

P. E. LANE.

Modes of Attaching Metallic Laths.

No. 155,526.

Patented Sept. 29, 1874.

Fig. 1.

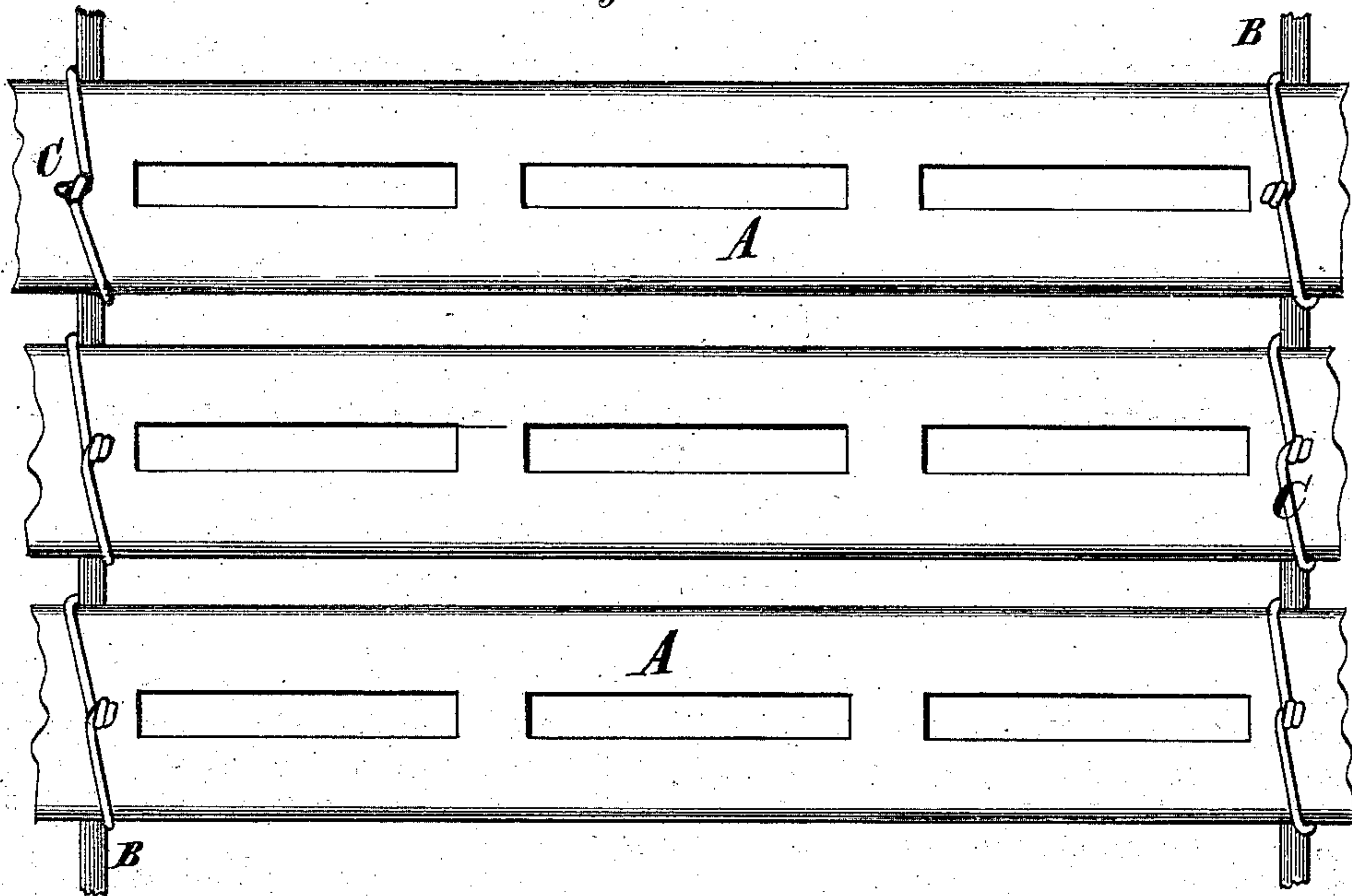
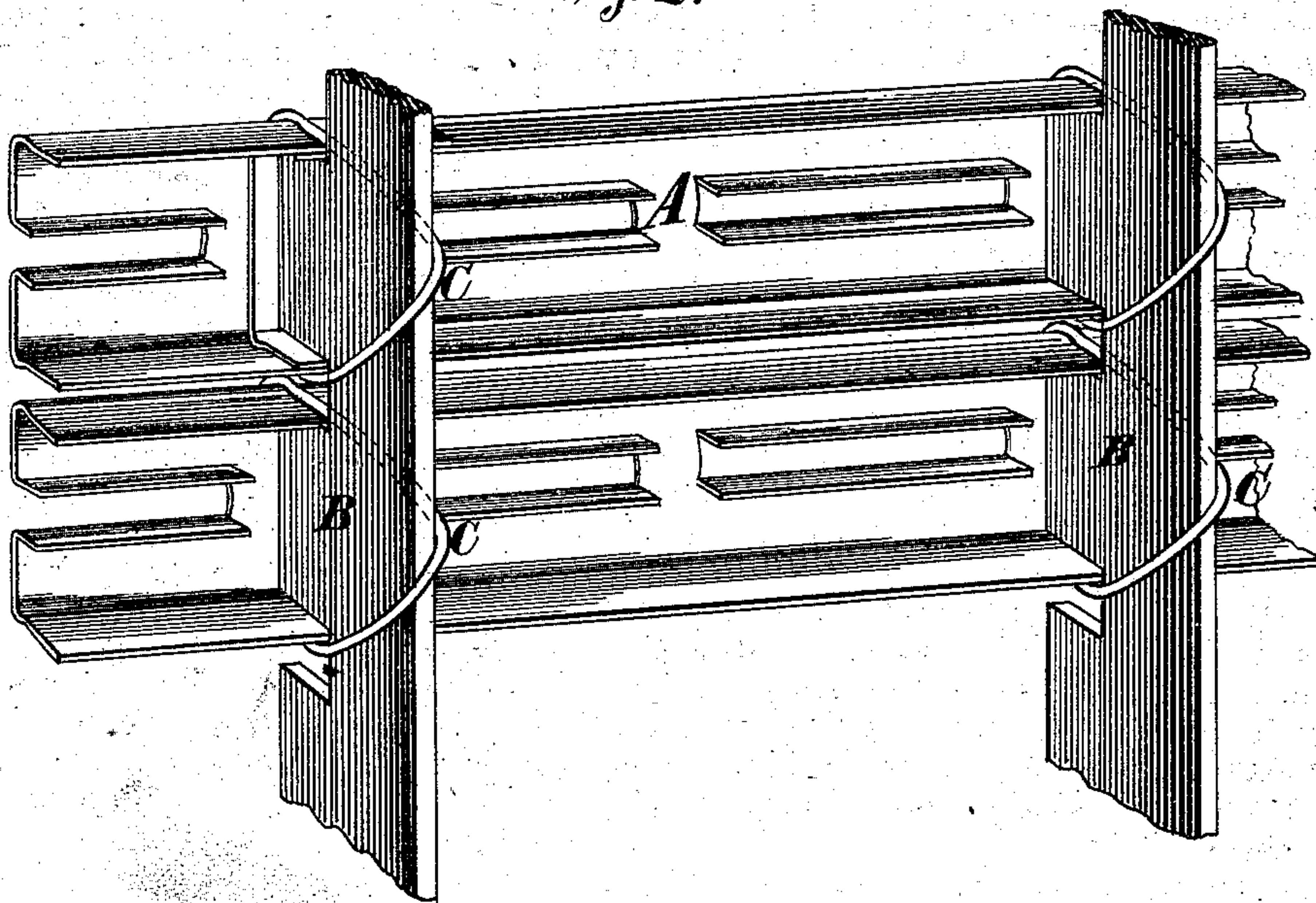


