(No Model.)

L. G. COMPARET.

WINDOW SHUTTER.

No. 353,735. Patented Dec. 7, 1886.

Fig. 1

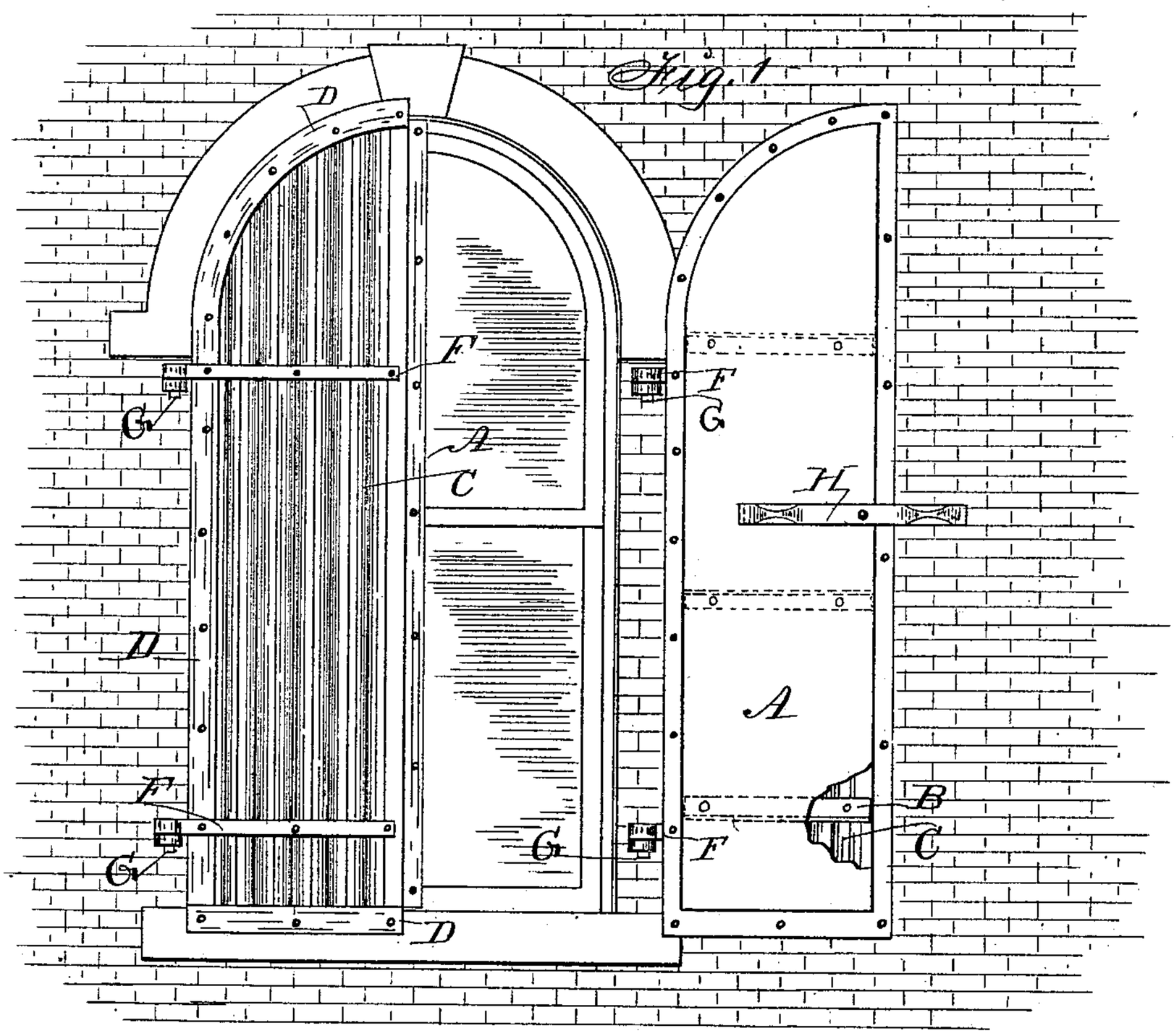


Fig. 2

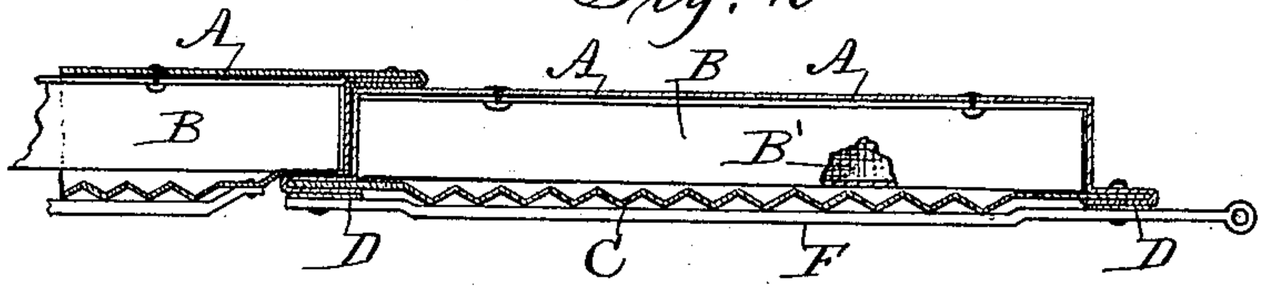
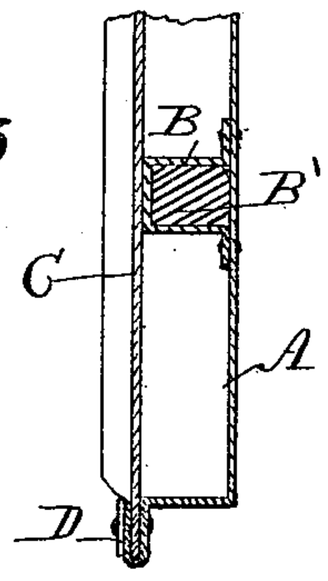


Fig. 3



Witnesses:
C. D. Hudgens.
R. H. Orwig.

Inventor:
Lewis G. Comparet,
By Thomas G. Orwig, Atty.

UNITED STATES PATENT OFFICE.

LEWIS G. COMPARET, OF DES MOINES, IOWA.

WINDOW-SHUTTER.

SPECIFICATION forming part of Letters Patent No. 353,735, dated December 7, 1886.

Application filed June 11, 1886. Serial No. 204,879. (No model.)

To all whom it may concern:

Be it known that I, LEWIS G. COMPARET, a citizen of the United States of America, and a resident of Des Moines, in the county of Polk and State of Iowa, have invented a Fire-Proof Shutter for Windows, of which the following is a specification.

My invention consists in a hollow sheet-metal shutter having a rigid frame produced as hereinafter set forth, pointed out in my claims, and illustrated in the accompanying drawings, in which—

Figure 1 is a view of window, showing a pair of my shutters applied and one open and the other closed. Fig. 2 is a transverse section, and Fig. 3 a longitudinal section, in which the overlapping of the edges and metal straps to produce a rigid frame and the stays between the two walls are clearly shown.

A is the rear wall of the shutter, made of plain sheet metal. Its edges are turned at right angles in the manner sheet-metal pans are made.

B B are stays, made of strips of sheet metal, that have their edges bent at right angles to produce flanges that rest flat against the inside face of the wall A, and are riveted fast thereto.

B′ are pieces of wood, retained in place by means of the metal strips B, as shown in Fig. 3.

C is the front wall, preferably made of corrugated sheet metal. It corresponds in size and shape with the window to which it is to be applied, and is laid flat upon the stays B and the projecting edges of the rear wall, A, which edges are then doubled backward over the edge of the front wall, as clearly shown in Fig. 2.

