(No Model.)

C. BERRIAN.

FIRE PROOF SHUTTER.

No. 262,356. Patented Aug. 8, 1882.

Fig. 1.

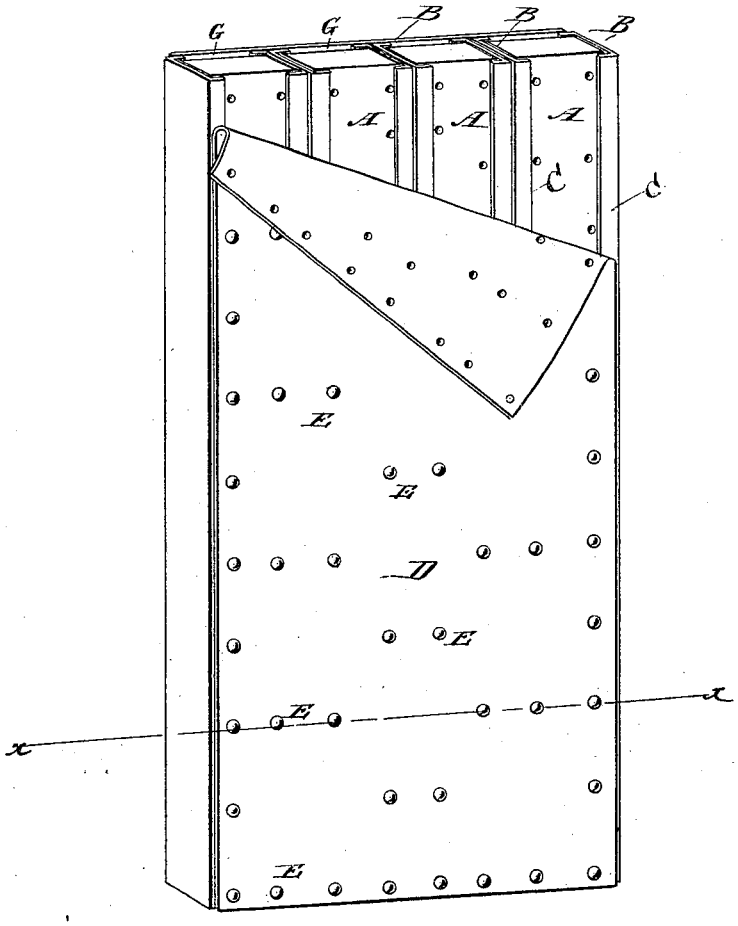
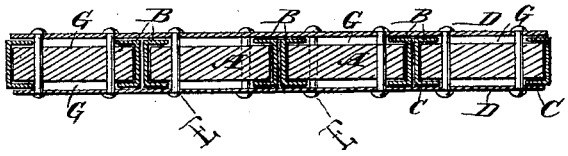


Fig. 2



WITNESSES:

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UNITED STATES PATENT OFFICE.

CORNELIUS BERRIAN, OF CLINTON, IOWA, ASSIGNOR TO SARAH W. BERRIAN, OF SAME PLACE.

FIRE-PROOF SHUTTER.

SPECIFICATION forming part of Letters Patent No. 262,356, dated August 8, 1882.

Application filed April 12, 1882. (No model.)

To all whom it may concern:

Be it known that I, CORNELIUS BERRIAN, of Clinton, Clinton county, Iowa, have invented a new and Improved Fire-Proof Shutter, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved shutter which will not warp or be destroyed under the action of heat.

The invention consists in a shutter formed of a series of strips of wood, against the longitudinal edges of which channel-irons are placed, which shutter is provided with an inner and outer covering of metal sheets or plates, held on the wooden strips by bolts or rivets passed through the metal coverings and through the wooden strips.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a perspective view of my improved shutter, showing part of the covering removed; and Fig. 2 is a cross-sectional elevation of the same.

The shutter is formed of a series of strips, A, or planks of wood, against the longitudinal edges of which channel-irons B are placed in such a manner that the flanges C of these channel-irons overlap the strips A on the sides. The outer longitudinal surfaces of the channel-irons are in contact, as shown, and plates or sheets of metal D are placed on the upper and lower surfaces of the planks — that is, on the inner and outer sides of the shutter—and are held on the same by rivets or bolts E, passed through the sheets D and the strips A, and provided at each end with a head. The sheets D rest on or against the flanges C, and small air-spaces G will be formed between the surfaces of the strips A and the sheets or plates D. The strips or planks A can be made of any desired length, width, or thickness, as may be required, and any number of planks may be used to form the shutter; but the longitudinal edges of the planks must always be covered by the channel-irons. The strips A prevent the shutter from warping and the air-spaces G assist in protecting the strips from the effects of the heat and flames. Even if the strips A are carbonized or charred, the shutter will not break, as it is held together by the rivets or bolts E.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. A shutter constructed of strips of wood, having the longitudinal edges covered by channel-irons, and of metal sheets or plates held on the strips by bolts or rivets, substantially as herein shown and described, and for the purpose set forth.

2. In a shutter, the combination, with the wooden strips A, of the channel-irons B, covering the longitudinal edges of the strips, the metal plates or sheets D, and the rivets or bolts E, substantially as herein shown and described, and for the purpose set forth.

CORNELIUS BERRIAN.

Witnesses:
W. A. BELL,
GEO. SPENCER.