Aug. 6, 1929. E. P. JEWELL 1,723,621

WALL STRUCTURE

Filed June 30, 1928

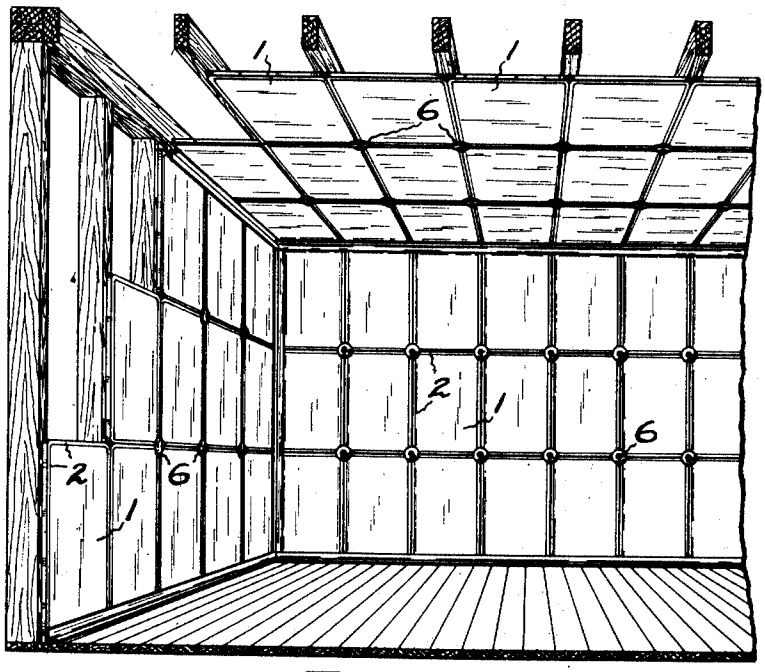

Fig. 1.

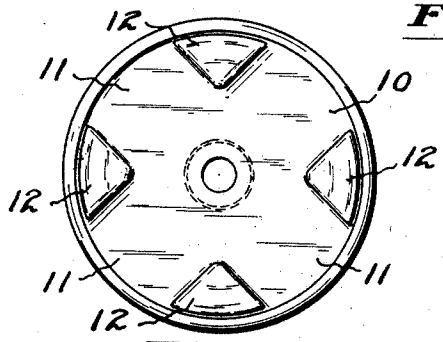

Fig. 4.

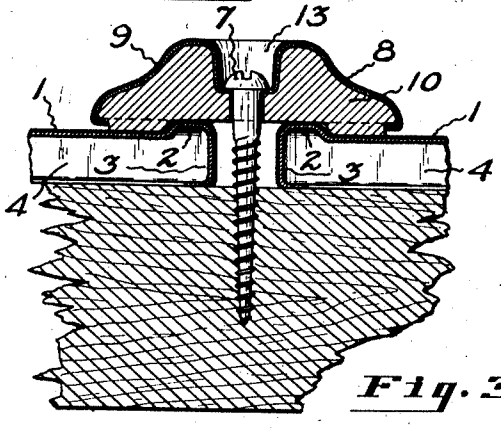

Fig. 3.

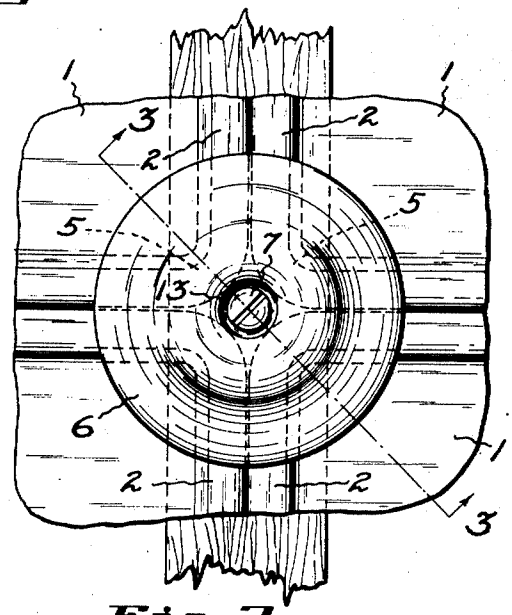

Fig. 2.

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UNITED STATES PATENT OFFICE.

EDWARD P. JEWELL, OF NEW YORK, N. Y., ASSIGNOR TO VITREOUS STEEL PRODUCTS COMPANY, OF CLEVELAND, OHIO, A CORPORATION OF DELAWARE.

WALL STRUCTURE.

Application filed June 30, 1928. Serial No. 289,472.

This invention relates to wall structures and has for an object to provide a wall covering which has a smooth, glassy surface throughout so that the wall can be easily kept in a clean and sanitary condition.

A further object is to provide a wall covering which is composed of sheet metal panels, which have a baked on coating of vitreous enamel.

A further object is to provide a wall covering composed of panels which have the form of enameled sheet metal kitchen table tops and in addition, to provide means by which the panels may be quickly and easily secured in place on the wall without damaging the enameled surfaces of the panels.

With the above and other objects in view, the invention may be said to comprise the wall structure as illustrated in the accompanying drawings hereinafter described and particularly set forth in the appended claims, together with such variations and modifications thereof as will be apparent to one skilled in the art to which the invention appertains.

Reference should be had to the accompanying drawings forming a part of this specification in which:

Figure 1 is a perspective view showing the interior of a room having its walls and ceiling provided with enameled covering of the present invention.

