

(No Model.)

J. N. GLOVER.

DEVICE FOR RENDERING WOODEN HOUSES FIRE PROOF.

No. 311,309.

Patented Jan. 27, 1885.

Fig. 1.

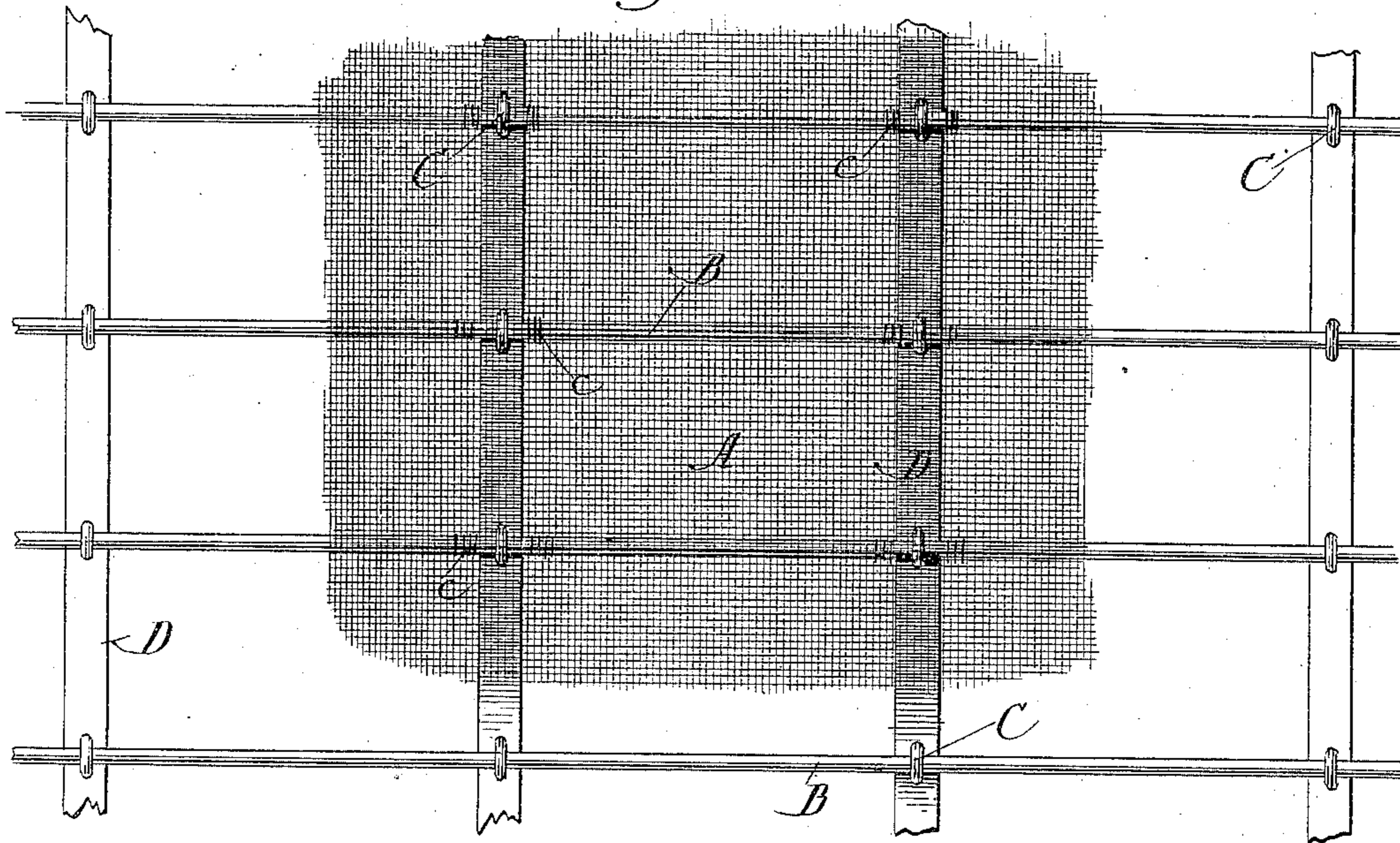


Fig. 2.

