

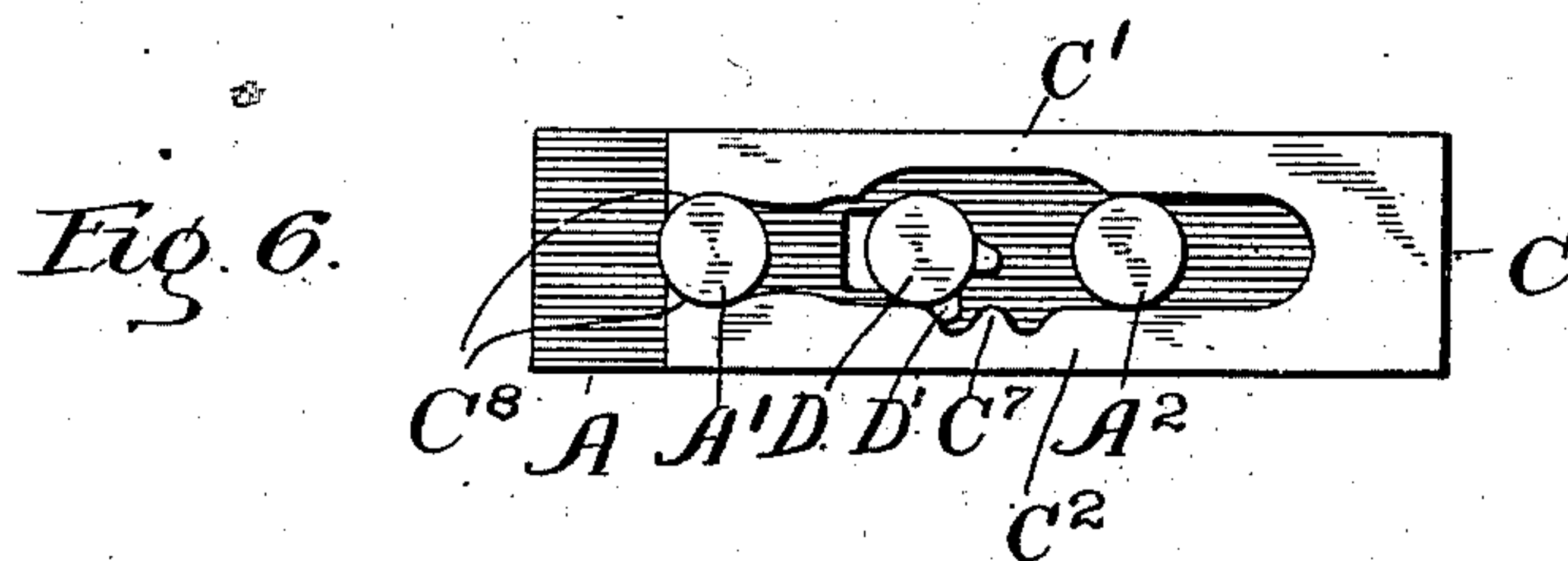
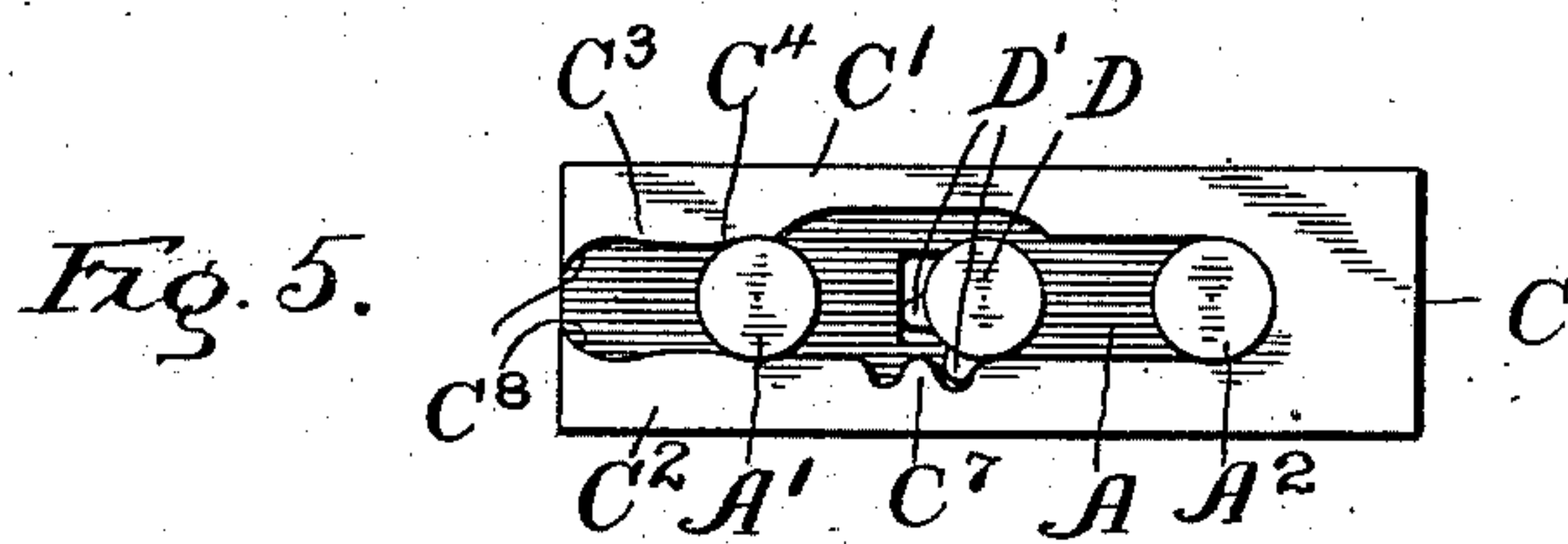
