

No. 778,018.

PATENTED DEC. 20, 1904.

F. DUESTERWALD.
LOCKING DEVICE FOR PERMUTATION LOCKS.
APPLICATION FILED MAY 6, 1904.

NO MODEL.

Fig. 1. *A*

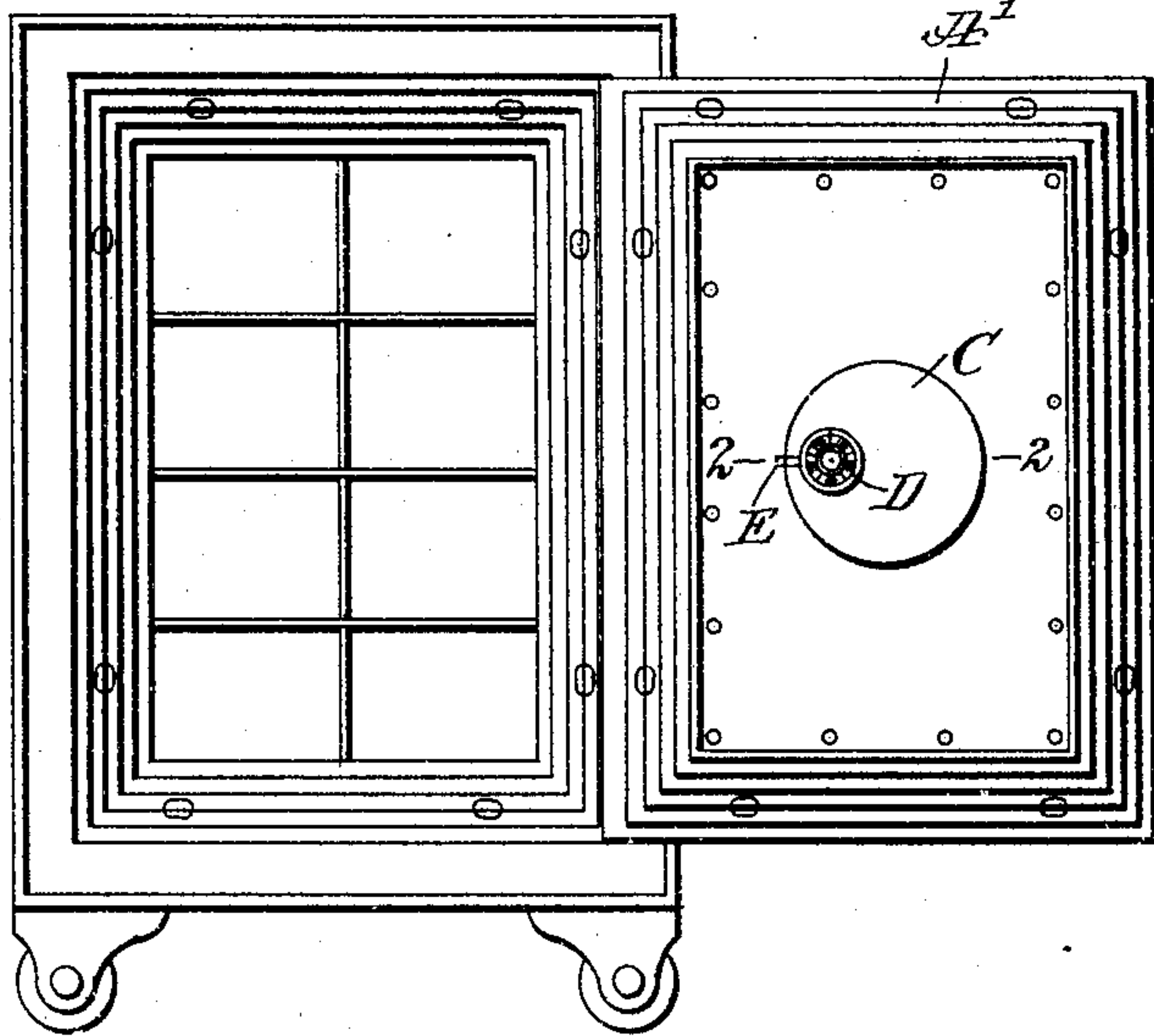


Fig. 3.

