W. H. KLAUER.

CORNER BEAD.

APPLICATION FILED SEPT. 16, 1915.

1,264,812. Patented Apr. 30, 1918.

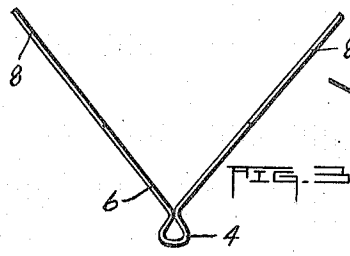


FIG. 3.

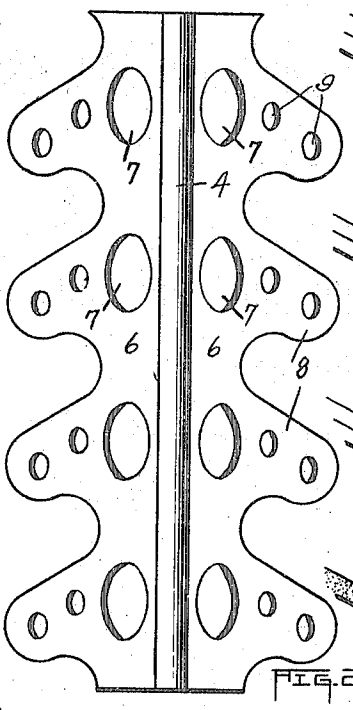


FIG. 2.

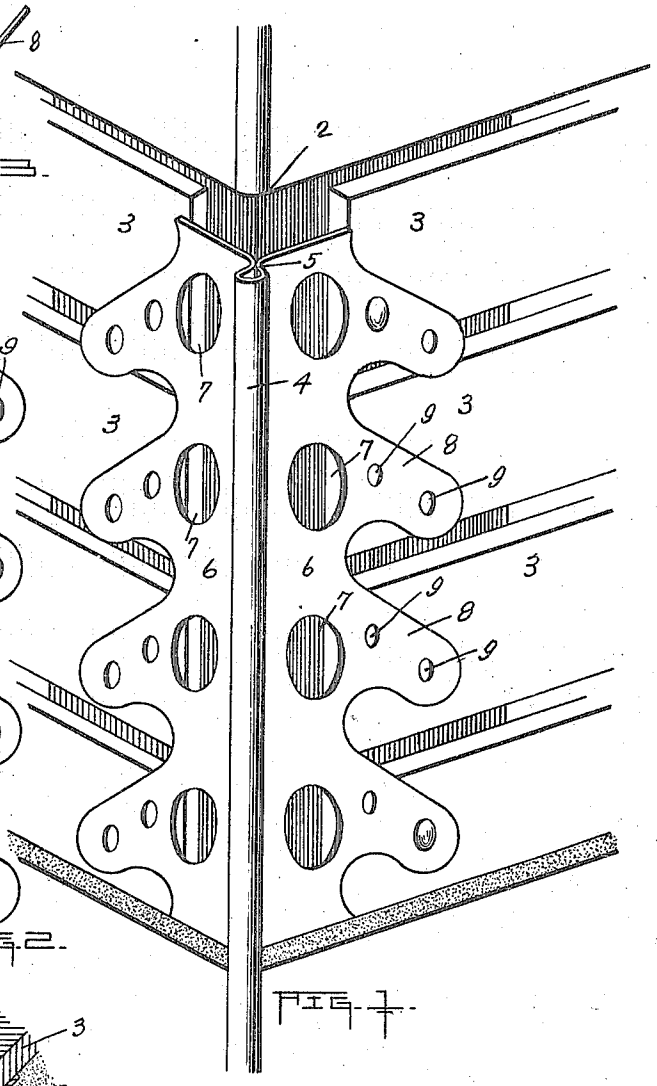


FIG. 1.

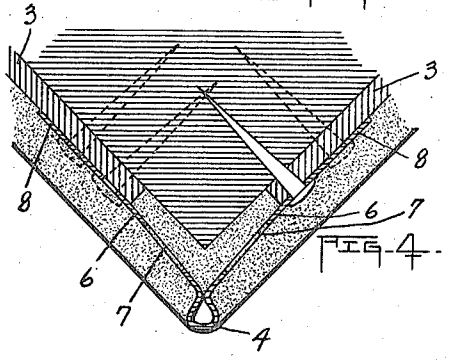


FIG. 4.

WITNESSES:-

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CORNER-BEAD.

1,264,812. Specification of Letters Patent. Patented Apr. 30, 1918.

