

955,429.

Patented Apr. 19, 1910.

Fig. 2.

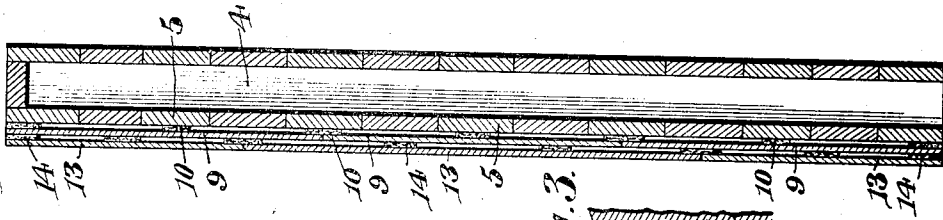
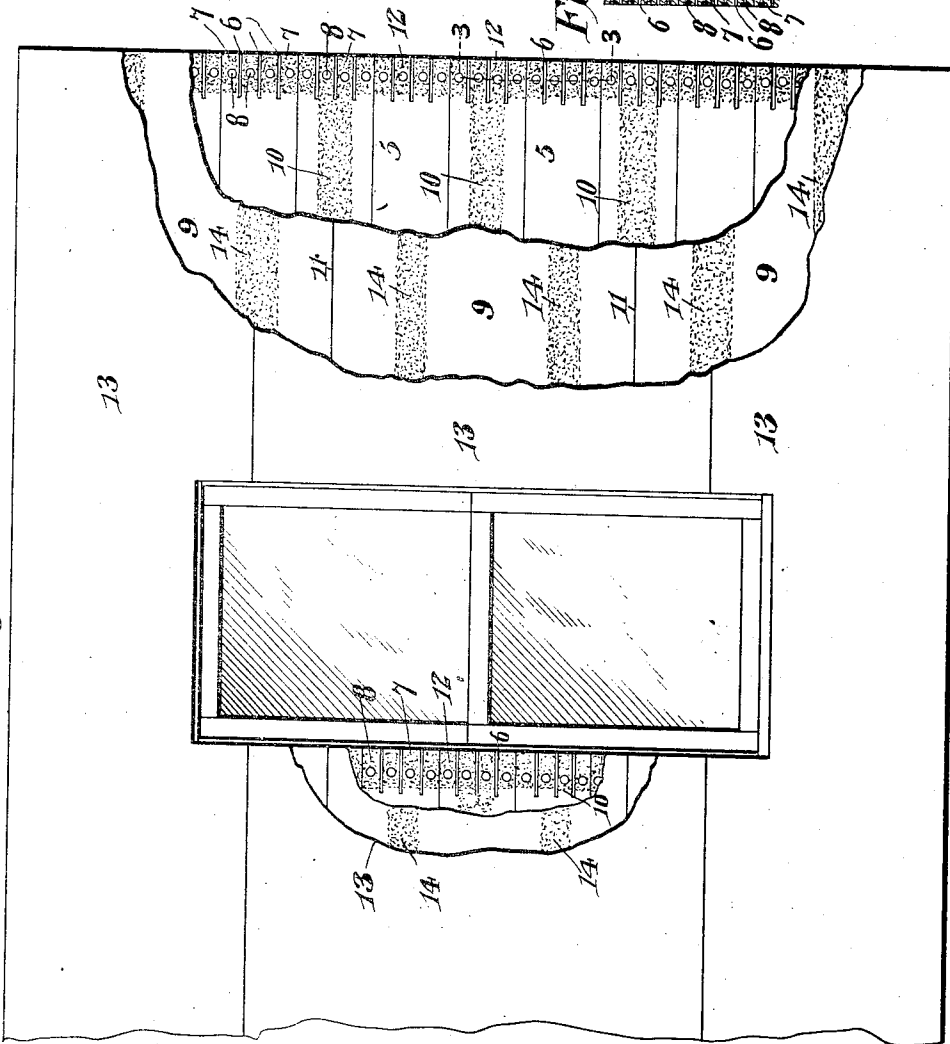


Fig. 3.



Fig. 1.



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WALL-COVERING.

955,429.

Specification of Letters Patent.

Patented Apr. 19, 1910.

Application filed February 20, 1907. Serial No. 358,367.

