

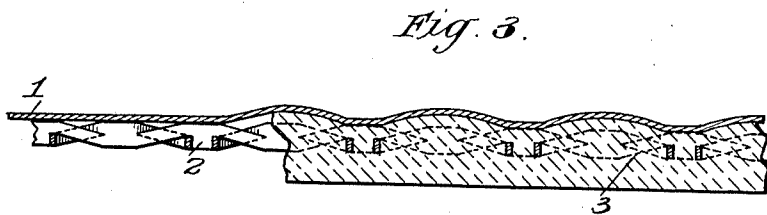
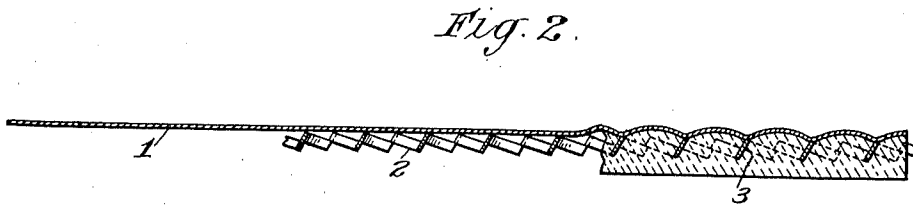
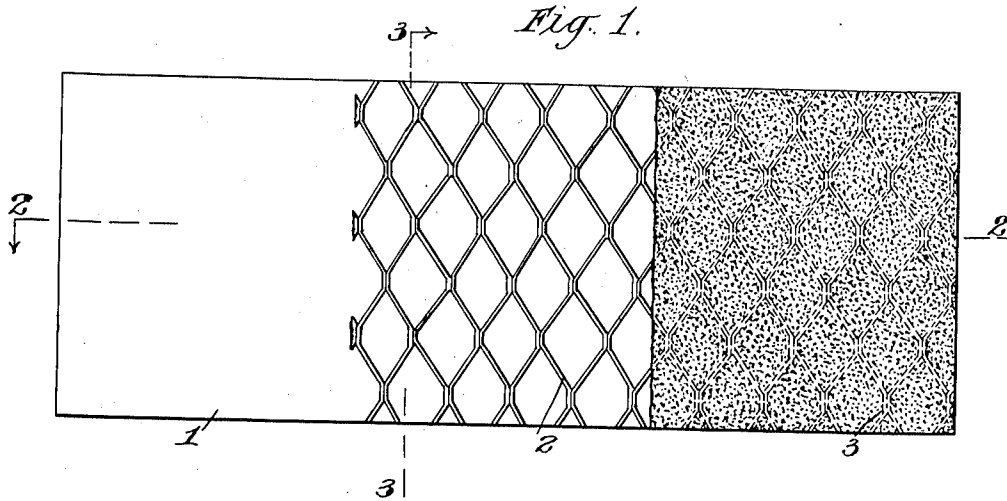
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LATH.

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1,061,389.

Patented May 13, 1913.



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UNITED STATES PATENT OFFICE.

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LATH.

1,061,389.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JACOB H. LEIST, a citizen of the United States, residing in the city of Portland, county of Multnomah, and State of Oregon, have invented certain new and useful Improvements in Lath, of which the following is a specification.

My invention relates to lath, and more particularly to metallic lath, and by this term I mean sheets of perforated metal, wire netting, or other metallic structure adapted to be used as a foundation for receiving and holding a coating of plaster, of whatever material.

I am aware that there are numerous forms or designs of sheet metal lath now in use, and that this kind of lath has many advantages and is being largely used in building and wall construction. The lath is first secured to the studs or beams and one or more coats of plaster, cement or other material is applied directly to the face thereof, being forced through the perforations or openings therein and protruding from the opposite or back side thereof in the form of fingers. These portions or fingers of the plaster in most cases protrude from a half or three-quarters of an inch to an inch or more through the perforations or openings in the lath and rest one upon the other at the back side of the lath, and are easily broken off. A great waste of the material is thus caused by its being worked through the openings or perforations of the lath without being in any way formed into a mass or sheet upon the back of the lath. If this material thus worked through the lath were formed into a coherent mass or sheet, it would, of course, serve a good purpose, but hanging as it does in protruding portions or fingers, with spaces therebetween, and being easily broken off, it constitutes a waste.