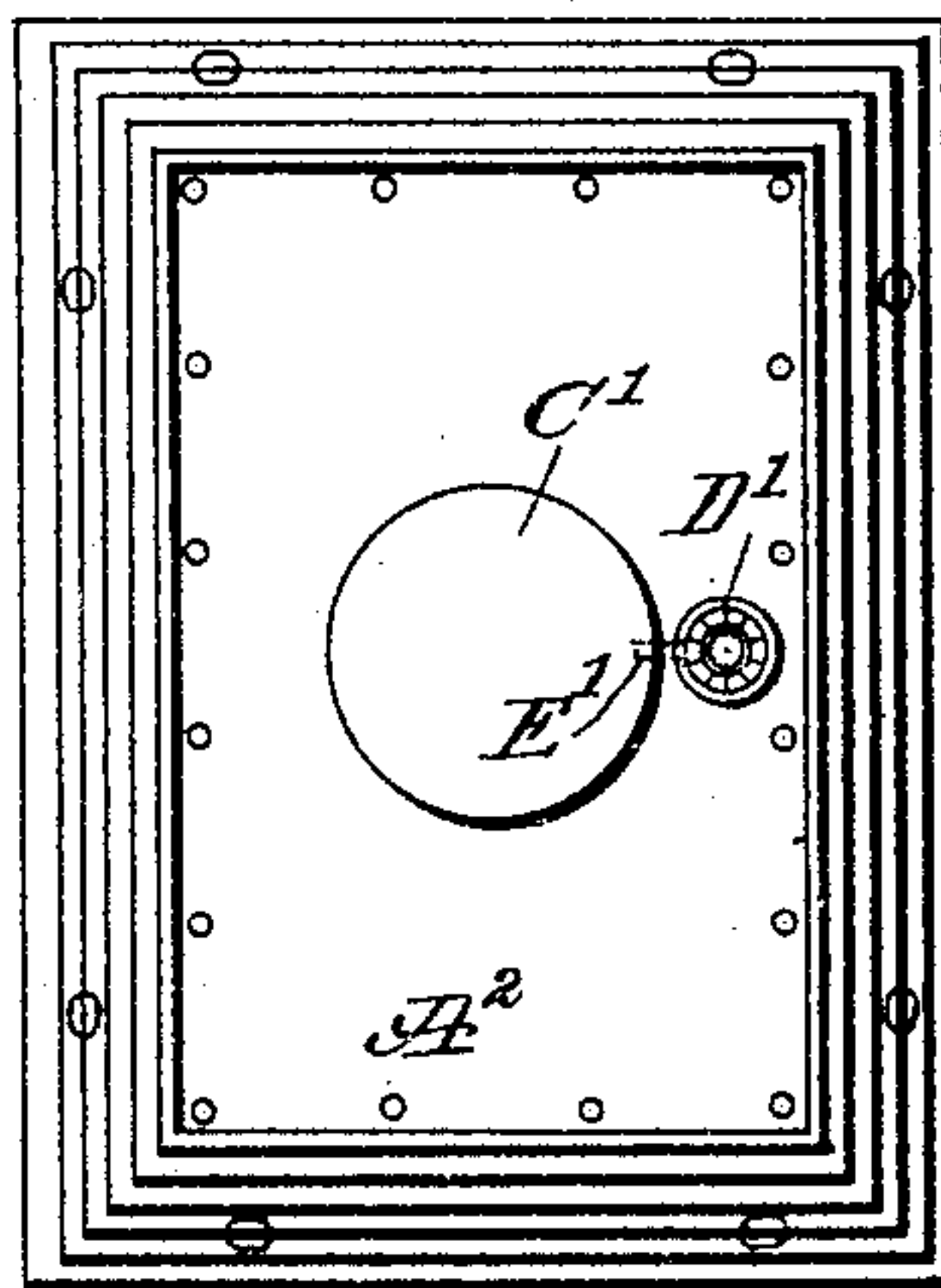


Fig. 4.

