

991,142.

Patented May 2, 1911.

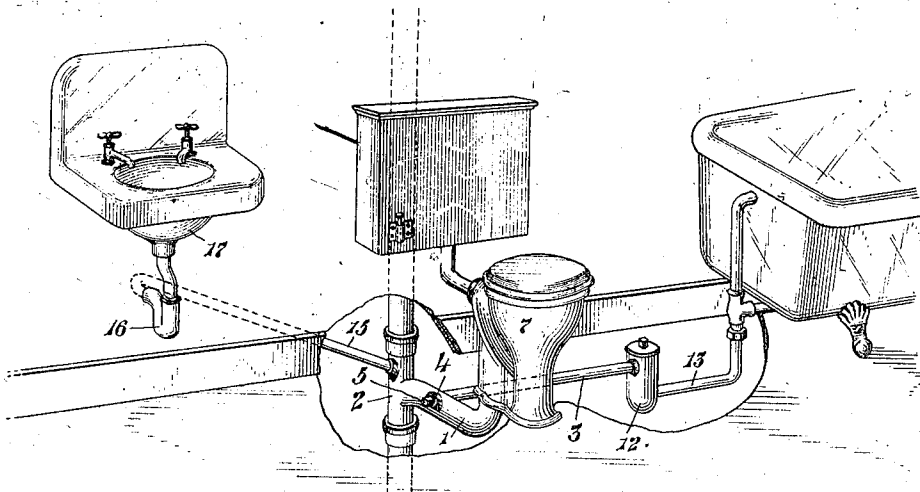


Fig. 1.

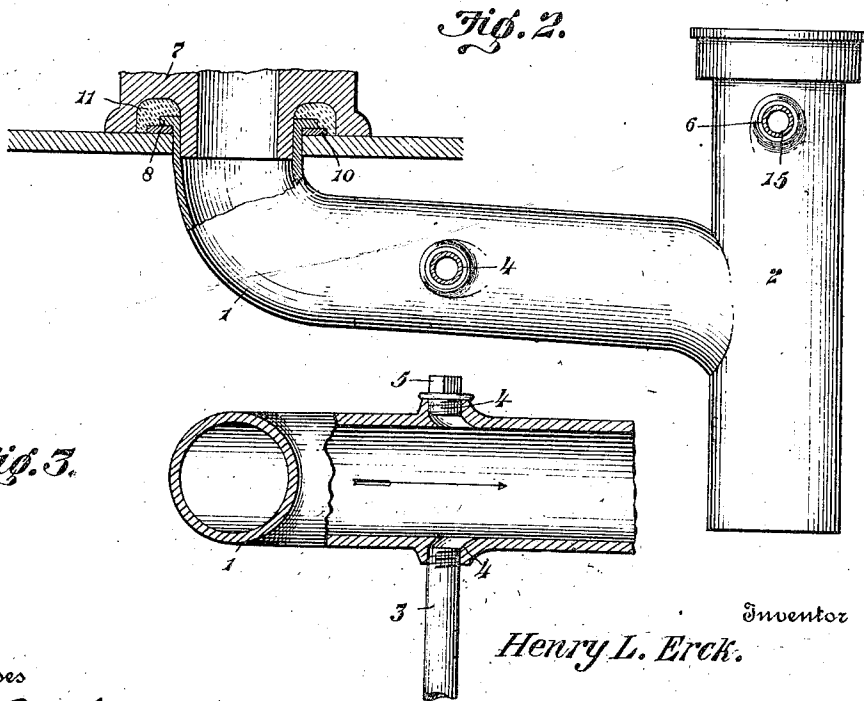


Fig. 3.

Fig. 2.

Witnesses

J. M. Bishop.
 Sylvia Boron.

Inventor
 Henry L. Erck.

By Bond & Miller

Attorneys

UNITED STATES PATENT OFFICE.

HENRY L. ERCK, OF CANTON, OHIO.

FITTING FOR PLUMBING SYSTEMS.

991,142.

Specification of Letters Patent.

Patented May 2, 1911.

Application filed December 27, 1910. Serial No. 599,361.

To all whom it may concern:

Be it known that I, HENRY L. ERCK, a citizen of the United States, residing at Canton, in the county of Stark and State of Ohio, have invented certain new and useful Improvements in Fittings for Plumbing Systems, of which the following is a specification.

My present invention has relation more specifically to the construction of the elbow, the waste or soil pipe and the vent pipe together with the location and arrangement of the screw threaded openings to which, are to be attached the various pipes leading from said elbow and connected to the bath tub or bath tubs and to the lavatory, such as are commonly used in bath rooms of dwellings and business blocks in connection with water systems.

