Jan. 6, 1925. 1,521,645

A. PENOVI

TOILET SLAB

Filed Oct. 29, 1921

Fig. 1

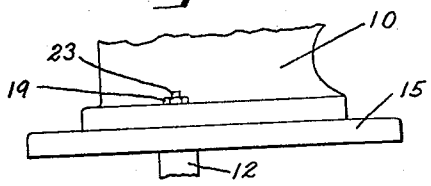


Fig. 6

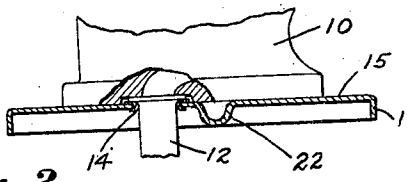


Fig. 2

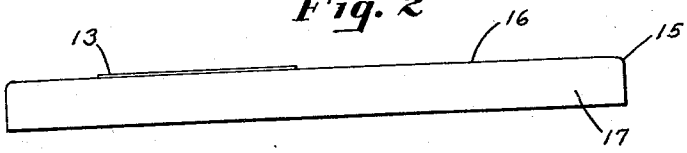


Fig. 3

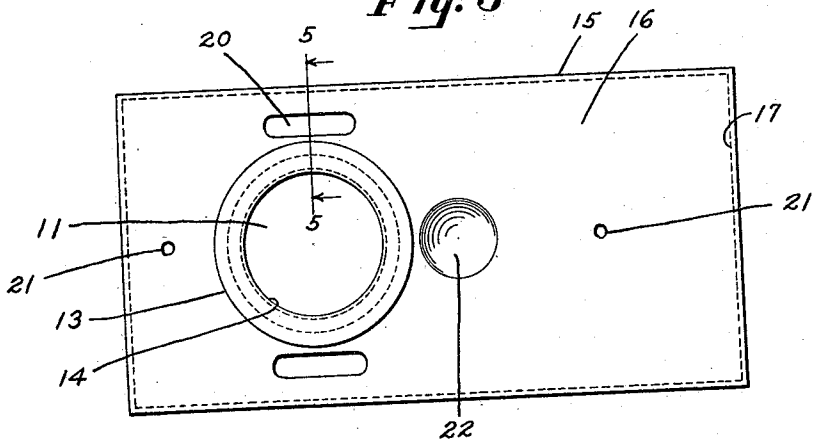


Fig. 4

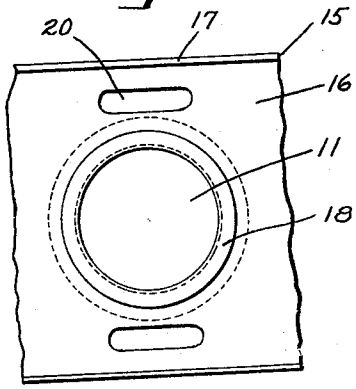
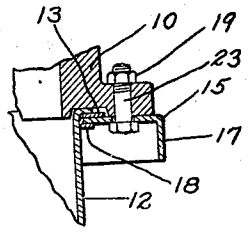


Fig. 5



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UNITED STATES PATENT OFFICE.

ALFRED PENOVI, OF PORT CHESTER, NEW YORK.

TOILET SLAB.

Application filed October 29, 1921. Serial No. 511,239.

To all whom it may concern:

Be it known that I, ALFRED PENOVI, a citizen of the United States, residing at Port Chester, in the county of Westchester and State of New York, have invented certain new and useful Improvements in Toilet Slabs, of which the following is a specification.

My invention relates to improvements in toilet slabs, of the form that is used to support the bowl of a water-closet and to receive through a suitable opening the end of the lead soil pipe that is connected to said bowl and also to serve as the means generally for supporting said end of the pipe, and the object of my improvement is to produce a slab that is adapted for the purpose mentioned and is made of metal, preferably of sheet-metal, and that may be enameled, and that, as combined with the ring structure that receives the end of said pipe, comprises certain advantages over the rings and slabs of slate and marble that are in common use, one of these being the provision of means for having a free and unobstructed top surface bordering the structure of the bowl and also having a sealed or confined air space on the under side of said top surface, between the latter and the floor.

In the accompanying drawing:—

Figure 1 is a side elevation of a toilet slab embodying my invention and the lower portion of a toilet bowl seated thereon and, also, part of a soil pipe being shown projecting downwardly therefrom.

Figure 2 is a side elevation on an enlarged scale of the toilet slab shown in Fig. 1.

Figure 3 is a plan view of the same.

Figure 4 is a bottom view of part of the same, showing the opening and ring structure at the border of the same.

Figure 5 is a sectional view of one side portion on the line 5—5 of Fig. 3, parts of the bowl and soil pipe also being shown.