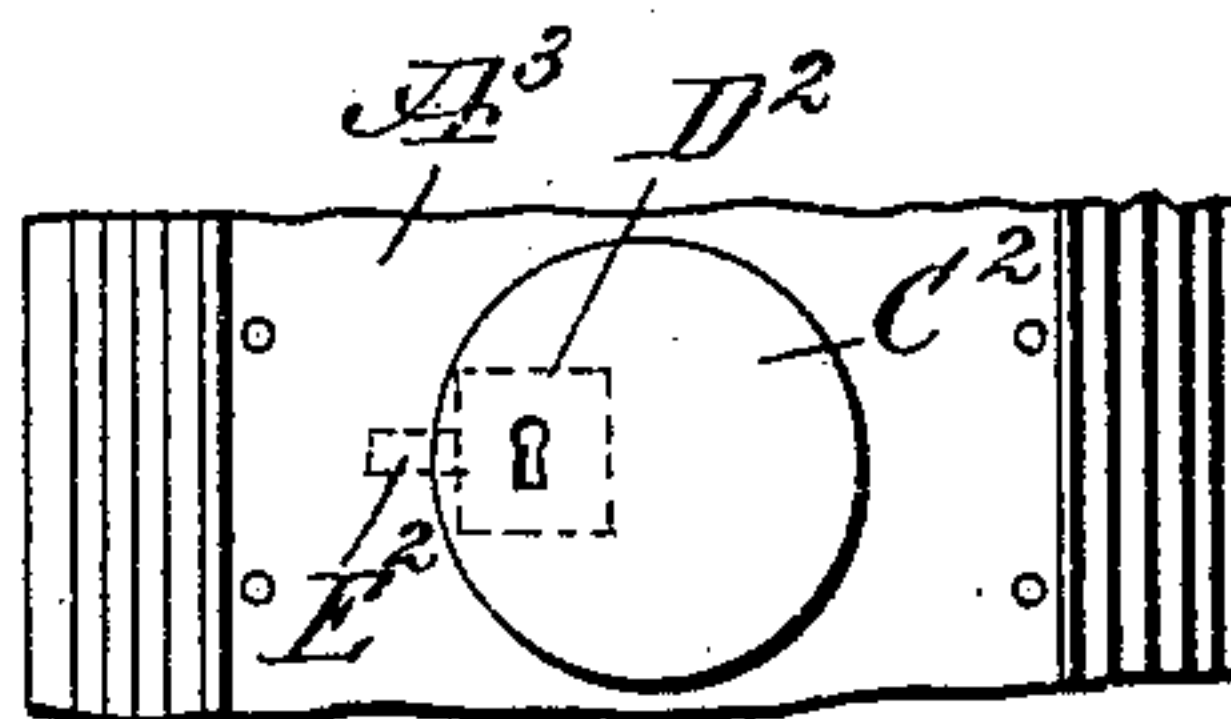


Fig. 5. *A*⁴

