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MIXING FAUCET FIXTURE

Filed Dec. 22, 1928

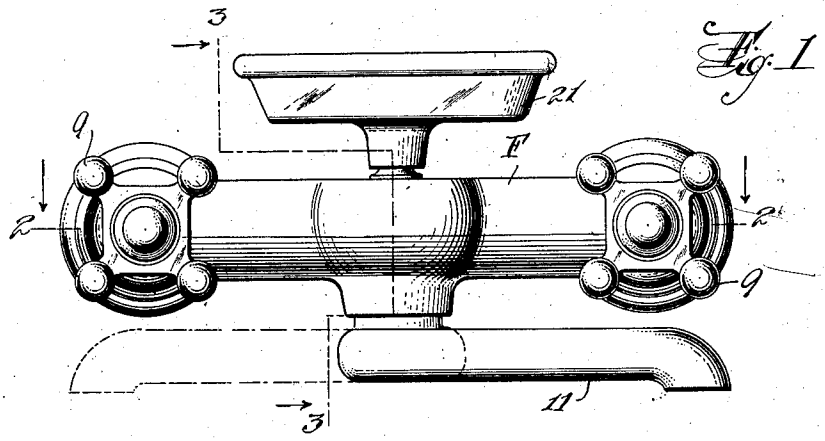


Fig. 1

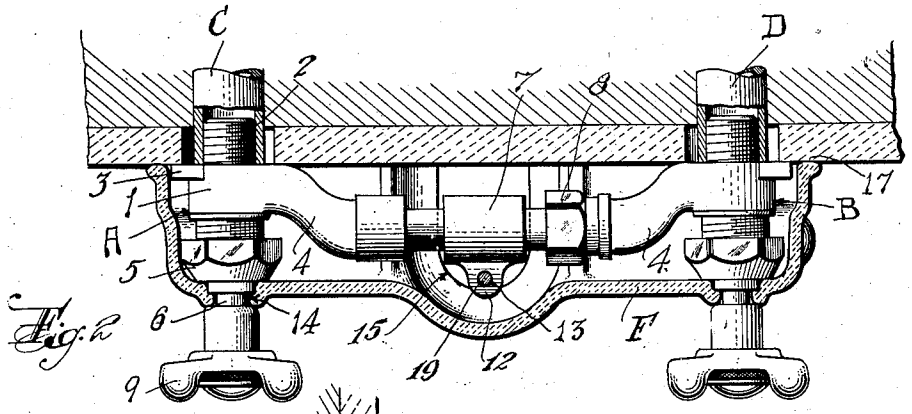


Fig. 2

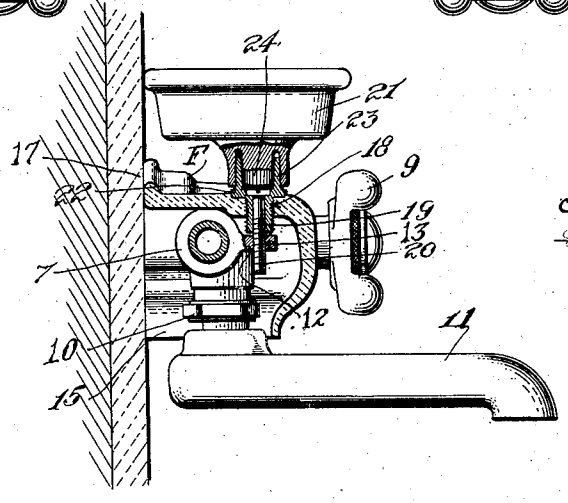


Fig. 3

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MIXING FAUCET FIXTURE

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This invention relates to fittings or fixtures including a plurality of faucets or valves having a common outlet which may serve to mix the water or other fluids from said faucets; and more particularly the invention relates to fixtures of this character specially adapted for use with sinks, basins, shower baths, etc., where a neat appearance and sanitary construction are desirable.

One object of the invention is to provide a novel and improved fitting or fixture of the character described wherein all of the pipes, valve bodies, etc., are housed or encased so that only the operating handles are visible, whereby the pipe connections are protected and concealed to produce an ornamental and sanitary installation.

Other objects are to provide a novel and improved combination of a water supply fixture and a casing or housing therefor wherein the housing is directly connected to and supported by the fixture; to provide such a combination wherein the housing has mounted therein a screw or like fastening member which projects from the interior of the housing and separably engages a portion of the water supply fixture, and to obtain other advantages and results as will be brought out in the following description.

Referring to the accompanying drawings, in which corresponding and like parts are designated throughout the several views by the same reference characters,

Figure 1 is a front elevation of a mixing faucet fixture embodying my invention;

Figure 2 is a horizontal sectional view, taken on the line 2—2 of Figure 1, but showing the fixtures in plan, and

Figure 3 is a transverse vertical sectional view, taken on the line 3—3 of Figure 1.

