

(No Model.)

J. H. & T. D. MORRIS.

COMBINATION LOCK.

No. 349,168.

Patented Sept. 14, 1886.

Fig. 1.

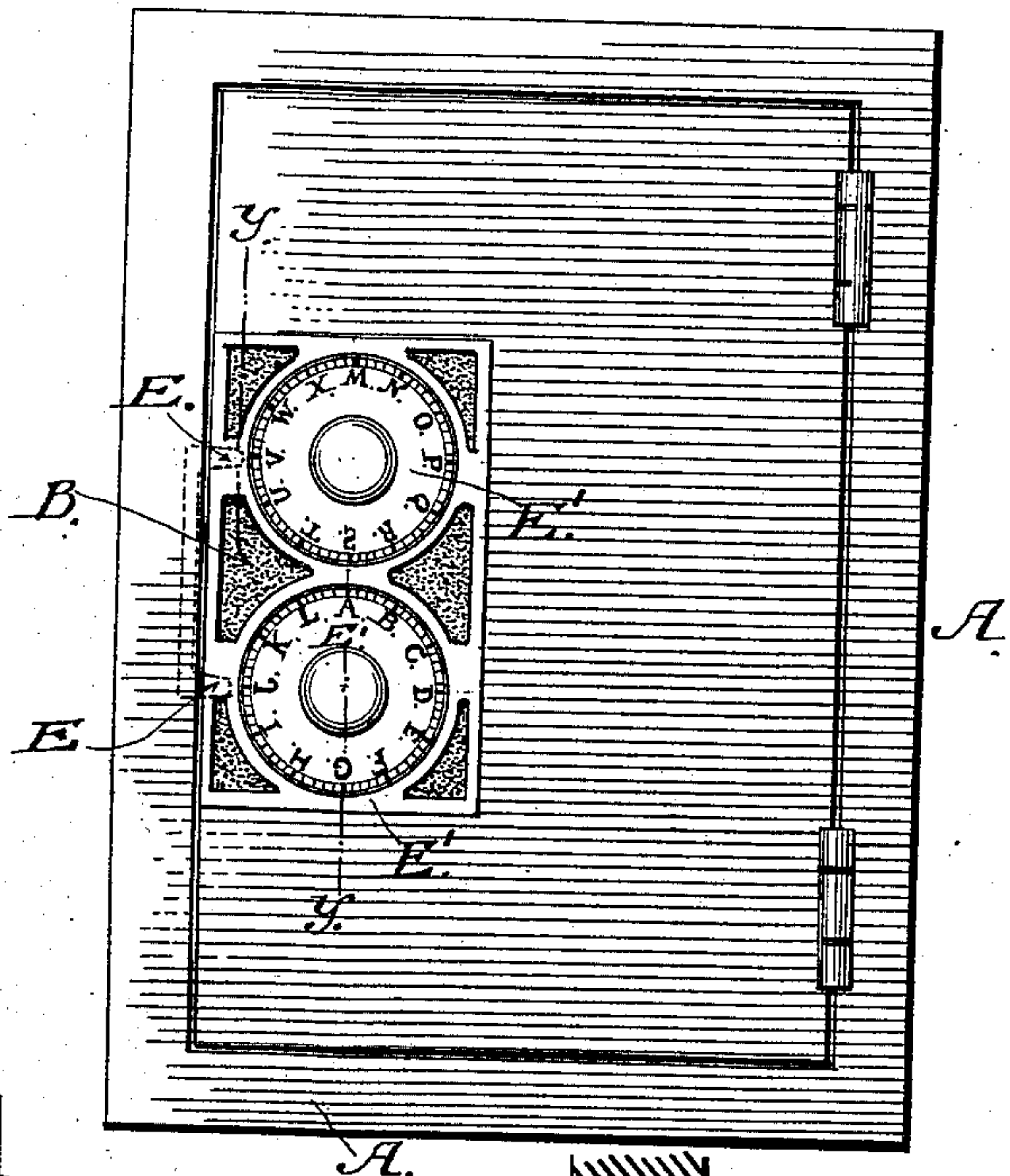


Fig. 2.