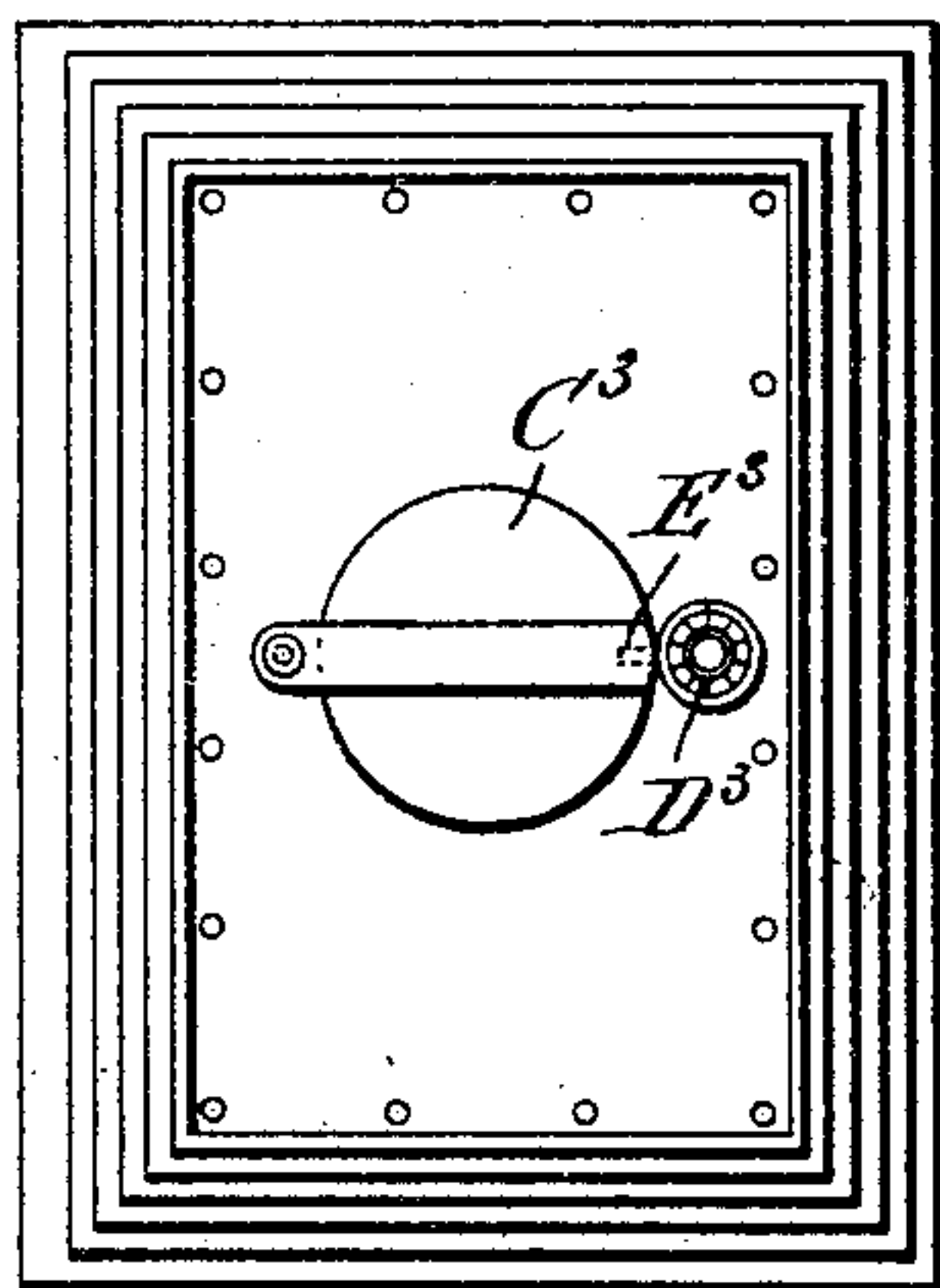