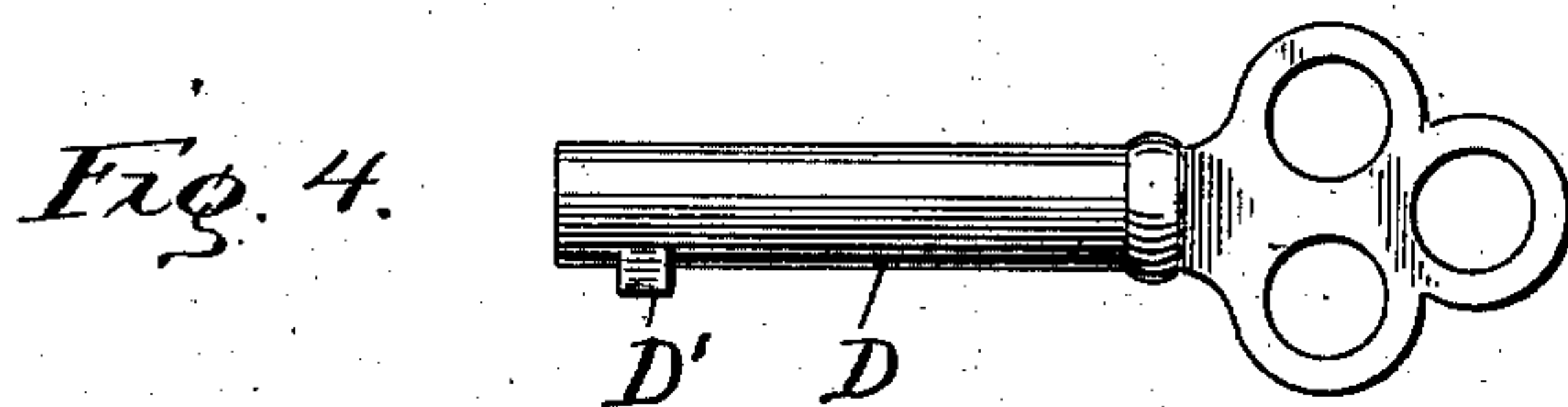
