

DRAFT

(No Model.)

M. MOSLER.
DOOR FOR FIRE PROOF SAFES.

No. 287,955.

Patented Nov. 6, 1883.

T 79

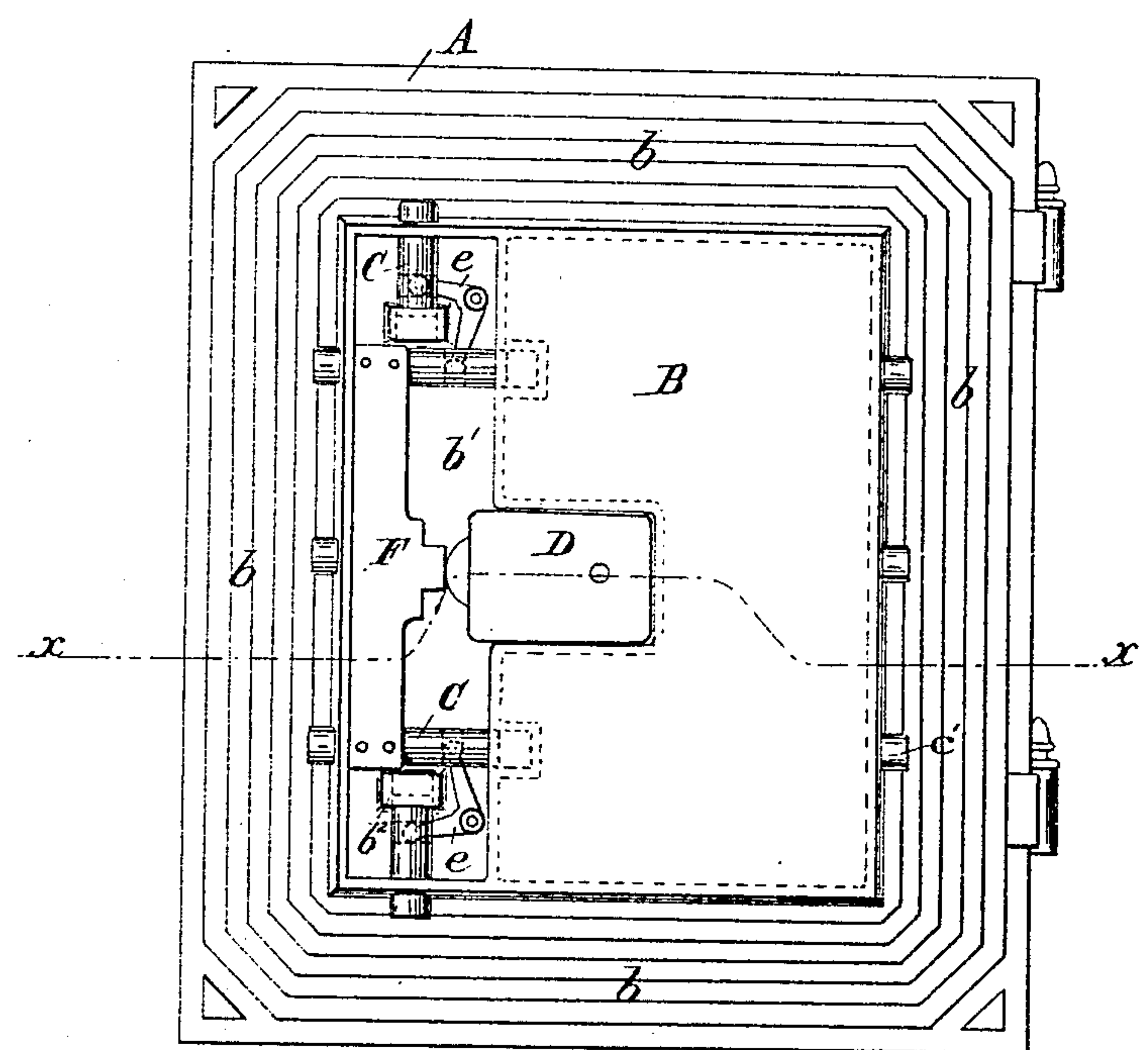


Fig. 1

8
H 6

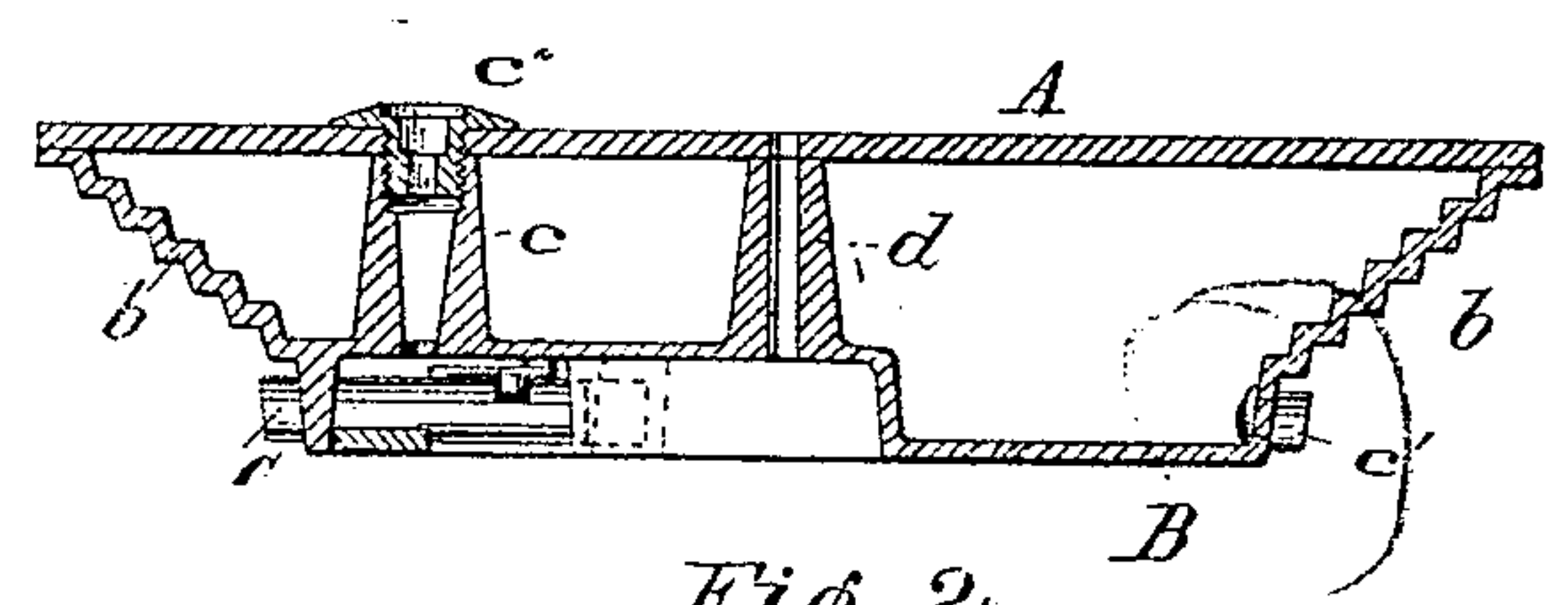


Fig. 2

Attest
Alfred B. Benedict
Jacob J. Gessert

Inventor
Moses Mosler
R. D. " "

84

UNITED STATES PATENT OFFICE.

MOSES MOSLER, OF CINCINNATI, OHIO.

DOOR FOR FIRE-PROOF SAFES.

SPECIFICATION forming part of Letters Patent No. 287,955, dated November 6, 1883.

Application filed February 10, 1883. (No model.)

To all whom it may concern:

Be it known that I, MOSES MOSLER, a citizen of the United States, residing at Cincinnati, county of Hamilton, State of Ohio, have
5 invented certain new and useful Improvements in Doors for Fire-Proof Safes, of which the following is a specification.

The object of my invention is to simplify the construction, avoid the labor of fitting
10 the parts together, and make a stronger door, in which the lock and bolt work will be completely isolated from the fire-proof filling, there being no joint through which the moisture from the filling can communicate to the
15 lock or bolt mechanism.

The invention consists in making the interior of the door in one piece, with suitable depressions for the reception of the lock and bolt work.

20 In the accompanying drawings, in which similar reference-letters indicate like parts wherever they occur, Figure 1 is an inside plan view of a safe-door provided with my improvements; Fig. 2, a transverse horizontal
25 section taken through line *x x* of Fig. 1.

The door of the safe is composed of two parts. The front plate, A, is of ordinary construction, and the back, B, is a cast-metal piece, which, including the flanges *b*, is cast
30 in one piece. The back B has a depression, *b'*, along the inside front edge, inside of the flanges, to receive the bolts C and their actuating devices. This depression extends back in an offset to receive the lock-case D. On
35 the inside of the shell B, and also cast with it, are two studs, *c* and *d*, which serve as bearings for the bolt and lock-spindles. Cast upon the back plate also are bosses *b*², which
