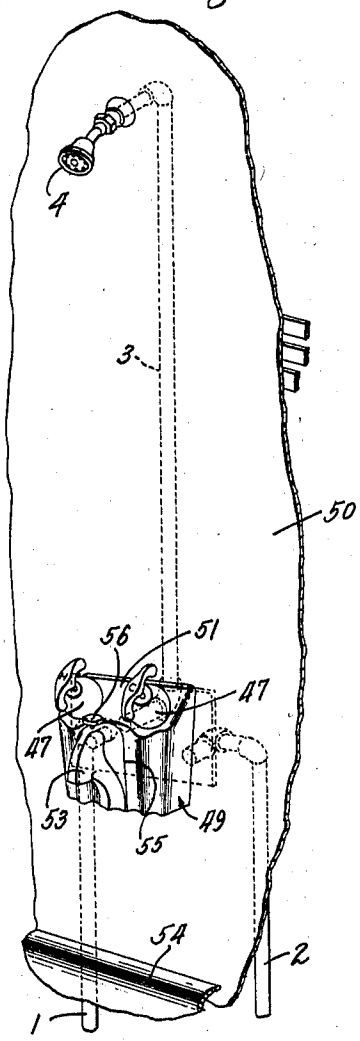
Sept. 15, 1942. E. H. BUCKNELL ET AL 2,295,888

COMBINATION FIXTURE

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Fig. 1.



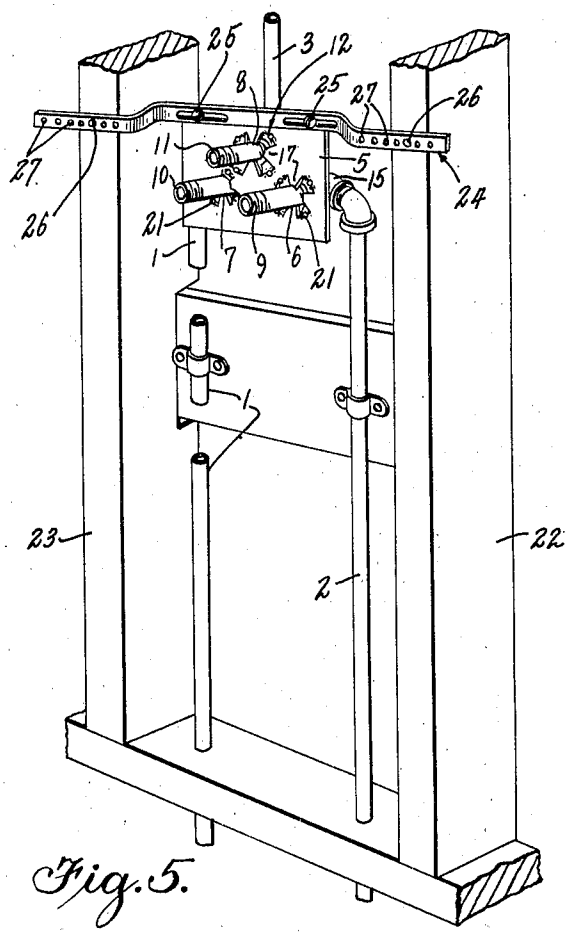
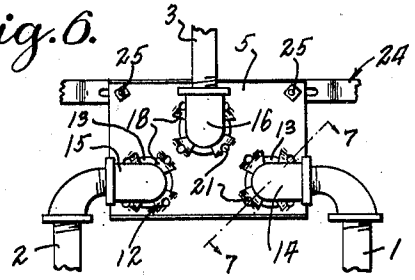


Fig. 5.

Fig. 6.



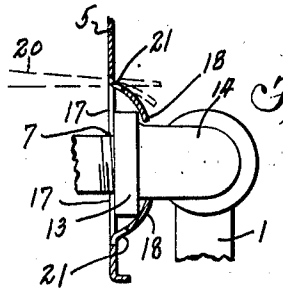


Fig. 7.

