

May 29, 1923.

1,456,599

R. N. JENSEN

PLASTER BOARD

Filed Sept. 6, 1921

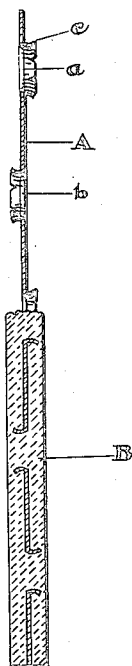


Fig. 2

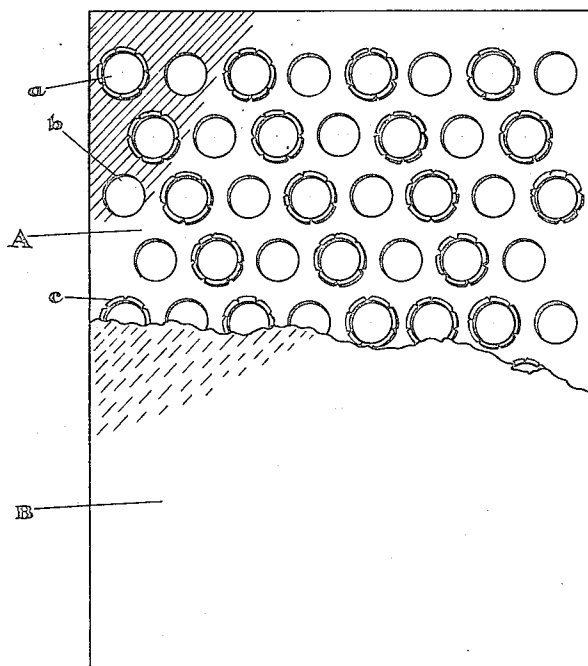


Fig. 1

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Patented May 29, 1923.

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UNITED STATES PATENT OFFICE.

RASMUS N. JENSEN, OF SANDY, UTAH, ASSIGNOR TO MOSES FAGGI AND RASMUS N. JENSEN, TRUSTEES OF METALGYP COMPANY, OF SALT LAKE CITY, UTAH.

PLASTER BOARD.

Application filed September 6, 1921. Serial No. 498,680.

To all whom it may concern:

Be it known that I, RASMUS N. JENSEN, a citizen of the United States, residing at Sandy, in the county of Salt Lake and State of Utah, have invented certain new and useful Improvements in Plaster Boards, of which the following is a specification.

My invention relates to plaster board, and has for its object to provide a metal reinforced plaster board in which the metal sheet is perforated by punching portions of the metal sheet from one side while adjacent perforations are punched from the opposite side to cause portions of the metal to protrude as flanges toward both sides of the sheet to cause a layer of plaster to adhere firmly to said sheet and to act as transverse reinforcements in each of said side sheets of plaster while the main body of said metal sheet also acts as a reinforcement between said sheets of plaster. A further object is to provide a metal reinforced plaster board through any portion of which nails may be driven to secure it in place without disturbing or breaking the plaster part when fastening it in place on the wall or ceiling.

These objects I accomplish with the device illustrated in the accompanying drawings in which similar letters of reference indicate like parts throughout the several views, and as described in the specification forming a part of this application and pointed out in the appended claims.

In the drawings in which I have shown a substantial embodiment of my invention Figure 1 is a plan view of a fragment of the board, parts cut away. Figure 2 is an edge view of the board, showing the protruding portions or flanges of the metal around the perforation when the plaster sheets have been removed.

The present invention consists of the metal sheet A, having a plurality of perforations *a* made therein by punching some of the holes from one side of the sheet and other perforations *b* from the other side, and in doing the punching the displaced material is formed into a flange *c* practically at right angles to the plane of the sheet. The perforations *a* and *b* may be in rows with the next and alternate rows staggered in position and in the direction given the protruding portion or flanges *c*. The purpose of so displacing and arranging the material struck out of the general plane of the sheet

A is to form protruding portions of material which will be covered and surrounded by the plaster and act as lateral reinforcements as well as the reinforcement in the general plane of the finished sheet.

The perforated sheet A is covered on both sides with plastic plaster B preferably about three-sixteenths of an inch thick on each side, which plaster when dried adheres to the surface of the metal sheet, fills the perforations *a* and *b* and surrounds the flanges *c* and forms a solid board about three-eighths of an inch in thickness, with the flange portions of the metal protruding into the plaster, and so imbedded therein that the plaster must be crushed between adjacent flanges *c* before the board can be bent. The perforations *a* and *b* are close together and throughout the entire sheet of metal, thereby furnishing numerous openings through which nails may be driven to secure the finished board in place when used, and without any danger of breaking the plaster even when the board is cut into smaller sections for use. The plaster B is made of calcined gypsum or any other material, which may be used in a plastic condition and which will harden when dried.

Having thus described my invention I desire to secure by Letters Patent and claim:—

1. A plaster board of the class described, comprising a metal sheet having a plurality of perforations therein; flange like portions of said metal sheet formed in making said perforations protruding in opposite directions from the plane of said sheet; and cover sheets of plaster on both sides of said metal sheet filling said perforations and surrounding said flange like portions.

2. A plaster board comprising a thin metal sheet having a plurality of holes punched therein staggered in relation to each other both in position and in direction of punching; flange like portions of said metal sheet formed in punching said holes protruding in both directions from the plane of said metal sheet; and a sheet of plaster filling said holes and surrounding said flange like portions and adhering to the metal sheet and flange like portions as and for the purposes described.

In testimony whereof I have affixed my signature.

RASMUS N. JENSEN.