

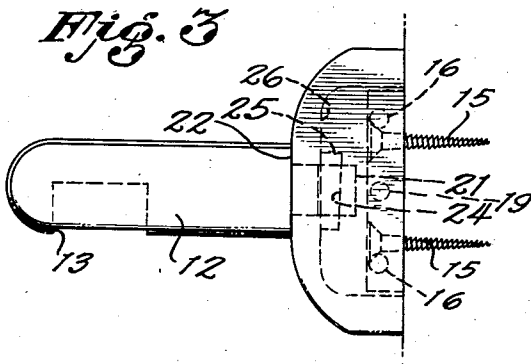
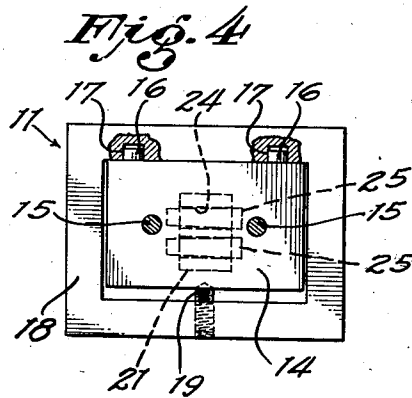
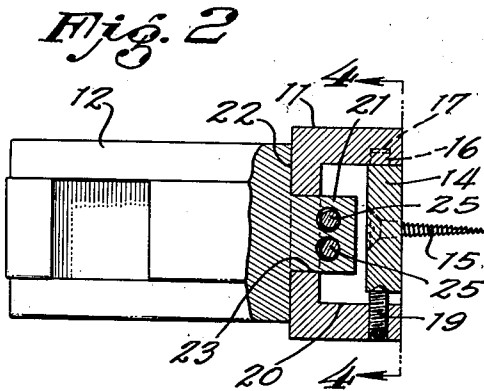
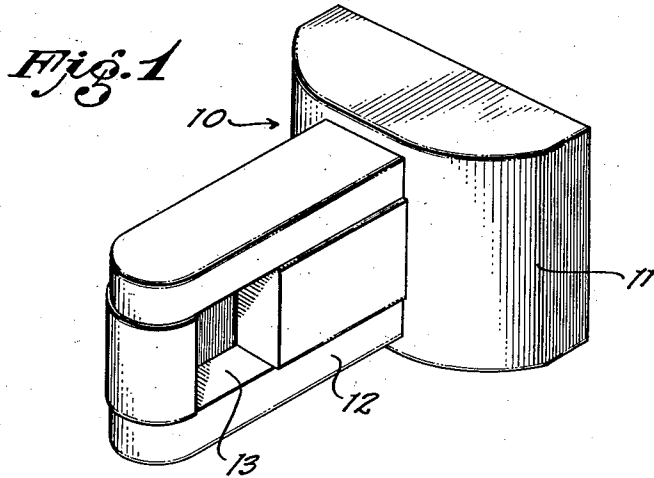
April 6, 1943.

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2,315,955

BATHROOM FIXTURE AND THE LIKE

Filed Jan. 7, 1942.



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## UNITED STATES PATENT OFFICE

2,315,955

## BATHROOM FIXTURE AND THE LIKE

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Application January 7, 1942, Serial No. 425,897

2 Claims. (Cl. 248—223)

This invention relates to articles of manufacture, and particularly pertains to bathroom fixtures and the like.

At the present time the demand for necessary metals in the manufacture of defense materials has produced an extreme shortage of metals used in peace time commercial manufacture. In the manufacture of bathroom fixtures and the like it has been usual to use non-corrosive metals, such as brass, and to metal-plate these articles, preferably with chromium. At present, however, these necessary metals are not available in quantities sufficient to meet the demand, and it has been necessary to find a substitute for them. One such substitute is a non-metallic plastic of the Lucite class. This plastic lends itself to uses which do not subject it to excessive strains, and in the present case can be used in the making of soap dishes, tumbler brackets, brackets for towel racks, and the like. It is desirable, however, that the actual mounting of the fixture on the wall be constructed of metal, and it is therefore necessary to provide simple and effective means for securing a plastic member to a metal mounting plate. It is the principal object of the present invention, therefore, to provide bathroom fixtures and the like constructed partly of plastics and partly of metal, and which elements are secured together by simple and effective means which insure that the parts will not become loosened and that the composite structure will be at all times rigid and solid.

The present invention contemplates the provision of a metallic base or mounting structure to which a fixture having particular utility, such for example as a soap dish, tumbler holder, or rail bracket, may be secured, the said elements interlocking and being held in their interlocking relationship by simple and positively acting means.