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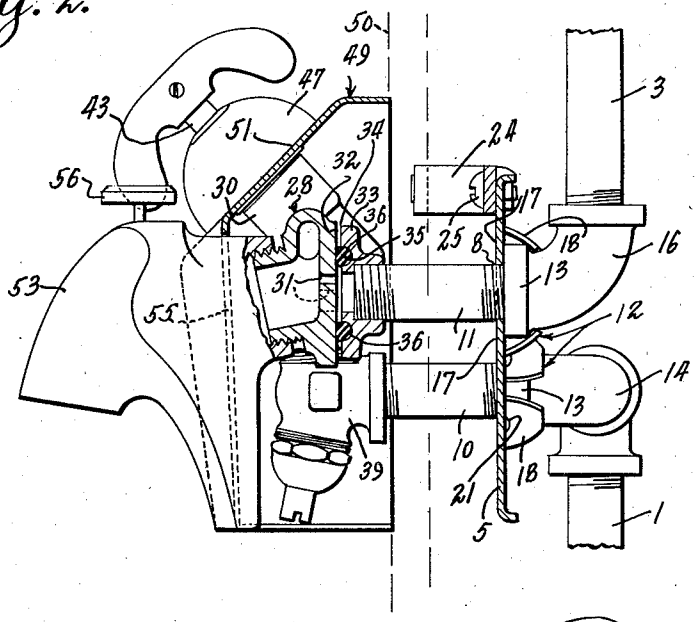
Attorneys

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COMBINATION FIXTURE

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Fig. 2.



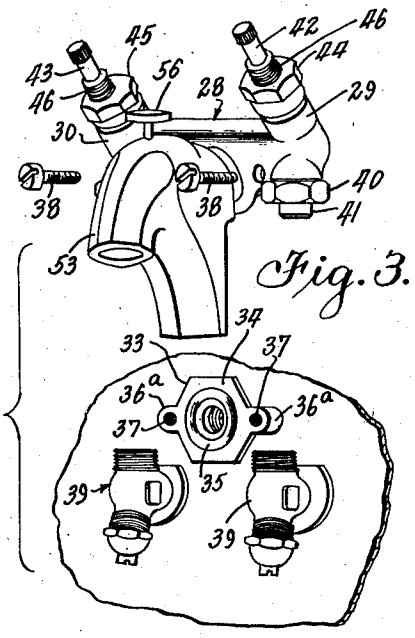


Fig. 3.

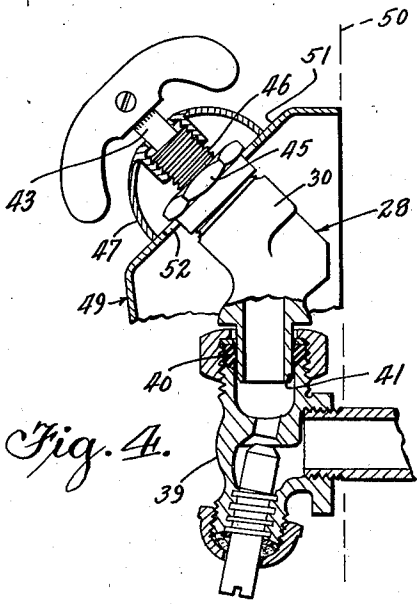


Fig. 4.

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UNITED STATES PATENT OFFICE

2,295,888

COMBINATION FIXTURE

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Application June 7, 1940, Serial No. 339,320

4 Claims. (Cl. 4—1)

This invention relates to combination fixtures, and is more particularly related to a combination hot and cold water spout and spray fixture and to its method of mounting in connection with the hot and cold water supply inlet and the spray outlet.

It is an object of this invention to provide a combination fixture wherein means are provided for centering and holding the supply and discharge conduits in definite position relative to the inlet and discharge passages of a combination spout and spray fixture.

Another object of this invention is to provide a combination fixture of the spout and spray type in which all the elements of the fixture are carried upon the surface of the wall and are suitably housed with a surface escutcheon or member whereby removal for repair of any portion of the fixture may be easily accomplished.