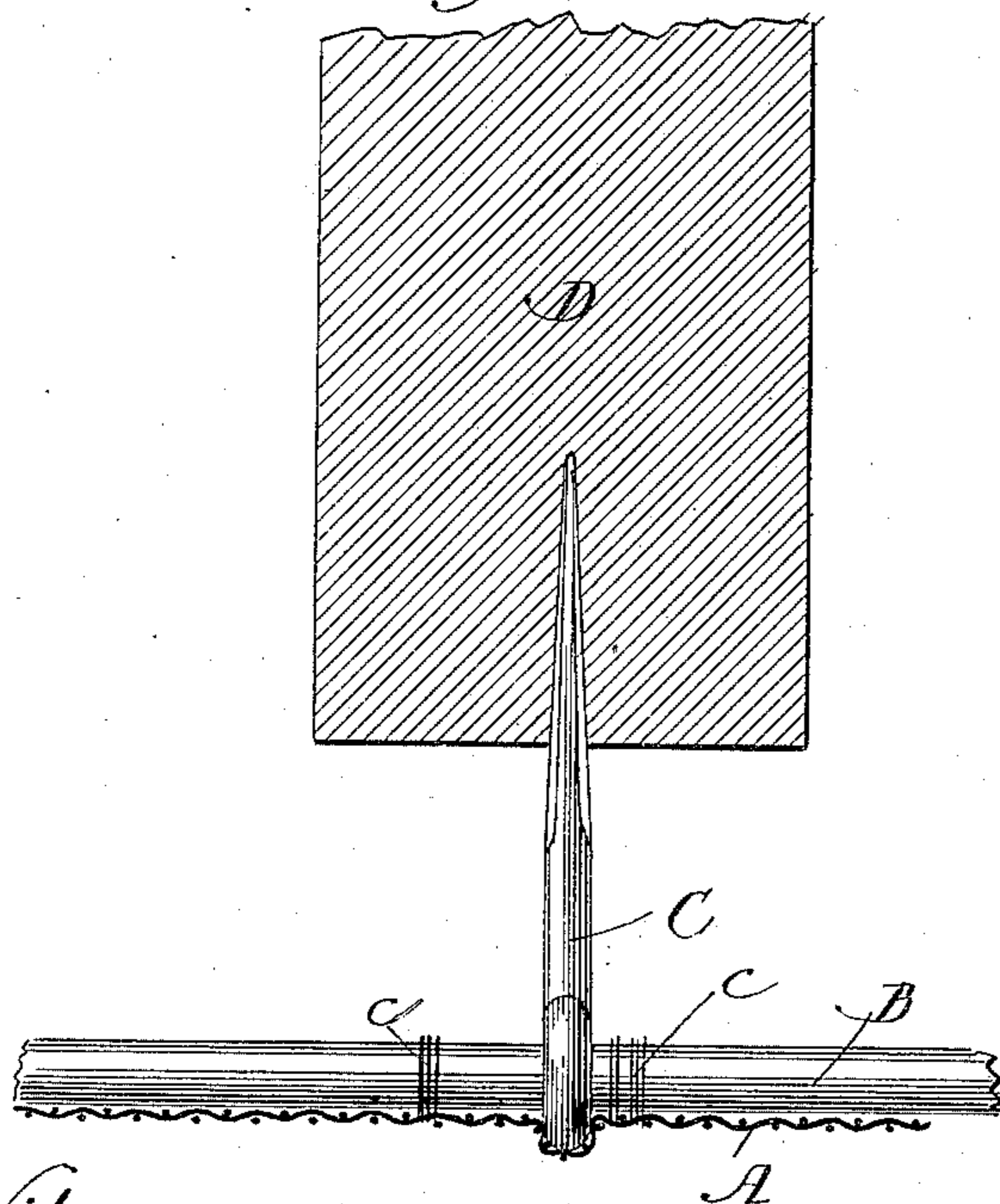
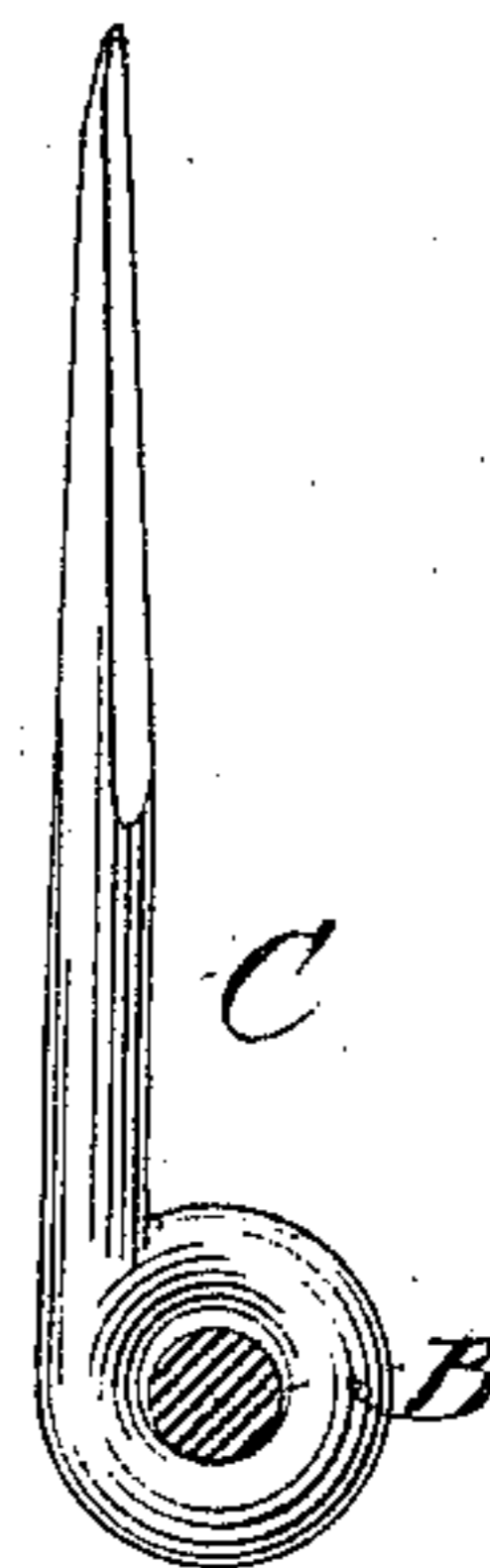