Fig. 6. *A*⁵

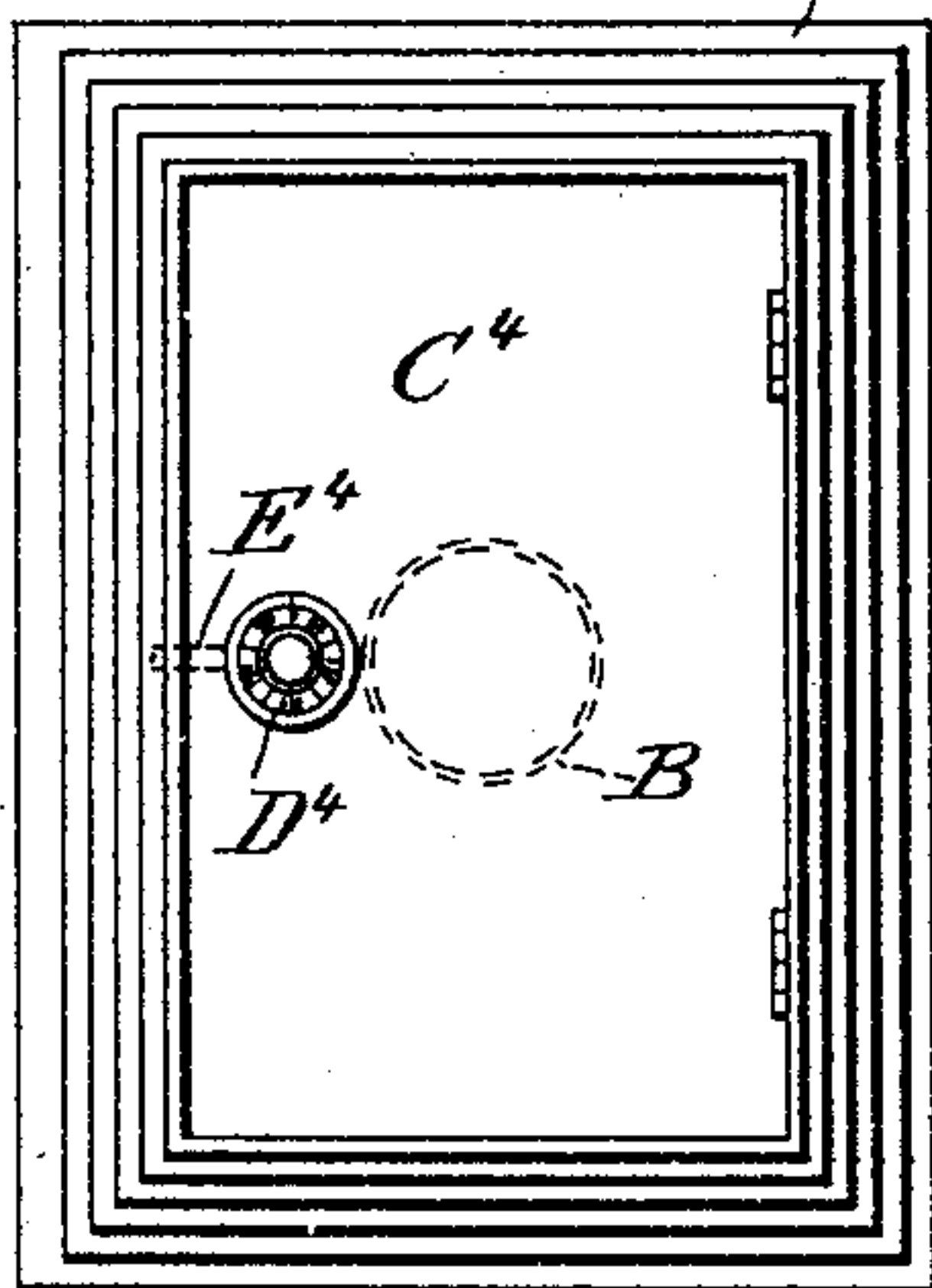