Another object of this invention is to provide a combination spout and spray fixture of a simple and composite design wherein means are provided between the supply and discharge conduits for simply and removably connecting the fixture in position.

Another object of this invention is to provide a combination spout and spray fixture of the surface wall mounting type adapted to be covered by an escutcheon and wherein control valves of such fixture are projected at an angle from the horizontal in such manner as to maintain the escuthcheon in position against the wall as suspended from the said angular holding means.

Other objects and advantages of this invention it is believed will be apparent from the following detailed description of a preferred embodiment thereof as illustrated in the accompanying drawings.

In the drawings:

Figure 1 is a perspective view of the device embodying my invention illustrating the same in position on a wall shown as broken away.

Figure 2 is a side elevation partly in vertical mid-section of a combination fixture embodying my invention illustrating the same as connected in position with respect to a fragment of a wall structure.

Figure 3 is a separated perspective view of the combination fixture embodying my invention illustrating the same as disassembled preparatory to assembly to the position illustrated in Figure 2.

Figure 4 is a fragmental elevation partly in vertical section illustrating the connection of one of the volume control members in the combination fixture.

Figure 5 is a perspective view illustrating the centering and supporting means for the conduits for the combination fixture embodying my invention.

Figure 6 is a fragmental rear elevation of the centering and supporting means illustrated in Figure 5.

Figure 7 is a sectional view taken substantially on the line 7—7 of Figure 6.

In the preferred embodiment of my invention as illustrated in the accompanying drawings, 1 indicates a hot water supply conduit, 2 a cold water supply conduit; a shower riser conduit 3 is provided for conducting the water from the combination fixture and delivering the same to a shower head 4.

Means are provided for definitely positioning and holding the conduits 1, 2 and 3 in position for connection with, and for supporting, the combination fixture embodied in my invention. This means includes a plate 5 having three centering apertures 6, 7 and 8 through which connection nipples 9, 10 and 11 for connection with the combination fixture are extended. The plate 5 is provided with elbow clamping means 12 at each of the apertures 6, 7 and 8 by means of which the beads 13 of the connecting elbows 14, 15 and 16 are clamped and supported in position. The apertures formed through the plate 5 are of a diameter sufficient to receive the nipples 9, 10 and 11 but are insufficient to permit passage of the bead 13 through from the rear face of the plate 5. The metal surrounding these apertures is die-stamped to provide a plurality of stop fingers 17 which act to engage the face of the elbow bead or rim 13. The metal is also stamped to provide a plurality of clamp fingers 18 which are bent rearwardly sufficiently to permit the passing of the elbow rim 13 into position against the stop fingers or members 17.

After the elbows are properly positioned, a tool as indicated in dotted lines at 20 may be inserted into the drilled holes 21 formed in the clamp fingers 18 to force the same downward against the inner face of the elbow rims 13, thereby locking the elbows in position.

It will be apparent from the foregoing that while we have described centering and supporting means 5 as operating in conjunction with elbows 14, 15 and 16, that this means is equally susceptible to clamping and supporting other similar plumbing fitting members having similar beads or rims to beads 13 as, for example,

T's or other plumbing fittings, depending upon the particular type of installation with which the centering and supporting plate or member 5 is utilized. It will be apparent by the use of this supporting and centering means that we are enabled by proper positioning of the apertures 6, 7 and 8 in the plate 5 to definitely fix the position of the nipples 9, 10 and 11 required for mounting the fixture into position. The centering and supporting plate 5 may be secured in position between the structural members as, for example, the studs 22 and 23 by any suitable or desirable means as through the use of the supporting strap 24 to which the plate is adjustably secured by means of bolts 25 and which strap may be nailed to the studs 22 and 23 by nails 26 passed through any one of a plurality of holes 27 formed in the strap 24. Thus complete adjustability of the position in which the centering and supporting plate 5 is positioned is provided for.

