

A. BARROWS.

Improvement in Pipe Attachments in Plumbing.

No. 114,635.

Patented May 9, 1871.

Fig. 1.

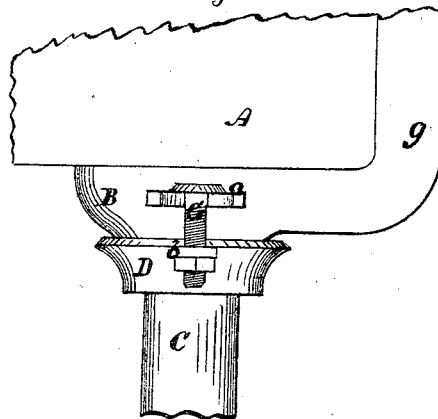


Fig. 2.

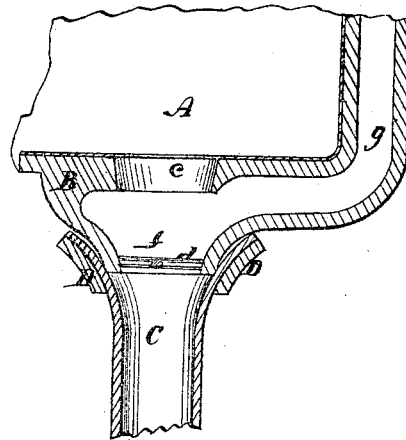
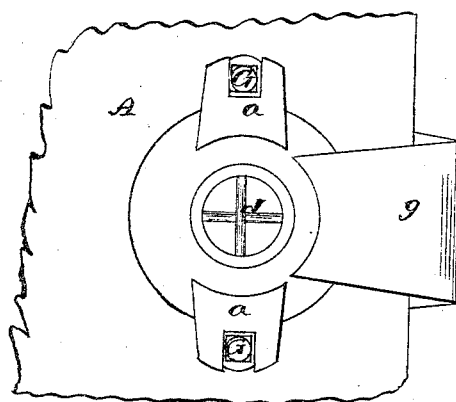


Fig. 3.



Witnesses,

D. J. Brown  
E. M. Year

Arad Barrows,  
By his attorney,  
J. S. Brown.

# United States Patent Office.

ARAD BARROWS, OF PHILADELPHIA, PENNSYLVANIA.

Letters Patent No. 114,635, dated May 9, 1871.

## IMPROVEMENT IN PIPE ATTACHMENTS IN PLUMBING.

The Schedule referred to in these Letters Patent and making part of the same.

### *To all whom it may concern:*

Be it known that I, ARAD BARROWS, of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented an Improved Coupling for Connecting Pipes to Plumbers' Ware; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawing making part of this specification—

Figure 1 being a side view of my improved coupling as applied to a cast-iron bath-tub;

Figure 2, a central vertical section of the same;

Figure 3, a bottom view thereof, the pipe and coupling-ring or collar being removed.

Like letters designate corresponding parts in all of the figures.

By the method of coupling pipe to plumbers' ware now in use the coupling-bolts are passed from the inside of the vessel through a washer-piece which surrounds the hole and fits in a depression, and thence out through the wall of the vessel, so that the heads of the bolts appear inside, and there are joints and seams to collect dirt; and, if the vessel is enameled, the enamel is liable to crack off, making the surface rough, unsightly, and subject to rust, and to hold impurities, as well as causing the vessel to leak.

My invention consists in casting or forming, upon the outside of a cavity or hollow projection on the outside of the bath-tub or other vessel of plumbers' ware, notched lugs to hold the heads of the coupling-bolts outside of the vessel, so as to avoid the perforation of the vessel for the purpose, and all irregularities and imperfections of the surface thereof inside.

This improvement is shown in the drawing, wherein—

A represents the wall of a bath-tub.

B, the hollow projection to which the waste-pipe C is coupled by means of a coupling-ring or collar, D.

Upon the outside of the hollow projection B are cast lugs *a a*, close up to the bottom of the tub, allowing room above them to admit the heads of the coupling-bolts G G, and where these lugs come thus closely opposite to the surface of the vessel they are notched to receive the body of the bolts, as shown.

The bolts extend down through ears or lugs *b b* on the coupling-collar D, and are tightened by nuts, as usual.

The inside of the bath-tub thus constructed is plane and smooth around the waste aperture *c*, so that, if the tub is enameled on the inside, as shown, the enamel is not liable to crack off around the aperture; nor is there any seam, irregularity, or depression to collect impurities, nor any possibility of leaking.

The strainer *d* may be either in the aperture *c* or in the outlet *f*, below the overflow-passage *g* of the tub, as shown in the drawing.

This improvement is equally applicable to enameled, tinned, galvanized, and plain bath-tubs, sinks, wash-stand tops, wash-basins, bedet-pans, urinals, water-closets, and similar plumbers' ware; and, though simple, is very useful and convenient.

Instead of the notches in the lugs *a a* perforations may be employed.

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

The hollow projection B on the outside of a bath-tub or other article of plumbers' ware, when provided with the notched lugs *a a* to receive the coupling-bolts G G for connecting pipes thereto, substantially as herein specified.

ARAD BARROWS.

Witnesses:

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