

(No Model.)

L. L. SAGENDORPH.  
FIRE PROOF CONSTRUCTION FOR BUILDINGS.

No. 420,282.

Patented Jan. 28, 1890.

Fig. 1.

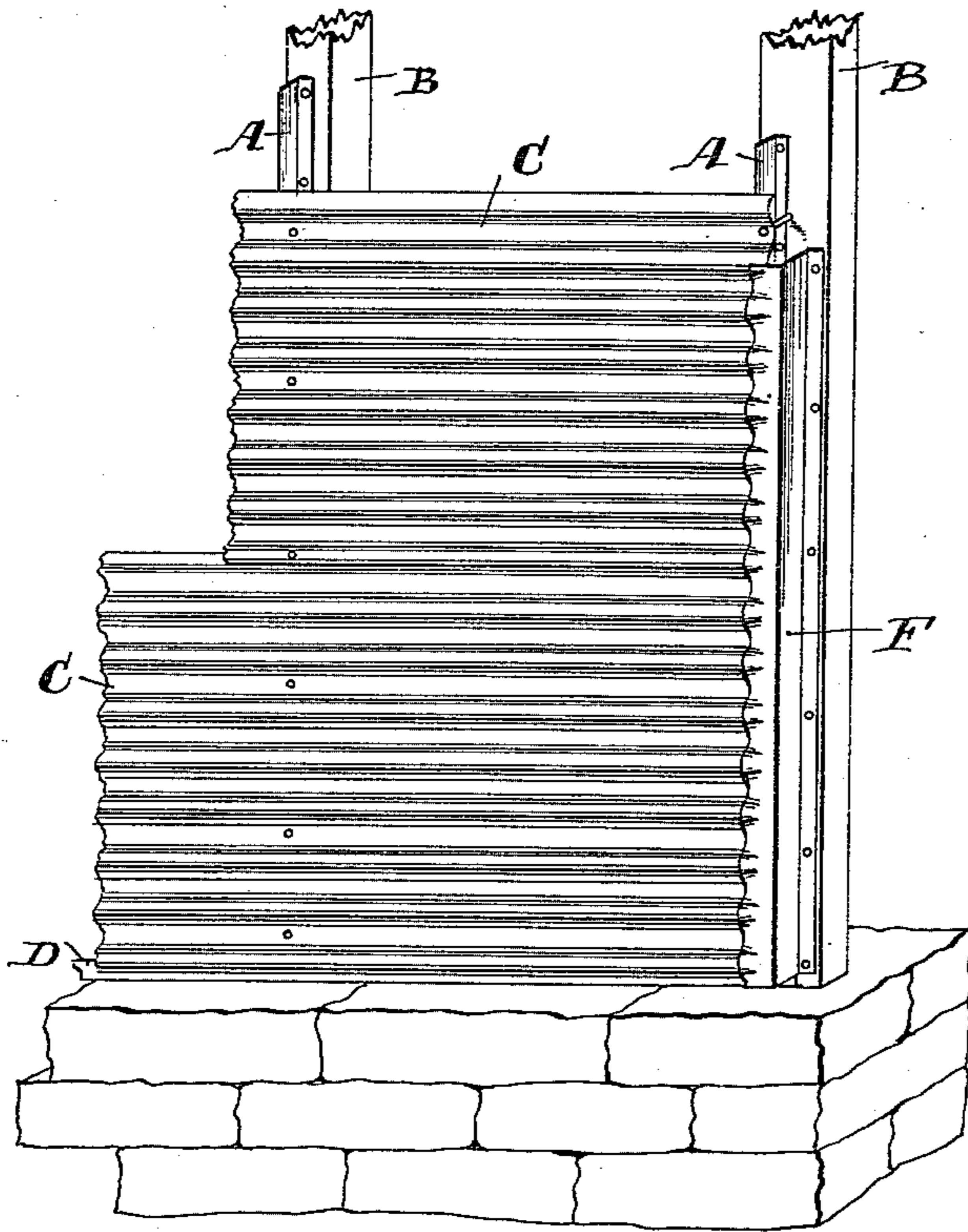


Fig. 4.

