

T. H. KANE.
PROCESS FOR FORMING RIBBED LATH.
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1,039,954.

Patented Oct. 1, 1912.

Fig. 1.

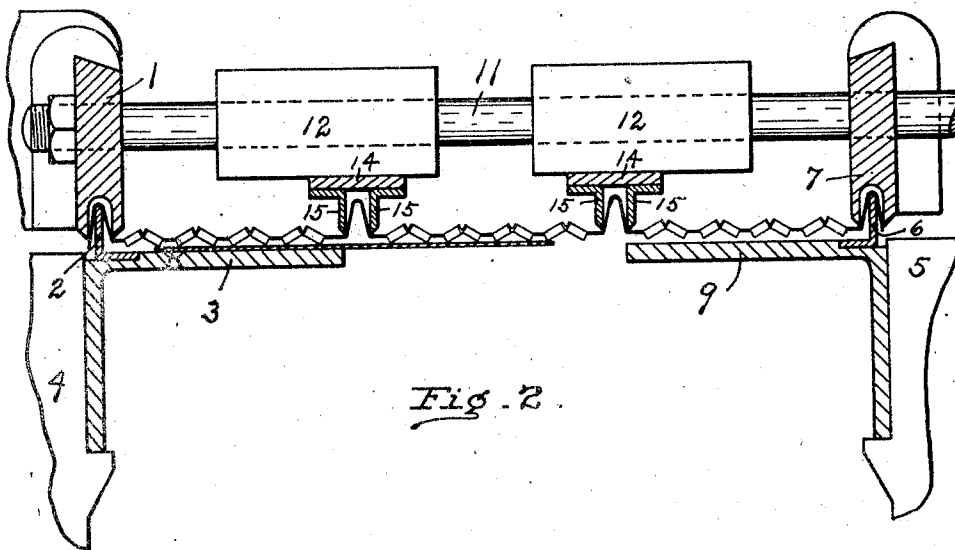
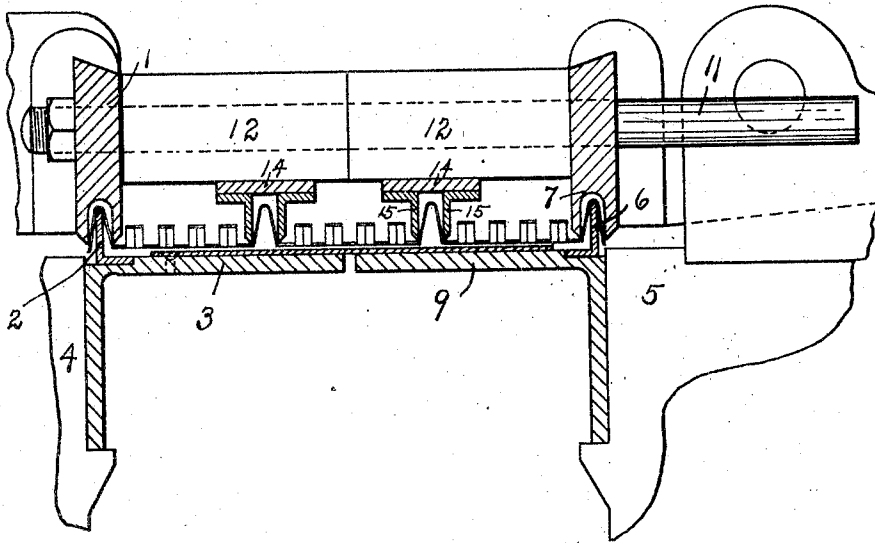


Fig. 2.

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UNITED STATES PATENT OFFICE.

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PROCESS FOR FORMING RIBBED LATH.

1,039,954.

Specification of Letters Patent.

Patented Oct. 1, 1912.

Application filed June 24, 1911. Serial No. 635,120½.

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 Process for Forming Ribbed Lath, of which the following is a specification.

This invention relates to ribbed expanded metal or ribbed-lath, and it comprises a simple, effective and economical method of producing such material.

The machines which may be employed to carry out this process are such as are shown in my previous Patents Numbers 949,483, dated February 15, 1910, and 968,361, dated August 23, 1910, but any other means may be employed to carry this process into effect.

The finished material is of the same general class as is shown in the Kahn Patent No. 987,374, dated March 21, 1911. Blank sheets are first slitted and grooved, whether the grooving or slitting comes first is immaterial. The ribs are then drawn apart to expand the slitted portions. Care must be taken to prevent the ribs from flattening out during the expansion, for which purpose the ribs adjacent the portion being expanded are engaged by jaws or grippers. The slitting of the sheets may be on any desired plan or system. The number of ribs in each sheet may be any number desired.

In the accompanying drawing which is similar to Sheet 3 of my Patent No. 949,483 above cited, Figure 1 is a cross section of a portion of a machine for expanding the ribbed and slitted material. Fig. 2 is a similar cross section showing the material expanded.

The machine has a stationary jaw 1 with a groove to receive one outer rib of the ribbed and slotted material, which rib fits

over a stationary flange or plate 2. The plate or table 3 is carried by the head 4 and serves to support the sheet metal. A movable head 5 carries a flange or plate 6 and jaw 7 to engage the outer rib of the sheet metal, and the supporting plate or table 9. Stationary bars 11 carry the slidable blocks 12, to which blocks are secured means to prevent the intermediate ribs of the sheet metal from opening. In the present case, these means consist of the flat bars 14 and angle bars 15.

When the parts and the sheet of material are in the positions shown in Fig. 1, the jaws may be separated laterally, carrying with them the outer ribs of the sheet metal. This causes the slitted portions between the ribs to expand, the ribs being prevented from expanding. It is evident however, from the patents cited, that this mechanism is only shown as an example of what may be used to carry out the process forming the subject-matter of this application for patent.

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

The process of forming ribbed expanded metal which consists in laterally separating the ribs of previously ribbed and slitted sheet metal while at the same time preventing the expansion of the ribs adjacent the slitted portion.

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

THOMAS HENRY KANE

Witnesses:

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