The combination fixture embodying our invention as coupled with the supporting and centering means as hereinabove described includes a transverse conduit casting 28 having cast at its respective ends valve bosses 29 and 30 and provided at approximately the midpoint with shower outlets 31. At the shower outlets there is provided a flat surface 32 providing a slip surface for mounting with relation to the surface of a collar 33. The collar 33 has a similar flat surface 34 so that assembly of centering of the branch casting 28 over the collar 33 may be had by relative vertical movement of the two surfaces 32 and 34 by each other to a position where the shower outlet 31 is aligned with the passage provided through the shower riser nipple 11.

A packing ring 35 is embedded into one of the surfaces 32 or 34 being illustrated here as embedded in a packing recess 36 formed in from the surface 34 of the collar 33. The collar 33 is provided with wings 36a threaded as indicated at 37 to receive the screws 38 which pass through the casting 28 to secure the same in position.

Volume and pressure control valves 39 are threaded to the ends of the nipples 9 and 10 and are connected at the packed slip fittings 40 to the cylindrical extensions 41 of the valve castings 29 and 30.

Water control valves of any suitable or desirable construction are mounted in the valve castings 29 and 30 and the control stems 42 and 43 for these valves extend through the cap nuts 44 and 45 provided for the valve castings 29 and 30. The valve caps 44 and 45 are provided with threaded extensions 46 to which suitable escutcheons 47 are threaded.

The valve bosses 29 and 30 are cast with reference to the transverse casting 28 in such manner that they extend substantially 45° forward of the axes of the securing extensions 41. An escutcheon 49 is provided for enclosing the combination fixture upon the surface of the wall 50 upon which the fixture is mounted. This escutcheon is provided with a 45° section 51 through which apertures 52 are formed to permit the same to be placed over the valve caps 44 and 45. Secured to the branch casting 28 is a spout 53 which delivers the water from the branch casting 28 to any suitable point such as to the tub indicated at 54 (Figure 1). The escutcheon 51 is provided with a slot 55 through which the spout 53 extends. By forming the complementary section 45° sections of the escutcheon 51 and the valve bosses 29 and 30, there is provided a support for the escutcheon 51 so that when the escutcheon 51 is positioned over the combination fixture, the same is supported by its own weight in such manner that it lies flat against the surface of the wall 50. The bell escutcheons 47 are then threaded to the valve caps 44 and 45 and clamp the escutcheon 51 in position.

The combination fixture as thus described may include any suitable or desirable form of water diverting means through the medium of which the water may be caused to pass either up through the shower riser 3 to the shower head 4 or may be permitted to flow out through the spout 53 as, for example, a valve may be mounted in the spout 53 which valve is provided with an actuating handle 56 extending from the upper surface of the spout 53. Any suitable or desirable form of automatic diverter or ejector means for controlling this flow or the direction of flow of this water may be provided in this fixture as, for example, illustrated in the Glauber Patents Nos. 1,653,956 or 1,666,531.

Having fully described our invention, it is to be understood that we do not wish to be limited to the details herein set forth, but our invention is of the full scope of the appended claims.

We claim:

1. In a device of the class described the combination of a hot water inlet pipe, a cold water inlet pipe, an outlet pipe, fitting members secured to each of said pipes, said fitting members having annular beads, a centering plate having openings adapted to receive and position the beads of said fitting members, means carried by said plate to grip the beads and thereby secure said pipes in position.

2. In a device of the class described, the combination of a centering and supporting plate, means for securing the plate in position, the plate having a plurality of positioning apertures, radial stop fingers surrounding the apertures, and radial clamping fingers bendable with relation to the stop fingers to secure a fitting element against the stop fingers and within said apertures.

3. In a device of the class described, the combination of a centering plate having spaced positioning apertures therein, each of said apertures being provided with centering stop fingers and radially extending bendable clamp fingers.

4. In a device of the class described, the combination of a centering plate having spaced positioning, and receiving apertures for the bead of a plumbing fitting member, the plate being formed around said apertures with alternately spaced stop and clamping fingers, the stop fingers being adapted to engage one side of the bead of said fitting members, and clamp fingers being bendable into position to engage the other side of said beads.

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