No. 724,866. PATENTED APR. 7, 1903.

G. J. HOLL.

EXPANDED METAL STRUCTURE.

APPLICATION FILED FEB. 4, 1903.

NO MODEL.

Fig. 1.

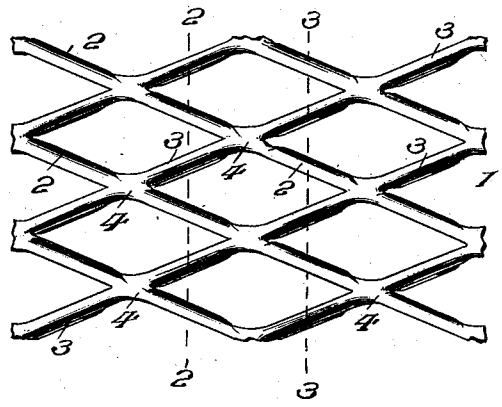


Fig. 2.

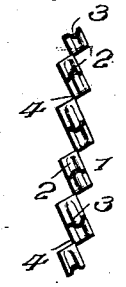


Fig. 5.

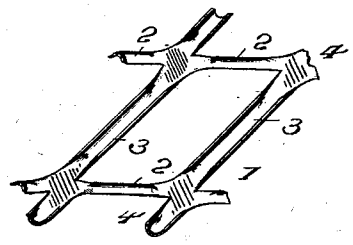


Fig. 3.

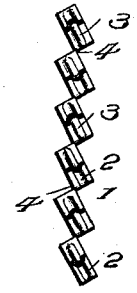
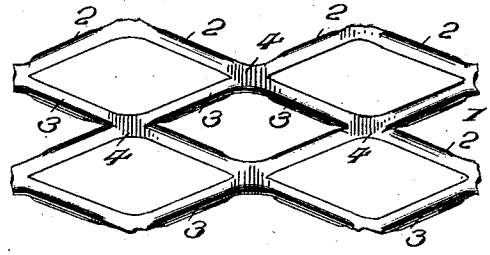


Fig. 4.



Inventor.

Witnesses

Gustav J. Holl.

By

Attorney

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

GUSTAV J. HOLL, OF CLEVELAND, OHIO.

EXPANDED-METAL STRUCTURE.

SPECIFICATION forming part of Letters Patent No. 724,866, dated April 7, 1903.

Application filed February 4, 1903. Serial No. 141,910. (No model.)

To all whom it may concern:

Be it known that I, GUSTAV J. HOLL, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Expanded-Metal Structures; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The object of this invention is to provide an expanded metallic structure or lathing which may be made of light material and so constructed that it will securely hold or clench the plaster and which may be manufactured without danger of cracking or breaking at the junctures between the ribs or expanded portions.

The invention will be hereinafter fully set forth, and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is a plan view of lathing made in accordance with my invention. Figs. 2 and 3 are cross-sectional views on lines 2 2 and 3 3, Fig. 1. Fig. 4 is a fragmentary view of a slight modification. Fig. 5 is a detail view of the construction shown in Fig. 4.

Referring to the drawings, the slits 1 are preferably of the break-joint variety, the expanded sheet presenting the appearance of numerous diamond-shaped openings. Each rib 2, constituting an expanded portion, is formed with a corrugation 3, running longitudinally thereof, but stopping short of the ends—that is, the corrugations do not extend to the points of juncture 4. These corrugations may be alternately concaved and convexed, so as to face on opposite sides of the structure, as shown in Fig. 1, or they may all face in the same direction, as shown in Fig. 4.

The corrugations are formed before the metal is expanded; but inasmuch as they do not extend to the points of juncture between the ribs all danger of cracking or breaking at such points is avoided, and hence the metal may be expanded as readily as if the corrugations were not formed therein.

From what has been said it will be seen that I have provided a very substantial improvement in expanded-metal structures and that by means thereof the lathing will be very stiff, although formed from very thin material, the corrugations greatly adding to the strength and durability of the article. Furthermore, they insure the clenching or holding of the plaster to a ceiling, as well as to a wall.

I claim as my invention—

1. As a new article of manufacture, an expanded-metal structure having diagonally-arranged ribs or expanded portions formed with corrugations running longitudinally thereof and terminating within their lengths.

2. As a new article of manufacture, an expanded-metal structure having diagonally-arranged ribs or expanded portions extended from meeting-points or junctures, each rib being formed with a groove running longitudinally thereof and terminating within its length, as set forth.

3. As a new article of manufacture, an expanded-metal structure having diagonally-arranged ribs or expanded portions, each rib being formed with a corrugation extended longitudinally thereof for a portion of its length, the corrugations of adjacent ribs being faced in opposite directions, as set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

GUSTAV J. HOLL.

Witnesses:
EDWARD S. ALLEN,
GRAFTON L. MCGILL.