

JOHN W. HOYT.

Improvement in Iron Shutters and Doors.

No. 124,271.

Patented March 5, 1872.

Scale. 1 in.

FIG. 1

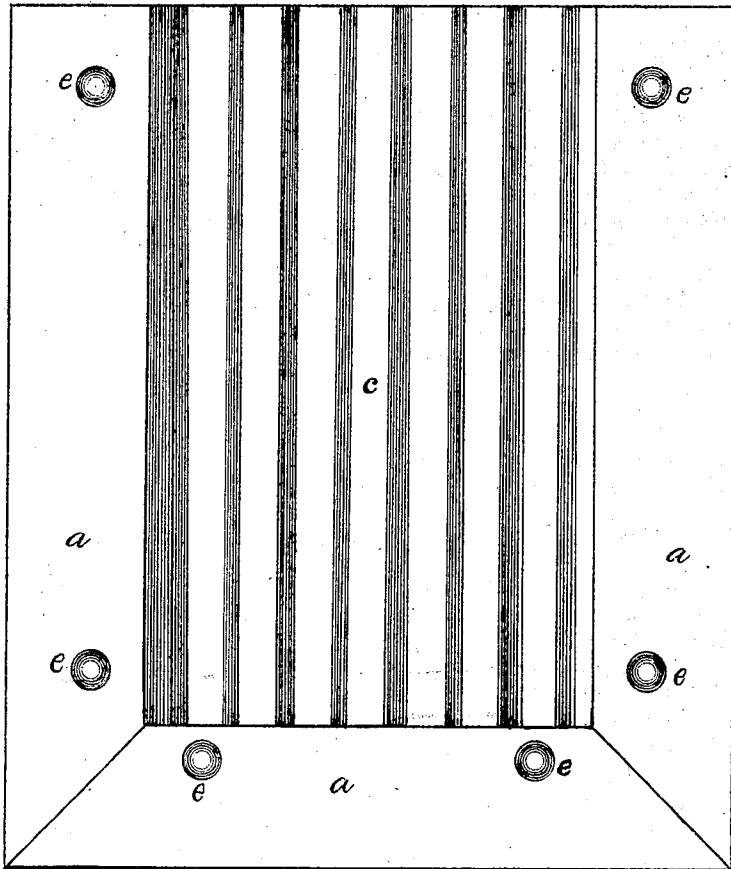
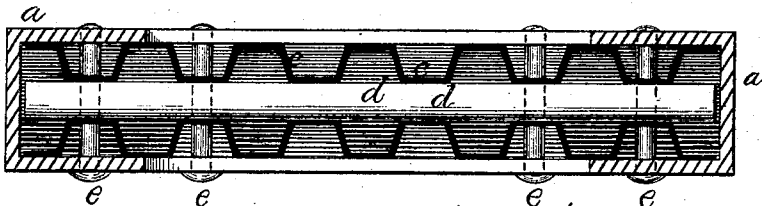


FIG. 2



Witnesses.
Clarence Buckland.
L. E. Kowars

John W. Hoyt, Inventor,
By J. A. Curtis, atty.

UNITED STATES PATENT OFFICE.

JOHN W. HOYT, OF SPRINGFIELD, MASSACHUSETTS.

IMPROVEMENT IN IRON SHUTTERS AND DOORS.

Specification forming part of Letters Patent No. 124,271, dated March 5, 1872.

To all whom it may concern:

Be it known that I, JOHN W. HOYT, of Springfield, in the county of Hampden and State of Massachusetts, have invented a new and useful Improvement in Iron Shutters and Doors; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing making a part of this specification and to the letters of reference marked thereon, in which—

Figure 1 is a plan view of a portion of a shutter made according to my invention, being so much as is necessary to show my invention; and Fig. 2 is a transverse horizontal section of the same.

My invention relates to shutters and doors made of corrugated iron; and consists in the construction of the same, wherein two or more sheets of corrugated iron are placed together with their corrugations at right angles to each other, and with their edges inclosed within a channel-iron, said channel-iron forming the edge finish of the door or shutter, and is firmly riveted to the several sheets of iron as they are thus placed together. If it is desirable to have either one or both sides of the shutter finished with a flat surface, a flat plate of iron may be placed outside the corrugated sheets, and the whole inclosed within the channel-iron, and riveted together and to the channel-iron.

That others skilled in the art may be able to make and use my invention I will proceed to describe the same.

In the drawing, *c* represents the two outside sheets of corrugated iron, which are placed one on each side of a third sheet, *d*. The two outside sheets, *c*, have their corrugations run in a vertical direction, while the corrugations of the third or middle sheet has its corrugations run at right angles to the others or in a horizontal direction. The edge is finished and the whole

secured together by the channel-iron *a*, which completely incloses the edges of the sheets on both sides, and is secured to the sheets by the rivets *e*, which extend through the channel-iron from one side to the other, passing through the sheets *c* and *d*, and are headed down at both ends. Doors or shutters made in this manner are very much stronger than when made with the corrugations of both sheets extending in the same direction.

The appearance of the door or shutter may be changed, as some might prefer, by using two sheets of corrugated iron with the corrugations extending at right angles to each other, and then placing a flat plate of iron outside, upon either one, or both sides, as might be preferable; or three sheets of corrugated iron could be used, with a flat plate upon either one or both sides, the door or shutter, of course, being correspondingly strengthened by the additional sheet of corrugated iron. The door or shutter may also be strengthened by bars of flat iron placed across the same, and when the outside surface is finished flat, the whole surface of the door or shutter may be divided into panels and ornamented with moldings or beading. The hinges and fastenings may, of course, be riveted or bolted upon the channel-iron.

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

An improved corrugated iron door or shutter, consisting of two or more sheets of corrugated iron, *c d*, placed together with their corrugations extending at right angles to each other, and inclosed at their edges by the channel-iron *a*, the whole secured together by the bolts or rivets *e*, all substantially as described.

JOHN W. HOYT.

Witnesses:

T. A. CURTIS,
C. E. BUCKLAND.