April 25, 1933. C. G. REYNOLDS 1,905,397

WALL BOARD CONSTRUCTION

Filed April 6, 1931

Fig. 1.

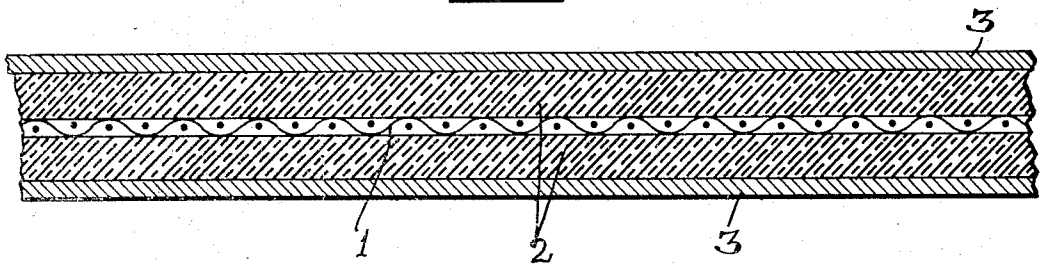
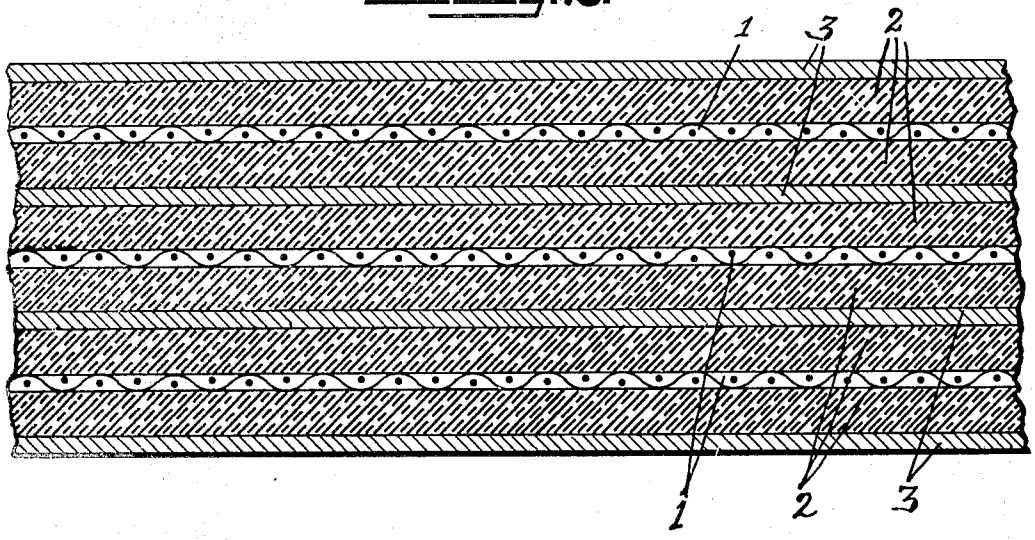


Fig. 2.



INVENTOR,
Clifton G. Reynolds
BY
J. E. Trabucco
ATTORNEY.

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CLIFTON G. REYNOLDS, OF SAN FRANCISCO, CALIFORNIA

WALL BOARD CONSTRUCTION

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This invention relates to an improved wall board construction.

An object of my invention is to provide an improved wall board construction for building purposes which is particularly suited for use in preventing the escape of heat or cold therethrough.

Another object of my invention is to provide an improved wall board construction which is water proof and possessed of fire resisting qualities.

A further object of my invention is to provide an improved wall board construction which is capable of resisting the ordinarily damaging attack or inroads of insects, bugs or the like.

Other objects more or less apparent will present themselves or will be pointed out in the following description of my invention.

In the accompanying drawing:

Fig. 1 is a vertical sectional view showing the construction of the preferred form of my invention; and

Fig. 2 is a vertical sectional view showing my invention embodied in another form.

