

T. H. KANE.
LATH ATTACHING DEVICE.
APPLICATION FILED FEB. 17, 1911.

997,558.

Patented July 11, 1911.

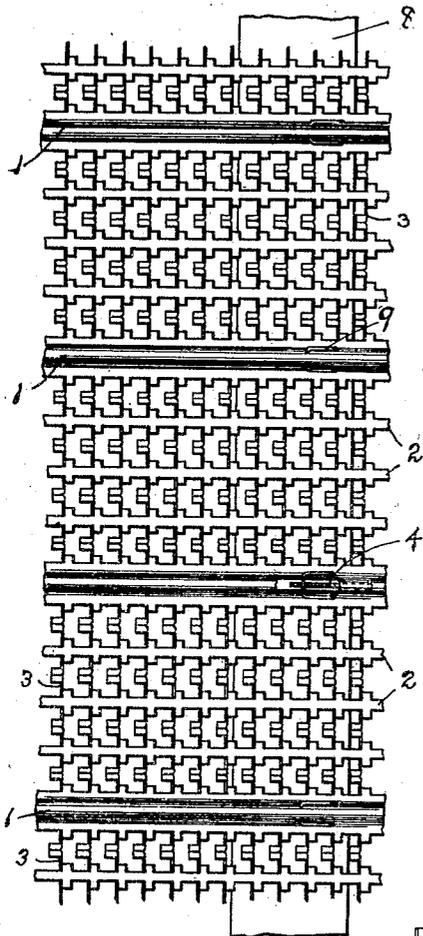


Fig. 1.

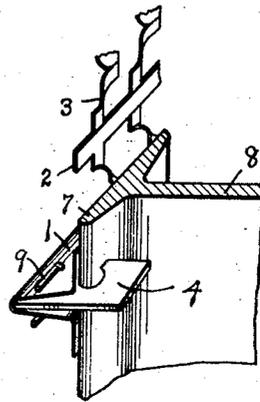


Fig. 2.

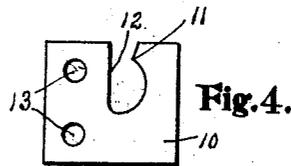


Fig. 4.

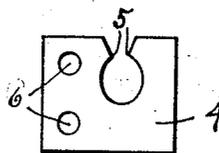


Fig. 3.

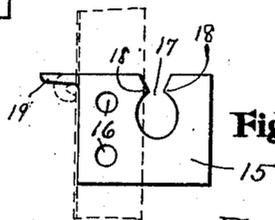


Fig. 5.

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LATH-ATTACHING DEVICE.

997,558.

Specification of Letters Patent. Patented July 11, 1911.

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To all whom it may concern:

Be it known that I, THOMAS H. KANE, a citizen of the United States, and a resident of Youngstown, in the county of Mahoning and State of Ohio, have invented a new and useful Lath-Attaching Device, of which the following is a specification.

This device relates to means for securing ribbed sheet metal, usually in expanded form, to metal beams, bars, or plates, and its object is to provide a cheap effective device of this character which can be quickly and easily secured in operative position.

In the accompanying drawing, Figure 1 is an elevation of a sheet of ribbed metal lath secured to a beam by means of these improved fastening devices. Fig. 2 is a perspective of a small portion of ribbed metal lath, of a portion of a beam, and of a fastening device. Fig. 3 is a plan of a clip. Fig. 4 is a plan of a modified form of clip. Fig. 5 shows another modification.

Similar reference characters refer to like parts throughout the several views.

Ribbed metal lath of the character shown in Fig. 1 comprises a series of parallel ribs 1, formed by bending parallel imperforate strips or bands of the sheet metal, narrow strips 2 between the ribs, and tongues 3 connecting the adjacent strips and ribs. The clips 4 shown in Fig. 3 are sheared from sheet metal, preferably hard spring steel, and formed with teeth 5 and holes 6. When the metal lath is positioned, these clips may be driven onto the flanges 7 of the I beams 8, or onto other proper portions of structural members, the teeth 5 engaging the flanges so securely that the clip can be removed only by the use of considerable force. These clips extend along in the hollow ribs 1. The two thicknesses of these hollow ribs are perforated by a proper tool and short wires 9 are pushed through the holes and through holes 6 in the clips and bent over as shown in Fig. 2. The clips will be proportioned according to the size of the ribs and of the flanges onto which they are driven. They may be of any desired shape or material so long as they have engaging members and holes to receive retaining wires.

In Fig. 4 a modified form is shown where the clip 10 has a single tooth 11, the opposite

edge 12 being straight, the holes 13 being the same as before described. After the metal lath has been secured to the beams, joists or uprights as described, plaster or cement may be applied to one or both sides in the usual manner. In Fig. 5 another modified form of clip is shown comprising a small plate 15 having the perforations 16 and the notch 17, into which notch the teeth 18 extend for the purpose of engaging the flange of the structural member. A finger 19 is formed on the clip. When these articles are to be put into use, the clips are driven onto the flanges of the rolled beams, and the ribbed sheet metal is laid against the beams with the sides of the ribs extending down over the clips. A blow with a hammer will force the finger 19 through the sheet metal, whereupon the fingers may be bent back against the ribs as shown in dotted lines in Fig. 5. The fastening wires 9 may be also employed if desired.

Having now explained my construction, what I claim as my invention and desire to secure by Letters Patent, is:—

1. A clip for securing ribbed sheet metal in position on flanged structural members, comprising a flat metal plate having a slot so said plate may be driven onto said flanges, said plate being formed with teeth projecting into said slot so as to engage the flange of the structural member in the slot, and an outwardly extending finger on one edge adapted to be bent down to hold the sheet metal against the structural member.

2. A clip for securing ribbed sheet metal in position, comprising a flat perforated metal plate having a slot into which an engaging tooth extends, thereby reducing the width or opening of the slot.

3. A clip for securing ribbed sheet metal in position, comprising a flat perforated metal plate having a slot into which an engaging tooth extends, thereby reducing the width or opening of the slot, and having a projecting finger adapted to be bent against the plate.

4. A device for securing ribbed sheet metal to the flanges of structural members comprising a slotted and perforated plate adapted to be driven onto the flange of the structural material so said flange extends

into the slot, and to project into the groove
formed by ribbing the sheet metal, said
plate having an inwardly projecting engag-
ing member, and a wire fastener extending
5 through perforations in the rib and in the
plate.

In testimony whereof I have signed this

specification in the presence of two sub-
scribing witnesses.

THOMAS HENRY KANE.

Witnesses:

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