Fig. 7. *A*⁷

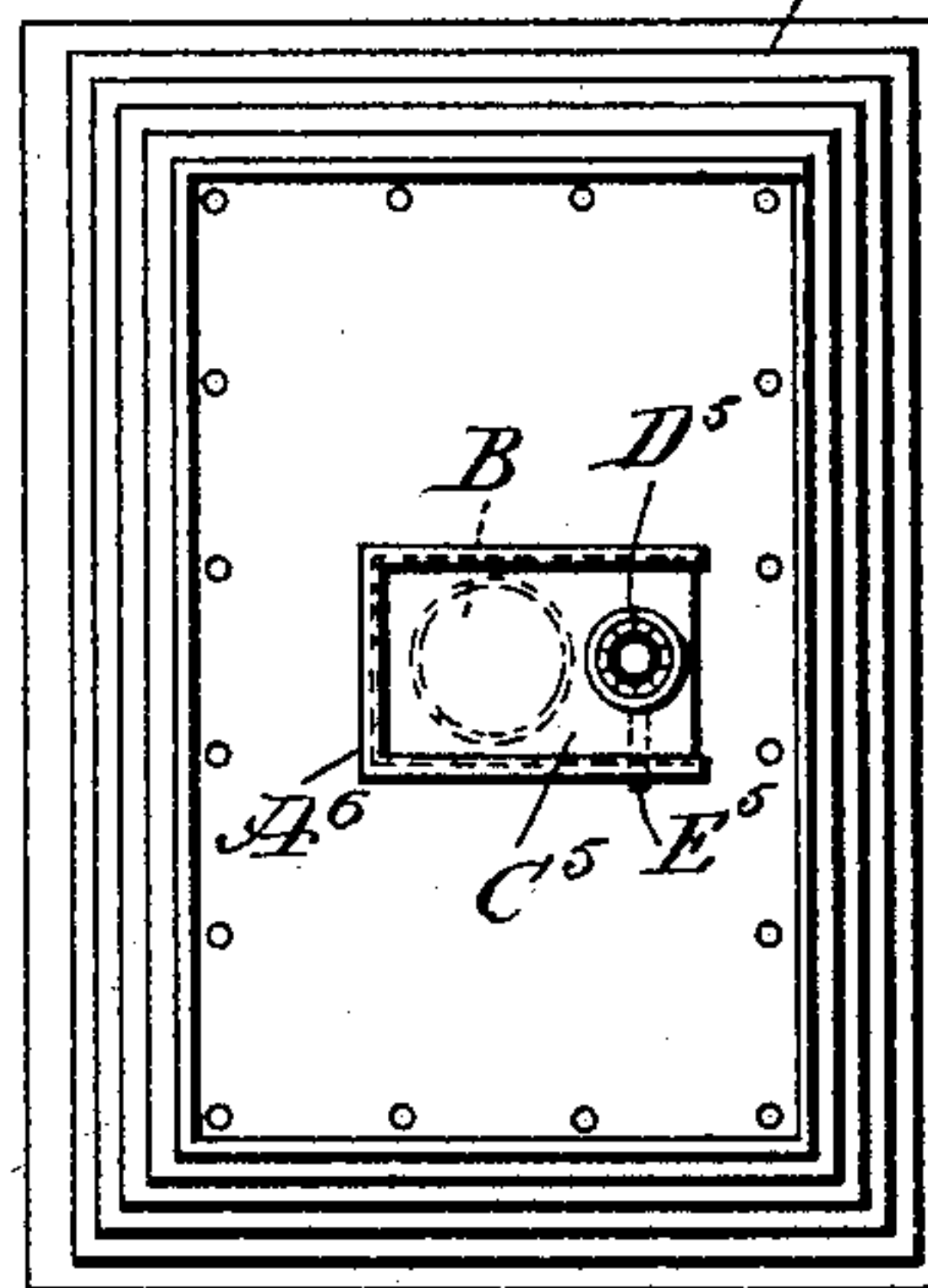