Referring firstly to Fig. 1, the numeral 1 represents a layer of porous cloth fabric such as burlap having a semi-rigid layer 2, made from a mixture of asphaltum and diatomaceous earth, at each side thereof. The material comprising the layers 2 is made by heating about one pound of asphaltum until it reaches a liquid state, and then adding about three pounds of diatomaceous earth thereto. The mixture of asphaltum and diatomaceous earth is applied in uniform layers of desired thicknesses to the sides of the layer of fabric while the former is in a semi-liquid state. After the layers 2 have been applied to the fabric layer 1, a covering 3 of paper or other suitable material is placed over the outer surface of each of the layers 2. The adhesive qualities of the asphaltum causes the fabric layer 1 and the coverings 3 to adhere thereto thereby forming a semi-rigid wall board construction which is particularly adapted for use in building structures. Owing to the fact that the diatomaceous earth is an inert material the wall board is able to resist the action of the elements to a greater degree than other wall board constructions made principally from paper materials. The layers 2 comprising the body of the wall board, being somewhat flexible, enable the same to be conveniently nailed to supporting structures without danger of tearing or splitting. The asphaltum-diatomaceous earth composition is particularly suitable as a body capable of resisting the attacks of insects, bugs or the like.

As shown in Fig. 2 my invention may be formed with a plurality of layers of fabric, paper and the asphaltum-diatomaceous compound. In this form, a porous fabric layer 1 is located at the center of the wall board, and on each side thereof is located a semi-rigid layer 2 composed of a mixture of asphaltum and diatomaceous earth. At each side of the said layers 2 is located a sheet of paper 3, and at the outside of the said sheets is again located layers 2. At the outer surfaces of the last mentioned layers 2 is located porous fabric layers 2, and then outside thereof are located layers 2 of the asphaltum-diatomaceous earth mixture. At the outer surfaces of the last two mentioned layers are located coverings 3 of paper or the like. The wall board construction shown in Fig. 2 is particularly adapted for use in building structures where thicker walls are required.

Although I have specified the layers 2 as comprising a mixture consisting of one part of asphaltum and three parts of diatomaceous earth, it has been found that these percentages may be varied to provide a more or less flexible wall board construction. In this regard I have found that by having the percentage of diatomaceous earth greater than the amount of asphaltum, the mixture from which the layers 2 are formed will be suitable to withstand the ordinary attacks of the elements and insects.

It is apparent to those skilled in the art that my invention is capable of assuming a number of different forms, so for this and other apparent reasons I desire the appended claims to define the limits of my invention.

Having described my invention what I claim is:

1. A wall board construction comprising

a layer of porous fabric, and a layer of semi-rigid material affixed to each side of the fabric, the said layers of semi-rigid material having a composition in which asphaltum is the main ingredient.

2. A wall board construction comprising a layer of porous fabric, and a layer of semi-rigid material affixed to each side of the fabric, each layer being formed from a composition made with asphaltum and diatomaceous earth as ingredients.

3. A wall board construction comprising a layer of porous fabric, a layer of semi-rigid material affixed to each side of the fabric, each of said layers being comprised of a mixture in which asphaltum is an ingredient, and a covering located over the outer surface of each of the layers of semi-rigid material.

4. A wall board construction comprising a layer of porous fabric, a layer of semi-rigid material affixed to each side of the fabric, each of said layers being comprised of a mixture of diatomaceous earth and asphaltum, and a paper covering affixed to the outer surface of each of the semi-rigid layers.

5. In a wall board construction, a uniform layer of semi-rigid material comprised of a mixture of asphaltum and diatomaceous earth.

6. In a wall board construction, a plurality of semi-rigid layers of substantially uniform thickness, each layer being comprised of a mixture of asphaltum and diatomaceous earth, and a covering of paper affixed to each layer.

7. In a wall board construction, a plurality of layers of fabric, a semi-rigid layer comprising diatomaceous earth and asphaltum located on each side of each fabric layer, and a paper sheet affixed to each semi-rigid layer.

In testimony whereof I have affixed my signature.

CLIFTON G. REYNOLDS.