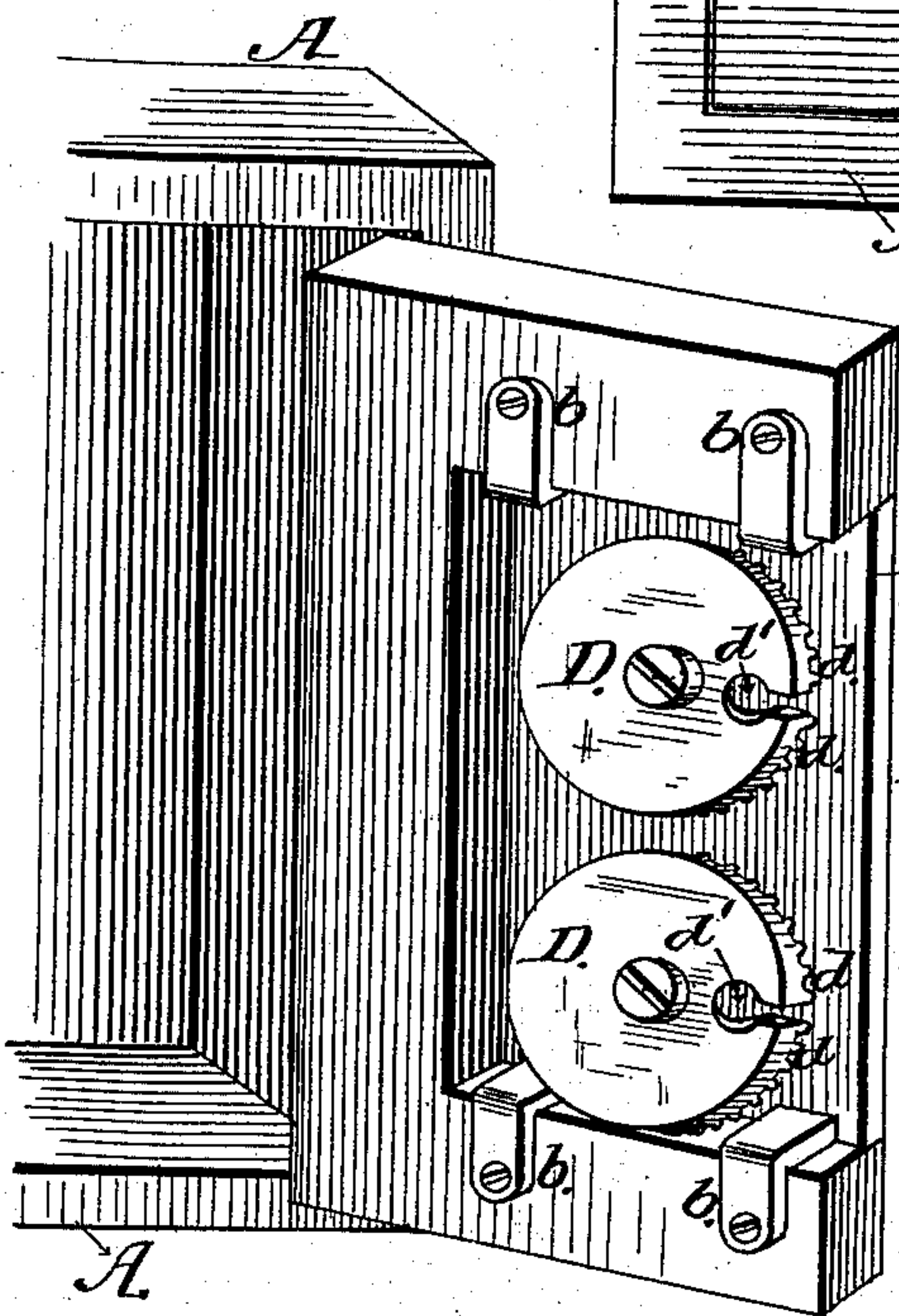


Fig. 3.

