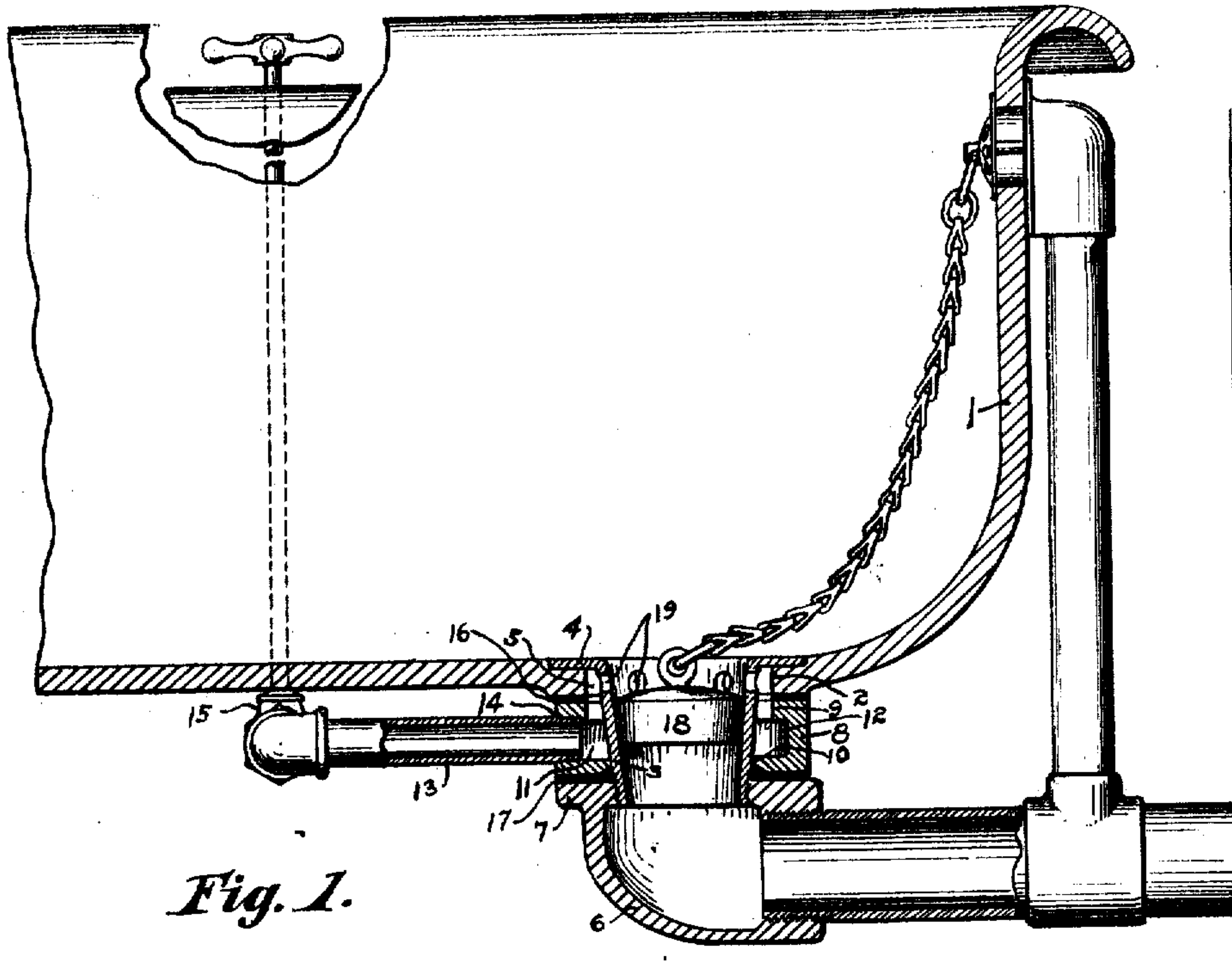


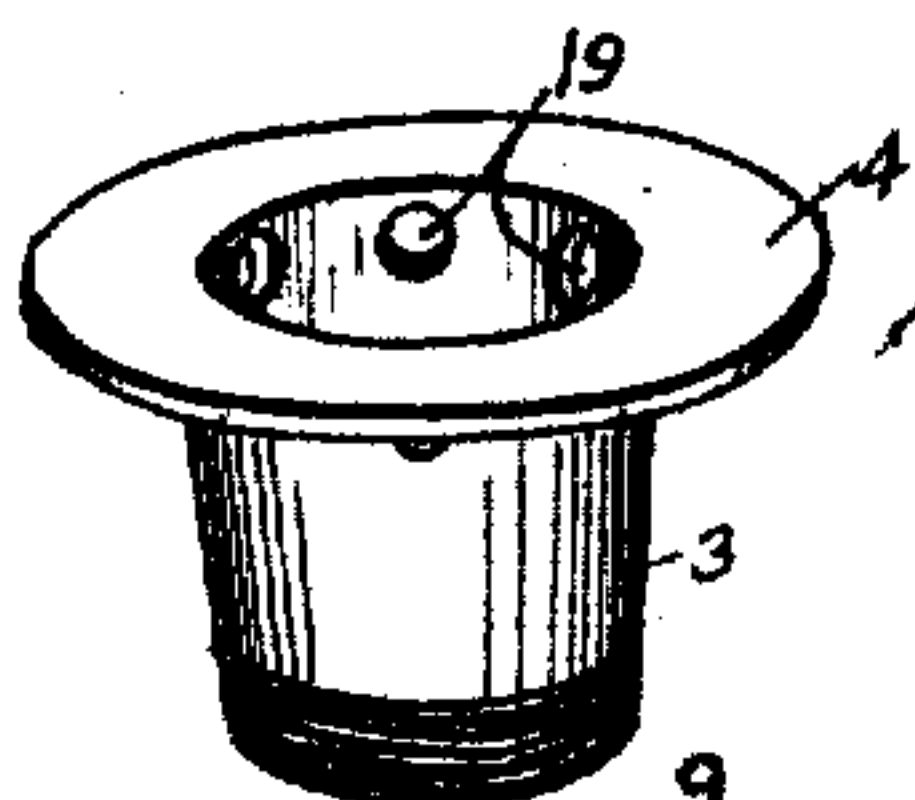
D. C. CHARMOIS.  
SUPPLY AND WASTE FOR BATH TUBS.  
