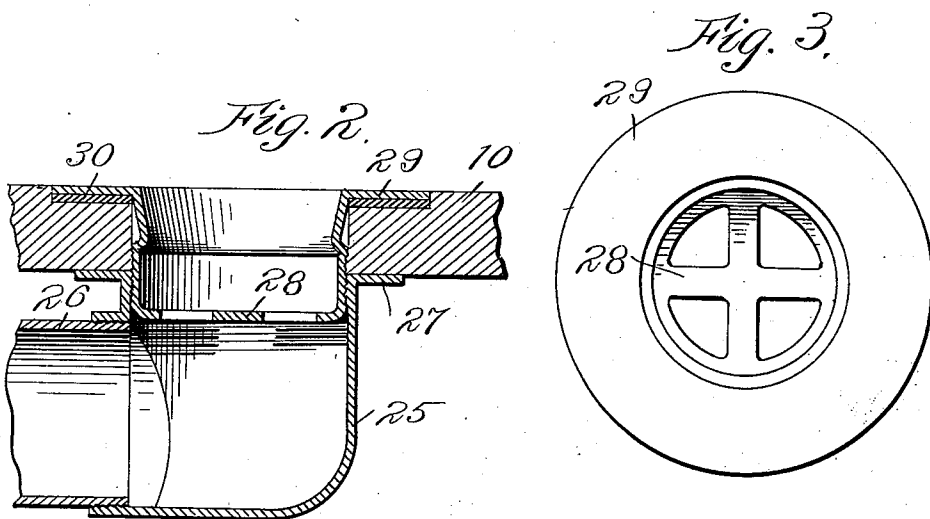
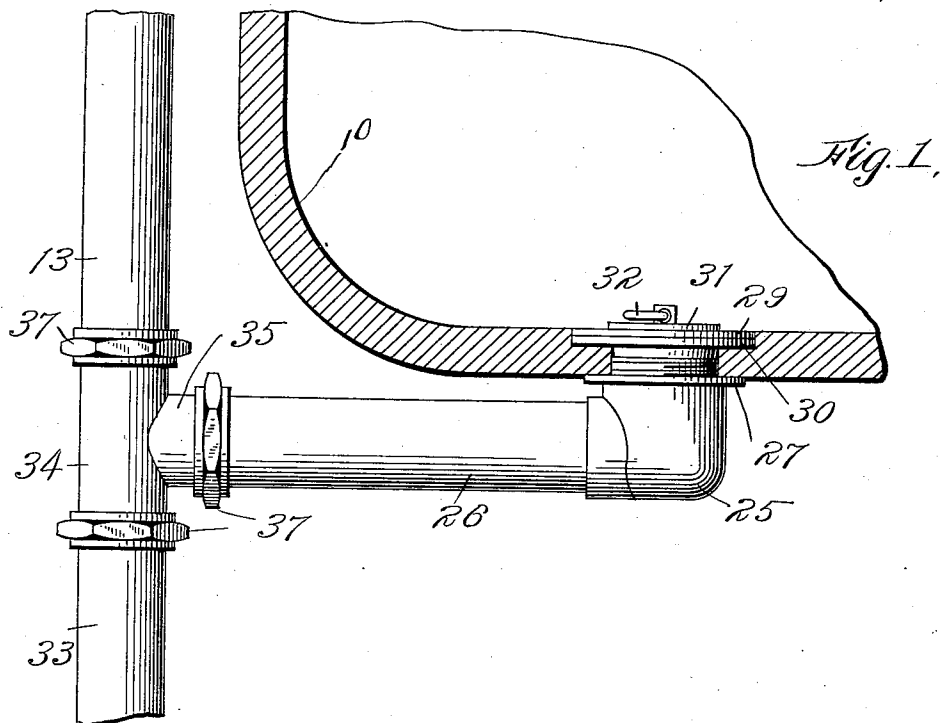


W. R. WILLETTS.  
WASTE FIXTURE.  
APPLICATION FILED JULY 11, 1911.

1,018,021.

Patented Feb. 20, 1912.



Witnesses:  
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Inventor:  
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By *Attorneys*

# UNITED STATES PATENT OFFICE.

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## WASTE-FIXTURE.

1,018,021.

Specification of Letters Patent.

Patented Feb. 20, 1912.

Original application filed January 3, 1910, Serial No. 536,203. Divided and this application filed July 11, 1911. Serial No. 637,949.

*To all whom it may concern:*

Be it known that I, WILLIAM R. WILLETTS, a citizen of the United States, residing at Waterbury, in the county of New Haven and State of Connecticut, have invented certain new and useful Improvements in Waste-Fixtures, of which the following is a specification.

