E. R. LUMSDEN.

CLOSET FLANGE.

APPLICATION FILED FEB. 23, 1918.

1,291,041.

Patented Jan. 14, 1919.

Fig. 1.

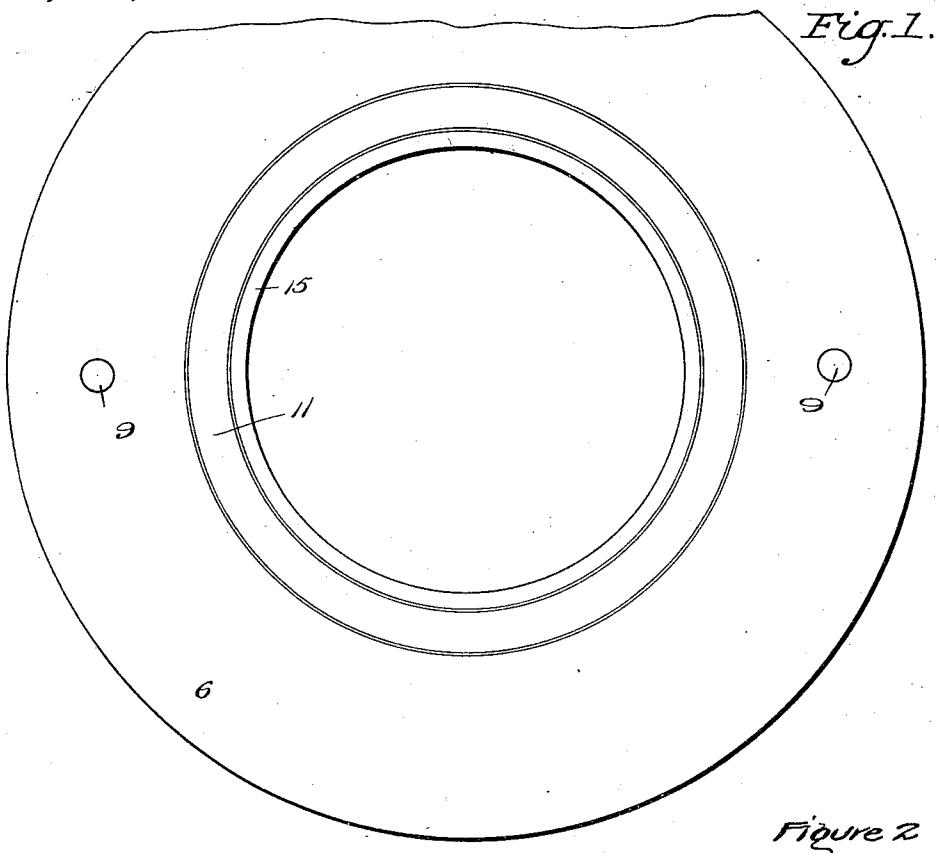
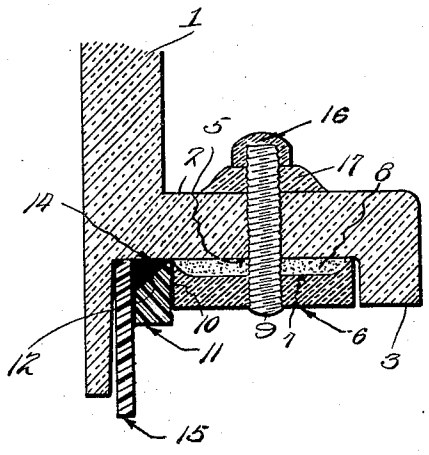


Figure 2



WITNESS

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UNITED STATES PATENT OFFICE.

EDWARD R. LUMSDEN, OF INDIANA, PENNSYLVANIA.

CLOSET-FLANGE.

1,291,041. Specification of Letters Patent. Patented Jan. 14, 1919.

Application filed February 23, 1918. Serial No. 218,362.

To all whom it may concern:

Be it known that I, EDWARD R. LUMSDEN, a citizen of the United States, residing at Indiana, in the county of Indiana and State of Pennsylvania, have invented a new and useful Closet-Flange, of which the following is a specification.

It is the object of this invention to provide a simple means whereby a water-closet bowl of standard construction may be connected with an outlet pipe at the floor line, in such a way as to conform to regulations which require a tight joint at the point mentioned, without working material changes in the standard form of bowl.

The drawings show merely a typical embodiment of the invention, and changes, such as a mechanic might make, may be resorted to within the scope of what is claimed, without departing from the spirit of the invention,

In the drawings:—

Figure 1 shows in bottom plan, a device constructed in accordance with the invention, parts being broken away; Fig. 2 is a fragmental tranverse section, wherein a portion of the bowl has been shown as an added detail.

The numeral 1 marks the neck of a water-closet bowl which, ordinarily, is made of fictile material, or porcelain, the neck having an outstanding flange 2 provided at its margin with a depending lip 3. The neck 1 terminates in a thinned sleeve 4, the parts 4 and 3 defining a groove 5 in the bottom of the flange 2.

A main ring 6, which may be made of iron, is seated in the groove 5 and bears against the under surface of the flange 2, the main ring being supplied in its upper surface with a groove 7 of angular form and of considerable width, the groove being adapted to receive a mass of cement 8 which coöperates with the flange 2. Any suitable means may be provided for holding the main ring 6 on the flange 2. As shown, screw bolts 9 are engaged with the ring 6 and pass upwardly through the flange 2, nuts 16 being threaded on the upper ends of the members 9. If desired, washers 17 may be interposed between the nuts 16 and the flange 2, and if these washers are resilient, the flange 2 will not be likely to be broken or cracked when the nuts 16 are tightened up. The main ring 6 is internally threaded as shown at 10.

An auxiliary ring 11 lies within the main ring 6 and is engaged with the threaded part 10 of the ring 6. The ring 11 preferably is made of brass and is somewhat thicker than the ring 6. The upper edge of the ring 11 is beveled inwardly as shown at 12 to form a solder-receiving recess. A drain pipe 15 which sometimes is fashioned from lead, extends upwardly between the sleeve 4 and the ring 11, and is held to the ring 11 by a mass of solder 14 located in the recess formed by beveling the ring 11 as shown at 12.

It will be obvious that when the ring 11 is soldered to the drain pipe 15, and when the ring 6 is attached to the flange 2, the bowl may be assembled with the pipe 15, it being possible to provide a tight joint between the neck 1 of the bowl and the pipe 15, at the floor line, without working extensive or indeed appreciable changes in the standard construction of the bowl.

Having thus described the invention, what is claimed is:

In a device of the class described, a water closet neck having an outstanding flange and provided with a depending sleeve; a main ring coöperating with the under surface of the flange and provided upon its upper surface with a cement-receiving groove extended thereacross and forming cement-holding ribs at the inner and outer edges of the ring; means for attaching the ring to the flange; an auxiliary ring having external threads engaging the inside of the main ring and beveled downwardly to form a recess; a drain pipe around the sleeve and extended within the auxiliary ring; and solder in the recess, the solder serving to hold the pipe in the auxiliary ring and acting as a reinforcement for the thinned edge of the auxiliary ring caused by the beveling thereof, whereby the threads on the outer surface of said thinned edge will be kept intact.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature.

EDWARD R. LUMSDEN.

Witnesses:

CHARLES A. LUMSDEN,

GUS E. HOOD.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."