To all whom it may concern:

Be it known that I, PETTER C. N. PEDERSON, a citizen of the United States, residing at Superior, in the county of Douglas and State of Wisconsin, have invented a new and useful Wall-Covering, of which the following is a specification.

This invention relates more particularly to the walls of buildings, and is capable of being advantageously employed either for exterior or interior walls.

The primary object is to provide a novel and exceedingly inexpensive structure, which will have a smooth and even surface, is not deleteriously affected by changes in the atmosphere or temperature, and obviates the necessity of plaster and the like.

The preferred embodiment of the invention is illustrated in the accompanying drawings, wherein:—

Figure 1 is a side elevation of a portion of a wall, the parts being broken away to illustrate the construction thereof. Fig. 2 is a vertical sectional view through the wall, with certain of the elements necessarily exaggerated in order to show the structure. Fig. 3 is a detail sectional view on the line 3—3 of Fig. 1.

In the embodiment illustrated, the usual upright studs 4 are employed, and secured thereto is a sheathing composed of boards 5. These boards may be of any desired thickness, and have their ends slotted, as shown at 6 to produce a series of tongues 7. Nails 8, or other suitable fasteners are driven through each tongue into the stud, and thus the boards are fastened to the studding. A flexible covering or lining extends over the face of the sheathing, and consists of strips or sheets 9 preferably of paper. They are secured to the sheathing by means of spaced lines 10 of adhesive material, such as paste or glue, these lines being located centrally on certain of the boards, as shown in Fig. 1, and arranged longitudinally of the boards. The joints 11 between the sheets or strips are abutted and are located centrally of certain of the lines of adhesive. At the ends of the walls and around window and door openings or the like, are placed transverse lines of adhesive 12. In applying the sheets or strips, the same are first dampened and preferably rolled to cause the paper to expand and the paper is kept dampened between the paste or adhesive until said adhesive is dry. Over this covering or lining

is placed one or more facings, the same comprising strips or sheets of paper 13 secured to the strips or sheets 9 by lines 14 of adhesive material. It will be observed that the strips 13 have their edges abutted and secured centrally by lines of the adhesive, and that said lines 14 of adhesive are disposed between the lines 10, which secure the strips 9 to the sheathing. While two coats of paper are ordinarily sufficient, it will be evident that as many may be applied as desired, and when all have been properly secured, the wall is ready for painting, calicining or any other finishing or wear-resisting or protective coating. It will be noted that the plurality of sheets of paper when applied to the boards are cemented together, while the under or first layer or sheet is cemented to the boards constituting the sheathing, at intervals only, the inherent elasticity of those parts of the sheet or layer that are not cemented to the boards permitting the lateral movement of the boards without cracking the paper. Experience has demonstrated, that a wall so constructed is cheap, but is a good non-conductor of heat, and will remain smooth without regard to the changes in the atmosphere or temperature. Moreover it can be employed either for interior or exterior walls. In the latter case, however, the paper must be painted and a heavier grade is ordinarily preferred.

It is found that by having the boards formed of separate terminal tongues and independently secured as disclosed, the margins of the paper secured to all the tongues by the adhesive, as shown will not crack when the boards swell or shrink. Moreover, the securing of the lining to certain only of the boards also permits the said boards swelling or shrinking without affecting the paper. The particular manner of securing the lining to the sheathing and the facing to the lining is also advantageous, for by thus placing the lines of adhesive material between the different layers in staggered relation, unattached portions of the different layers are interposed between the various lines of adhesive material, and the inner or outer faces of the wall as a whole, thus making said wall warmer and drier.

From the foregoing, it is thought that the construction, operation, and many advantages of the herein described invention, will be apparent to those skilled in the art, without further description, and it will be under-

stood that various changes in the size, shape, proportion, may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

By the term "wall" or "walls" I wish it to be understood that the word is used in a generic sense and includes the floor of the building, the ceiling or any exterior wall.

10 Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is:—

1. In a structure of the character set forth, the combination with a support comprising boards having a plurality of terminal tongues, fastening means for the boards engaging the tongues, a lining sheet located over the boards, spaced lines of adhesive securing the body of the lining to the boards, and adhesive securing the margins of the lining to the various tongues.