I have conceived the idea of providing an inexpensive backing for this kind of lath, a backing or mold sheet of paper which can be attached directly thereto for the purpose of molding the material into a sheet or solid mass on the back side of the lath, and also serving to limit the amount of material which is allowed to be worked through the perforations or openings in the lath as it is applied thereto. This backing or mold sheet is preferably of paper, although a mold sheet formed of fabric of any suitable and inexpensive kind might be used. It is ap-

plied directly to the back side of the lath before the plaster or other coating material is applied to the face thereof. I preferably use coal tar, roofing pitch, asphalt, or other like material for applying the backing sheet to the lath.

The invention will be readily understood from the following description, taken with the foregoing, and with the accompanying sheet of drawings illustrating one embodiment thereof, and in which—

Figure 1 is a face view showing, from left to right, a section of paper backing, a section of the metallic lath consisting of a sheet of expanded metal, and a section of the lath with backing and plaster applied thereto; Fig. 2 is a sectional view through Fig. 1, taken on line 2—2 thereof; Fig. 3 is a sectional view through Fig. 1, taken on line 3—3 thereof, and enlarged for purpose of illustration.

Referring now to the drawings, 1 designates a paper backing, here shown to be a plain sheet, 2 a section of metallic lath without the plaster applied thereto and with the paper backing attached to the back side thereof, and 3 a section of the lath with the paper backing and with a coating of plaster applied to the face thereof. This paper backing is preferably secured to the lath with the use of tar, pitch, asphalt, or other suitable material which can be quickly and readily applied to the lath before the paper is placed thereupon, although it would be possible to treat the paper and apply it to the lath. As soon as the paper is secured thereto, the plaster can be applied to the face of the lath in the usual manner.

The metallic lath in common use and shown in the drawing is such in its form and design that when a plain sheet of paper is applied flatwise thereto, there are left openings between the strands of the lath and the paper sufficient to permit the material to form into a solid mass or sheet as it is applied thereto in a moist condition. The metallic lath shown is that well known as expanded metal, formed by slitting the metal and drawing or forcing out the strands to open the slits and turn the strands at an angle to the plane of the metal, the joints between the strands forming portions projecting beyond the strands and only these portions engaging the paper, as clearly shown in the drawing. The same result of

openings between the body of the lath and the paper may be secured with lath of other forms having projecting portions. The paper also, serves to hold the material firmly for the reason that said material adheres to the paper through the perforations in the lath very tenaciously. If corrugated paper is used, of course, there is more open space between the paper and the lath, and a greater amount of the material will be formed in these openings between the paper and the lath. This will be readily understood.

It is suggested that the building paper which is usually used in the construction of outside walls, might be applied to the back side of the lath and thus serve the double purpose of keeping the building warm, if it be an outside wall, and of forming the plastering material which works through the lath into a coherent mass or sheet which will be of real strength and protection, as in case of fire.

I do not, of course, limit the invention to the particular form here shown for purposes of illustration, knowing that slight changes can be made therein without departing from the spirit of the invention, except as I may be limited by the hereto appended claims forming a part hereof.

I claim:

1. A new article of manufacture consisting of metallic lath and a backing mold sheet secured on one side thereof by means of an adhesive, substantially as and for the purpose described.

2. A new article of manufacture consisting of metallic lath and a backing mold

sheet secured on one side thereof by means of an adhesive applied to the lath, substantially as and for the purpose described.

3. A new article of manufacture consisting of metallic lath having projecting portions and a backing mold sheet secured on one side thereof by means of an adhesive between said sheet and the projecting portions of the lath, said sheet being spaced away from the lath between the projecting portions to provide spaces for passage of plastic material between the lath and sheet for molding a solid body of plastic material against the mold sheet, substantially as and for the purpose set forth.

4. A new article of manufacture consisting of expanded metal lath having its strands turned at an angle to the plane of the metal, and a paper backing mold sheet secured on one side thereof by means of an adhesive between said sheet and the projecting strand joints of the lath, said sheet being spaced away from the lath strands between the projecting joints to provide spaces between the sheet and the lath strands for the passage of plastic material between the lath strands and paper to mold a solid body of plastic material against the sheet, substantially as and for the purpose set forth.

In witness whereof, I have hereunto set my hand at Portland, Oregon, this 19 day of February, 1912.

JACOB H. LEIST.

In presence of—

J. C. STRENG,
CHAS. H. KOFF.