No. 96,246. PATENTED OCT. 26, 1869.

E. MACY.

SAFE.

Fig: 1.

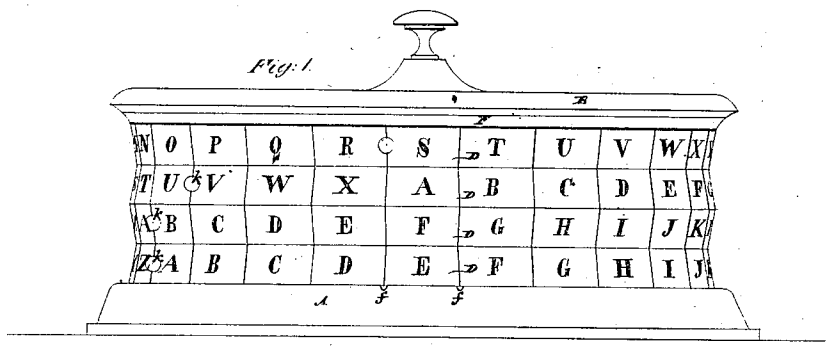


Fig: 2.

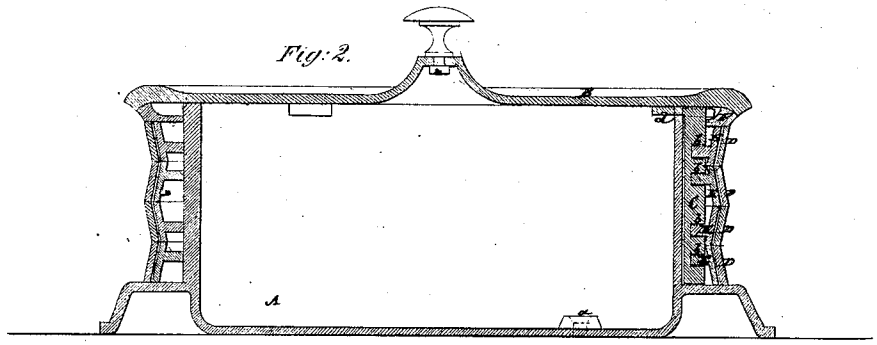
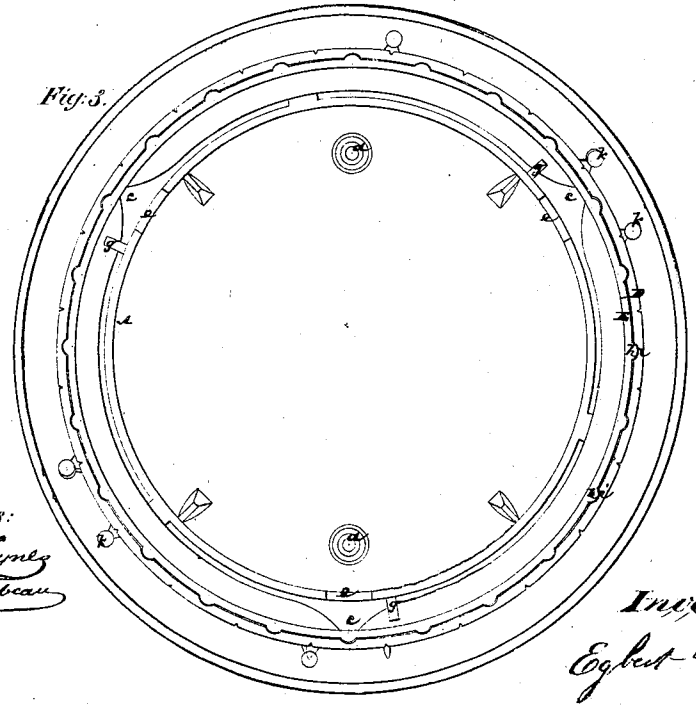


Fig: 3.



Witnesses:

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Letters Patent No. 96,246, *dated October* 26, 1869.

IMPROVEMENT IN SAFES.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, EGBERT MACY, of Brooklyn, in the county of Kings, and State of New York, have invented a new and useful Improvement in Safes, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing, forming part of this specification, and in which—

Figure 1 represents a side view of a safe, constructed in accordance with my improvement;

Figure 2, a transverse or vertical section of the same; and

Figure 3, a top view of said safe, with the lid or cover and an upper retaining-ring removed.