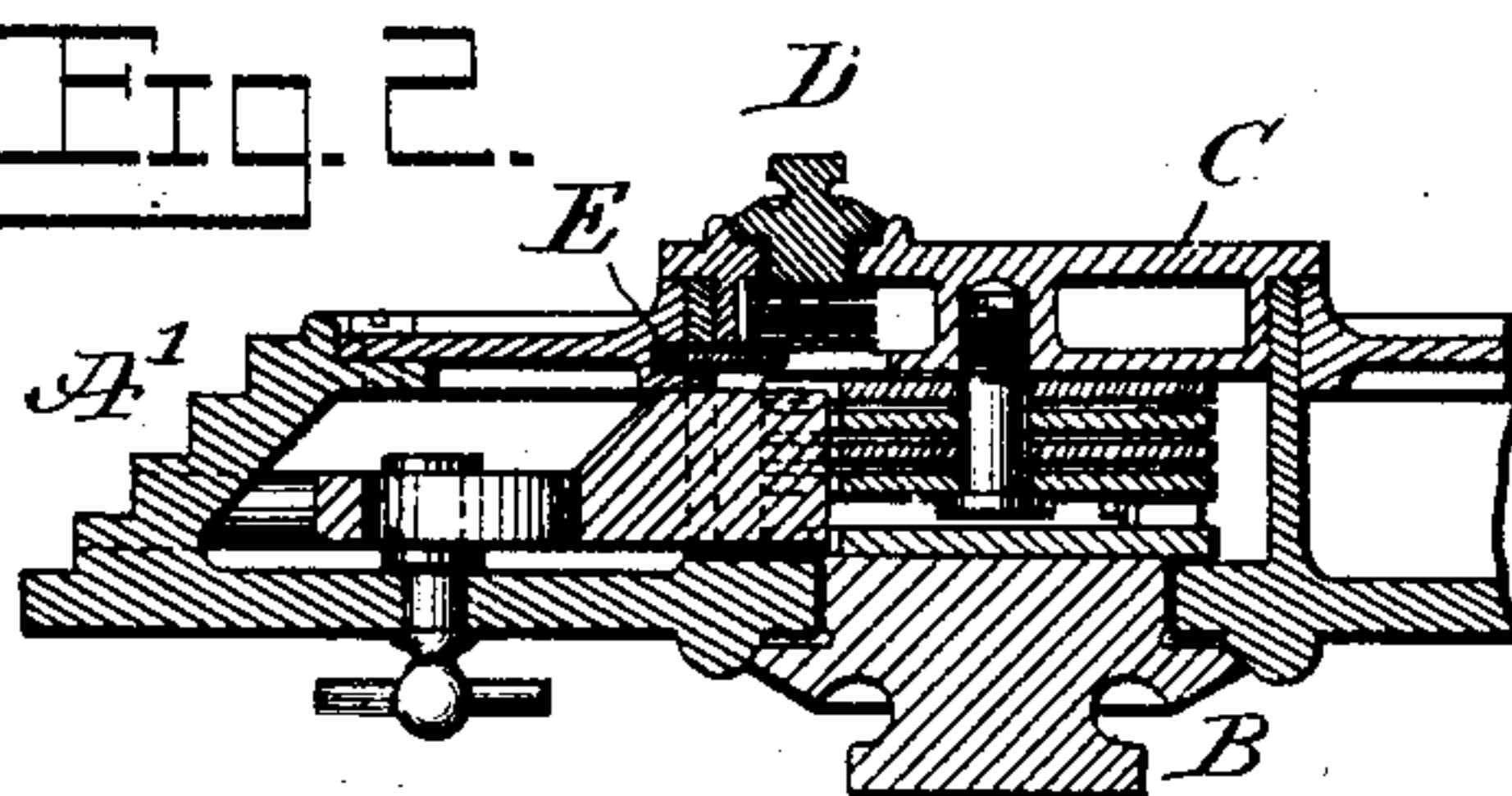