APPLICATION FILED DEC. 26, 1908.

Patented Feb. 23, 1909.

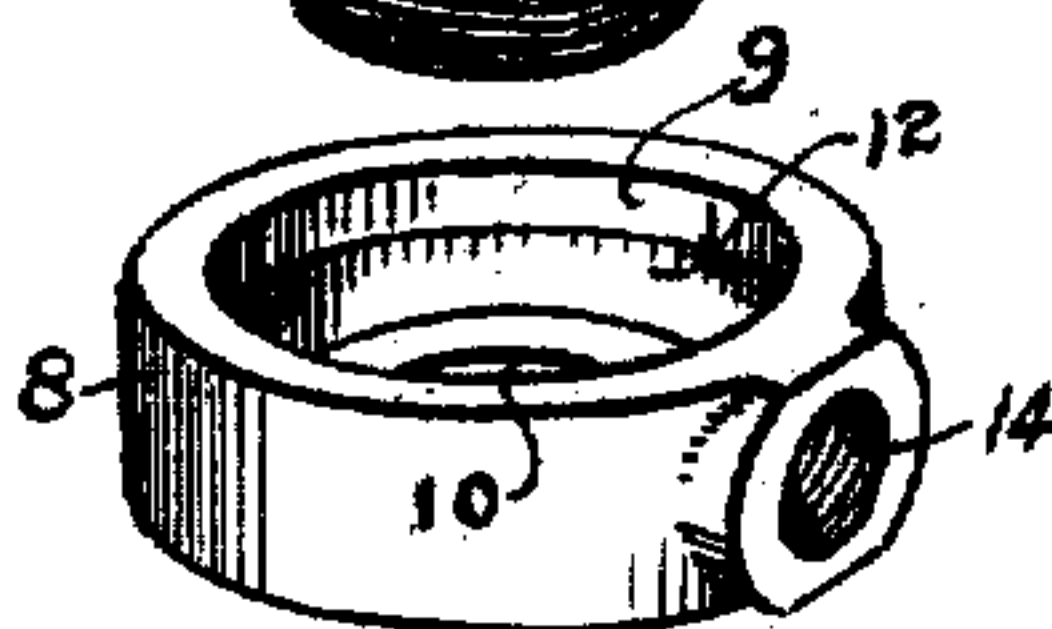
912,990.



