Sept. 23, 1930. D. FINLEY 1,776,254

SHEATHING

Filed July 18, 1928

Fig. 1

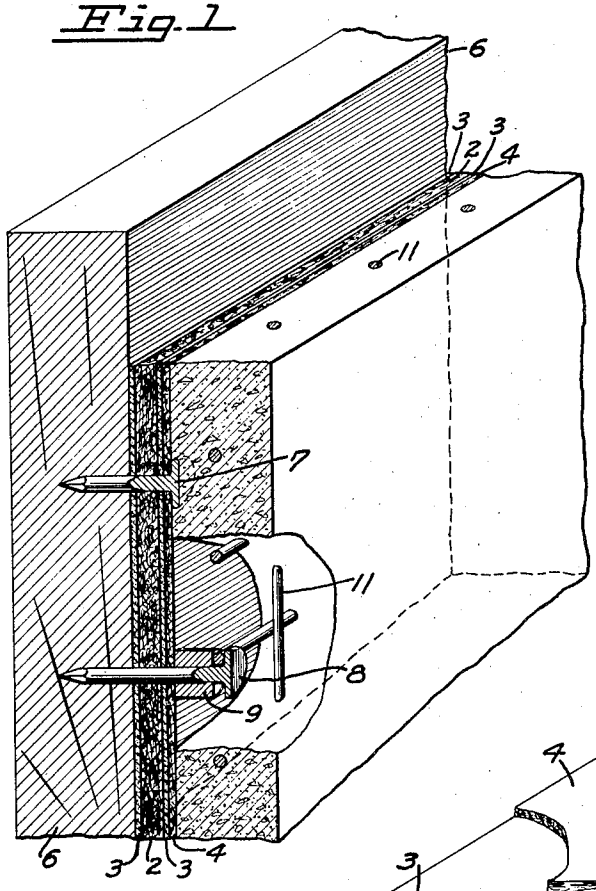
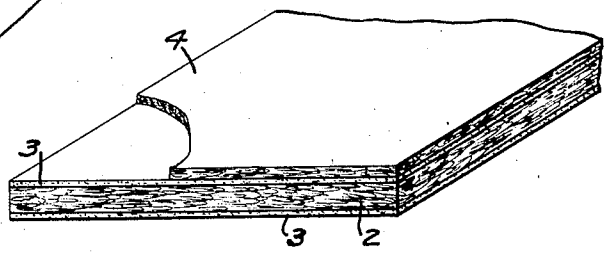


Fig. 2



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UNITED STATES PATENT OFFICE

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SHEATHING

Application filed July 18, 1928. Serial No. 293,686.

My invention relates to a sheathing, and particularly one which is satisfactory for the application of a plaster thereto.

An object of my invention is the provision of a sheathing of the character described which serves as a waterproofing medium.

Another object of my invention is the provision of a sheathing of the character described which is provided with a surface upon which a plaster will adhere.

Another object of my invention is the provision of a sheathing of the character described which is especially adapted for the application of stucco thereto.

A further object of my invention is the provision of a sheathing of the character described which can be readily rolled into a package for shipping and storage purposes.

My invention possesses other objects and valuable features, some of which will be set forth in the following description of my invention which is illustrated in the drawings forming part of the specification. It is to be understood that I do not limit myself to the showing made by the said description and drawings, as I may adopt varying forms of my invention within the scope of the claims.

Referring to the drawings:

Figure 1 is a perspective view partly in section, illustrating a wall structure in which the sheathing is incorporated.

Figure 2 is a perspective view of the sheathing strip of my invention. A portion of the structure is omitted to disclose the construction more clearly.

Broadly, my invention consists of a strip sheathing comprising a sheet of fibrous material such as felt saturated and/or coated with a bituminous substance, and a sheet of fibrous material such as paper on a surface of the first sheet. When the sheathing is secured to a wall with the paper sheet on the outside, a satisfactory surface for the application of a wall plaster is provided.

In terms of greater detail, the preferred embodiment of my invention comprises a foundation sheet 2 of fibrous material such as felt. This sheet is saturated with a bituminous substance such as petroleum asphalt. The saturation or impregnating may be performed in any convenient manner, such as by passing the felt thru a bath of the molten asphalt. After the saturation of the sheet, it is preferably coated on both sides with layers 3, comparatively thin with respect to the thickness of the sheet, of bituminous material such as petroleum asphalt produced by an air blown process and having a softening point of approximately 180° F., and a penetration of approximately 20 by the methods of the American Society for Testing Materials, Standards of 1927. It is preferred to use a coating of the character described, since when dry the coating is not soft. Before one of the coating layers has dried, a second sheet 4 of fibrous material, thin in comparison to the foundation sheet, and preferably kraft paper, is secured to the saturated sheet by means of the coating which thus serves as an adhesive. When the asphalt hardens, the strip comprises a sheet of saturated felt, a coating of asphalt on each side of the felt, and a sheet of paper adhesively secured to one of the asphalt coatings.

Kraft paper is a heavy paper which is not wholly waterproof; therefore, when the sheathing strip is secured to a wall and plaster is applied to the paper side of the strip, some of the water contained in the plaster is absorbed by the paper, thereby causing a firm bond between the plaster and paper. At the same time, the paper strengthens and reinforces the structure due to its rigidity. For the kraft paper any other heavy fibrous sheet such as a good grade of sulphite paper, or even cloth may be employed. The preferred fibrous material treated with the bituminous substance is felt, but other fibrous sheets such as bituminous saturated paper or thick cloth can be used in place of the felt. For the asphalt impregnating medium, other bituminous materials such as tar and pitch may be substituted.