D D are pieces of strap-iron, laid flat upon the turned-back edges and the overlapping portions of the two walls A and C, and riveted fast to produce a rigid border and frame around the complete shutter. The rivets are passed through all the overlapping parts and clamp the edges of the walls A and C and the strap-iron firmly together.

F F are iron bars, that have pintles G extending downward at right angles from their ends, riveted fast to the opposite sides of the shutters to re-enforce and brace them, and also to serve as parts of hinges, as clearly shown in Fig. 1.

H represents a metal bar pivoted to the inside face of one of the shutters, to serve as a locking device for keeping the shutter closed.

A complete, strong, durable, and neat shutter is thus produced that will always have a voluminous air-chamber that will prevent fire on the outside of a building from heating the inside or back wall of the shutter, and consequently will be practically fire-proof.

I am aware that a plain sheet-metal wall having its edges turned at right angles has been combined with two corrugated walls by riveting the overlapping edges of the three walls together. I am also aware that metal straps have been riveted to the edge of a sheet-metal shutter; but my manner of turning the edges of one of the walls over the edge of the other wall, and then riveting metal straps thereto to cover the raw edge, and to produce a neat finish and a rigid durable frame around the edge of a shutter, is novel and greatly advantageous.

I claim as my invention—

1. The combination of a plain sheet-metal wall, A, having its edges turned at right angles and doubled backward, angular and tubular sheet-metal stays B, metal straps D, and bars F, having pintles G on their ends, substantially as shown and described, for the purposes stated.

2. The combination of the metal stays B and the wooden blocks B′ with the wall A, for the purposes stated.

3. The combination of the straps D with the wall C and the edge of the wall A, doubled over the edge of said wall C, for the purposes stated.

LEWIS G. COMPARET.

Witnesses:

FRED. A. WINCHELL,

THOMAS G. ORWIG.