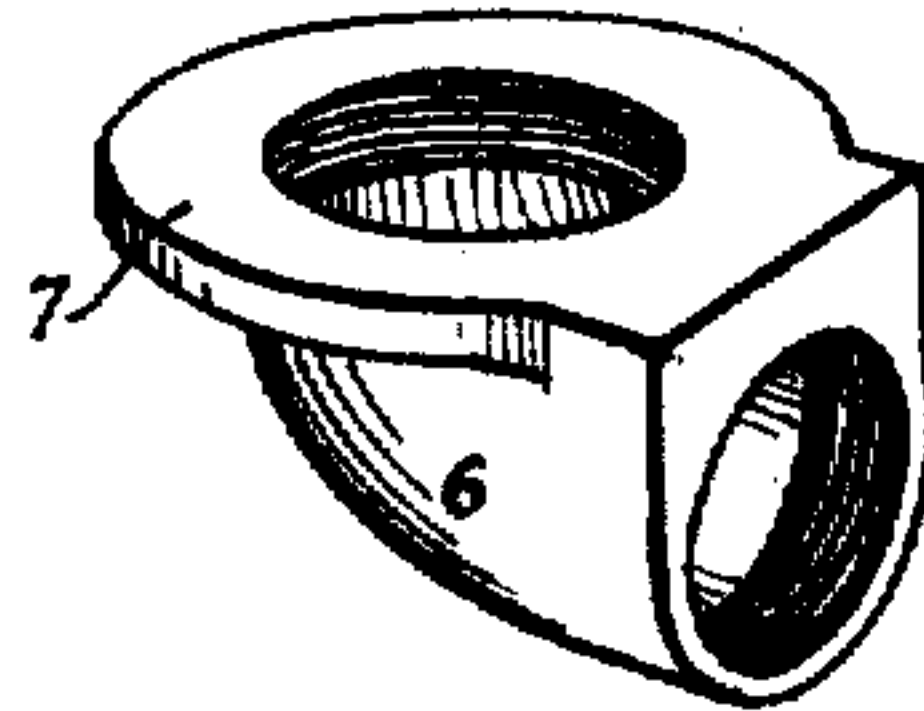
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



*Fig. 4.*

Witnesses

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# UNITED STATES PATENT OFFICE.

DENNIS C. CHARMOIS, OF CANTON, OHIO.

## SUPPLY AND WASTE FOR BATH-TUBS.

No. 912,990.

Specification of Letters Patent.

Patented Feb. 23, 1909.

Application filed December 26, 1908. Serial No. 469,270.

*To all whom it may concern:*

Be it known that I, DENNIS C. CHARMOIS, a citizen of the United States, residing at Canton, in the county of Stark and State of Ohio, have invented a new and useful Improved Supply and Waste for Bath-Tubs, of which the following is a specification.

The invention relates to a device for supplying water into and wasting it from a bath tub or other similar vessel; and the general object of the improvement is to introduce the supply through the mouth of the waste above the plug thereof, so that the tub can be filled when the waste pipe is closed by the plug without flushing or washing into the tub any of the dirt or sediment which may be deposited or accumulated in the waste pipe.

