J. FARREL.

Door for Safes.

No. 161,675. Patented April 6, 1875.

Fig. 2

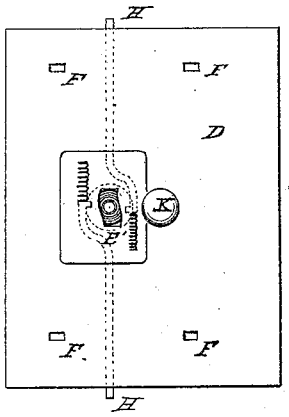
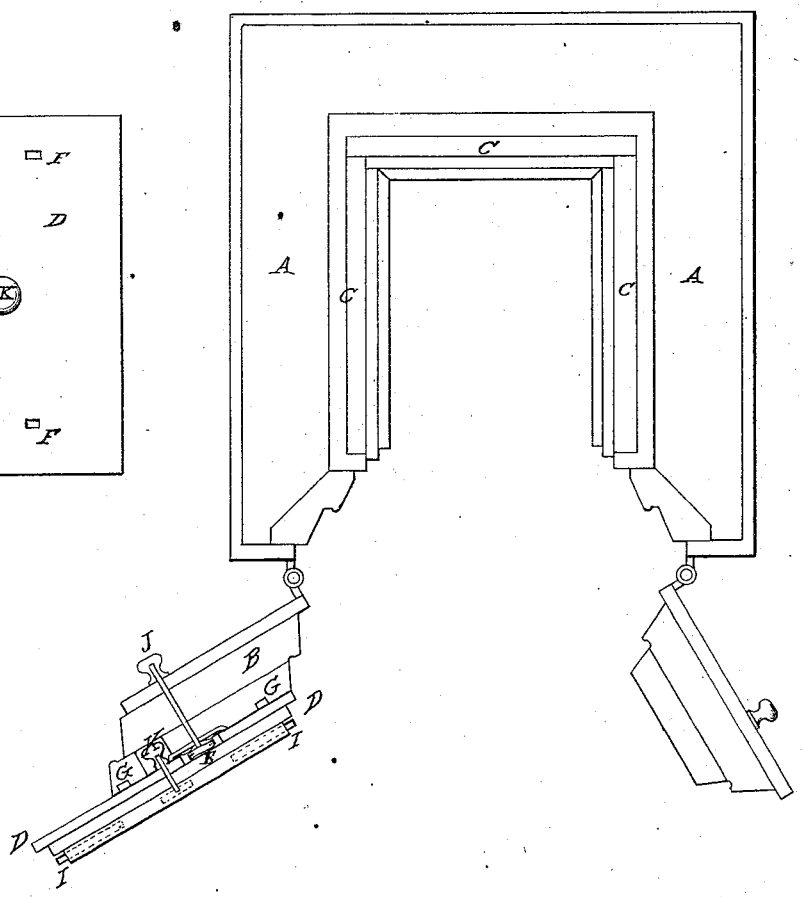


Fig. 1.



John Farrel
by his Attorney
Earle H. Smith

Witnesses
H. W. Spiller
G. Emmermann

THE GRAPHIC CO. PHOTO-LITH. 39 & 41 PARK PLACE, N.Y.

UNITED STATES PATENT OFFICE.

JOHN FARREL, OF NEW YORK, N. Y.

IMPROVEMENT IN DOORS FOR SAFES.

Specification forming part of Letters Patent No. **161,675**, dated April 6, 1875; application filed August 12, 1872.

To all whom it may concern:

Be it known that I, JOHN FARREL, of the State, city, and county of New York, have invented an Improvement in Safes, and the following is a specification thereof:

Said invention relates to double safes, particularly such as combine a complete burglar-proof safe within a complete fire-proof safe.

The improvement is in the construction, arrangement, and operation of the doors and bolt-work, whereby the door of the inner safe may be detached and separately locked, and when opened is attached to the outer door and swings with it; also, in the contrivances employed in attaching and detaching the inner from the outer door at will.

To illustrate my invention, I have shown in the annexed drawing a double safe consisting of an inner or burglar-proof and an outer safe, each complete in itself and having separate door-jambs and doors for each safe, respectively.

Figure 1 is a horizontal section taken through the body of the safe or safes and the door. Fig. 2 shows the outer side of the inner door and its fastenings.

A represents the outer or fire-proof safe, and B the door thereof. C is the burglar-proof safe within, and D is its door. For the highest degree of security against clandestine entrance to the safe by opening the doors, the outer and inner doors are made separate from each other. The outer door has one or more oscillative clasps, E, adapted to take into corresponding cavities E′ in the outer side of the inner door, to attach the doors together; and said doors may also have auxiliary supports, such as the projections F, fitting in depressions G, to afford additional means of sustaining the weight of the inner door by or upon the outer one, and other means may be used. The inner door is provided with its own set of bolts, I, worked by a knob, K, quite independent of the outer door and fastenings, and it also has certain extra bolts, H, which are so fashioned as to have a portion of each to enter the socket or cavity E′ in the outside of the inner door made to receive the clasp E, and said clasp has the form of and serves to act as a cam for operating said bolts H, which it does while in the act of attaching to and seizing said inner door; and hence the latter cannot be opened while the outer door remains open, even when the regular bolt-work I of the inner door is withdrawn, as by the knob K aforesaid, and such knob is not accessible when the outer leaf or door is closed, because covered thereby.

To open both the inner and outer doors at once, first unfasten the outer door, then release the bolts I of the inner door; next close the outer door, and turn the knob J. This operates the clasp E, which acts upon the extra bolts H of the inner door and withdraws them, and said clasp, while acting on the bolts H, becomes inlocked in the socket E′. The inner door, being now unbolted and attached to the outer one, is swung open upon and with it.

In the above invention I do not confine myself to the precise means specified for attaching the door of the burglar-proof safe to the outer safe.

I claim as my invention—

1. The combination of inner and outer doors and bolt-works, connected by the means specified, or its equivalent, whereby the inner door may be detached and separately locked, and when opened is attached to the outer door and swings with it.

2. The projections F, depressions G, clasps E, and cavities E′, to provide for attaching and detaching the inner from the outer door at will.

JOHN FARREL.

Witnesses:

EARLE H. SMITH,

JOHN L. ROBERTS, Jr.