

G. RADER.
PLASTER OR COMPOSITION BOARD.
APPLICATION FILED APR. 28, 1908.

Fig. 1.

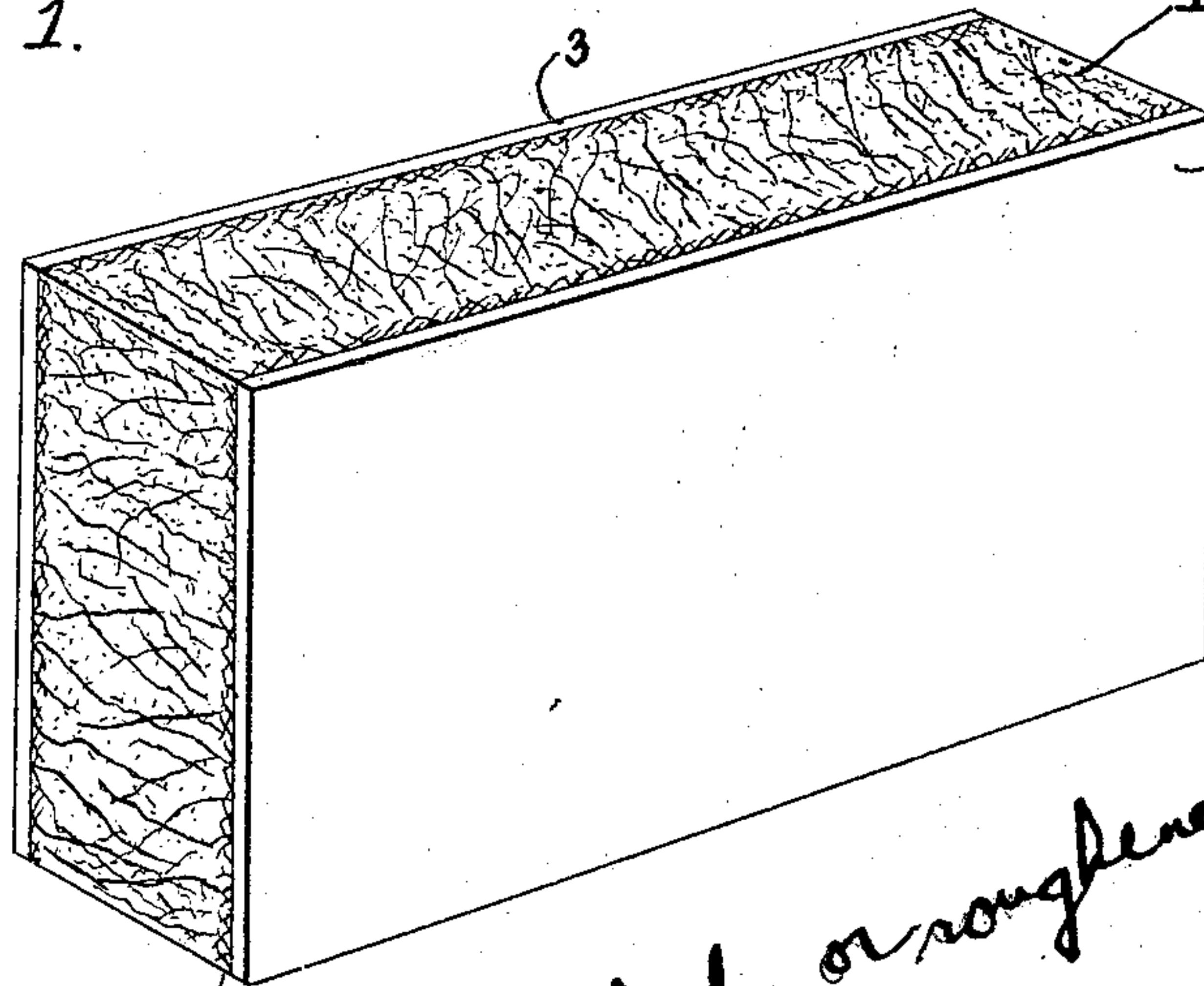
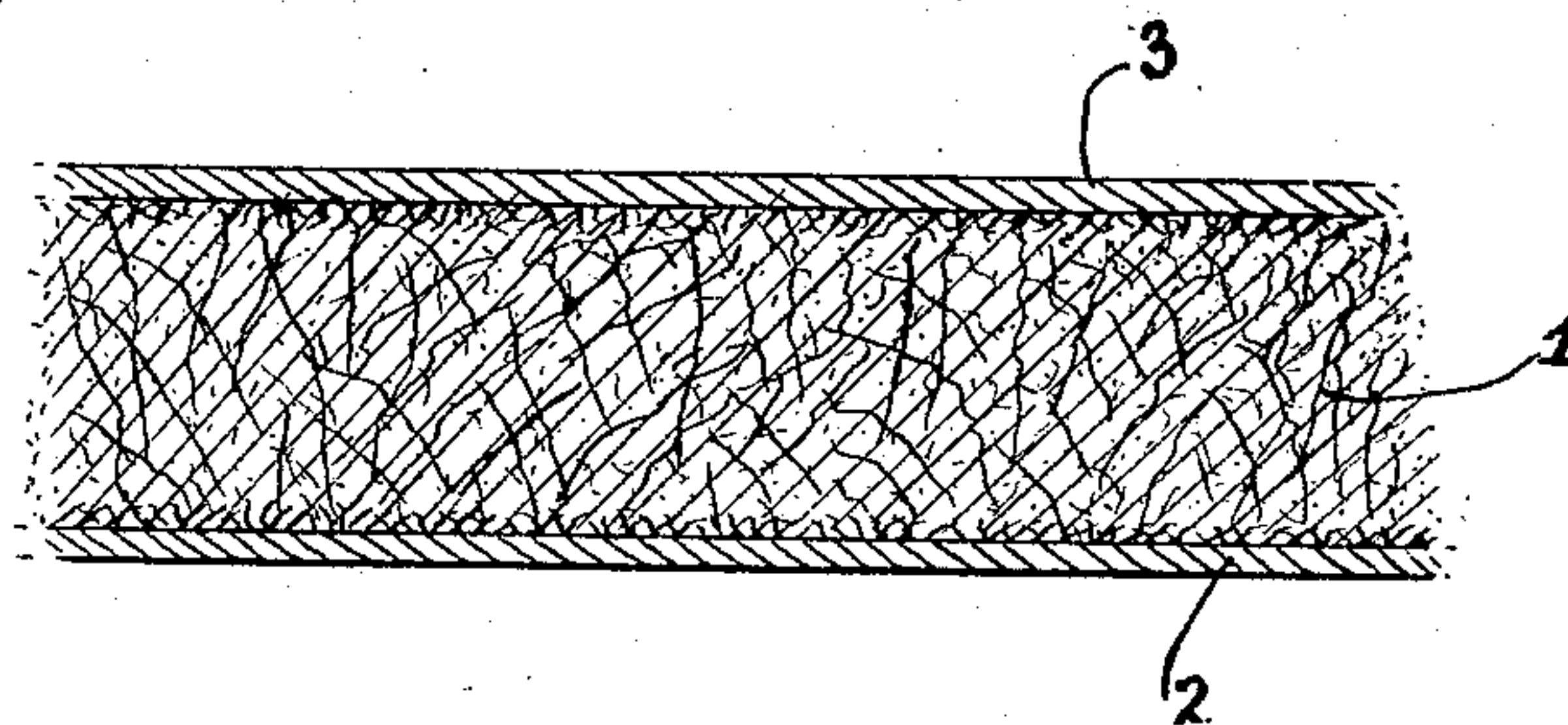