Fig. 2.



Witnesses.

A. Ruppert.

*[Signature]*

P. E. Lane

Inventor.

D. P. Holloway & Co.  
*[Signature]*

# UNITED STATES PATENT OFFICE.

PHILANDER E. LANE, OF MOUNT VERNON, OHIO, ASSIGNOR TO ISAAC V. HOLMES AND JOHN COOPER, OF SAME PLACE.

## IMPROVEMENT IN MODES OF ATTACHING METALLIC LATHS.

Specification forming part of Letters Patent No. **155,526**, dated September 29, 1874; application filed September 2, 1874.

*To all whom it may concern:*

Be it known that I, PHILANDER E. LANE, of Mount Vernon, in the county of Knox and State of Ohio, have invented a certain Improvement in Fastening Metallic Laths, of which the following is a description:

This invention relates to the construction of the metallic furring for fire-proof walls and ceilings, such as shown in Patent No. 84,881, granted Isaac V. Holmes December 15, 1868, and more especially to the mode of securing the metallic laths to the iron studs.

Various devices for this purpose, aside from those described in the said patent, have been devised and tested, all involving the bending or riveting of portions of the studs or the laths; and to do this successfully did not only require previous mechanical preparation of the studs and laths by punching and cutting, but it also necessitated the use of better iron, to enable it to stand or undergo, without breaking, the subsequent bending or riveting, than would otherwise have to be employed.

My improved fastening is intended to do away with all bending or riveting, so that the cheapest quality of iron can be used, and to furnish one of such a simple nature that it can be applied by any one not a skilled mechanic. It consists of pieces of wire tied tightly around the laths and the studs, where they intersect and interlock.

In the annexed drawings, Figure 1 is a front elevation of a section of metallic furring, the laths being fastened to the studs in accordance

with my invention. Fig. 2 is a perspective view thereof, showing the interior or rear side.

The same letters of reference are used in both figures in the designation of identical parts.

The metallic laths A and studs B are constructed and interlocked substantially in the manner set forth in the patent of Holmes, heretofore referred to, and to which reference may be had for a detailed description thereof. At the points of intersection of the studs and laths pieces of wire C are tied diagonally around them to bind them securely together. For this purpose I preferably use non-corrosive wire, not so heavy but that it can be readily twisted to secure it.

The drawings illustrate furring for a ceiling where the studs are comparatively narrow. In partition-walls, where the studs are necessarily wider, holes may be punched in them centrally at the points of intersection, through which to pass the wires for fastening laths on either side.

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

The interlocked laths A and studs B, in combination with the wire-ties C, substantially as and for the purpose specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

Witnesses: PHILANDER E. LANE.  
J. TYLER POWELL,  
D. P. HOLLOWAY.