Figure 6 is a fragmentary longitudinal sectional view on the same scale as Fig. 1.

My improved toilet slab is used in the place of slabs of slate or marble such as are in common use for supporting the bowl 10 of a water-closet on the upper face and has an opening 11 for admitting the soil pipe 12 that is connected to said bowl 10 in any proper manner, involving generally the use of putty or cement in making the joint.

The soil pipe 12 is usually in the form of a four inch pipe of lead and to provide for a support the material of the pipe is worked outwardly so as to overhang the border portion of the opening 11, a ring of brass being generally interposed between the pipe and the body structure of the slab. The ring mentioned is generally covered by the upper end portion of the pipe. The discharge opening in the bowl registers with the opening in the pipe, the downwardly projecting lip provided on the bowl being entered into the pipe.

In the present instance I provide a ring 13 that serves for similar functions to those mentioned, which, however, is in the form of a flange of a collar structure 14 to be described.

The slab 15 shown is made of metal and enameled, has a plate-like body portion 16 of rectangular form, and has extending downwardly from the edges of said body portion 16 a supporting side wall structure 17 of moderate depth.

The collar structure 14 is made of a piece of tubing of a suitable size to admit the soil pipe and that is entered into the opening 11 and headed over at both ends so as to provide the flange 13 at the upper end and engaged with the upper face of the body portion 16 and a second flange 18 at the lower end that serves as a holding flange in contact with the lower face of said body portion 16.

The flange or ring 13 is of suitable size and form to provide along the border portion of the opening 11 the necessary support for the soil pipe 12.

Bolts 23 having suitable nuts 19 serve as the means for securing the bowl 10 to the slab 15, said bolts 23 being entered through the longitudinal slots 20 in the body portion 16, one on each side of the opening 11.

A plurality of holes 21 may be provided in the body portion 16 for securing the slab 15 in place.

It will be noted, as described, that the slab proper 15 and the collar structure 14 are combined in the form a unitary structure and, therefore, the bolts 23 serve to connect the bowl 10 with the slab and collar structure as a whole. Also, the holding bolts 23 engage with the slab portion only of said slab and collar structure, and do not engage with any part of the ring structure 14 directly.

An indentation 22 may be provided in the body portion 16 of the slab 15 that serves

as a reinforcement and also is adapted to receive some of the plaster of Paris or putty that is used in connecting the bowl 10 with the slab 15 and tend to prevent turning of the parts. Said indentation 22 may be positioned adjacent and in front of the opening 11.

Also, the under side of said indentation 22 is positioned adjacent the floor and is adapted to serve as a supporting foot for the body portion 16, particularly with plaster of Paris or putty interposed between the wall of the indentation and the floor.

The structure described being made of metal, and enameled, is adapted to be used with putty for the sealing means and the bed, to provide for irregularities and closing the open spaces, notwithstanding the oily character thereof, whereas with slabs of slate or marble putty cannot be used.

The body portion 16 and side walls 17 serve to confine an air space when set upon the floor, wherefore, means are provided by the proper use of putty or plaster of Paris for sealing of the edges and the openings around the studs for confining said space and forming a dead air space between the body portion 16 and the floor.

I claim as my invention:—

1. A toilet slab for water-closets comprising a plate-like body for receiving and supporting the bowl of a water-closet and having an opening for the soil pipe and a metallic collar structure serving as a border for said opening, said collar structure having integral flanges at the ends for engaging with the upper and lower faces of said body for holding the collar structure in place said slab having downwardly directed supporting flanges at the border of said body, and said body being provided with a downwardly directed indentation that is adapted to cooperate with said flanges for supporting the body.

2. A toilet slab as described in claim 1, said flanges being complete and unbroken on all sides, so as to serve to enclose a space for air between the body and the floor or supporting surface.

3. A toilet slab in the form of a one-piece structure having a body that has a zone that is adapted to serve as a seat for a water-closet bowl and is provided with an opening for the soil pipe and that has a plain plate-like border portion that extends outwardly from said zone, material at the edges of said border portion being turned downwardly to provide supporting flanges, and said flanges being complete, continuous, and unbroken on all sides of said border portion so as to be adapted to enclose and confine a dead air space between said body and the floor or supporting surface, said body having an indentation that extends downwardly so as to be adapted to cooperate with said flanges as means of support, and said indentation being located within said zone so as to be covered by the water-closet bowl.

4. As an article of manufacture, a toilet slab and collar combination comprising a slab structure that is made of sheet metal in the form of a plate-like body with turned edges for operating as supporting flanges, said body having an opening for the soil pipe, a plain flat ring of brass on the upper face of the border wall of said opening for receiving said soil pipe, and the material of said ring being extended through said opening and along the lower face of said border wall for holding the ring in place.

ALFRED PENOVI.