Specifically describing the illustrated embodiment of the invention, the reference characters A and B designate water supply valves generally of known construction each including a casing 1 having an exteriorly threaded inlet nipple 2 at the inner end of which is a base flange 3. The casings 1 also have cast integral therewith outlet nipples 4 which are disposed at substantially right angles to the inlet nipples 2. Within the casings 1 are arranged the usual valve mechanisms, access to which is obtained through removal of the valve bonnets 5, and the said valve mechanisms have valve stems 6 projecting from the casings in substantially axial alinement with the inlet nipples 2. Operating handles 9 of suitable construction are secured to the projecting ends of the valve stems 6 for operating the valve mechanisms.

A T-fitting 7 has its arms connected to the respective outlet nipples 4, and preferably one of said arms is connected to the corresponding nipple by a union or the like 8. The stem of the T-fitting is connected by a packed swivel connection 10 to a swinging nozzle 11 which is common to both outlet nipples. The T-fitting 7 also preferably has an integral lug or the like 12 formed with a screw threaded opening 13 for a purpose about to be described.

As hereinbefore mentioned, this fixture is intended for use with kitchen sinks or bath tubs, and one object is to eliminate the necessity of embedding the valves and connections thereof with the supply pipes in the wall of the building. In Figure 2 of the drawings the reference characters C and D designate water supply pipes which have their ends projecting from the wall and in substantially the plane of the outer surface of the apron E of a porcelain sink, or the inner surface of the end wall of a bath tub. In applying the fixture, the valves A and B are disconnected from each other by separation of the union 8, and the threaded nipples 2 of the respective valves are separately screwed into the ends of the respective supply pipes C and D by rotation of the valve casings, whereupon the base flanges 3 are brought into contact with the surface of the wall or the surface of the apron E of a sink, or the inner surface of one end of a bath tub, as the case may be. The valve casings 1 are rotated finally until the outlet nipples 4 are in substantially axial alinement, after which the union 8 is tightened up to connect the outlet nipples, as shown in Figure 2 of the drawings.

Another important feature of my invention which is in part made possible by this

particular construction of valve bodies and pipe connections, is the provision of a housing for the valve bodies and pipe connections. This housing is designated by the reference character F and has one side thereof open to slip over the valve bodies, outlet nipples 4 and T-fitting 7, while the opposite side is formed with openings 14 to receive the projecting ends of the valve stems 6. Between the openings 14 the lower side of the housing is formed with an opening 15 to permit the stem of the T-fitting and and the nozzle 10 to project from the housing.

In applying the housing the handles 9 of the valves are removed. The housing is then slipped over the valve casing 1 and the T-fitting 7 until the edges of the open side of the housing abut the surface of the wall, the sink apron, one end of the bath tub, or the like, as at 17. The housing is of such depth that the side thereof opposite said open side will then substantially abut the valve bonnets 5. The valve handles are then applied to the respective valve stems.

For securely connecting the housing to the water supply fixture and for supporting the housing thereon, the upper side of the housing may be formed with an opening 18 in which is rotatably arranged a screw 19 having a screw threaded end 20 to fit the threaded opening 13 in the lug 12 on the T-fitting 7. Obviously, when the screw 19 is fitted into the opening 13, the housing will be securely connected to the water supply fixture.

It is possible to combine the screw 19 with a support for a soap dish or the like 21, as clearly shown in Figure 3 of the drawings. For this purpose the opening 18 may be provided in a bushing 22 screw threaded into the top side of the housing and having a tubular projection 23 extending upwardly above the housing to receive a stud 24 on the bottom of the soap dish 21. With this construction the screw 19 is entirely enclosed when the housing is in position.

The exterior of the housing F will preferably be white enamel or porcelain finish corresponding to a tile wall, porcelain sink apron, bath tub or the like, and it will be observed that all metal parts and connections of the valve casings with each other and with the supply pipes and outlet nozzle, are entirely enclosed by the housing so as to produce a neat and sanitary appearance and to protect the connections from injury. At the same time, the housing may be quickly removed by slipping off the handles 9 and removing the screw 19, and the valves are thus made easily and quickly accessible for repair or replacement and without injury to the wall or supporting surface in which the supply pipes are fitted.

While I have shown and described certain preferred embodiments of my invention including the specific details of construction, it will be understood that this is primarily for the purpose of illustrating the details of the invention and that many modifications and changes may be made in the details of construction without departing from the spirit or scope of the invention. Therefore, I do not desire to be understood as limiting myself, except as required by the following claim when construed in the light of the prior art.

Having thus described the invention, what I claim is:

In a plumbing fixture, the combination with a support having a plurality of fittings projecting therefrom and formed with operating stems, of a housing having an open side to slip over all of said fittings with the edges of said open side abutting said support and formed with openings one to receive each of said stems so that said fittings are wholly enclosed by said housing and said stems project through said openings from the housing, operating handles on said stems, one wall of said housing having a bushing therein adapted to receive at its outer end a soap dish or the like, and cooperating fastening members for securing said housing upon said fittings, one of said fastening members being mounted in said bushing and the other being carried by one of said fittings.

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