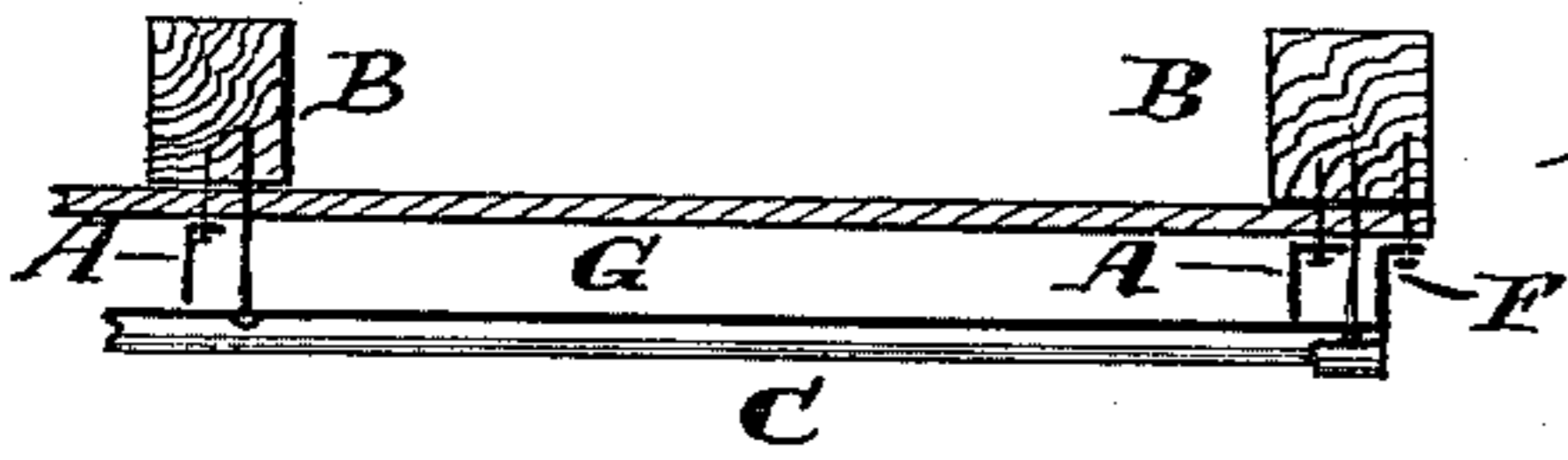


Fig. 2.