Fig. 3.



Witnesses:

Frank Blanchard
Louis Volting

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UNITED STATES PATENT OFFICE.

JOSEPH N. GLOVER, OF CHICAGO, ILLINOIS.

DEVICE FOR RENDERING WOODEN HOUSES FIRE-PROOF.

SPECIFICATION forming part of Letters Patent No. 311,309, dated January 27, 1885.

Application filed June 27, 1884. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH N. GLOVER, of Chicago, county of Cook, and State of Illinois, have invented certain Improvements in
5 Devices for Rendering Wooden Houses Fire-Proof, of which the following is a specification.

This invention relates to new and improved means for securing and holding plaster upon
10 the ceilings and walls of wooden houses, and upon the ceilings and wooden partitions of houses made of bricks, stone, and other like materials, and to rendering such ceilings and walls to a greater extent than heretofore fire-
15 proof.

My said improvement will be hereinafter fully described with reference to the accompanying drawings, in which—

Figure 1 represents a view from below of
20 sections of a series of joists provided with my improvement; Fig. 2, a detail view, on an enlarged scale, of a section of a joist, D, with a bolt, C, inserted into its lower edge, and a rod, B, passed through the eye of the bolt,
25 and a section of wire-cloth attached to the rod by means of the wires *c*; and Fig. 3, a like view of an eyebolt with a section of the rod B in position in the same.

Instead of the furrings fastened to the under edges of the joists, and laths upon the furrings, and the mortar applied to the laths, a series of eyebolts, C, are inserted into the lower edges of the joists at suitable distances
30 apart—say nine inches—in such a manner that metal rods B may be passed through the eyes of the bolts C and extend transversely across the joists and be held at a suitable distance from the joists, as shown in the drawings, and not be allowed to approach nearer
40 thereto than desired. Then, when the joists or the vertical studs of wooden buildings and of wooden partition-walls of brick and other like buildings have been provided with such rods so held from their wooden supports over
45 their entire length, the ceiling or wall, as the case may be, is covered with wire-cloth made of wire of suitable size, and having suitable openings or meshes, and attached to the rods

B by sewing or otherwise. The structure will then be ready for the plaster, which may be
50 spread upon it in the usual manner. The plaster will pass through the meshes of the cloth and form keys on the other side thereof, and leave sufficient air-space between the joists and keys of the plaster, so that in case
55 of fire the air will convey the heat away as fast as it may be developed, and the heated plaster will not be in contact with the wood of the joists or studs, and a much greater heat will be required to set them on fire than would
60 be without my improvement.

The eyebolt C is an important feature of my invention, since the single point of the same may be driven into the joist or stud with accuracy to the depth required, so that the rods
65 B and the wire-cloth lathing may be held parallel thereto and equidistant therefrom at all points, and the eye of the bolt completely surrounding and closely embracing the rod, the latter cannot yield either vertically or later-
70 ally, whereas if the rod were supported by a staple with two or more prongs the points of the same would be liable to spread in being driven, and thus forced out of shape and direction, and in any case the staple would not,
75 when in position, prevent the rod from yielding in the direction of the joist or stud.

What I desire to secure by Letters Patent as my invention is—

In combination with a wire-cloth lathing
80 for ceilings and wooden walls, a series of transverse rods, B, fastened to the lathing and extending across the joists or studs, and the eyebolt C, the point of which is adapted to be driven into the same and its eye to extend out
85 therefrom and inclose and confine the rods against both vertical and lateral motion and hold them at such distance from such joists or studs as to afford ample air-space between them and the plaster, after the same shall have
90 been spread and keyed upon the lathing, substantially as described.

JOSEPH N. GLOVER.

Witnesses:

FREDERICK C. GOODWIN,
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