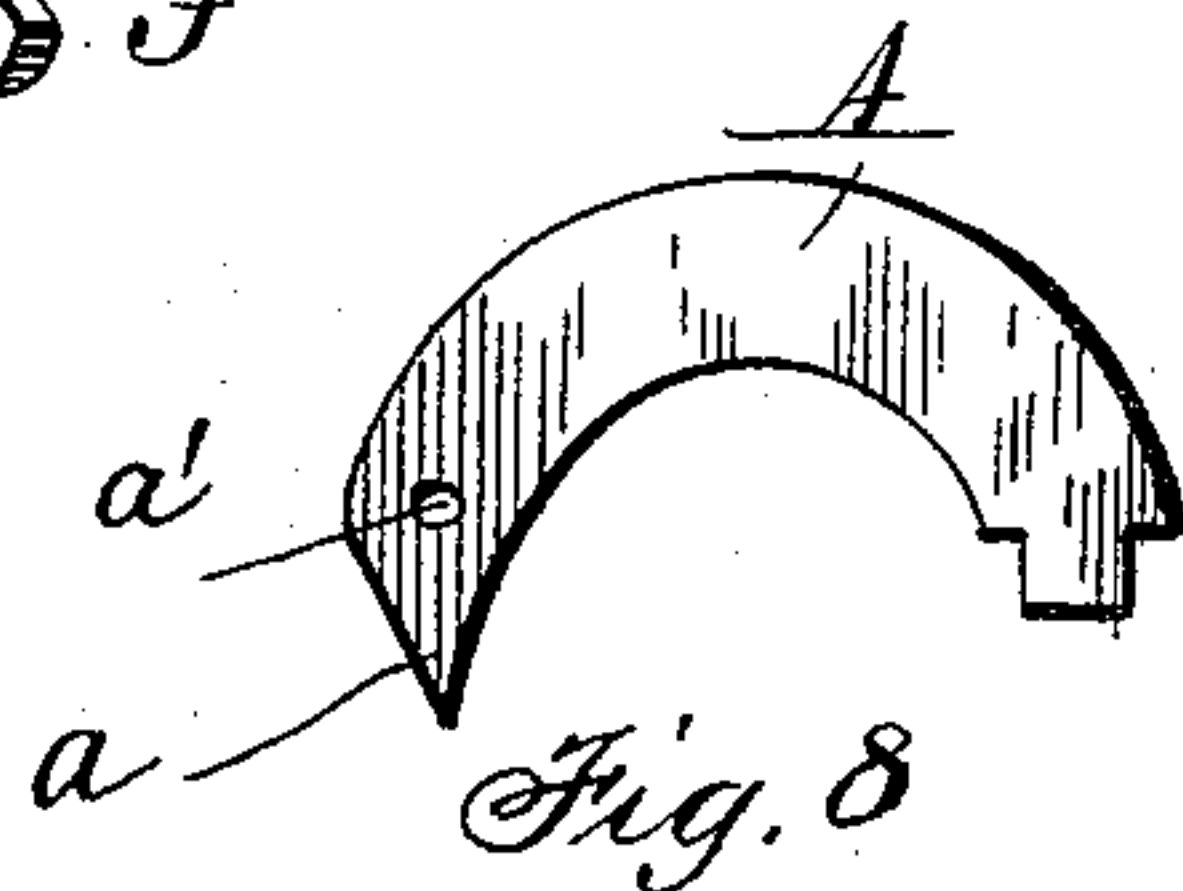
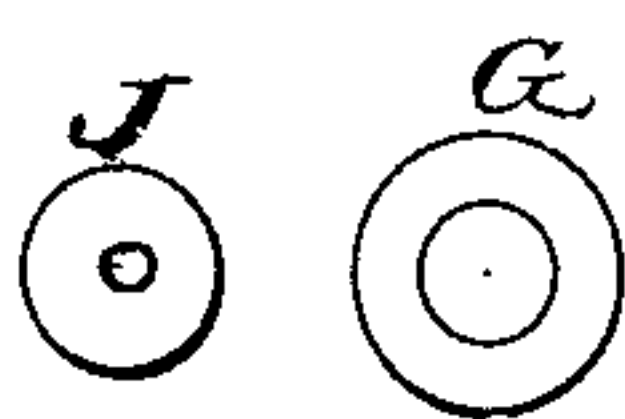


Fig. 7.



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UNITED STATES PATENT OFFICE.

THOMAS D. SCRUGGS, OF FLORENCE, ALABAMA.