Bath tubs, wash stands, and other similar vessels, are usually made of marble, porcelain or some form of enameled ware, and many kind of water carry in solution or combination some elements or chemicals which discolor the bowl when the same is impinged by a continuous flow or intermittent dropping of water in the same place, as by the leakage from a defective or slightly open faucet. This difficulty is overcome by bringing the water supply into the tub through openings in the mouth of the waste pipe immediately below the flange thereof, but above the plug, as illustrated in the accompanying drawings, forming part hereof, in which—

Figure 1 is a fragmentary section of a bath tub showing the improved supply and waste device; Fig. 2, a detached perspective view of the waste pipe; Fig. 3, a detached perspective view of the supply collar; and Fig. 4, a detached perspective view of the waste elbow.

Similar numerals refer to similar parts throughout the drawings.

The bath tub 1 is provided with the aperture 2 in which is inserted the waste pipe 3. The waste pipe is provided with the flange 4 which is preferably countersunk in the tub as shown. The diameter of the tub aperture is somewhat larger than the external diameter of the pipe, so that the annular interval 5 is formed around the pipe. The elbow 6 or other suitable fitting, is secured as by screwing, on the lower end of the waste pipe, and between the flange 7 of the elbow and the lower side of the tub is

provided the supply collar 8; the inner diameter of the upper portion 9 of which collar is preferably the same as the diameter of the tub aperture, and as shown the inner diameter of the lower portion 10 may be flanged to fit the waste pipe; so that the annular supply chamber 11 is provided around the waste pipe between its flange above and the collar flange below, which chamber is preferably somewhat enlarged by providing the annular groove 12 in the collar. The supply pipe 13 is connected, as by screwing, into the aperture 14 which is provided in the wall of the supply collar, and the suitable valve 15 is provided in the supply pipe to control the flow of water therein. Suitable gaskets 16 and 17 are preferably provided between the supply collar and the tub above and the collar and the flange below.

The waste pipe is preferably tapered so as to form a suitable seat for the plug 18 which is adapted to be entered into the pipe a short distance below the upper end thereof, and one or more openings 19 are provided in the mouth of the waste pipe below the flange thereof and above the position of the plug when the same is seated, so that water flowing into the chamber from the supply pipe, is adapted to enter the tub through these openings and above the plug when the same is seated in the pipe; but when the plug is removed, any ordinary flow or leakage through the openings will drain directly into the waste pipe without coming into contact with any portion of the marble, porcelain or enamel of the tub, and therefore all discoloration of the same from this cause is avoided. At the same time, when the plug is seated, the tub can be filled with water without washing into it any dirt or other sediment which may be deposited or accumulated in the waste pipe below the plug. Furthermore, there are no protuberances in the tub to be struck by an occupant or to require special cleaning.

It is not intended to limit the scope of the invention to the specific devices herein set forth, for it is evident that the particular form and construction and arrangement of the parts illustrated and described are not essential to the general features of the invention thus embodied. And it is further more evident that the method of supplying the tub through openings located in the mouth of the waste pipe, can be employed

with substantially the same advantages, irrespective of whether the closure of the waste pipe is made by a plug as described herein.

What I claim as my invention, and desire  
5 to secure by Letters Patent, is—

1. A supply and waste for a bath tub and the like including a waste pipe with a plug adapted to be seated below the mouth thereof, a collar around the pipe with an inter-  
10 vening annular chamber, a supply pipe opening into the chamber, and one or more openings in the waste pipe above the plug and communicating with the chamber.

2. A supply and waste for a bath tub and the like including a waste pipe with a plug adapted to be seated below the mouth thereof, and having one or more supply openings therein above the plug. 15

3. A supply and waste for a bath tub and the like including a waste pipe having one or more supply openings in the mouth thereof. 20

DENNIS C. CHARMOIS.

Witnesses:

HARRY FREASE,  
JOSEPH FREASE.