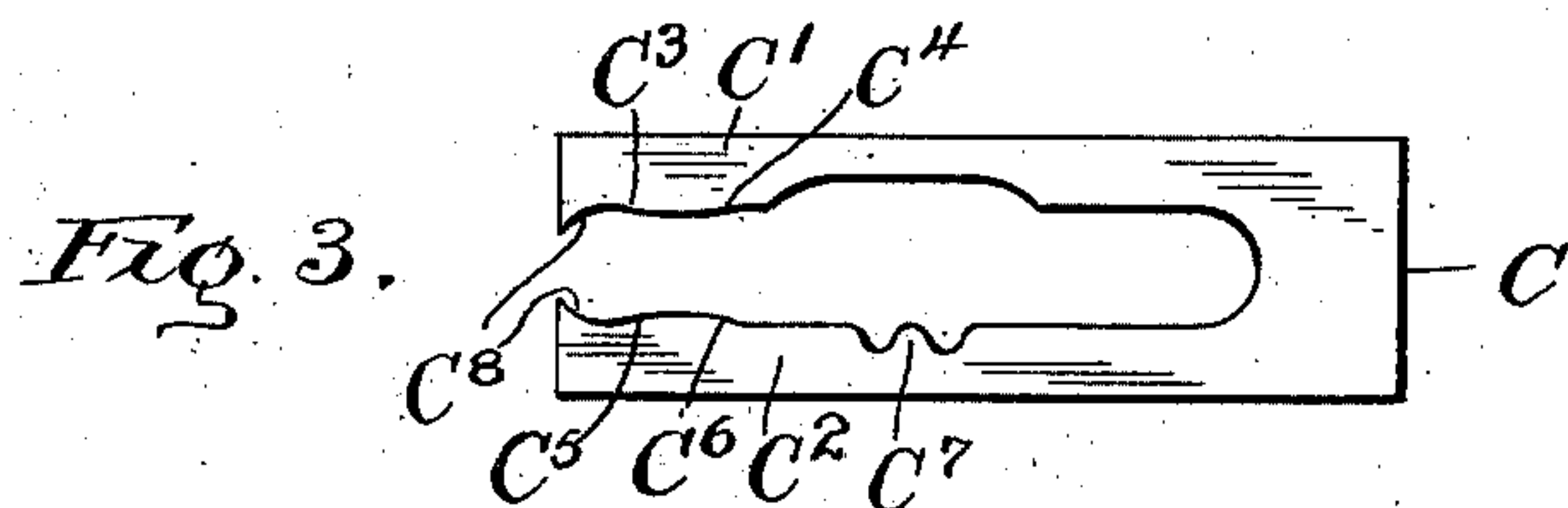
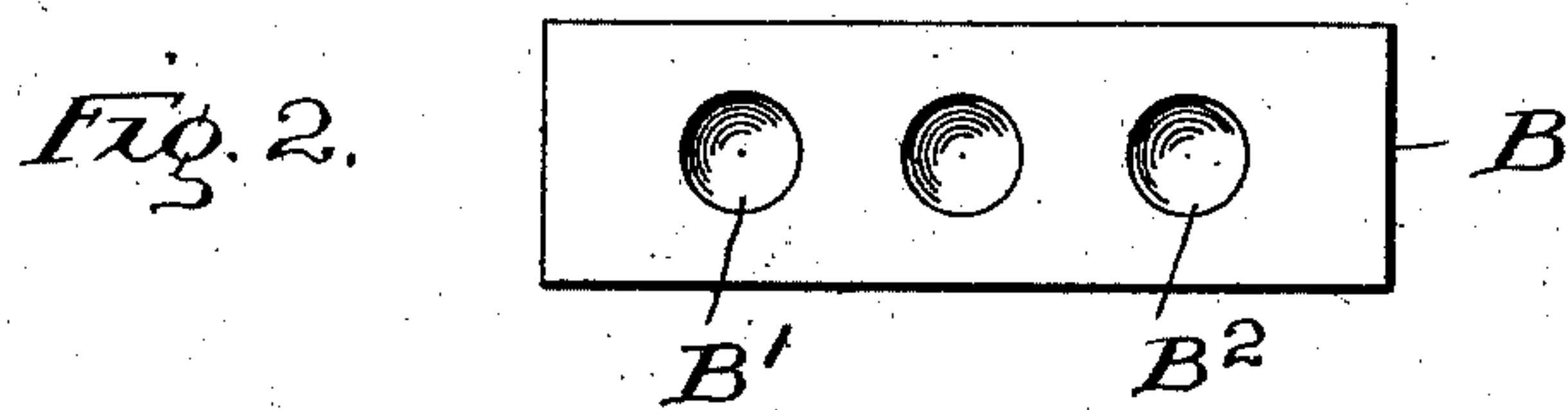
