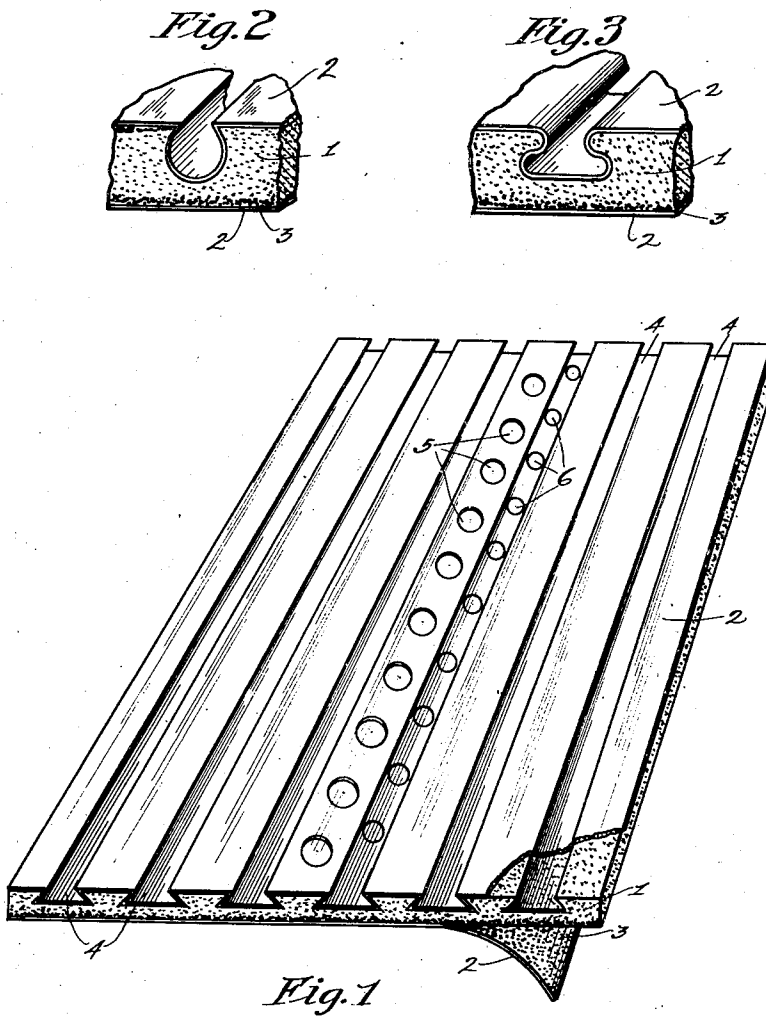


O. L. ROUTT AND G. C. McCONNELL.
PLASTER BOARD.

APPLICATION FILED NOV. 19, 1917.

1,382,550.

Patented June 21, 1921.



INVENTOR.
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UNITED STATES PATENT OFFICE.

ORVILLE L. ROUNT AND GROVER C. McCONNELL, OF LOS ANGELES, CALIFORNIA,
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CORPORATION OF CALIFORNIA.

PLASTER-BOARD.

1,382,550.

Specification of Letters Patent. Patented June 21, 1921.

Application filed November 19, 1917. Serial No. 203,040.

To all whom it may concern:

Be it known that we, ORVILLE L. ROUNT and GROVER C. McCONNELL, citizens of the United States, residing in the city of Los Angeles, county of Los Angeles, and State of California, have invented certain new and useful Improvements in Plaster-Board, of which the following is a specification.

Our invention relates to plaster board, and more particularly to an improved plaster board made of plastic materials, molded with holding means formed as an integral part thereof, and it has as its principal object to provide a plaster board of the character referred to which will be light in weight, fire and moisture resisting, and economical to manufacture.

We have discovered that a plaster board can be made with an inner body or core, composed of a mixture of light fibrous, or comminuted substances and efficient cementitious matter to serve as a binder, with a coating or layer of plastic matter applied to one or both sides thereof to give surface thereto, thus constituting a real improvement in the art and providing a plaster board which is not only light and durable, but which can be made or molded with holding means, formed as an integral part thereof, for receiving and holding the plastering material applied thereto.

So far as we know, we are the first to provide a plaster board formed of a light, fibrous or comminuted matter, and a sufficient amount of cementitious substance to bind it together, and which can be rolled and molded into form, with surfaces formed of a plastic matter, and preferably covered with paper, and which plaster board has formed as a part thereof holding means for holding plaster applied to the surface thereof.

In order to more clearly explain our invention, we have illustrated on the accompanying sheet of drawings a practical embodiment thereof, which we will now describe.

Figure 1 is a perspective view of a plaster board embodying our invention, with a part turned back and a part torn off to better show the construction thereof;

Figs. 2 and 3 show slight modifications of the form in which our plaster board can be made.

In the manufacture of our improved

plaster board, the body thereof, designated 1, 55 is made of light fibrous or comminuted matter, such, for example, as kieselguhr, sawdust and the like, with a sufficient cementitious substance, such as calcined gypsum plaster, mixed therewith to form a binder therefor, 60 and covered with paper, 2, which is secured thereto by means of a coating or thin layer, 3, of calcined gypsum plaster, or the like. This not only tenaciously adheres to the paper, but to the inner body as well, forming 65 a binder therefor and also giving a surface, which can be made smooth where a smooth surface is desired.

As shown in the drawings, we also form or mold our improved plaster board with 70 holding grooves or channels having restricted openings, as at 4, 4, the paper surface also covering the inside of said holding grooves. These grooves may be made in different forms, as shown in Fig. 2, in which 75 the groove is rounded, but with a restricted opening, or as shown in Fig. 3, in which the groove is elongated in the plane of the body, but with a restricted opening. The overhanging portion of the surface body, at the 80 edge of the channel forms a holding means for plaster.

We have also illustrated, on Fig. 1, as at 5 and 6, how the paper covering 2, on the side which is adapted to receive the plastering 85 material, can be provided with holes, leaving uncovered portions of the surface, whereby said plastering material is made to directly contact with the plastic coating which covers the body proper of the board 90 and to which the paper covering is applied.

We are aware that our invention can be embodied in other forms, and that different materials can be used, and we do not, therefore, limit our invention, except as we may 95 be limited by the hereto appended claim.

We claim:

An article of manufacture comprising a plaster board formed of plastic material with a series of continuous channels therein, 100 said channels having overhanging side walls forming restricted longitudinal and uninterrupted openings into said channels, and a continuous paper covering conforming to the inner surfaces of the channels, said paper 105 covering extending over the board between the channels and into the channels and wholly covering the bottom and overhang-

ing side walls thereof, the paper covering
adhering to the board as a part thereof and
serving to reinforce the same at its channel
portions, said reinforced channels consti-
5 tuting means for holding plaster on the outer
face of the board, substantially as described.
Signed at Los Angeles, Los Angeles

county, California, this 8th day of Novem-
ber, 1917.

ORVILLE L. ROUTT.
GROVER C. McCONNELL.

In presence of—

D. P. KENDRICK,
W. R. LITZENBERG.