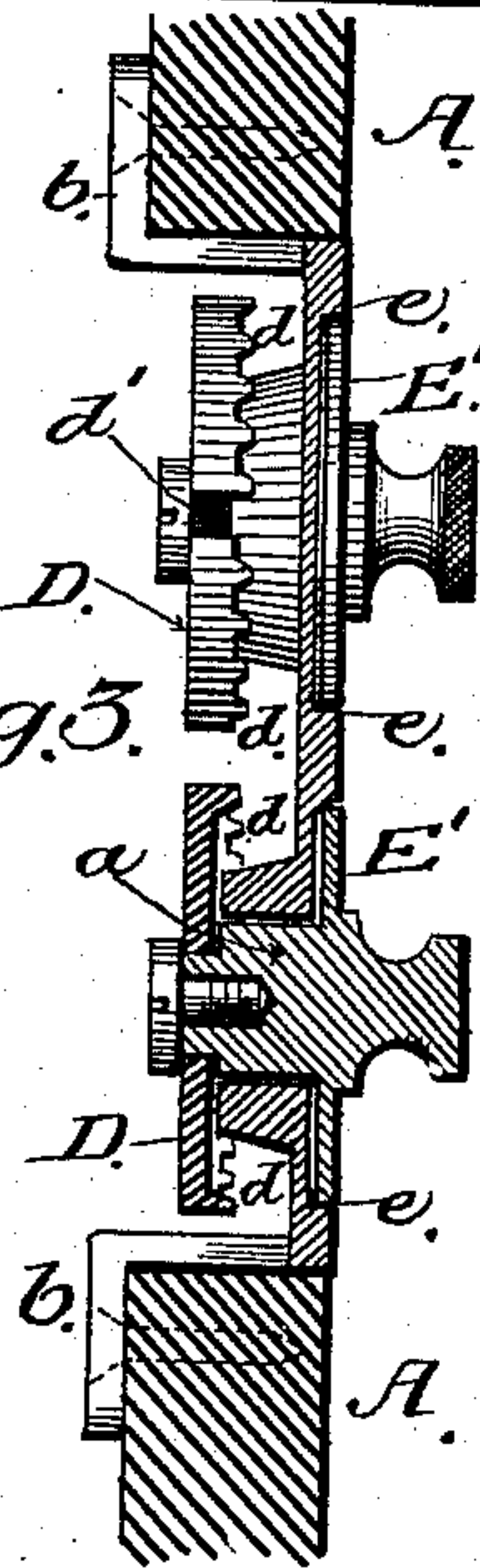
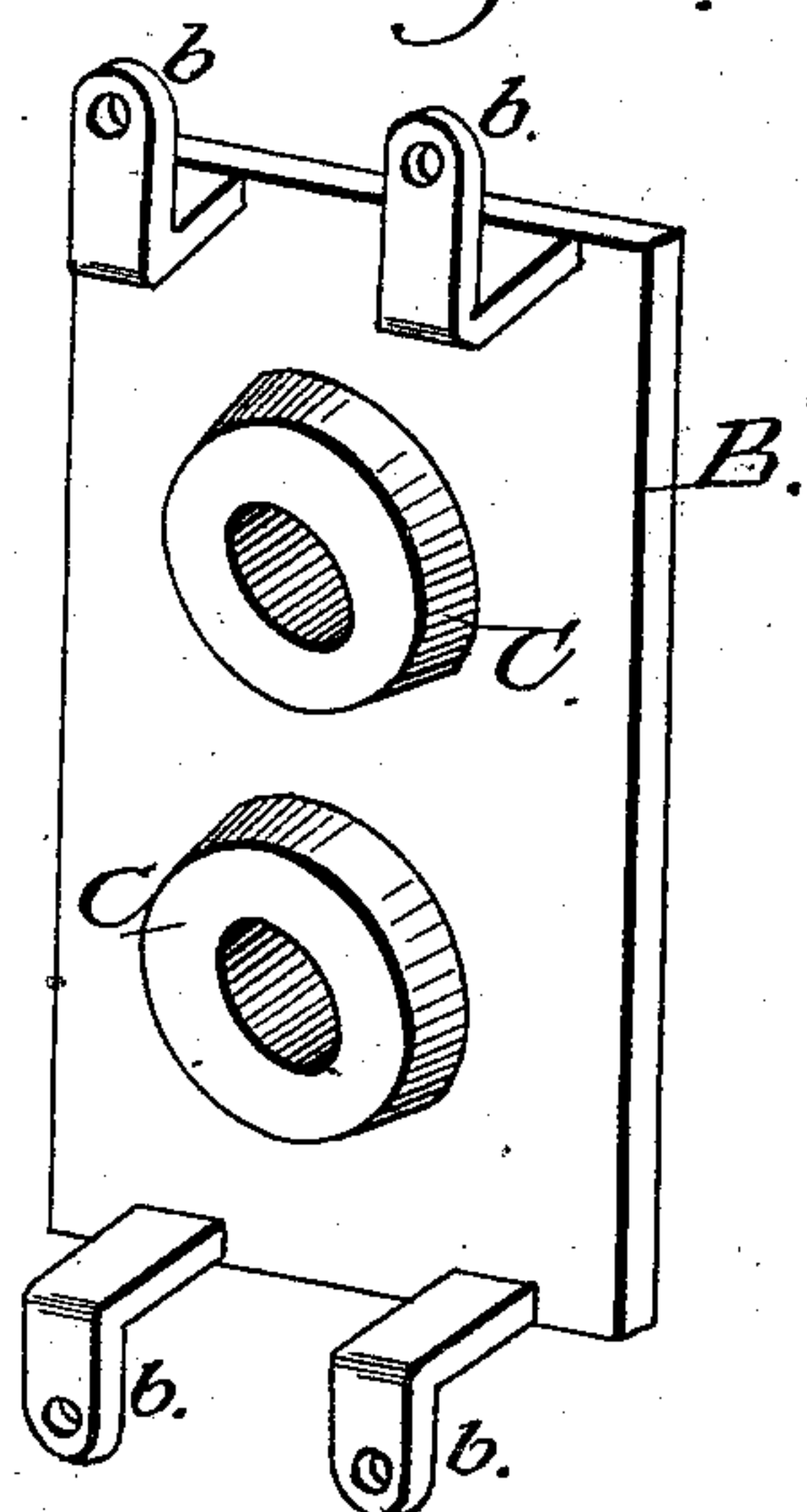