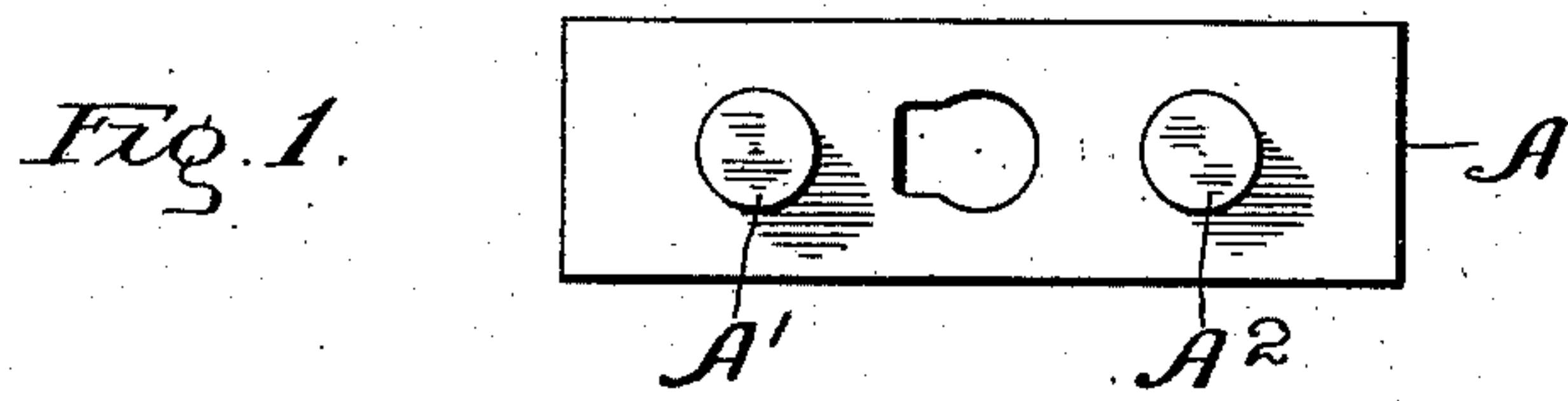
No. 743,475.