2. In a structure of the character set forth, the combination with a support, of a lining located over the face thereof, spaced lines of adhesive material securing the lining to the support, a facing located over the lining, and spaced lines of adhesive material securing the facing to the unsecured portions of the lining.

3. In a structure of the character set forth, the combination with a sheathing comprising a plurality of boards, of a flexible covering extending over the face of the same, and spaced lines of adhesive extending longitudinally along the boards and securing the covering to the same.

4. In a structure of the character set forth, the combination with a flat wall sheathing comprising sections, of a flexible covering extending over the face of the sheathing, and spaced lines of adhesive securing the covering to spaced sections only of the sheathing, leaving it free from other sections between the sections to which it is secured by said adhesive.

5. In a structure of the character set forth, the combination with a sheathing comprising a plurality of boards, of a paper covering extending over the face of the sheathing, and spaced lines of fastening means securing the covering to certain boards only.

6. In a structure of the character set forth, the combination with a stud, of a sheathing comprising a plurality of boards having slotted ends disposed against the stud, fastening means securing the board to the stud and passing through said boards between the slots thereof, a covering extending over the face of the sheathing, and spaced lines of adhesive securing the covering to certain boards only of the sheathing.

7. In a structure of the character set forth, the combination with a sheathing, of a flexible lining secured to the face thereof

at separated places, a flexible facing extending over said lining, and spaced lines of adhesive securing the facing to the lining between the secured portions thereof.

8. In a structure of the character set forth, the combination with a sheathing, of a lining covering the face thereof, spaced lines of fastening means securing the lining to the sheathing, a flexible facing extending over the lining, and spaced lines of fastening means securing the facing to the lining, the lines of the latter being located between the first mentioned lines of fastening means.

9. In a structure of the character set forth, the combination with a sectional sheathing, of a flexible lining located over the face thereof, spaced lines of adhesive securing the lining to certain sections of the sheathing, a flexible facing extending over the lining, and spaced lines of adhesive securing the facing to the lining, the latter lines of adhesive being located between the first mentioned lines.

10. In a structure of the character set forth, the combination with a stud, of a sheathing comprising a plurality of boards having their ends slotted to produce tongues, fastening devices passing through the tongues into the stud, a lining of paper extending over the face of the sheathing, spaced lines of adhesive securing the lining to certain of the boards, a facing of paper extending over the lining, and spaced lines of adhesive securing the lining and facing together, said latter lines of adhesive being disposed between those of the first mentioned lines.

11. The process of building walls, which consists in providing a sheathing, dampening sheets of paper and attaching said sheets to the sheathing by spaced lines of adhesive while the sheets are still damp.

12. The process of building walls, which consists in providing a sheathing of boards, dampening the sheets of paper, attaching said sheets to certain boards of the sheathing by spaced lines of adhesive while the sheets are still damp, and maintaining the sheets in dampened condition until the adhesive dries.

13. In a structure of the character set forth, the combination with a support, of a stretched and dried facing located over the face of the support, and spaced lines of adhesive material securing the facing to the support.

14. In a structure of the character set forth, the combination with a sheathing, of a lining of stretched and dried paper located over the exposed face of the sheathing, spaced lines of adhesive material securing the lining to the sheathing, a facing of stretched and dried paper located over the lining, and spaced lines of adhesive material securing the facing to the lining.

15. The combination of a wall of boards having a plurality of terminal tongues, and a paper covering therefor comprising a plurality of superimposed sheets of paper cemented together, the outer layer being provided with a protective coating, longitudinal lines of adhesive applied to certain of the boards throughout the length thereof, and transverse lines of adhesive applied to the ends of the boards at the tongues thereof, the inner layer being fastened to the boards by the adhesive, whereby said inner layer is fastened to the boards at intervals only and at the marginal edges.

16. The combination of a wall of boards with a paper covering therefor, said covering comprising a plurality of superimposed

sheets of paper cemented together, the outer layer or sheet being provided with a protective or wear resisting coating, and the inner layer or sheet being adhesively fastened to the boards at intervals only, the inherent elasticity of those portions of the layer that are not fastened to the boards permitting lateral movement of the boards without cracking the paper.

In testimony, that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

PETTER C. N. PEDERSON.

Witnesses:

R. I. TIPTON,

MABEL MCINTYRE.