PERMUTATION-PADLOCK.

SPECIFICATION forming part of Letters Patent No. 557,155, dated March 31, 1896.

Application filed October 6, 1894. Serial No. 525,157. (No model.)

To all whom it may concern:

Be it known that I, THOMAS D. SCRUGGS, a citizen of the United States, residing at Florence, in the county of Lauderdale, State of Alabama, have invented a new and useful Improvement in Combination-Locks, of which the following is a full, clear, and exact description.

This invention relates to an improved padlock; and it consists of the construction, arrangement, and combination of parts, all as hereinafter described and claimed.

The object of the invention is to provide a simple and reliable combination-padlock having changes of combination. This I accomplish by means of a new combination of a lever-hasp, in connection with disks or tumblers having radial slots, one of which tumblers is made with a spindle integral with it, solely for the purpose of securing a means of changing combination on the outside.

Reference is to be had to the drawings accompanying and forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a view of case with hasp A in locked position and showing tumbler D in alinement on center-post b' . Fig. 2 is the lock-case, with center-post b' , having in its upper part the socket b'' for the shorter spindle f''' of tumbler F, Fig. 6. Fig. 3 is the front plate or cover of the lock-case. Fig. 4 is one of the tumblers, having a radial slot d and groove or slot d' . Fig. 6 is the other tumbler, (the lock in this case having but two,) having a radial slot f'''' and a lug or pin f''' , also having a spindle with a square part f' , which spindle may be made integral with the tumbler or otherwise immovably secured to it, as shown in this figure. In Fig. 7 G is a washer used to separate the two tumblers D F. The screw I, with a washer J, secures the dial-knob E, Fig. 5, to the square part f' of the spindle or tumbler F. Fig. 8 is the lever-hasps, having a wedge-shaped lift a .

The case B has a center-post b' of the length of the combined thicknesses of the tumbler D and the washer G. Upon this center-post the tumbler D and washer G revolve, as in Fig. 1. The center-post b' has a socket b'' for the reception of the part f'' of spindle of tumbler F, and the part f^3 of spindle of tumbler F is

inserted through opening c' of front plate C, so that the round part f of the spindle may turn in opening c' , the lug f'''' engaging with slot d' of tumbler D. The dial-knob E, with its square aperture e , made to embrace square part f' of spindle of F, is secured thereon by means of a washer J and screw I.

The top C is secured to the case by means of pins $s s s s$, which are riveted after being inserted through holes $t t t t$ of the top C.

The alinement of the radial slots $d f''''$ of the tumblers D and F with the wedge-shaped part a of the lever-hasps A is effected by turning the dial-knob E to the right, when the lug or pin f''' of the tumbler F thereby engages the end of the groove or slot d' of tumbler D, by which means the tumbler D may be revolved far enough to effect the alinement of the radial slot d of tumbler D with the radial slot f'''' of the tumbler F. By turning to the left the slot d of tumbler D is left in alinement with the wedge-shaped lift a of the hasp A, said slot d being so situated upon the periphery as to come into line with the wedge-shaped lift a before lug f'''' reaches the other extremity of slot d' of the other tumbler D.

The two radial slots $d f''''$ being in alinement with the wedge-shaped lift a of lever-hasps A, the hasp may be elevated for opening the lock or depressed for locking it, the tumblers D and F being revolved by the wedge-shaped lift a entering the alined slots $d f''''$. When hasp A is closed, as in Fig. 1, any turn to right or left of the tumblers D or F will throw slots d and f'''' out of alinement, when the wedge-shaped lift a of the hasp will be kept locked by the peripheries of tumblers.

To change the combination, the screw I of the spindle of tumbler F is taken out and the knob-dial E turned relatively one-fourth, one-half, or three-fourths around and replaced upon spindle and again made fast by the screw I in the hole f'' .

Where for any reason the change of combination may be undesirable, the screw I may have the slot by which it is turned filed off after being securely inserted, and the dial-knob E be thus fixed immovably to the spindle of tumbler F.

Having thus fully described my invention, what I desire to secure by Letters Patent is—
The combination with the rear case-plate

provided with a receptacle for the tumblers, and a center-post having a socket for the shorter spindle portion of the tumbler F, the longer part of said spindle portion being rectangular in cross-section at f'' , the tumbler F having the radial slot f'''' and the pin f'''' , the tumbler D having radial slot d and internal curved slot d' , the hasp having the wedge-shaped lift a , the cover-plate or top for holding the parts in place and the dial-plate 10 or indicator-plate, substantially as specified.

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