One object of the present invention is to provide a novel form of an elbow or what might be termed the main fitting for bath rooms, which can be used regardless of the exact relative arrangement of the floor or partition walls.

A further object of my invention is to provide means whereby the main fitting or elbow can be used and the bath tub connected either upon the right or left hand side of said elbow without any change of said elbow.

These objects together with other objects readily apparent to those skilled in the art I attain by the construction illustrated in the accompanying drawing, although my invention may be embodied in a variety of other mechanical forms, the construction illustrated being chosen by way of example.

In the accompanying drawing—Figure 1 is a perspective view showing bath room interiors and proper connections made. Fig. 2 is a side elevation of the elbow, its integral soil and vent pipe connection or T showing a part of a bowl and illustrating said bowl properly connected. Fig. 3 is a partial longitudinal section showing a portion of the elbow.

Similar numerals of reference indicate corresponding parts in all the figures of the drawing.

In the accompanying drawing, 1 represents the elbow to which the bowl is to be attached and 2 represents the integral soil and vent connection or T. For the purpose of providing for properly connecting the bath tub waste pipe 3, the elbow 1 is provided with

the screw threaded apertures 4, which are located substantially diametrically opposite each other and in the opposite walls of the elbow. The purpose of so locating the screw threaded apertures is for the purpose of providing means for making practically straight line attachments to the elbow regardless of the fact as to whether or not the bath tub is to be located upon the right or left hand side of the bowl. If in the event it is desired to use the elbow in connection with one bath tub only, then in that event one of the screw threaded apertures 4 is closed by means of the usual plug 5, but if in the event it is desirable to connect up two bath tubs with the elbow, the same can be done without any change as to said elbow and no change in the fittings or connections; that is to say one or two bath tubs can be connected without changing in any manner the elbow as originally made.

In the top or upper portion of the combined soil pipe and vent pipe connecting head or T 2 the lavatory connecting openings or screw threaded apertures 6 are located diametrically opposite each other, although in Fig. 2 but a single aperture is illustrated. In plumbing it is of importance that the various pipes leading to the bath tub and to the lavatory extend substantially at right angles to the elbow and its integral connecting head and in order to prevent sharp angles at the places of connection the openings directly back of the screw threaded portions 4 and 5 are located at an angle inclined toward the soil pipe connecting head 2. This feature is best illustrated in Fig. 3. In order to provide for the proper location of the bowl 7 regardless of the floor line, the bowl connecting end or portion of the elbow 1 is originally formed of sufficient length for floors of the maximum thickness and when connection is to be made through floors of lesser thickness than the maximum, the surplus length is cut from the elbow and a flange 8 formed in the usual manner, by which arrangement the usual gasket 10 and the putty 11 or other material can be placed in proper relative position and the bottom of the bowl located directly upon the floor. By this arrangement suitable sanitary fittings can be made without expensive and unsanitary connections. It will be understood that as between the bath tub and elbow there should be located a trap 12 which

trap may be of any well known construction. But the trap within itself forms no specific part of the present invention. The bath tub pipes 13 and 3 are shown conventionally properly connected. The lavatory pipe 15 is connected to the T head 2 in substantially the same manner as the bath tub pipe and a trap 16 provided. I have illustrated the trap 16 located substantially directly below the lavatory bowl 17 and when connected as illustrated there need be no provision for back vent for the lavatory. Another advantage in connecting the lavatory as shown is that the distance between the lavatory and the vent and soil pipe head T and its integral elbow is materially shortened, which is an important feature, owing to the fact that in many instances the rules and regulations of cities require that the lavatory be located within a given distance of the soil or waste pipe connection.

It will be understood that in order to form the flange 8 at any point where the elbow is cut to provide for the proper adjustment with reference to floors of various thicknesses, said elbow should be formed of

bendable material, such as brass, but of sufficient rigidity for the purpose intended.

Having fully described my invention what I claim as new and desire to secure by Letters Patent, is—

The herein described fitting for plumbing systems consisting of the combination of a reducible elbow, an integral head, said head constituting a soil and vent pipe, said elbow portion located between the ends of the vent and soil pipe portions of the head and provided with screw threaded apertures in the walls thereof, the walls of said apertures inclined toward the soil pipe portion of the head and the vent pipe portion of the head and the vent pipe provided with apertures, said apertures located above the horizontal portion of the elbow, substantially as and for the purpose specified.

In testimony that I claim the above, I have hereunto subscribed my name in the presence of two witnesses.

HENRY L. ERCK.

Witnesses:

JOHN H. SPONSELLER,
F. W. BOND.