Fig. 2.



WITNESSES:

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INVENTOR.

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BY

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UNITED STATES PATENT OFFICE.

GUSTAVE RADER, OF MONTCLAIR, NEW JERSEY, ASSIGNOR OF ONE-HALF TO A. ALEXANDER EDELMAN, OF BROOKLYN, NEW YORK.

PLASTER OR COMPOSITION BOARD.

No. 891,440.

Specification of Letters Patent.

Patented June 23, 1908.

Application filed April 28, 1908. Serial No. 429,674.

To all whom it may concern:

Be it known that I, GUSTAVE RADER, a citizen of the United States, residing at Montclair, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Plaster or Composition Boards, of which the following is a specification.

This invention relates to an improvement on my prior U. S. patent, No. 884,954, April 14, 1908, and is an improved plaster or composition board for covering walls, ceilings, etc.

The object of my invention is to make a plaster or composition board which shall be ready for use so that it can be directly applied to walls or ceilings, without requiring a finishing coat, in such a manner that the wall paper or other covering may be directly pasted thereto.

The invention therefore consists of a plaster or composition board comprising a body of plastic material having thoroughly mixed therewith hair or other strong and fairly long fiber which holds and keeps the board together and prevents the same from cracking or falling apart, the board having secured thereto one or more outside or face layers of paper, felt or any other fabric, the sides of which next to the mixed plastic material are roughened or made to have projecting fibers over substantially their entire surface, whereby the fibrous fabric adheres strongly to the plastic body.

In the accompanying drawings Figure 1 represents a perspective view of my improved plaster board; and Fig. 2 is a horizontal section of the board shown in Fig. 1.

Similar letters of reference indicate corresponding parts.

Referring to the drawings, 1 represents a layer of plastic material mixed with suitable hair or fibers and 2, 3, are face layers of fibrous material. The fibrous material may be paper, felt or any other fabric having one side rough or roughened so as to have projecting fibers.

The plastic material may be plaster-of-paris, cement, or other self-hardening material. The mode of manufacture of this plaster or composition board is as follows:—

A table such as is described in my Letters Patent No. 884,953, April 14, 1908, is used.

On this table, the sides of which are raised to make a board of the required thickness, is

spread the paper, felt, or other fabric, as above described, with that side which is rough and has projecting fibers, uppermost. On this paper is then spread a layer of hair or any other strong fiber and over this layer is poured a mass of plastic material, such as plaster-of-paris, which has been thoroughly mixed with water. The plastic mixture and the hair are then thoroughly incorporated with each other by a kneading process which may be effected by the hands of the operator. The operator then works over the surface of the mass with a leveling rod which still further packs the plastic material and hair or other fiber together and works the mixed plastic mass closely into the fibers projecting from the underlying layer of paper or other fabric, leaving the upper surface fairly smooth. After the leveling the board is left to dry until hard enough to handle, the surface being adapted for receiving a further coat of plaster if desired. If the board is to be covered on both sides by layers of paper, felt or other fabric, such a layer is spread on the top of the still soft plastic material with the side having the projecting fibers downward. The operator then uses his leveling rod to press the fabric tightly against the plastic material forcing the projecting fibers of the fabric into the mass and forming an intimate and permanent connection between the face layer and the body of the board.

As a result of the process there is produced a plaster or composition board which is strong, practically unbreakable and absolutely fire-proof.

I claim:

1. A plaster or composition board consisting of a layer of hardened plastic material and one or more outside or face layers of fibrous material, the back or backs of which, next to the plastic material, have projecting fibers over substantially their entire surface whereby the plastic material is made to adhere firmly to the fibrous material.

2. A plaster or composition board consisting of a layer of hardened plastic material, and one or more outside or face layers of fibrous material, the back or backs of which, next to the plastic material have been made rough to produce projecting fibers over substantially their entire surface whereby the plastic material is made to adhere firmly to the fibrous material.

3. A plaster or composition board con-

sisting of a layer of plaster-of-paris, hair or fiber mixed to strengthen same, and one or more outside or face layers of fibrous material, the back or backs of which next to the
5 plastic material have projecting fibers over substantially their entire surface whereby the plastic material is made to adhere firmly to the fibrous material.

4. A plaster or composition board consisting of a layer of plaster-of-paris and fiber
10 mixed, and one or more outside or face layers of paper, felt or any other fabric, the back or

backs of which next to the plastic material have projecting fibers over substantially their entire surface whereby the plastic material is made to adhere firmly to the paper, felt or fabric. 15

In testimony whereof, I affix my signature in presence of two witnesses.

GUSTAVE RADER.

Witnesses:

B. GOETZ,
BERNARD EDELMAN.

Germanus.