The invention is illustrated by way of example in the accompanying drawing, in which:

Figure 1 is a view in perspective showing a bathroom fixture in the form of a towel rack support and within which the present invention is embodied.

Figure 2 is a view in side elevation of the structure shown in Fig. 1 with parts broken away to show the connection between the base member and the bracket arm.

Fig. 3 is a view in plan with parts broken away showing the present invention.

Fig. 4 is a view in rear elevation showing the construction of the mounting plate and base as seen on the line 4—4 of Fig. 2.

Referring more particularly to the drawing, 10 indicates a bathroom fixture which comprises a base element 11 and a separate element 12 supported thereby. In the present instance the supported element 12 is shown as being the bracket arm which protrudes horizontally from the wall and is provided with a socket 13 into which a towel rail or the like may be positioned. It is to be understood, however, that the structure 12 may be any other fixture or the like, such as might be useful in the bathroom. The base structure 11 fits over a mounting plate 14. This mounting plate and the base may be of the type shown in my co-pending application entitled "Concealed fixture support," Serial No. 354,024, filed August 24, 1940. In this structure the mounting plate 14 is held against the wall or other support by screws 15. The mounting plate is rectangular. Its upper edge carries two upwardly projecting pins 16 which extend into recessed seats 17 in the margin 18 of the base 11. The base carries a set screw 19 along its lower margin which engages the lower face of the mounting plate 14 which holds the base 11 in fixed and adjusted relation to the plate 14. The base 11 is preferably made of metal and is formed with a rectangular recess 20 which accommodates the mounting plate 14 and the tenon 21 of the bracket 12. The element 12, as previously described, is made of plastic material of any desired design and for any particular purpose. This element has a shoulder face 22 which rests against the front face of the base 11. The shoulder face 22 carries the tenon 21 which extends through a central opening 23 in the base 11. As shown in Fig. 4, the tenon 21 is rectangular, and since the opening 23 is of similar configuration it will be evident that the member 12 cannot rotate and that the member 12 will be held firmly. Formed through the tenon and transversely of it are tapered openings 24 to receive tapered pins 25. The walls of the opening are so disposed as to insure that the forward edge of the tapered pins 25 will lie against the back face 26 of the recess 20. The pins 25 and the element 12 with its tenon 21 are preferably made of plastic material, such as Lucite. Thus, when the pins 25 are driven tightly into the openings 24 the tenon will be drawn inwardly to hold the front face 22 against the face of the base 11. In this manner the plastic material may be tightly secured to the metal parts without the use of screws or other fastening means which would tend to split the plastic material or to become loosened.

In operation of the present invention the plate

14 is secured to the wall by the screws 15, after which the base member 11 is mounted over the plate 14 and its recesses placed in register with the pins 16. The set screw 19 is then tightened to hold the base 11 on the plate 14. This will cause the entire structure to be assembled and to appear as shown in Fig. 1 of the drawing.

It will thus be seen that by the construction and arrangement of parts here shown it is possible to manufacture articles comprising metallic and non-metallic materials, and to quickly and firmly secure the parts together.

While I have shown the preferred form of my invention as now known to me, it will be understood that various changes may be made in combination, construction and arrangement of parts by those skilled in the art, without departing from the spirit of my invention as claimed.

Having thus described my invention, what I claim and desire to secure by Letters Patent is:

1. A bathroom fixture, comprising a metallic base element adapted to be disposed against a flat supporting surface and having a recess in the back thereof, means for securing said base in position, a polygonal shaped opening within the base extending from the front face into the recess, a non-metallic fixture adapted to be sup-

ported by the base and having a shoulder resting against the front face of the base, a tenon extending through the polygonal opening in the base and agreeing in section with the opening, said tenon being formed with a transverse hole through it occurring within the recess, and a pin adapted to be forced into said hole and overhang the tenon to rest against a face of the base, whereby the fixture element will be held securely in position.

2. A bathroom fixture, comprising a hollow base element having an opening in its rear face, means secured to a wall and projecting into said opening to engage the base element and hold it in place, a polygonal-shaped opening through the front wall of said base element, a fixture having a shank adapted to extend through said polygonal-shaped opening and conforming thereto, said fixture having a shoulder adjacent said shank and abutting against the front face of the base element, the shank being formed with transverse openings therethrough, and tapered pins adapted to be driven into said openings and overhanging the opposite ends thereof to cooperate with the shoulder of the fixture in rigidly holding the fixture to the base.

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