Fig. 2 is a fragmentary plan view showing one of the fastening elements.

Fig. 3 is a section taken on the line indicated at 3—3 in Fig. 2.

Fig. 4 is a bottom plan view of one of the fastening members.

Referring to the accompanying drawings, the wall covering or sheathing of the present invention consists of rows of sheet metal panels 1 arranged edge to edge to cover the wall. These panels are preferably provided with marginal outwardly projecting stiffening beads 2 and with continuous inwardly extending marginal flanges 3, which have inner edge portions 4 bent inwardly parallel with the body of the panel. These panels preferably have a form of standard enameled kitchen table tops and are formed of pressed steel. The panels are coated throughout with vitreous enamel which is baked thereon and provides a smooth hard and glassy surface. Kitchen table tops are manufactured in large quantities and are of uniform size. Such table tops may be advantageously used as sheathing panels to provide a vitreous enamel wall surface. The panels 1 have rounded corners 5 which, as clearly shown in Fig. 2, form openings between adjoining corners of the panels. The openings between adjoining corners of the panels are covered by suitable retaining members 6 which overlie the corners of the adjacent panels and which are secured to the wall by suitable screws or fastening elements 7 which extend through the retaining members through the opening between the corners of the panels and into the wall upon which the panels are placed.

The fastening members 6 preferably comprise a cup-shaped sheet metal stamping 8 which may be provided with a baked on coating of vitreous enamel 9 and a body 10 which is molded in the cup-shaped stamping and which is formed on its inner face to provide grooves 11 to receive the marginal beads 2 of the panels and with projections 12, which bear upon the flat portions of the panels inwardly of the beads. The body 10 is preferably formed of a composition which will not scratch nor mar the enameled face of the panels. The stamping 8 is preferably formed with a central recess 13 within which the head of the attaching screw 7 is seated.

It will be apparent that the wall covering or sheathing of the present invention can be very quickly and easily applied to a wall surface, it being necessary simply to fit the panels one upon another and secure the same in place by means of the retaining members 6 and the fastening screws 7 which extend through the openings between the corners of the panels. The completed wall surface provides a smooth hard and glossy surface which can be thoroughly cleaned whenever desired by washing. In factories where food stuffs are prepared, it is highly important that the walls be kept thoroughly cleaned and to this end, it is desirable that the walls be frequently washed by the use of a hose.

The present invention provides a wall which can be built at a relatively small expense and which provides the desirable washable surface.

Furthermore, the wall covering of the

present invention is well adapted for the construction of partitions and can be quickly taken down and rebuilt.

Furthermore, it is to be understood that the particular form of apparatus shown and described, and the particular procedure set forth, are presented for purposes of explanation and illustration and that various modifications of said apparatus and procedure can be made without departing from my invention as defined in the appended claims.

What I claim is:

1. In a wall structure, a covering composed of sheet metal panels having rounded corners and inwardly projecting marginal wall engaging flanges, said panels having a baked on coating of vitreous enamel, and retaining means comprising members overlying the corners of adjacent panels and members in the openings between the corners of the panels connecting the first mentioned members to the wall.

2. A wall covering built up of enameled sheet metal panels abutting edge to edge, said panels having inwardly projecting marginal wall engaging flanges and being rounded at the corners whereby an opening is provided between the panels at the corners thereof, retaining members overlying the corners of the panels, and fastening elements extending from the retaining members through the openings between the corners of the panels for securing said retaining members to the wall.

3. A wall covering built up of enameled sheet metal panels arranged edge to edge, said panels having outwardly projecting marginal beads and inwardly extending marginal flanges having their edges bent inwardly and adapted to rest upon a wall surface, said panels having rounded corners which provide openings between adjacent panels, retaining members covering said openings and overlying adjacent panels, and fastening elements extending from the retaining members through the openings covered thereby for securing the retaining members to the wall.

4. A wall covering built up of enameled sheet metal panels arranged edge to edge, said panels having outwardly projecting marginal beads and inwardly extending marginal flanges having their edges bent inwardly and adapted to rest upon a wall surface, said panels having rounded corners which provide openings between adjacent panels, retaining members covering said openings and overlying adjacent panels, said retaining members being recessed to receive the beads of the panels and projecting portions bearing upon the panels inwardly of the beads.

5. A wall covering built up of enameled sheet metal panels arranged edge to edge, said panels having outwardly projecting marginal beads and inwardly extending marginal flanges having their edges bent inwardly and adapted to rest upon a wall surface, said panels having rounded corners which provide openings between adjacent panels, retaining members covering said openings and overlying adjacent panels, said retaining members, each comprising a body of composition material and a cover formed of sheet metal, and fastening elements passing through said retaining members and through the openings covered thereby to the wall.

6. A wall covering built up of enameled sheet metal panels arranged edge to edge, said panels having outwardly projecting marginal beads and inwardly extending marginal flanges having their edges bent inwardly and adapted to rest upon a wall surface, said panels having rounded corners which provide openings between adjacent panels, retaining members covering said openings and overlying adjacent panels, said retaining members each comprising a cup shaped sheet metal stamping provided with a central pressed in recess and a body of composition material molded in the stamping and having an inner surface conforming to the beaded edges of adjacent panels, and screws having beads in said central recess of the stamping and extending through the openings between the corners of the panels to the wall.

In testimony whereof I affix my signature.

EDWARD P. JEWELL.