J. Tingley,

Tightening Band.

No. 81,843. Patented Sept. 1. 1868.

Fig. 2.

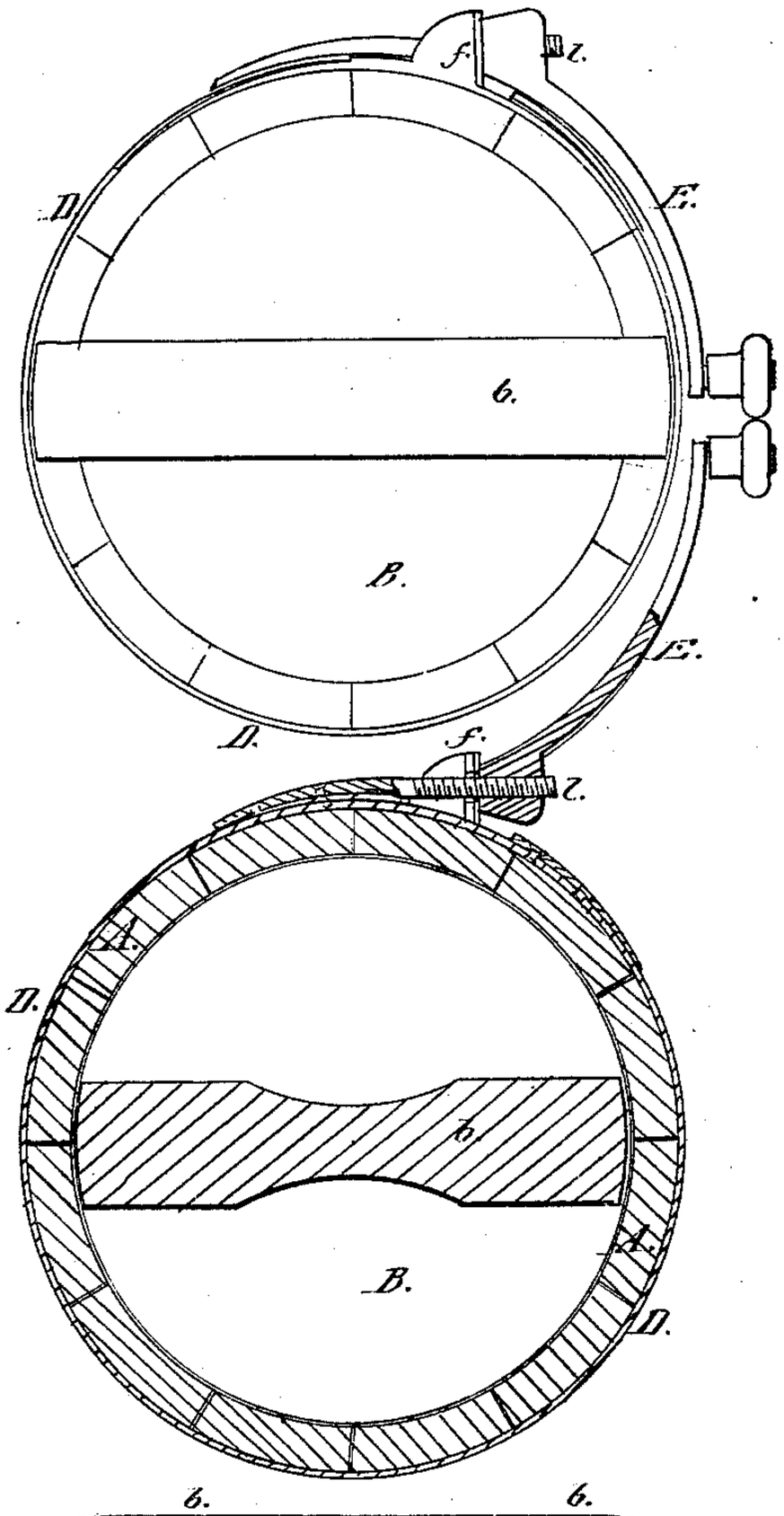
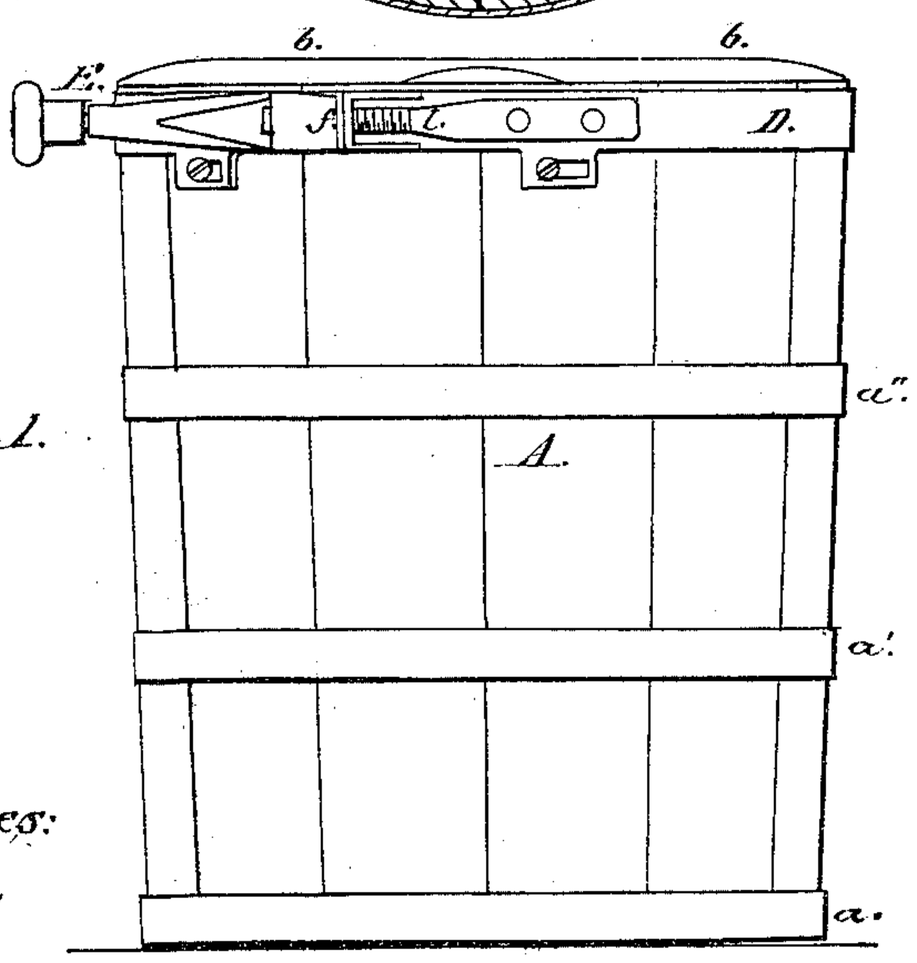