Application filed September 16, 1915. Serial No. 50,921.

To all whom it may concern:

Be it known that I, WILLIAM H. KLAUER, a citizen of the United States, residing at Dubuque, in the county of Dubuque and State of Iowa, have invented certain new and useful Improvements in Corner-Beads, of which the following is a specification.

My invention relates to improvements in metal corner beads.

Generally, my invention relates to improvements in one-piece sheet metal corner beads and has special reference to structural formation to produce a bead of the highest efficiency.

One of the objects of my invention is to produce an article of this class capable of attachment to a structure corner in a relation of permanence as to attachment, and also as to its position. Other benefits and advantages will appear from the disclosure herein.

My invention consists in the forming from a blank strip of metal a central longitudinal bead in substantially tubular form, the free edges of the metal of the fold abutting on a line transverse of the center of the tube to prevent pressure or force from expanding the tube; the provision of a laterally extended winged portion disposed relatively at an angle of substantially ninety degrees and provided with plural openings lengthwise of the bead to permit entrance of plaster material, and long slender fingers spaced apart and extending from the winged portion and disposed downwardly at a substantial angle from the perpendicular line of the bead, said fingers being provided with plural perforations extending lengthwise of the fingers and on a line with their inclination.

Referring to the drawings—

Figure 1 is a front elevation of a section of my corner bead;

Fig. 2 is a front perspective view of the same shown in attachment to the corner of a structure;

Fig. 3 is an end view of my corner bead; and

Fig. 4 is a transverse section of my corner bead applied in a wall structure.

I have had large experience and have acquired extensive knowledge of the art relating to corner beads in connection with my manufacture of sheet metal goods, and have noted that the structures in use employing a central fold of metal and extended fingers that do not cross the folds, are expansible under pressure, causing the overlying plaster to be broken. Also, in the use of similar structures, where the alternating fingers are caused to cross the fold, the necessary spacing to effect the crossing is too great to secure full efficiency and permanence of attachment. Also, in both of the structures noted, wherein the fingers in all instances with which I am familiar extend at right angles to the perpendicular line of the bead, the points of connection through said fingers too frequently lie over the interstices between the lath, thus failing in service as attaching means.

I have devised my structure with a view of avoiding all of the disadvantages above noted, by folding the metal for the corner placement in the form of a tube, with its free edges abutting. This gives no chance for expansion or separation of the folded parts under pressure or blow. I have arranged to have all the fingers on the respective sides of the blank extend in the same direction, thereby enabling me to place them close together and also, I have inclined the fingers downwardly and provided them with plural perforations lengthwise of the fingers and on a line with the inclination thereof, that they may better serve to overlie the spaces between the lath, and to bring one of the perforations into register with the lath. There is also the advantage in my structure, through the downward inclination of the fingers, that even if the fastening nails should become detached, the inclination of the fingers serves as a lock against dislodgment of the corner bead.

Referring to the drawings, 2 indicates the corner of a frame structure; 3, lath applied in the usual way. The corner bead is applied by placing in position at the corner to embrace the same, the finger portions overlying the lath. 4 is the tubular corner portion of the bead, its free edges being brought into abutment as at 5. 6 are winged portions of the corner bead provided with plural perforations as 7 adapted to permit the entrance of plaster material, said perforations in function being the same as the interstices or spaces between the latter, that is, to cause an interlock. 8 are the downwardly inclined finger portions of the corner bead and I have shown two perforations as 9 in each finger for the purpose of facilitating attachment, it being designed

in practice, and only necessary that one nail shall be applied to secure each finger.

I have shown one form of my invention, and while form is in a sense the essence thereof, still I do not desire to limit myself to the exact formation of parts and proportions thereof, but desire to include as part of my invention any substantial application of embodiment thereof involving the principle therein shown.

What I claim is:

As an article of manufacture, a corner bead comprising a sheet of metal bent longitudinally at substantially right angles to form wings and rounded at the bend to form a tube with the terminal edges of the tube abutting and the wings extending directly therefrom, the sheet of metal being stamped to provide edgewise extending fingers spaced apart along the free edges of the wings and being inclined toward one end of the sheet of metal, the wings and the fingers having plural perforations therethrough for respectively receiving a plastic body and attaching nails, the latter being adjustable in the desired perforations of the fingers for securing the same to the adjacent underlying portions of the laths.

In testimony whereof I have affixed my signature in presence of two witnesses.

WILLIAM H. KLAUER.

Witnesses:

MYRTLE LANDER,

MARY B. DRUMMY.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."