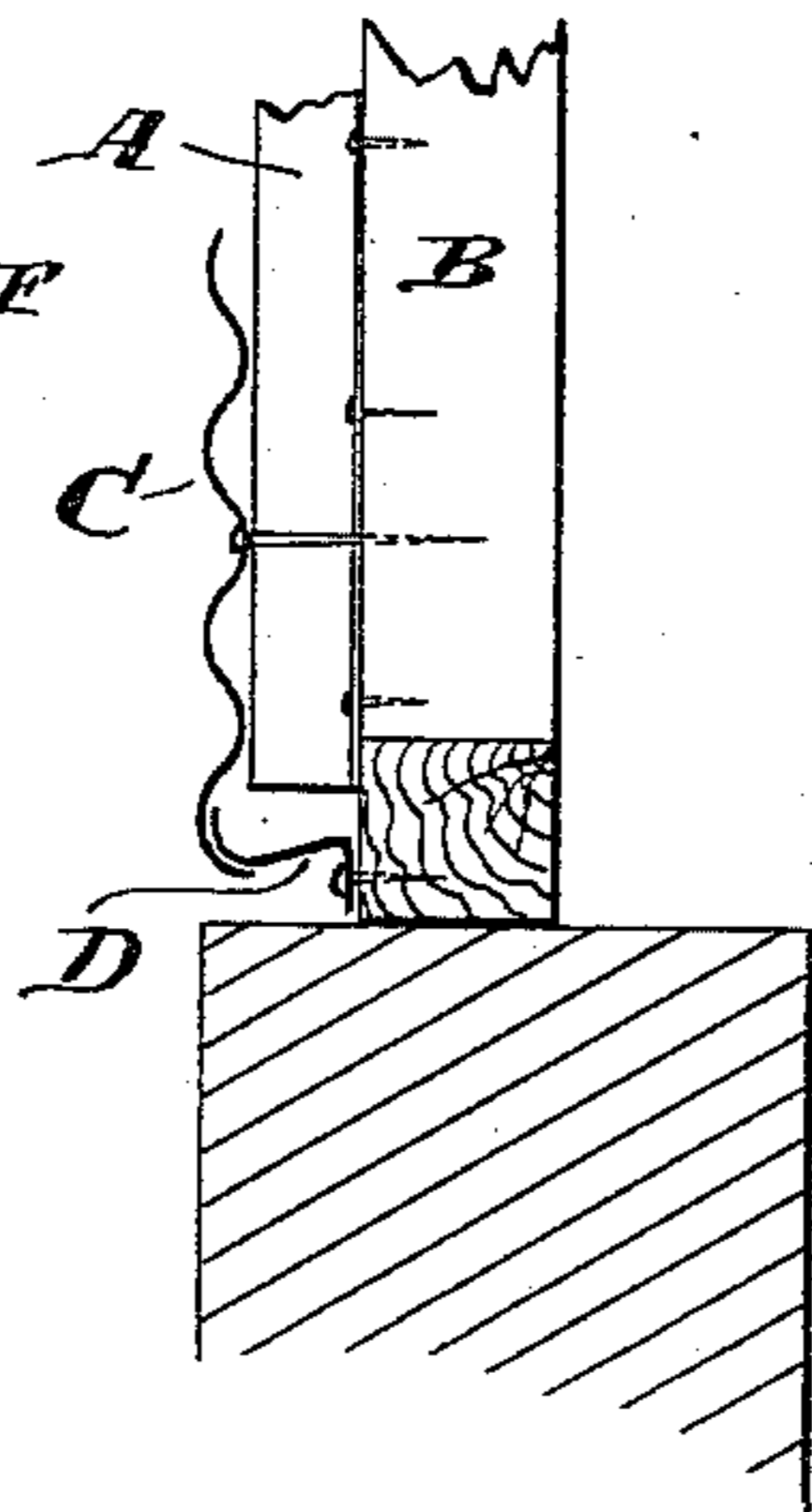
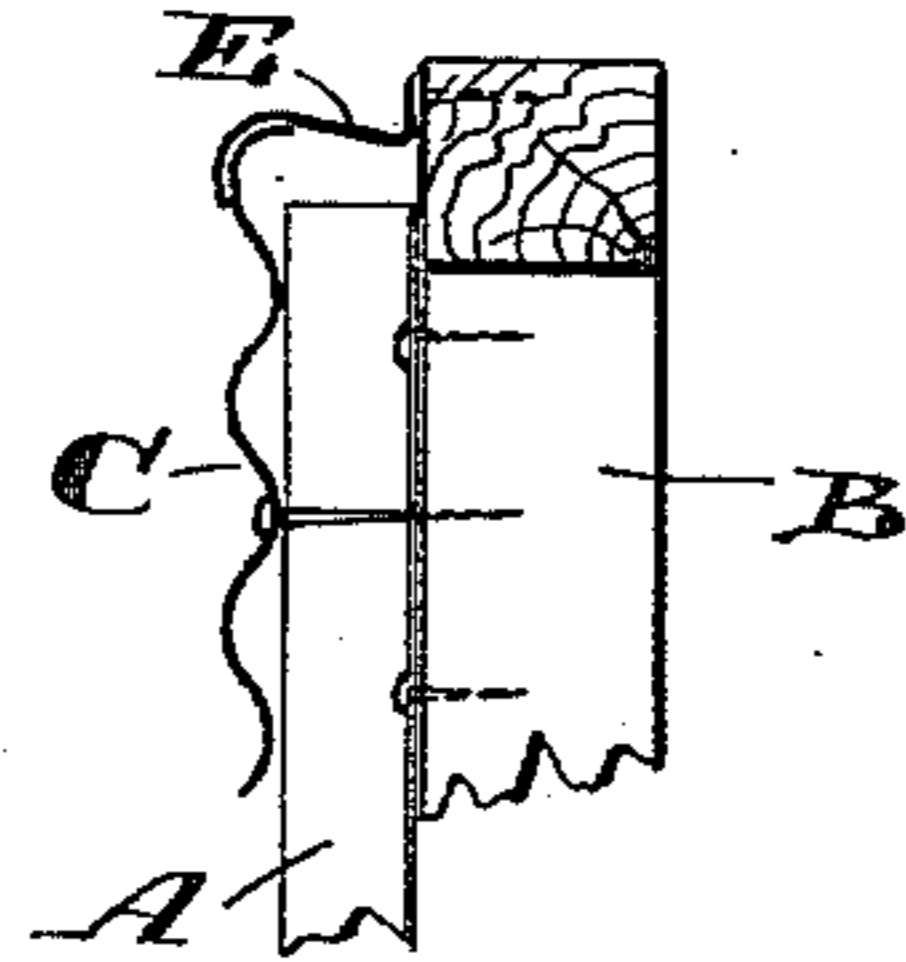


Fig. 3.