Fig. 2.



WITNESSES:

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FRANK DUESTERWALD, OF NEW YORK, N. Y.

LOCKING DEVICE FOR PERMUTATION-LOCKS.

SPECIFICATION forming part of Letters Patent No. 778,018, dated December 20, 1904.

Application filed May 6, 1904. Serial No. 206,656.

To all whom it may concern:

Be it known that I, FRANK DUESTERWALD, a citizen of the United States, and a resident of the city of New York, borough of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Locking Device for Permutation-Locks, of which the following is a full, clear, and exact description.

The invention relates to locks such as are used on safes and like devices in which the combination can be changed at will by the owner of the safe.

The object of the invention is to provide a new and improved locking device for preventing unauthorized persons from gaining access to the mechanism of the permutation-lock with a view of obtaining the combination thereof while the safe is in use and open.

The invention consists of novel features and parts and combinations of the same, as will be more fully described hereinafter and then pointed out in the claims.

A practical embodiment of the invention is represented in the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a face view of the improvement as applied to the permutation-lock of a safe shown with the door open. Fig. 2 is an enlarged sectional plan view of the same on the line 2 2 of Fig. 1, and Figs. 3, 4, 5, 6, and 7, are face views of modified forms of the improvement.

On the door A' of a safe A is arranged a permutation-lock B of the type in which the combination can be changed at any time by the owner of the safe whenever it is desired to do so. In order to change the combination, the working parts of the permutation-lock have to be reset, and to enable the owner to gain access to the said working parts it is necessary to remove the cover C, usually screwed to the inner face of the door A'. Now it is evident that while a safe is open an unauthorized person by removing the cover C can readily obtain access to the working parts of the permutation-lock, and thereby gain knowledge of the combination, so that when the safe

is closed and the proprietor is absent the unauthorized person can readily open the safe and abstract the contents thereof.

In order to prevent removal of the cover C by unauthorized persons, a lock D is provided for locking the cover C against removal, but allowing the owner of the safe to open the lock for convenient removal of the cover C whenever the owner desires to gain access to the working parts to change the combination of the permutation-lock. The lock D may be of any approved construction, preferably, however, a permutation-lock the combination of which is known only to the owner or person in charge of the safe. As indicated in Figs. 1 and 2, the lock D is arranged on the cover C and controls a bolt E, engaging a keeper on the door A', as plainly shown in Fig. 2. Now when the owner of the safe desires to change the combination of the permutation-lock B then the owner manipulates the permutation-lock D to withdraw the bolt E from its keeper and then removes the cover C to gain access to the working parts, which are now reset to the desired new combination. The cover C is then replaced, and the permutation-lock D is turned to actuate the bolt E, so as to engage the same with its keeper on the door A'.

From the foregoing it will be seen that an unauthorized person cannot gain access to the working parts of the permutation-lock B unless such person knows the combination of the permutation-lock D.

In the modified form shown in Fig. 3 the permutation-lock D' is arranged on the safe-door A² and controls the bolt E', adapted to engage a keeper on the cover C'.

In the modified form shown in Fig. 4 use is made of a key-lock D², having a bolt E² for engaging a keeper on the safe-door A³.

In the arrangement shown in Fig. 5 a permutation-lock D³ is secured on the safe-door A⁴ and controls a bolt E³, engaging a keeper on the cover C³, which latter is hung on a pivot to swing open when the bolt E³ is withdrawn to allow the owner of the safe to gain access to the working parts of the permutation-lock B.

In the modified form shown in Fig. 6 the cover C⁴ forms the inner plate of the door A⁵

and is arranged on the framework thereof, and on this door C⁴ is held a permutation-lock D⁴, controlling the bolt E⁴, engaging a keeper on the framework of the door A⁵.

5 The cover C⁵ (shown in Fig. 7) is in the form of a slide mounted to move in suitable guideways A⁶, arranged on the inner face of the door A⁷, and on the said cover C⁵ is held a permutation-lock D⁵, controlling the bolt E⁵,
10 engaging a keeper on the door A⁷.

From the foregoing it is evident that various suitable locking devices may be employed for holding the cover which controls entrance to the working parts of the permutation-lock
15 B, and hence I do not limit myself to any particular form of lock employed for holding the cover in position.

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

20 1. A permutation-lock having a removable cover carrying the tumblers of the lock, and a separate and independent lock for locking said cover against removal.

25 2. A permutation-lock having a removable cover on its inner face, said cover carrying the

tumblers of the lock, and a separate and independent permutation-lock for locking the cover in position.

3. The combination with a safe-door, of a permutation-lock thereon and provided with 30 a removable cover at the inner face of the safe-door, and an auxiliary permutation-lock on the said cover, controlling a bolt for engaging a keeper on the safe-door to hold the cover against removal. 35

4. A permutation-lock having a removable cover on its inner face, said cover carrying the tumblers of the lock, and a separate and independent permutation-lock mounted on the cover and controlling a bolt adapted to en- 40 gage a part of a door to which the lock is secured.

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

FRANK DUESTERWALD.

Witnesses:

THEO. G. HOSTER,
EVERARD BOLTON MARSHALL.