W. B. DODDS.

DOOR FOR FIREPROOF SAFE.

No. 75,389. Patented Mar. 10, 1868.

Fig. 1.

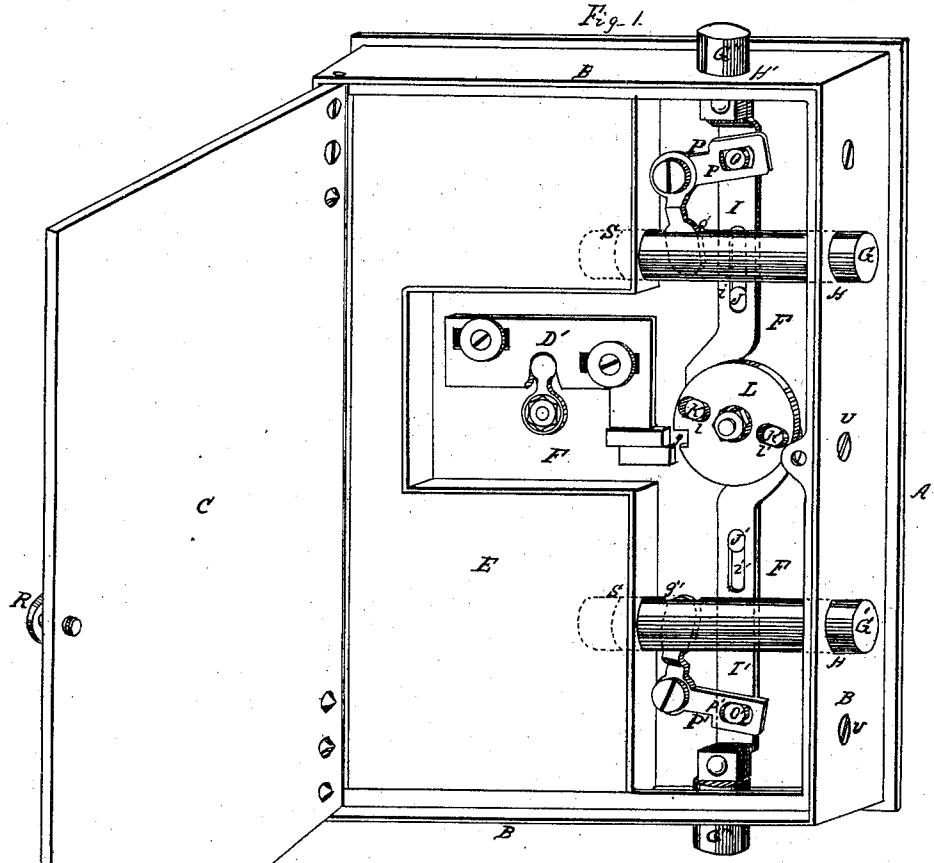
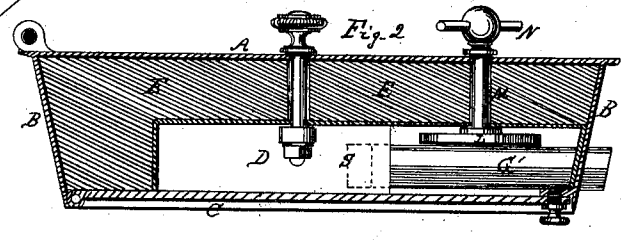


Fig. 2



Witnesses.
H. Underwood
Samuel Knight

Inventor.
W. B. Dodds.
By Knight Bros
Attys.

United States Patent Office.

WILLIAM B. DODDS, OF CINCINNATI, OHIO, ASSIGNOR TO DODDS, MACNEALE & URBAN, OF THE SAME PLACE.

Letters Patent No. 75,389, *dated March* 10, 1868.

IMPROVEMENT IN THE DOORS OF FIRE-PROOF SAFES.

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

TO WHOM IT MAY CONCERN:

Be it known that I, WILLIAM B. DODDS, of Cincinnati, Hamilton county, Ohio, have invented a new and useful Improvement in Fire-Proof Safes; and I hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification.

My invention consists in an arrangement of lock and bolt-case, concrete filling, and inside or auxiliary door, by which the entire interior of the door, lock, and bolt-works is accessible for inspection or repair when the door itself is open.

Figure 1 is a rear side view of the door, with its auxiliary door opened.

Figure 2 is a section of the same in the plane of the arbor, with the auxiliary door closed.

The outer shell of the door consists of the front plate A, edge or curb-plates B, and auxiliary door C, hinged to the said plates B, and when opened, as in fig. 1, exposing the entire lock and bolt-case F, and filling E. F is a T-formed case for the lock and bolt-works. This case F is secured within the door by means of the screw-bolts U, and is embedded in the cement or concrete filling E, which cement is made to occupy every part of the space within the door around the said case F, and between that and the front plate A. The plate of the lock-case and the curb-plate B being thus screwed fast together, serve to strengthen and stiffen each other.

The arrangement selected for illustration contains four door-bolts, of which two bolts G G′ are restricted to a horizontal path, by means of openings H, in the front edge of the door, and in the lock-case, and other two, G″ G‴, are restricted to a vertical path, while moving in opposite directions, by openings, H′, in the top and bottom edges of the shell. Inside of the lock the vertical bolts aforesaid take the form of flat bars I I′, having slots *i i′*, occupied by pins J J′, which serve to guide the bars to a vertical path. The bars I I′ terminate with studs K K′, which occupy slots *l l′*, in a circular or other suitable plate, L, made fast to the arbor M of the operating-knob or handle N. Other studs, O O′, upon the bars I I′, occupy slots *p p′*, in bell-cranks P P′, whose other extremities entering slots *g g′* in the horizontal door-bolts G G′, become instrumental in throwing and retracting the latter.

The above-described system of door-bolts may be held in lock by a lock-bolt, D′, entering a gain, *q*, in the plate L, or by any other customary or preferred means. The auxiliary door may be fastened by one or more screws, R, or otherwise. Suitable excavations in the fillings (see dotted lines S) permit the retraction of the horizontal bolts.

I claim herein as new, and of my invention—

The provision, in a fire-proof safe, of the auxiliary door C, hinged to, and, when, open, affording access to, the entire lock and door-bolt movement and filling of the door proper, as set forth

In testimony of which invention, I hereunto set my hand.

W. B. DODDS.

Witnesses:

GEO. H. KNIGHT,

JAMES H. LAYMAN.