Fig. 3.

Fig. 1.



Witnesses:
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JOHN TINGLEY, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO HIMSELF AND SAMUEL L. DAVIS, OF CAMDEN, NEW JERSEY.

Letters Patent No. 81,843, *dated September* 1, 1868.

IMPROVEMENT IN TIGHTENING-BAND FOR VESSELS.

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, JOHN TINGLEY, of Philadelphia, Pennsylvania, have invented an Improved Contracting-Band for Vessels; and I do hereby declare the following to be a full, clear, and exact description of the same.

My invention consists of a tightening-band, constructed for application to a vessel in the peculiar manner fully described hereafter, so that it can be contracted in diameter when the cover of the vessel has to be secured, and permitted to expand when the cover has to be released.

My invention further consists in providing the said contractile band with a handled nut, arranged to conform, or nearly conform, to the shape of the vessel, as and for the purpose set forth hereafter.

In order to enable others familiar with apparatus of this class to make and apply my invention, I will now proceed to describe its construction and operation, reference being had to the accompanying drawing, which forms a part of this specification, and in which—

Figure 1 is a side view of a wooden vessel with my improved contractile band.

Figure 2, a side view of the same; and

Figure 3 a sectional plan on the line 1–2, fig. 1.

A is a vessel composed of staves secured by hoops *a*, *a'*, and *a''*, and having the usual bottom confined in grooves in the staves, by the lowest hoop, *a*.

The highest permanent hoop, *a''*, is arranged at such a distance from the upper edge of the vessel that the staves can there separate and the vessel expand to a limited extent, when not confined in the manner described hereafter.

B is a circular cover, arranged to fit freely within the top of the vessel, (when the latter is not confined,) and maintained in its proper vertical position by a cross-bar, *b*, which rests on the edge of the vessel.

D is a metal band, which is secured to the exterior of the vessel, near its upper edge, by pins, which pass through slots in the band, or in projections on the same, so that the band can slide on the pins when the staves are drawn together or permitted to expand. One end of the band is secured to a plate, G, through a projection, *f*, on which passes a screw, *m*, at the opposite end of the band, the plate which is curved to fit the side of the vessel being cast in one piece with the projection *f*, so as to be readily secured to a strip of ordinary band-iron. The screw-rod is provided with a nut, on tightening which the band will be contracted and the staves bound rigidly to the cover B, the latter being set at liberty, however, when the nut is loosened and the band and staves permitted to expand.

A handle, which forms a part of the nut E, is so curved as to conform to the shape of the vessel, adjacent to the side of which it occupies the position shown in fig. 2, where it is out of the way, but always ready for use when the cover has to be removed and replaced.

My improved tightening-band may be applied to a variety of vessels, such, for instance, as chests for storing clothing, washing-machines, churns, or ice-cream freezers, or other vessels requiring tightly-fitting covers which have to be repeatedly removed and replaced.

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

1. The plate G, of a shape to fit the side of the vessel, having a projection, *f*, and secured to one end of a band, a screw-rod at the other end of which passes through the projection *f*, as and for the purpose described.

2. The said band, with screw-rod at one end and projection at the other, in combination with a handled nut, E, arranged to conform, or nearly conform, to the shape of the vessel to which the band is applied, as set forth.

3. The slots *m* in the band D, for the purpose specified.

In testimony whereof, I have signed my name to this specification in the presence of two subscribing witnesses.

JOHN TINGLEY.

Witnesses:

JOHN WHITE,

C. B. PRICE.