

83

J. B. Cornell,

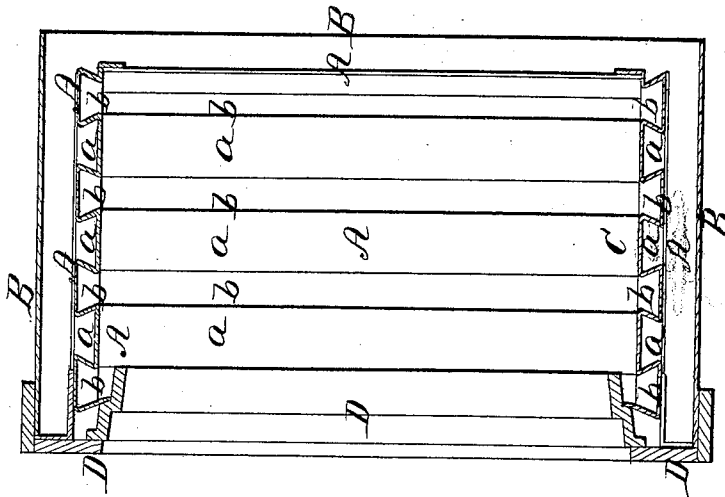
Fire-Proof Safe,

No. 27,527,

Patented Mar. 20, 1860.

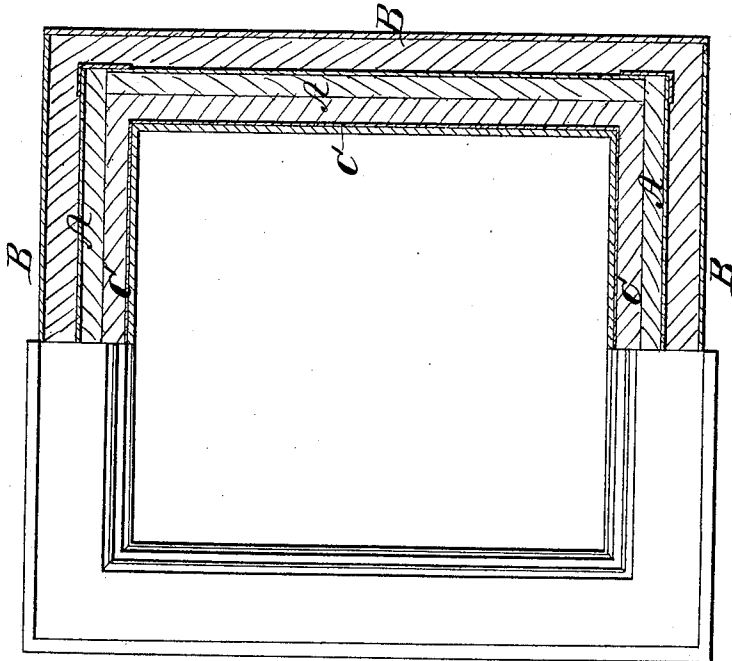
178

Fig. 2.



87

Fig. 1.



Witnesses;

*Blair
W. Thompson*

Inventor;

J. B. Cornell

33

UNITED STATES PATENT OFFICE.

JOHN B. CORNELL, OF NEW YORK, N. Y.

SAFE.

Specification of Letters Patent No. 27,527, dated March 20, 1860.

To all whom it may concern:

Be it known that I, JOHN B. CORNELL, of 143 Center street, of the city, county, and State of New York, have invented a new and useful Improvement in the Manufacture of Fireproof Safes; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1, shows a front elevation of the fire proof safe with one half of the front removed showing in section the arrangement and construction of the walls of the safe in longitudinal section. Fig. 2, is a transverse vertical section taken through the first and second or the outer and central walls of the safe. In this figure the central wall for receiving and holding the fire-proof filling is clearly shown.

Similar letters of reference indicate corresponding parts in both figures.

This invention and improvement in the construction of fire proof safes consists, in interposing between the inner and outer metallic walls of the safe a sheet, or sheets of metallic plaster holding plates, which are swaged into alternating dove tail elevations, and depressions so that when the filling of any suitable antiplogistic compound, is put in, on both sides of this central wall, and, allowed to set or dry, it will be attached firmly to the wall and will not detach itself from it by shrinking or settling as is the case with fire proof safes of the present construction.

To enable those skilled in the art to fully understand my invention I will proceed to describe its construction.

The plates A, consists, respectively, of sheets of metal, swaged into elevations and depressions of a retaining shape for the plaster, as described in the specification of Birdsall Cornell, patented March 2d 1858. These plates (sections of which are shown in Fig. 2 of the drawings) are interposed between the outer metallic wall, B, of the safe and the inner wall C, and securely lapped and riveted at the joints, and to the front

door-facing D. After such plates are properly secured together, the plaster, which may be of any of the known fire-proof compounds, is filled in, and tamped well into the outer depression lettered *a*, and the space between the outer wall B, and plates A, is filled up in the usual manner. The outer walls being properly secured over the plaster, the inside surface of the plate A, is plastered over with a thick coating, and the depression *b*, (which on the opposite side of this plate are elevations) filled up, the inner walls C, are then introduced and properly secured, and the whole is left to dry, and when the plaster sets, a solid wall is formed with a sheet of metal of any desired thickness, between the two layers of plaster, to which, this plaster firmly adheres when dry on account of the dove-tail retaining depressions *a*, *b*, as described.

It is not necessary to particularize fully the construction of fire proof safes in order to give a clear understanding of my invention and improvement, for it will be seen by the above description that in every instance, where plaster filling is employed metal plate A, will be found applicable and valuable for giving strength and solidity to the fire proof composition by preventing it from shrinking and detaching itself from the interposed metallic wall. This continuous metallic plate swaged into alternating dove-tail elevations and depressions of a retaining shape, is especially applicable for the present purpose, and for this purpose only do I wish to claim it, therefor.

Having thus described my invention, what I claim and desire to secure by Letters Patent is:—

Forming the interior fire-proof wall of safes by interposing between the two layers of plaster the continuous metallic plate A, or any other suitable plate possessing the retaining shape for the purposes and essentially as herein described.

JOHN B. CORNELL.

Witnesses:

B. GIROUX,
WM. THOMPSON.