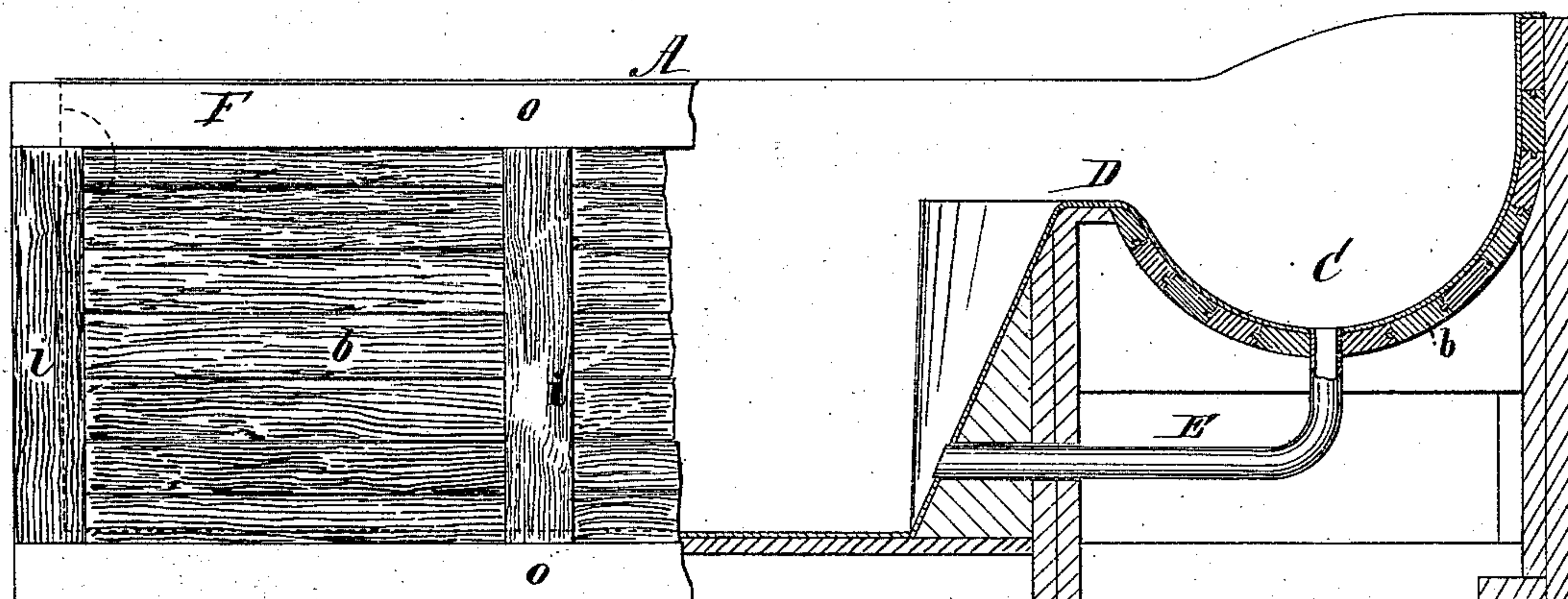


A. C. BROWNELL.  
Bath-Tubs.

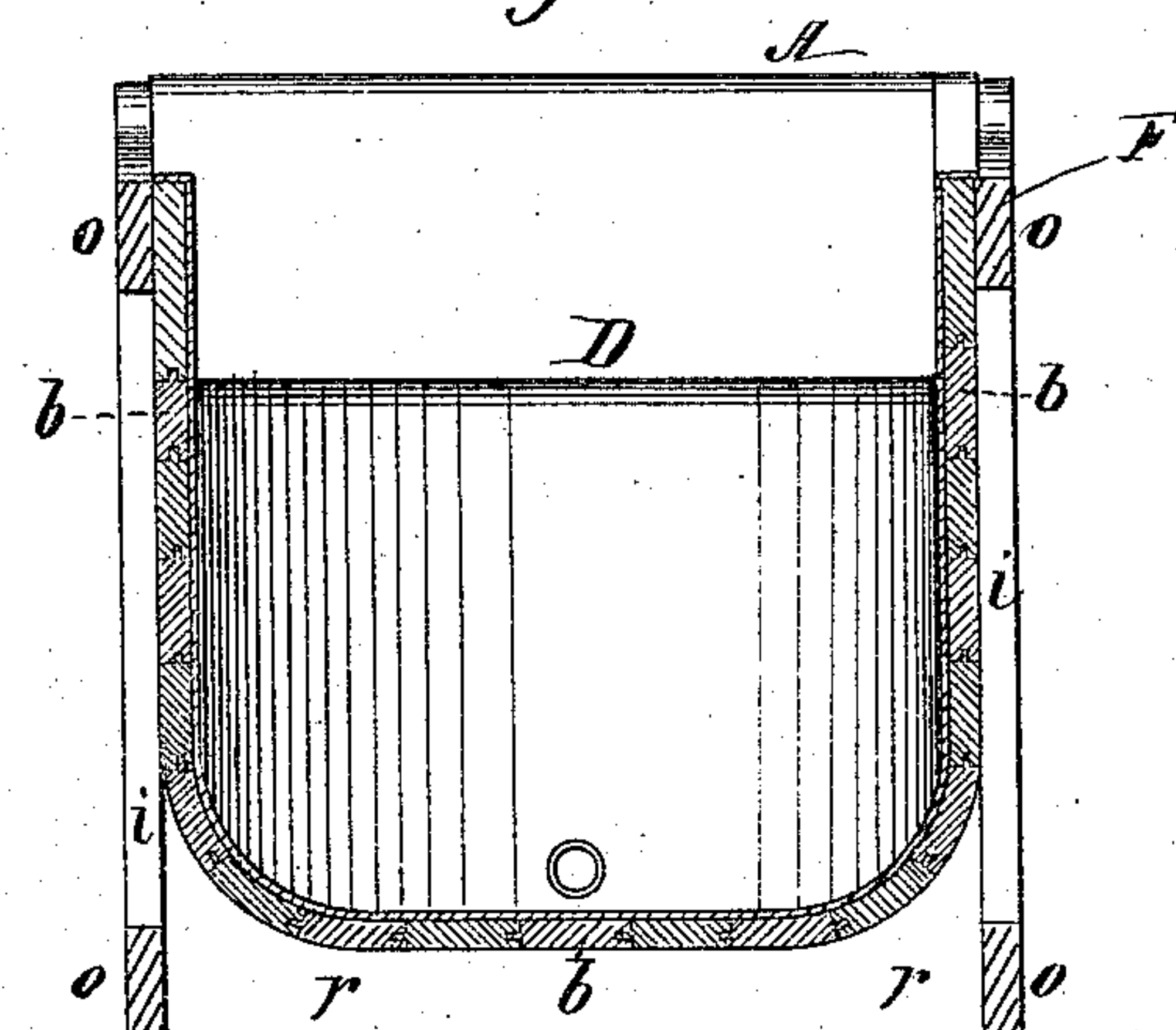
No. 154,642.

Patented Sept. 1, 1874.

*Fig. 1.*



*Fig. 2.*



Witnesses:  
*G. Matthews.*  
*John Keaton*

Inventor:  
*Asa C. Brownell*  
Per *Wm. B.*  
Attorneys.

# UNITED STATES PATENT OFFICE.

ASA C. BROWNELL, OF BROOKLYN, NEW YORK.

## IMPROVEMENT IN BATH-TUBS.

Specification forming part of Letters Patent No. **154,642**, dated September 1, 1874; application filed February 12, 1874.

*To all whom it may concern:*

Be it known that I, ASA C. BROWNELL, of Brooklyn, in the county of Kings and State of New York, have invented a new and useful Improvement in Bath-Tubs; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing, forming a part of this specification, in which—

Figure 1 is a partly-sectional elevation of my improved bath-tub; and Fig. 2, a cross-section of the same.

The invention relates to the combination of a frame of peculiar construction with the tub proper, which is formed of slats, as hereinafter described.

The partition or bridge D separates the plunge-bath from the sitz C, and the latter is arranged transversely, with a waste-pipe, E, leading into the plunge. The entire bottom and sides of the tub A are formed of a series of wooden slats, *b*, tongued and grooved together. The said bottom corresponds in form to the section of a hollow cylinder, while the sides are vertical.

The slats composing the tub are held together by a rectangular or skeleton frame, F, composed mainly of vertical and horizontal

bars *i* and *o*, mortised together. The bottom of the tub A rests on brackets *r*, cut out to the proper shape on the upper side. The slats which form the sides of the tub A are extended to form also the ends of the tub C, while the ends of the combined tub are formed of other suitable pieces. This combination of the slatted tub A and mortised frame F prevents "buckling" of the sheet-metal lining in consequence of shrinkage or warping, since although the slats shrink transversely, thereby forming spaces or grooves between them, the vertical bars of the frame do not shrink longitudinally, and hence the height of the tub remains the same, and the metal lining is kept stretched and smooth as at first.

The tub is also a lighter, stronger, and more durable structure than that ordinarily or heretofore employed.

What I claim is—

The combination of the slatted tub A and rectangular mortised frame F, composed of bars *i o*, supporting and confining the same, as specified.

ASA C. BROWNELL.

Witnesses:

SOLON C. KEMON,  
CHAS. A. PETTIT.