40 are perforated to receive the inner ends of the bolts, and serve as guides for them. The vertical and horizontal bolts are connected by bell-cranks *e*, in the usual manner, so that all move simultaneously when the tie-bar F is thrown forward or back by the bolt-arbor.
45 The holes for the bolts C are drilled through the inner flange of the door and into the bosses *b*². The bolts are transversely slotted,

as seen in dotted line, to receive the crank-pins cast upon the ends of the bell-cranks. After the bolts are inserted the ends of the
50 bell-cranks are slipped into the slots in the bolts and the pivot inserted, securing the bell-cranks in place, after which the tie-bar F is secured to the horizontal bolts, thus completing the bolt-work.

55 The customary stumps, *c'*, are riveted or secured in place in the usual manner.

The bearings for the bolt and lock arbors may rest against the front plate, as shown in the lock-spindle bearing *d*, or may be united
60 by a hollow bushing, as shown in the bolt-arbor bearing *e*. In this case the bearing *e* may be cored out much larger than the spindle and the bearing for the spindle drilled through the back plate and the bushing *e*².
65

The fire-proof filling is poured into the shell B, after which the front plate is secured to it in the usual manner.

It is obvious that, instead of the bearings or parts *c d* being cast with the back B, they
70 may be separate, in which case they should have reduced ends to enter perforations in the front and back pieces, A B, and shoulders to bear against the inside faces of the front and back, serving as stay-bolts.
75

I am aware that it is old to provide within the door, between the front and back plates, a partition, which forms with the back plate a compartment for the reception of the lock and bolt work and separates said lock and bolt
80 work from the cement filling; and this I do not claim, broadly.

What I claim as new, and desire to secure by Letters Patent, is—

The combination, in a fire-proof-safe door, of
85 the front plate, A, and hollow shell-back B, said shell B being cast in one piece and having the depression *b'*, for the reception of the lock-case and bolt-work, substantially as specified.

MOSES MOSLER.

Witnesses:

GEO. J. MURRAY,
CHRISTIAN F. RAPP.