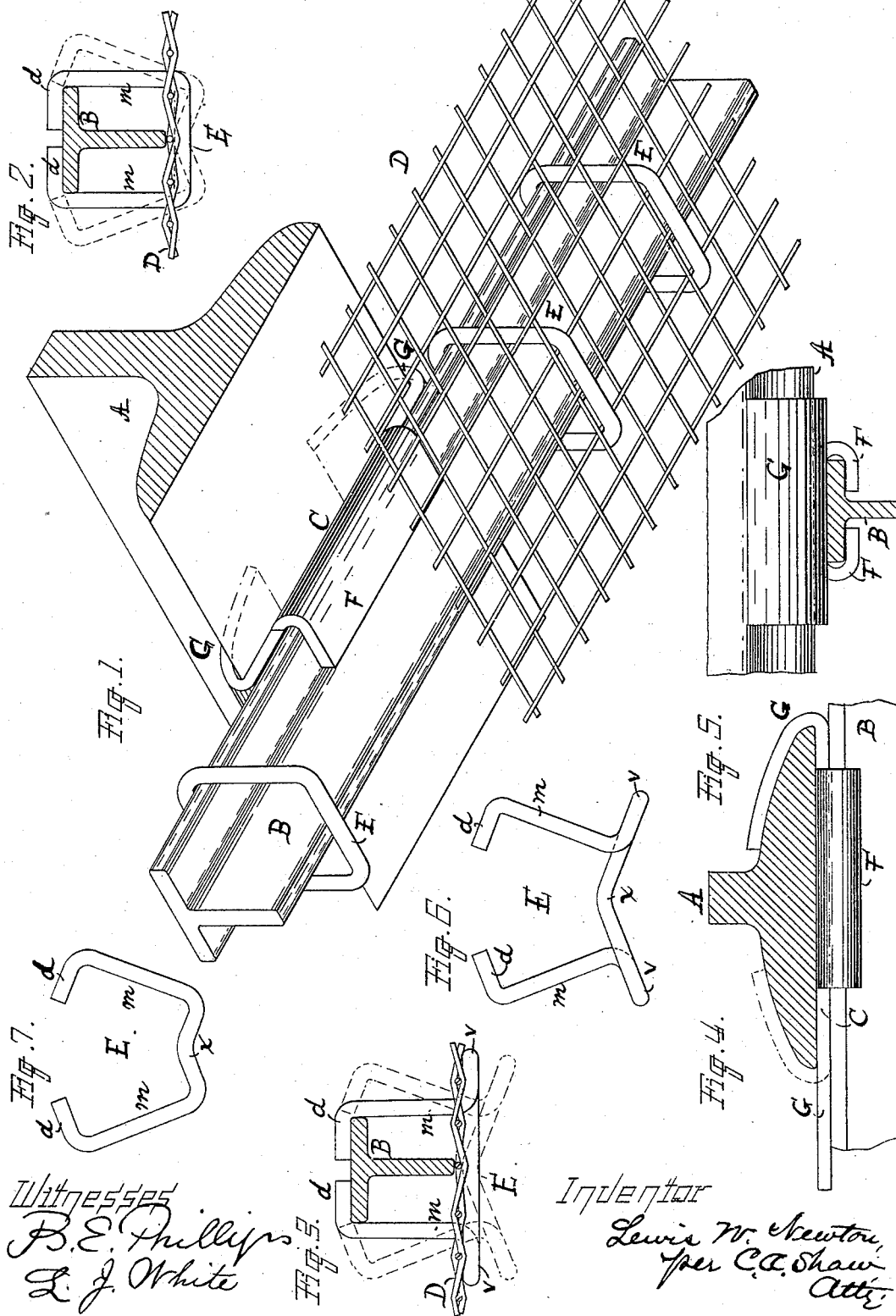


(No Model.)

L. W. NEWTON.
METALLIC LATHING.

No. 305,103.

Patented Sept. 16, 1884.



Witnesses
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UNITED STATES PATENT OFFICE.

LEWIS W. NEWTON, OF CLINTON, MASSACHUSETTS, ASSIGNOR TO THE
CLINTON WIRE CLOTH COMPANY, OF SAME PLACE.

METALLIC LATHING.

SPECIFICATION forming part of Letters Patent No. 305,103, dated September 16, 1884.

Application filed June 26, 1884. (No model.)

To all whom it may concern:

Be it known that I, LEWIS W. NEWTON, of Clinton, in the county of Worcester, State of Massachusetts, have invented a certain new and useful Improvement in Metallic Lathing, of which the following is a description sufficiently full, clear, and exact to enable any person skilled in the art or science to which said invention appertains to make and use the same, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is an isometrical perspective view representing my improvement in use; Fig. 2, an end elevation of the furring-strip, showing the manner of using a modification of the staple; Fig. 3, a like view of the furring-strip, showing the manner of using the staple; Fig. 4, a side elevation showing the hanger in use; Fig. 5, a rear elevation of the hanger shown in Fig. 4; Fig. 6, a side elevation of the staple, and Fig. 7 a side elevation of a modification of the staple.