PATENTED NOV. 10, 1903.

L. FAUST.
LOCK.

APPLICATION FILED OCT. 20, 1902.

NO MODEL.



Witnesses: Fig. 7.

B C A D

Inventor:
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UNITED STATES PATENT OFFICE.

LEVIN FAUST, OF ROCKFORD, ILLINOIS.

LOCK.

SPECIFICATION forming part of Letters Patent No. 743,475, dated November 10, 1903.

Application filed October 20, 1902. Serial No. 128,054. (No model.)

To all whom it may concern:

Be it known that I, LEVIN FAUST, a citizen of the United States of America, residing at Rockford, in the county of Winnebago and State of Illinois, have invented certain new and useful Improvements in Locks, of which the following is a specification.

My invention relates to the class of locks commonly known in the lock trade as "mortise-locks." Its object is the production of a strong serviceable lock of the simplest and compactest construction possible; and it consists, essentially, of a lock comprising a supporting-base having a bolt-braking lug thereon, of a bolt provided with spring-arms rigidly connected thereto embracing the lug on the supporting-base and adapted to hold the bolt projected through the spring engagement of its arms with said lug.

Referring to the accompanying drawings, which form a part of this specification, Figures 1 and 2 are side views of counterpart plates that form the supporting-base of the lock. Fig. 3 is a like view of the bolt of the lock. Fig. 4 is a side view of the key to the same. Fig. 5 is a view showing the relative positions of the key and bolt as the former is about to throw the latter outward. Fig. 6 is a view showing the relative positions of the key and bolt as the former is about to throw the bolt inward. Fig. 7 is a view of the outer end of the lock.

In constructing my lock I prefer to have the base thereof formed of two pieces that are longitudinal segments of a cylinder and counterparts of each other and to have its bolt of the same length and width as and interposed between the two pieces composing the base, so that the completed lock will be cylindrical in transverse section, as indicated in the drawings. The above-described form and arrangement of parts, however, may obviously be varied without departing from the spirit and scope of my invention. I therefore do not wish to be understood as intending to limit the scope thereof to a lock having the precise form and arrangement of parts hereinbefore mentioned.

Like letters of reference indicate corresponding parts throughout the several views.

A and B are two plates of metal in form longitudinal segments of a cylinder and coun-

terparts of each other. The plate A has a transverse bolt-braking lug or bearing A', which projects and fits somewhat tightly into a corresponding socket B' in the plate B and serves to secure the plates A and B together to form the supporting-base of the lock. A second transverse lug A², extending from the plate A into a corresponding socket B² in the plate B, may also be employed, if so desired; but it has no special functions beyond aiding in securely connecting the parts composing the base and the bolt of the lock together before it is seated in its mortise preparatory to use and serving to stop the travel of the bolt inward in case the lock-mortise should chance to be bored too deep.

C is a bolt having the same length and width as the plates A and B, composing the supporting-base of the lock. The bolt C is so furcated as to bestride and frictionally contact the bolt-braking lug or bearing A' in the lock-base, the inner edges of the furcations C' and C² thereof approaching each other—say between the points C³ and C⁴ and C⁵ and C⁶ thereon—so as to cause such furcations to act as springs and press inward against the lug A' sufficiently to brake and thereby control the bolt C. To the same end separate springs are generally employed in other locks. The furcation C² has a rack C⁷ on its inner edge whereby to longitudinally reciprocate the bolt C against the frictional resistance between the same and the bolt-braking lug A'.

C⁸ represents stops on the bolt C to control its outward throw.

D is a key provided with a plurality of radial bits D', adapted to engage the rack C⁷ on the furcated bolt C and therethrough longitudinally reciprocate the same.

What I claim as new, and desire to secure by Letters Patent, is—

1. In a lock, the combination of a supporting-base having a bolt-braking lug thereon, of a bolt provided with spring-arms rigidly connected thereto embracing the lug on the supporting-base, and adapted to hold the bolt, projected, through the spring engagement of its arms with said lug.

2. In a lock, in combination, a supporting-base having a bolt-braking lug therein, a fur-

cated bolt, having a rack on the inner edge of one furcation thereof and bestriding and frictionally contacting the bolt-braking lug, a key provided with a plurality of radial bits adapted to engage the rack, on the furcated bolt, and therethrough longitudinally reciprocate such bolt against the frictional resistance between the same and the bolt-braking lug, substantially as and for the purpose specified.

3. In a lock, in combination, a two-part supporting-base, a bolt of the same length and width as and included between the parts of the base, and connecting means, between the parts of the base, frictionally contacting and controlling the bolt, the supporting-base and bolt taken together being cylindrical in transverse section, substantially as and for the purpose specified.

4. In a lock, in combination, the support-

ing-base, composed of the parts A and B, the former being provided with the bolt-braking lug A' and stop and connecting lug A² and the latter with corresponding engaging sockets B' and B², the furcated bolt C, having a rack C' on the inner edge of one furcation thereof and bestriding and frictionally contacting the bolt-braking lug A', a key provided with a plurality of radial bits adapted to engage the rack C', on the furcated bolt C, and therethrough operate such bolt, substantially as and for the purpose specified.

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

LEVIN FAUST.

Witnesses:

L. L. MORRISON,
NELLIE BUNKER.