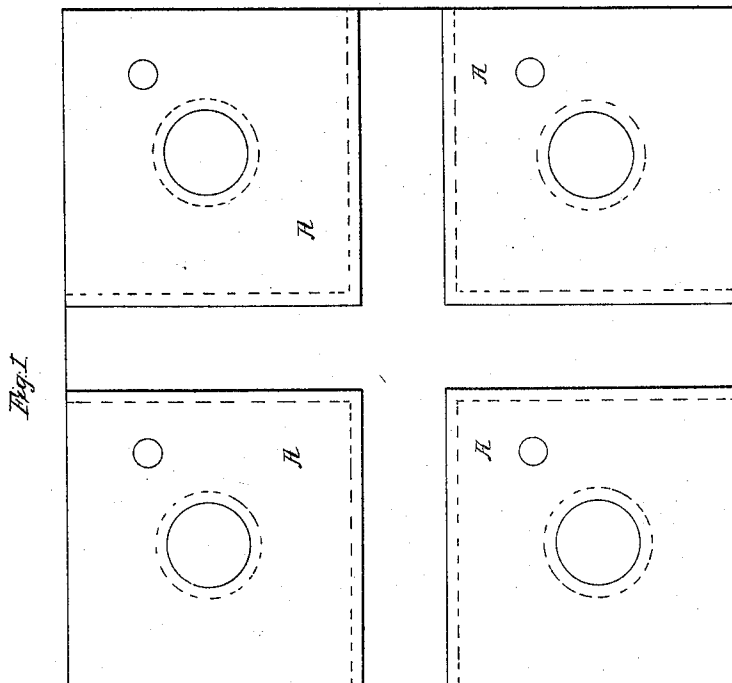
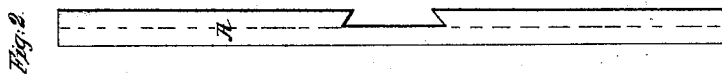
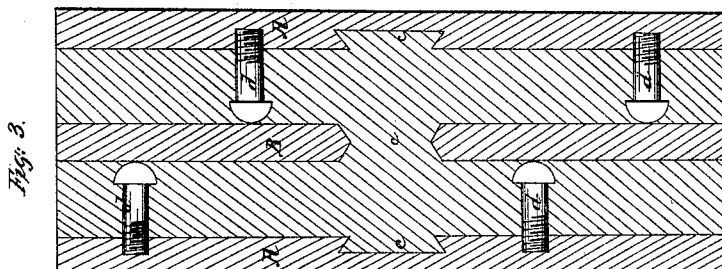


J. B. Cornell,
Burglar-Proof Safe.
N^o 59,189. Patented Oct. 30, 1866.



Witnesses:
Geo. E. Johnson
Edwards

Inventor:
John B. Cornell
By J. C. Robbins
his attorney

UNITED STATES PATENT OFFICE.

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

IMPROVEMENT IN SAFES.

Specification forming part of Letters Patent No. 59,189, dated October 30, 1866.

To all whom it may concern:

Be it known that I, JOHN B. CORNELL, of the city, county, and State of New York, have invented a new and useful Improvement in Burglar-Proof Safes, Vaults, &c.; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making a part of this specification.

My invention appertains to that class of safes in which the walls or other portions thereof are composed of double or treble metallic plates placed contiguous to and united with each other, and with the spaces between the same filled with molten iron or other metal.

My improvement consists in securely uniting parallel and contiguous metallic plates by the act of filling the space between them with molten iron or other metal, and in such a manner as to leave no evidence on the exterior surfaces of said plates of the manner in which they are united with each; or, in other words, leaving the exterior surfaces of said plates entirely sound and intact.

This I accomplish by forming channels or recesses *c c* of a dovetail shape in the inner surfaces of said plates *A A*, or by screwing oppositely-projecting anchors *d d* into the inner surfaces of said plates, as shown in the accompanying drawings; or the said anchors and the dovetail channels and recesses may be employed in the same set of plates, as shown in the drawings.

Where three plates, *A B A*, are connected with each other in the manufacture of safes, &c., the central plate, *B*, may be perforated with apertures which flare outwardly from the

center of said plate, as shown in Figure 3; or a portion of said apertures may flare the entire thickness of the plate in one direction, and the remainder in an opposite direction.

The melted metal, as it is run into the space between the contiguous plates *A A B*, will flow into the dovetail channels and recesses *c c* in said plates, and will also closely embrace the anchors *d d*, and, consequently, the hardening of said metal will unite the said plates with each other in the firmest and most tenacious manner.

The fact that there is no appearance of bolt-heads on the exterior surface of my improved safe must necessarily render it impossible for a burglar to penetrate the walls thereof by any known method of operation.

Having fully described my improvement in burglar-proof safes, what I claim therein as new, and desire to secure by Letters Patent, is—

Uniting parallel and contiguous plates of metal with each other by the act of filling the spaces between said plates with molten iron, or other metal or composition, and the inflow of a portion of the same into channels or recesses of a dovetail shape formed in the inner surfaces of said plates, but not entirely through the same, substantially in the manner represented in the drawings, and herein described.

The foregoing is a full and clear specification of my new and useful improvement in burglar-proof safes, vaults, &c.

JOHN B. CORNELL.

Witnesses:

A. A. JAYNE,
C. H. FIELD.