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# UNITED STATES PATENT OFFICE.

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## FIRE-PROOF CONSTRUCTION FOR BUILDINGS.

SPECIFICATION forming part of Letters Patent No. 420,282, dated January 28, 1890.

Application filed October 21, 1889. Serial No. 327,641. (No model.)

*To all whom it may concern:*

Be it known that I, LONGLEY LEWIS SAGENDORPH, a citizen of the United States, residing at Cincinnati, in the county of Hamilton, State of Ohio, have invented certain new and useful Improvements in Fire-Proof Construction for Buildings, reference being had to the accompanying drawings.

The object of my invention is to provide a means of construction whereby wooden structures may be rendered practically fire-proof, as will more fully hereinafter appear.

In the drawings forming a part of this specification, Figure 1 is a side elevation of a portion of one side of a building constructed according to my invention. Fig. 2 is a vertical section through a portion of the lower metallic siding-plate and its supporting horizontal strip, showing the application of said plate to the said strip. Fig. 3 is a vertical section through the top siding-plate and its overlapping horizontal strip, showing the preferred mode of finishing the siding. Fig. 4 is a horizontal section showing my invention as applied to a boxed frame.

My invention may be applied direct to the frame-work or studding of a building, or to a boxed frame, as desired; and it consists of a metallic flanged strip A, nailed through its flanged portion to the studding B, or to the boxed frame at desired intervals. When nailed to a boxed frame, it is preferred to have the strips nailed about two feet apart to correspond with the studding. The metallic siding-plates C are applied in a horizontal position against the vertical strips A, as shown, and nailed directly to the studding or box, the nails passing alongside of the strips A, as shown, which firmly retains said plates in contact with said strips. These separating-strips are preferably about two inches in width, but may be varied in proportion to the required air-space. The siding-plates are preferably corrugated, as shown, but may be of any suitable outline configuration.

My invention is applied as follows: The horizontal base-strip D is first applied, its outer flanged portion being bent to conform to the outline configuration of the lower edge of the siding-plate. Having secured the

lower siding-plate to position over said base-strip, each succeeding plate is applied in such a manner as that the lower edge of one plate will overlap the top edge of the next lower plate. The top plate having been secured to place, the top horizontal strip E is nailed to the top sill or boxing in such a manner as that its outer flanged portion will overlap and fit the top edge of said top siding-plate, as shown. The outer edge or end portions of the siding-plates are covered with a suitable cap-piece F, nailed to the corner studding or boxing, the overlapping portion of said cap-piece being of the same configuration as the outer edge of the siding-plates. It will be seen that the above construction is perfectly water-tight.

As is well known, when a frame or boxed structure is covered with metallic siding applied directly against the wood, the latter will readily ignite when the metal is heated to any great degree. As aforesaid, to overcome or greatly lessen this danger of igniting is the object of my invention, and is practically secured by reason of the air-space G, formed by reason of the separable separating-pieces A between the outer metallic siding and the wooden part of the structure. By reason of said air-space the wood cannot ignite until the metal covering has been melted, in which case no building would be absolutely fire-proof.

The advantage of my invention is at once apparent, as the cost of construction in the first instance is but little more than in the ordinary metallic siding, while the security attained is by far greater and the cost of insurance greatly lessened.

What I claim as new, and desire to secure by Letters Patent, is—

1. A fire-proof construction for wooden structures, consisting of overlapping metallic plates separated from the wooden structure by suitable metallic strips nailed thereto, and suitable metallic corner-strips overlapping the end portions of the plates, substantially as set forth.

2. In combination with a wooden structure, the base-strip D, siding-plates C, top strip E, and separating-strips A, the latter being inter-

posed between said structure and the siding-plates, the lower plate overlapping said base-strip, and the top strip overlapping the upper edge of the top plate, substantially as specified.

5 3. In combination with a wooden structure, the vertical separating metallic strips A nailed thereto, and the overlapping side plates C nailed to said wooden structure alongside of

said vertical strips, said plates being provided with suitable base, top, and corner-strips applied thereto, in substantially the manner set forth, and for the purposes set forth.

LONGLEY LEWIS SAGENDORPH.

Witnesses:

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L. PEDDRICK.