In fastening the strip sheathing for the application of a wall plaster thereto the strip is placed against the wall sheathing 6, with the fibrous sheet 4 forming the outer surface. It is then tacked to the wall by means of the small nails 7. Plaster nails 8

are then driven thru the strip and into the sheathing 6. The plaster nails are each provided with a shoulder 9 which is spaced a slight distance from the head of the nail; so that plaster wire or lathing 11 can be interposed and held between the nail and shoulder. After this the wall plaster is applied. Any type of wall plaster such as lime plaster, plaster of Paris or stucco can be used. However, best results have been obtained when stucco is employed, since a firmer bond is formed between the fibrous strip sheathing and stucco, than with the other wall plasters.

From the above description it is apparent that since the inner strip of fibrous material of the sheathing is treated with a bituminous substance, a substantially waterproof product is provided. At the same time the outer fibrous sheet provides a satisfactory surface for the application of the wall plaster. Inasmuch as the strip is chiefly of fibrous material, it is flexible and, therefore, it can be conveniently rolled up into packages for storage or shipping purposes.

Although in the preferred embodiment of my invention, the inner sheet 2 of the sheathing is saturated with bituminous material, and also coated on each side with the bituminous material to insure a product having satisfactory waterproof properties, one of the coating layers may be omitted; or if desired the inner sheet may be unsaturated and bituminous coatings can be applied to either one or both of the sheet surfaces. Therefore, the term "bituminous treated", as used in the claims, is meant to include either a saturation of the sheet with bituminous material or a coating of bituminous material, or both.

I claim:

1. A flexible sheathing for the application of a plaster thereto comprising a sheet of fibrous material treated with bituminous material, and a second sheet of fibrous material on the treated sheet.

2. A flexible sheathing for the application of a plaster thereto comprising a sheet of felt treated with bituminous material, and a sheet of paper adhesively secured to the belt.

3. A flexible sheathing for the application of a plaster thereto comprising a sheet of fibrous material saturated with bituminous material, and a second sheet of fibrous material adhesively secured to the saturated sheet.

4. A flexible sheathing for the application of a plaster thereto comprising a sheet of fibrous material, a coating of bituminous material on one of the sides of the fibrous sheet, and a second sheet of fibrous material secured to the first sheet by the bituminous coating.

5. A flexible sheathing for the application of a plaster thereto comprising a sheet of felt saturated with bituminous material, a coating of bituminous material on one of the sides of the felt sheet, and a sheet of paper secured to the felt sheet by the bituminous coating.

6. A wall structure comprising a sheathing; said sheathing comprising an inner sheet of fibrous material treated with bituminous material, and an outer sheet of fibrous material secured to the treated sheet and providing the outer surface of the sheathing; and wall plaster applied to the outer sheet of fibrous material of the sheating.

7. A wall structure comprising a strip sheathing; said sheathing comprising an inner sheet of felt saturated with bituminous material, a coating of bituminous material on each side of the felt, and an outer sheet of paper secured to the felt by one of the bituminous coatings and providing the outer surface of the sheathing; and wall plaster applied to the sheet of paper of the sheathing.

8. A wall structure comprising a strip sheathing; said sheathing comprising an inner sheet of felt saturated with bituminous material, a coating of bituminous material on each side of the felt, and an outer sheet of paper secured to the felt by one of the bituminous coatings; and stucco plaster applied to the sheet of paper of the sheathing.

9. An imperforate sheathing for the application of a plaster thereto consisting of a sheet of fibrous material treated with bituminous material, and a second sheet of fibrous material adhesively secured to the treated sheet.

10. An imperforate and flexible sheathing for the application of a plaster thereto comprising a sheet of felt treated with bituminous material, and a sheet of paper adhesively secured to the felt.

11. A sheathing for the application of a plaster thereto comprising a sheet of felt treated with bituminous material, and a sheet of paper adhesively secured to the felt, the adhesive being the only material between the felt and paper.

12. A wall structure comprising an imperforate sheathing; said sheathing comprising an inner sheet of felt treated with bituminous material, and an outer sheet of paper secured to the felt and providing the outer surface of the sheathing; and wall plaster applied to the sheet of paper of the sheathing.

13. A sheathing consisting essentially of a foundation sheet of fibrous material treated with bituminous material, and a second sheet of fibrous material adhesively secured to the foundation sheet, the second sheet being thin in comparison to the foundation sheet.

14. A flexible sheathing comprising a foundation sheet of felt treated with and provided with a coating of bituminous material comparatively thin with respect to the thickness of the sheet, and a sheet of paper adhesively secured to the foundation sheet by the coating, the sheet of paper being com-

paratively thin with respect to the foundation sheet.

15. A flexible sheathing consisting essentially of a foundation sheet of felt treated with bituminous material, and a reinforcing sheet of paper adhesively secured to the felt by a coating of bituminous material comparatively thin with respect to the felt sheet.

16. A flexible sheathing adapted to be wound in a roll and comprising a sheet of felt treated with bituminous material, and a reinforcing sheet of fibrous material secured to the felt by an adhesive layer comparatively thin with respect to the felt sheet.

In testimony whereof, I have hereunto set my hand.

DOZIER FINLEY.