Fig. 4.



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# UNITED STATES PATENT OFFICE.

JOHN H. MORRIS AND THOMAS D. MORRIS, OF SEWARD, NEBRASKA.

## COMBINATION-LOCK.

SPECIFICATION forming part of Letters Patent No. 349,168, dated September 14, 1886.

Application filed April 15, 1886. Serial No. 198,897. (No model.)

*To all whom it may concern:*

Be it known that we, JOHN H. MORRIS and THOMAS D. MORRIS, of Seward, in the county of Seward and State of Nebraska, have invented a new and useful Improvement in Combination-Locks, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a front view of a cabinet with our improved lock attached. Fig. 2 is a perspective view of the inside of the door. Fig. 3 is a section on the line *y y* of Fig. 1. Fig. 4 is a detached view of the body or main plate of the lock.

Our present invention relates to a class of locks which depend upon a combination of figures or letters in order to be released or unfastened; and it consists in the combination and arrangement of devices hereinafter described and claimed.

To enable others skilled in the art to make and use our invention, we will proceed to describe the exact manner in which we have carried it out.

In the drawings, A represents a cabinet with our improved lock attached thereto. B represents the body or main plate of the lock, which is let into the wood flush with the face of the door, where it is secured in position by the four arms *b*, cast integral with the plate, as shown in Figs. 2 and 4. On the inner side of this main plate are cast integral therewith the hollow lugs or hubs C C, through which pass the spindles *a a*, for operating the locking-plates D D. These hubs furnish bearings

for the spindles, while at the same time they throw the locking-plates far enough from the main plate to allow the catches E E (see dotted lines, Fig. 1) to pass freely between the main plate and the cogs *d* on the inner side of the locking-plates. The front face of the main plate is countersunk, as shown at *e* in Fig. 3, to receive the dials E' E', and hold them flush with the face of the plate. This plate can be ornamented to any desired extent, and may be made very attractive and handsome.

The object of the cogs on the inner surface of the locking-plates is to defeat any effort to discover the combination by gently moving the plates around to detect the slots *d'*, through which the catches E pass.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

In a combination-lock, the body or main plate B, provided with the arms *b* and elongated hollow hubs C C, cast integral therewith, in combination with the spindles *a a*, locking-plates D D, and dials E' E', all constructed to operate substantially as and for the purpose set forth.

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