Similar letters of reference indicate corresponding parts.

My improvement has reference to safes for holding various articles of value, and although the same may be made of large size, for use in stores and other business places, it is mainly designed to be of small dimensions, and is especially applicable for use in private dwellings, for the safe-keeping of jewelry, money, or other small articles of value.

The invention mainly consists in a safe or depositing-chamber, constructed within or encased by a combination-lock, preferably of a permutation character, and embraces several peculiarities of construction, which materially add to the security and efficiency of the whole as a safe, as hereinafter set forth.

Referring to the accompanying drawing—

A represents the depositing-chamber of the safe, or, as, in connection with its lid or cover B, it may be termed, safe proper.

The same is of circular form, and may, if desired, be made immovable, by screws passed from the inside, through apertures *a* in the bottom of the chamber, into the surface or stand on which the safe rests.

The lid B is fitted to lift on and off, and is provided with any suitable number of inwardly-projecting legs or bars C, arranged to lie outside of the chamber A, and constructed with locking-notches *b* in their outside edges.

The safe, as here represented, is supposed to have three of such locking-bars, to correspond with a similar number of openings *c*, made in the combination-rings and an upper locking and retaining-ring, within which as a body the chamber A is encased, said bars *b* and openings *c* being preferably disposed at unequal distances apart around the safe, so that it requires a special adjustment to fit said bars down through their respective openings *c*, and simultaneous special adjustment of the lid, to allow of projections on its inner face, or back extensions *d* of said bars, entering recesses *e*, formed in the edges of the case, to hold the lid from turning.

The combination-rings, of which there may be any suitable number, arranged to lie the one upon the other, and which may have either numbers or letters on their outside faces, are each made up of two parts, namely, an outer ring, D, and an inner ring, E, the former, properly speaking, constituting the combination-ring, while the latter or inner one is a device for giving to the lock a permutation-character, but both geared or locked together, when adjusted to move in common, and hence the inner ring E may be considered part and parcel of the outer one D, and the whole be referred to as a combination-ring.

These rings are free to rotate, in a separate manner, within or through the locking-notches *b* of the bars C, and around the chamber A, so that when it is required to lock or unlock the safe, they may be turned, to put their respective openings *c* in or out of line, for the bars C to pass through them, or be restrained from withdrawal, accordingly as it is required to open or lock the safe, only certain letters, as in other combination-locks, for or of the several rings serving, when brought in line with or between fixed points or marks, as, for instance, at *f f*, on the base of the safe, to indicate that said rings are in position, as regards their openings *c*, for the locking-bars C to pass through them, as necessary in order to remove the lid or open the safe.

The several combination-rings are clamped or held down by a loose upper ring, F, arranged to lie or lap under pins *g*, which project from the body A, such locking or retaining-ring being suitably notched for the bars C to pass through it, and being restrained from turning, when in place, by the bars C.

Said ring thus serves to lock the several combination-rings, or prevents them and the lid from being lifted in common from off or over the chamber A.

To secure to the lock a permutation-character, each inner ring E, carrying the unlocking-notches *c*, is made detachable from its respective ring D, and adjustable therein to numerous different positions, by projections *h*, fitting notches *i*, whereby the position of the letters on the outer ring is changed relatively to the openings *c*, which require to occupy a certain position in relation to the bars C, before the safe can be opened.

In this way, that is, by changing the set of the rings E, within the rings D, a different combination of letters is necessary to effect the opening of the safe.

The combination-rings, as made up of the geared rings D and E, may be turned by knobs *k*, on the outside of the rings D.

A safe thus constructed, and enclosed, as it were,

within its lock, also requiring no separate key to open or secure it, will be found very advantageous and convenient, whether used as a portable device or a fixture.

What is here claimed, and desired to be secured by Letters Patent, is—

1. A safe, having its depositing-chamber constructed within or encased by a combination-lock, substantially as specified.

2. The chamber A and the lid B, provided with notched locking-bars C, in combination with locking-rings, arranged around the exterior of the safe, substantially as set forth.

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Witnesses:
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