Like letters of reference indicate corresponding parts in the different figures of the drawings.

My invention relates more especially to that class of metallic lathing in which wire-cloth is employed for receiving and holding the imposed plastering; and it consists in a novel construction and arrangement of the parts, as hereinafter more fully set forth and claimed, by which a more desirable and effective article of this character is produced than is now in ordinary use.

The nature and operation of the improvement will be readily understood by all conversant with such matters from the following explanation.

In the drawings, A represents the beam or girder; B, the furring-strip; C, the clamp or hanger for attaching the furring-strip to the beam; D, the wire-cloth or lathing proper, and E the staple for attaching the cloth to the furring.

The clamp or hanger consists of a flat piece of iron of suitable size and thickness, provided with two downwardly and inwardly curved flanges, F, which embrace the furring, and two

upwardly and inwardly turned flanges, G, which embrace the beam, as shown in Figs. 1, 4, and 5, the flanges F projecting from the body of the clamp at right angles to the flanges G.

The furring is composed of strips or pieces of light T-iron of the usual form, and the wire-cloth is of the quality and texture usually employed for such purposes.

The staple is preferably composed of a piece of stout wire, and has its body bent, as shown at *x*, its sides inclined outwardly, as shown at *m*, and its ends bent inwardly at right angles to its sides; as shown at *d*. The ends of the body of the staple are also folded laterally or bent inwardly, as shown at *v*, to form wings or projections on which the wires composing the cloth rest, thus affording a better support for the lathing proper than when a plain staple is employed, or such as is shown in Figs. 1, 2, and 7.

In the use of my improvement, the flanges F of the clamp C having been turned down to receive the furring-strip B, and one of the flanges G turned up to embrace the foot of the beam or girder A, the strip B is inserted in the flanges F, and the upturned flange G hooked onto the beam, as shown in Fig. 4, after which the other or opposite flange G is turned up to embrace the beam, as shown in Fig. 1. The wire-cloth is then placed in position on the furring and the staple E passed through its meshes astride of the furring-strips, with the bend *x* opposite or against the lower edge of the strip, after which the staple is struck with a mallet or any other suitable implement for the purpose, thereby straightening its body and causing it to embrace the furring-strip in a manner which will be readily obvious without a more explicit description, the dotted lines in Figs. 2 and 3 showing the position of the staple before its body is straightened.

The clamps C are designed to be constructed as shown in Fig. 4, or with one flange unbent and kept in stock for ready use. The staples made as shown in Figs. 6 and 7 are also designed to be kept in stock in like manner.

For heavy wire-cloth the plain staple shown in Figs. 1, 2, and 7 may be used, although I

deem that shown in Figs. 3 and 6 preferable in nearly all instances. The staple is also well adapted for attaching sheet-metal lath to iron furring and wire-cloth to wooden furring; and I do not, therefore, confine myself to its use with wire-cloth and iron furring exclusively. Neither do I confine myself to constructing it with two wings or projections, *v*, as one is sometimes sufficient, or to making it of wire, or to using T-iron for the furring, as angle-iron or any other suitable form may be employed.

The inclined side *m* and its bent end *d* constitute what I denominate an "arm," and this arm, when attached to a body having the bend *x*, is adapted to grasp the furring and firmly and securely attach the lathing thereto when the staple is placed in proper position, and the body straightened by means of a mallet or other suitable implement, as described.

It is not absolutely necessary to construct the staple with two arms, although two are preferable, and when made with two both may rise from the same side of the body, if desired.

From the foregoing it will be understood that one of the most essential features of the staple consists in the bent body adapted to cause the arm to grasp and hug the furring when it is straightened.

Having thus explained my invention, what I claim is—

1. As a new article of manufacture, a staple for attaching lathing to furring, said staple being provided with an arm adapted to grasp the furring-strip, and with a body bent in such manner that when the arm is placed in proper position in respect to the strip and lathing and the body is straightened it will cause the arm to grasp and hug the strip, substantially as described.

2. As a new article of manufacture, the staple *E*, having its body bent, as shown at *x*, and provided with the side *m* and bent end *d*, substantially as set forth.

3. As a new article of manufacture, the staple *E*, having its body bent, as shown at *x*, and provided at either end of its body with an arm adapted to grasp the furring, substantially as described.

4. As a new article of manufacture, the clamp or hanger *C*, provided with the flanges *G F*, constructed and arranged substantially as set forth.

5. The improved metallic lathing herein described, the same consisting of the wire-cloth *D*, staple *E*, furring *B*, and hanger or clamp *C*, in combination with the beam or girder *A*, substantially as described.

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