

No. 765,963.

PATENTED JULY 26, 1904.

J. R. EVANS.
METALLIC LATHING.
APPLICATION FILED APR. 19, 1904.

NO MODEL.

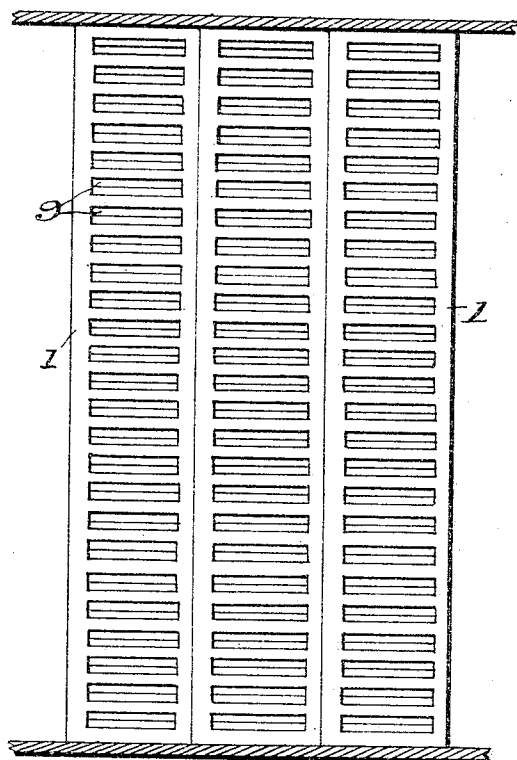


Fig. 1.

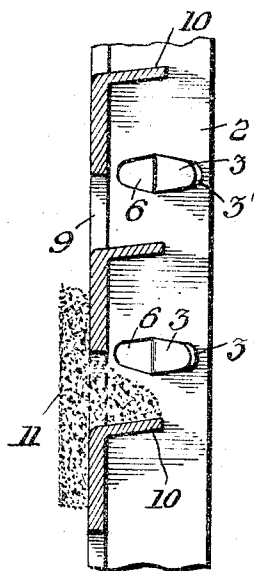


Fig. 2.

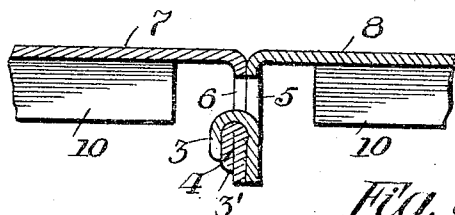


Fig. 3.

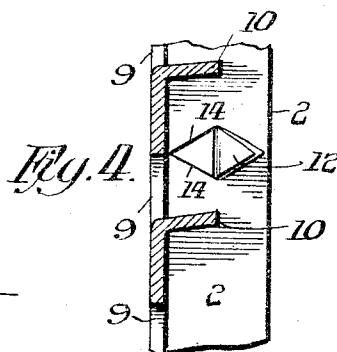


Fig. 4.

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UNITED STATES PATENT OFFICE.

JAMES R. EVANS, OF PITTSBURG, PENNSYLVANIA.

METALLIC LATHING.

SPECIFICATION forming part of Letters Patent No. 765,963, dated July 26, 1904.

Application filed April 19, 1904. Serial No. 203,831. (No model.)

To all whom it may concern:

Be it known that I, JAMES R. EVANS, a citizen of the United States of America, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Metallic Lathing, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention has relation to metallic laths; and the object of my invention is to provide laths of this character which may be firmly secured together, forming one compact and smooth wall or ceiling.

15 Briefly described, my invention comprises a lath which is formed of a strip of metal, the sides of said strip being flanged, and in the body portion of this strip I provide a plurality of sheared slots, the sheared portion of each slot being pressed inwardly, forming a shoulder upon which the plaster is adapted to rest and be supported.

25 My improved lath is preferably stamped out of strips of material, and in the flanges of said laths I provide clamping means whereby adjacent strips of lath may be firmly secured together in such a manner as the surfaces of each lath will lie in alinement with each other and present a solid wall or ceiling.

30 My improved lath further contemplates a novel way of supporting and holding the plaster, whereby the plaster will be prevented from falling or becoming cracked, this trouble having been experienced with the many forms of metallic laths now in use.

35 A further object of my invention is to provide a lath which when placed in position upon a wall or ceiling will extend the entire length of the ceiling or the entire height of the wall and be securely fastened to the joists, ceiling, or floor of a building by any suitable means adapted to the construction of the building. By the construction of my improved lath it will be possible to stamp the same from sheet metal and reduce the expense of manufacture to a minimum.

