May 5, 1925. 1,536,932

C. A. ROLFE

KEYED INSULATING BOARD

Filed Aug. 17, 1921

FIG. 5

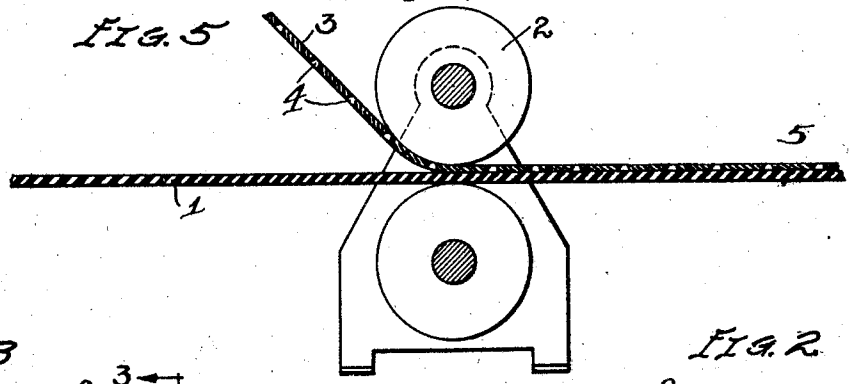


FIG. 3



FIG. 2



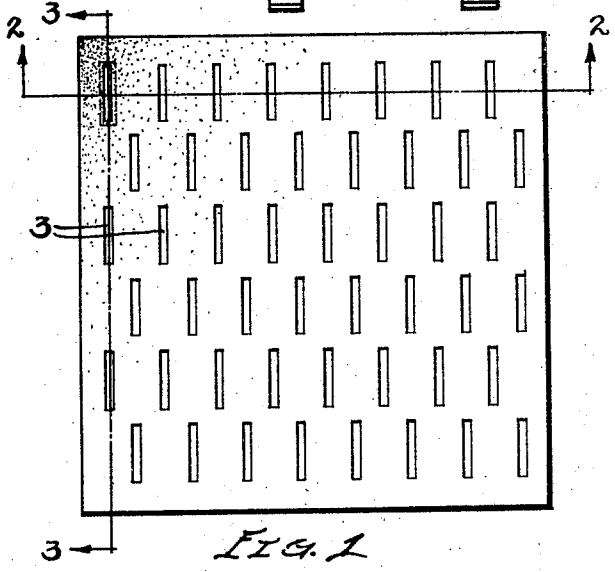


FIG. 1

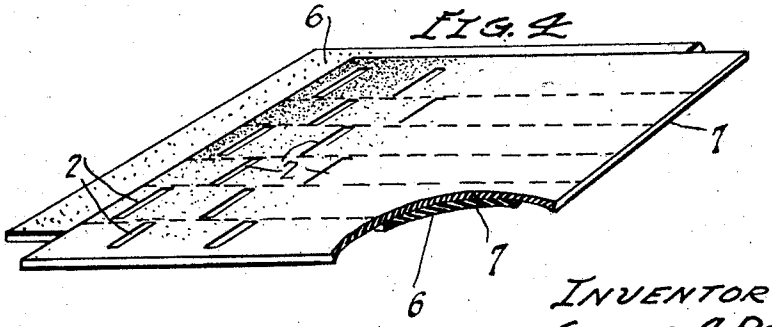


FIG. 4

INVENTOR
CHARLES A ROLFE
BY C. A. Enochs
ATTORNEY

Patented May 5, 1925. 1,536,932

UNITED STATES PATENT OFFICE.

CHARLES A. ROLFE, OF ST. PAUL, MINNESOTA.

KEYED INSULATING BOARD.

Application filed August 17, 1921. Serial No. 493,153.

To all whom it may concern:

Be it known that I, CHARLES A. ROLFE, a citizen of the United States, and a resident of St. Paul, in the county of Ramsey and State of Minnesota, have invented certain new and useful Improvements in Keyed Insulating Boards, of which the following is a specification.

One object of my invention is to provide in an article of the kind described improved means for keying plaster thereto.

Another object is to provide in an article of the kind described a face that will have a maximum strength for the material used and a back that will have maximum insulating qualities for the material used.

With these and incidental objects in view, the invention consists of certain novel features of construction and combination of parts, the essential elements of which are hereinafter described with reference to the drawing, which accompanies and forms a part of this specification.

In the drawing Fig. 1 is a side elevation of one embodiment of my invention; Fig. 2 is a section taken on the line 2—2, Fig. 1; Fig. 3 is a section taken on the line 3—3, Fig. 1; Fig. 4 is a perspective view of the board shown in Fig. 1 and Fig. 5 is a conventional representation of one means by which the board may be manufactured.

As shown in Fig. 5 the back board 1 is formed by any suitable wet process and is brought to the rolls 2 while it is still moist.

The face board 3 is likewise formed by any suitable wet process and has formed therein the dovetailed keys 4 during the process of making the sheet.

The face sheet 3 is preferably made of a firmer and stronger texture than the back sheet 1, which is preferably somewhat loose in texture and has a high insulating value and the two sheets are joined together by pressure of the rollers 2 so as to combine into a composite sheet 5, Fig. 5.

The dovetail keys 3 are similar to those described in my copending application of even date, entitled "Keyed insulating board", and the substantial difference between the two inventions is that while in the other application aforesaid, the board is formed of two individual boards that are joined together in a suitable manner after they are completely formed, in this invention the two portions, face and back, are joined during the process of manufacture so the result is a board, the face of which has great strength and the back of which has high insulating qualities.

A board made in this style has great mechanical strength on account of the nature of the face portion of the board, which also has some insulating qualities, and has high insulating qualities on account of the back portion of the board, which is formed particularly with reference to obtaining the highest insulating qualities.

Such a board is extremely cheap to manufacture and to mount on a studding and at the same time it gives great mechanical strength and has high insulating qualities.

While I have described my invention and illustrated it in one particular design, I do not wish it understood that I limit myself to this construction, as it is evident that the application of the invention may be varied in many ways within the scope of the following claims:

Claims:

1. As an article of manufacture an insulating board having the front portion thereof of strong texture and having incorporated therein plaster keying means and having the integral back portion thereof of comparatively great thickness and of loose texture and high insulating qualities.

2. As an article of manufacture an insulating board having the face thereof to a considerable depth formed of one texture and the integral back thereof of a different texture having high insulating qualities and of comparatively great thickness.

3. As an article of manufacture an insulating board having the face thereof of a firm, strong texture and having dovetail shaped keys therein the edges of which incline toward each other toward the top face of the board, and having the integral back thereof formed of a looser texture having high insulating qualities and of comparatively great thickness.

4. As an article of manufacture an insulating board having the front face thereof to a considerable depth formed of a firm, strong texture and having a plurality of staggered plaster keying apertures extending therein and having the back portion thereof of a texture such that has high insulating qualities.

CHARLES A. ROLFE.