The present application is a division of my prior application entitled Plumbing fixtures, filed January 3rd, 1910, Serial Number 536,203.

The invention forming the subject matter of this application resides in the construction of the waste fixtures wrought from sheet metal as distinguished from cast fixtures. Such fixtures are frequently employed in place of castings in open plumbing in connection with bath tubs, wash basins and other uses, where appearance and simplicity in construction are important features.

I have illustrated in the accompanying drawing an embodiment of the invention to which reference may be had in the specification.

In said drawing Figure 1 is an elevation showing the waste fixture attached and ready for use. Fig. 2 is a central vertical section through the same. Fig. 3 is a top plan view of the strainer member.

Referring now more specifically to said drawings, 10 indicates a section through the tub or other object to which the fixture is to be applied. The waste device comprises two main portions to which I shall refer as the L member and the strainer member, it being understood that the member referred to as the L member need not necessarily be of the exact form herein shown. The L member has a main body portion 25 provided with a threaded opening toward the rear or left hand side in the drawings to receive a section of tubing or pipe 26, and also has an annular rim flange 27 which bears against the outer surface of the tub or other object 10 to which it is to be secured. The body portion 25 of the L member is threaded on its interior surface near the top to receive the strainer member which comprises the cup-shaped main body portion 28, suitably perforated at the bottom to provide passageway for the water. The upper portion of the strainer member has an annular flange 29 which is adapted to fit

within the usual depression at the bottom 55 of the tub or other object 10 with a washer or packing 30 of rubber or other suitable material interposed. The upper portion of the cup-shaped part 28 is formed with the usual taper to receive stopper 31 provided with chain ring 32. The lower portion of the cup-shaped body portion 28 is provided with exterior threading to correspond with the threading in the top of L member 25, so that in attaching the waste fixture to the tub or other object, the strainer member is screwed into the L member and the parts thus drawn onto each other with the wall of the object to which they are to be secured between their respective rim flanges 27 and 29. Both the L member and the strainer member of the waste are preferably drawn from flat sheet metal blanks. The overflow pipe 13 and waste pipe 26 are preferably connected with the T connection 34, 35 and 37, as shown in Fig. 1, from which the common waste pipe 33 leads.

The construction of the T coupling shown in Fig. 1 does not form a part of my present invention and hence is not claimed herein, that element forming the subject matter of my U. S. application, filed May 15th, 1909, Serial No. 496,189, entitled "Pipe couplings."

What I claim is:

1. A waste comprising in combination a drawn sheet metal L member with interior threading and integral therewith, an annular rim flange, and a drawn sheet metal strainer member having a cup-shaped body portion provided with exterior threading and integral therewith an annular rim flange, said L member and said strainer member being adapted to be drawn toward each other by their threadings with the bottom of the object to which they are to be attached between their respective rim flanges and the fixture thus secured in place.
2. A waste comprising in combination a drawn sheet metal L member having a main body portion provided with interior threading and integral therewith an annular rim flange, and a drawn sheet metal strainer member having an exteriorly threaded cup-shaped body portion with a perforated bottom forming strainer bars integral with said body portion and an annular rim flange,

said strainer member and L member being adapted to be drawn toward each other by their threading with the bottom of the object to which they are to be attached between their respective rim flanges and the fixture thus secured in place.

3. A waste fixture comprising in combination a drawn sheet metal L member with an annular rim flange, a drawn sheet metal strainer member having a cup-shaped body portion with a rim flange, and means for drawing said L member and strainer member toward each other with the bottom of the object to which they are to be attached between their respective rim flanges and thus securing the fixture in place.

4. A waste fixture comprising in combination a drawn sheet metal L member with interior threading and an annular rim flange, and a drawn sheet metal strainer member having a cup-shaped body portion provided with exterior threading and a rim flange, said L member and strainer member being adapted to be drawn toward each other by their threadings with the bottom of the object to which they are to be attached between their respective rim flanges and the fixture thus secured in place.

5. A waste fixture comprising in combination a drawn sheet metal L member having

a main body portion with an annular rim flange, a drawn sheet metal strainer member having a cup-shaped body portion with a rim flange and a perforated bottom forming strainer bars integral with said body portion, and means for drawing said L member and strainer member toward each other with the bottom of the object to which they are to be attached between their respective rim flanges and thus securing the fixture in place.

6. A waste fixture comprising in combination a drawn sheet metal L member having a main body portion provided with interior threading and an annular rim flange, and a drawn sheet metal strainer member having an exteriorly threaded cup-shaped body portion with a rim flange and a perforated bottom forming strainer bars integral with said body portion, said strainer member and L member being adapted to be drawn toward each other by their threadings with the bottom of the object to which they are to be attached between their respective rim flanges and the fixture thus secured in place.

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