45 Many other features and advantages of my improved lath will be apparent from the foregoing description, taken in connection with the drawings, wherein like numerals of ref-

erence indicate like parts throughout the several views, in which—

Figure 1 is a front elevation of my improved laths, showing the same as applied to the wall of a room. Fig. 2 is a fragmental vertical sectional view of one of the laths, showing the manner of securing the laths to one another. Fig. 3 is a fragmental horizontal sectional view illustrating the means of securing my improved laths together. Fig. 4 is a fragmental vertical sectional view of a modified form of means for securing my improved laths to one another.

To put my invention into practice I employ ordinary sheet metal, from which my improved laths may be pressed or stamped and then cut into the desired lengths, which will be applicable to different-sized rooms where they are to be used. The reference-numeral 1 indicates a strip of metal which is cut of any desired length, and this strip has its sides flanged, as designated by the reference-numeral 2, and when the laths are placed in position these flanges are adapted to coincide with each other, and prior to securing these laths in position each flange is provided with a plurality of stamped or sheared lugs 3', and when the flanges are placed one against the other the lugs, as designated by the reference-numeral 3', are bent upon the body portion of the flange, as designated by the reference-numeral 4 and clearly illustrated in Fig. 3 of the drawings. The lugs 3 of the other flange are bent through their sheared openings 5 and the sheared openings 6 of the corresponding lath, from which the lugs 3' have been stamped or sheared, and the lugs 3 are then bent upon the lugs 3', thus locking the flanges of each lath together in a firm manner, whereby the surfaces 7 and 8 of the laths will lie in alinement with each other.

Each lath is provided with a plurality of sheared or stamped slots 9, the sheared portion of each slot being forced inwardly until it assumes almost a right angle to the body portion of the strip, and the reference-numeral 10 indicates this sheared or stamped portion. These slots are preferably formed in the body portion of the strip in a horizontal position, and the slots are equally spaced

one below another, as clearly illustrated in Fig. 1 of the drawings. In shearing or stamping these slots the depth of each slot is slightly smaller than the depth of the material that is left between each slot, thereby providing a metallic strip which will be extremely strong and durable and when once placed in position will present a solid wall. In Fig. 2 of the drawings I have illustrated, as designated by the reference-numeral 11, how the plaster will be supported and held upon the metallic lath, and it will be seen from this view that a portion of the plaster enters the slots 9 and is supported upon the sheared or stamped portion 10.

Reference will now be had to Fig. 4 of the drawings, wherein I have illustrated a modified form of means for securing my improved laths together, and in this construction the lugs 12 are preferably stamped or sheared from the flanges 2, said lugs being formed from two cuts 14 14, which converge to a point and form an angle, whereby when the lugs are forced out of engagement with their respective apertures they will be substantially triangular in shape and may be bent together in a manner similar to that shown and described in my preferred form of securing the laths together.

The many advantages of my invention will be apparent from the foregoing description, and while I have herein shown the slots 9 of the laths as being in horizontal alinement with each other it will be seen from the general shape of my improved laths that the same form a channel-bar which will be particularly adapted to be used where the joists of partitions are dispensed with, in such construction the flanges being secured together as above described and forming one solid wall of laths to which the plaster is applied, and it is obvious that I may form the slots 9 of the laths at any desired angle and of any desired size whereby the best results can be obtained from the same and I may also make other slight changes in the general construction of my im-

proved lath without departing from the general spirit and scope of my invention.

What I claim is—

1. Metallic laths comprising body portions having their sides flanged, said flanges having a plurality of sheared apertures formed therein, the sheared portions of one flange being bent upon themselves and the sheared portions of the adjacent flanges being bent through apertures of the first-named flanges and bent over the first-named sheared portions.

2. Metallic laths comprising body portions having their sides flanged, said flanges having a plurality of sheared apertures formed therein, the sheared portions of one flange being bent upon themselves, the sheared portions of the adjacent flange being bent through these sheared apertures and being bent upon the first-named sheared portion, said body portions having a plurality of sheared slots formed therein, the sheared portion of each slot being bent at an angle to the body portion of the metallic lath, substantially as described.

3. A metallic lath of a substantially channel shape, said laths comprising body portions having their sides flanged, said flanges being formed at a right angle to the body portion of said laths, a plurality of sheared apertures formed therein, the sheared portions of one flange being bent upon themselves, and the sheared portions of the flange coinciding with said flange being bent through the sheared apertures of said flanges and being bent upon the first-named sheared portions, said body portions having a plurality of sheared slots formed therein, the sheared portion of each slot being bent at substantially a right angle to the body portion of the lath, substantially as described.

In testimony whereof I affix my signature in the presence of two witnesses.

JAMES R. EVANS.

Witnesses:

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E. E. POTTER.