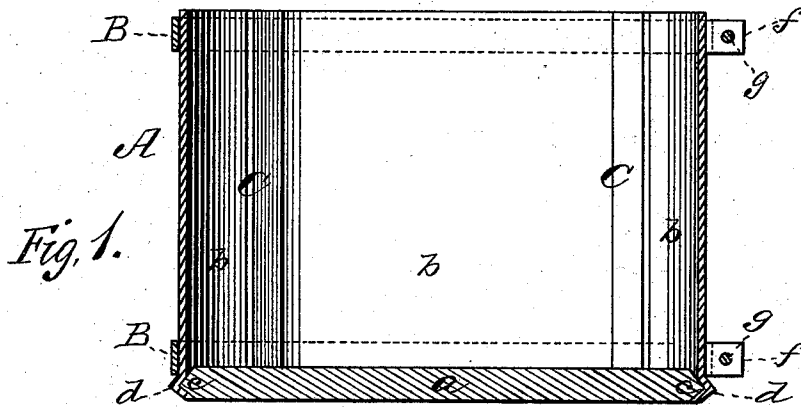
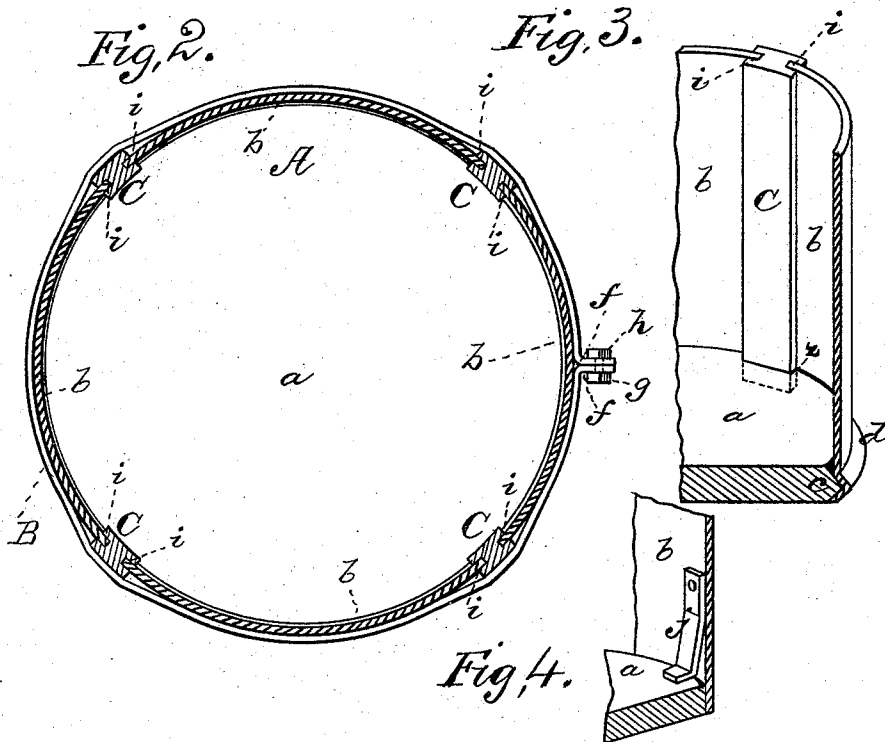


W. & G. KOCH.
Oil-Tank.

No. 211,241.

Patented Jan. 7, 1879.



WITNESSES
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WILLIAM KOCH AND GEORGE KOCH, OF MONROE, PENNSYLVANIA.

IMPROVEMENT IN OIL-TANKS.

Specification forming part of Letters Patent No. **211,241**, dated January 7, 1879; application filed September 14, 1878.

To all whom it may concern:

Be it known that we, WILLIAM KOCH and GEORGE KOCH, of Monroe, in the county of Clarion and State of Pennsylvania, have invented a new and valuable Improvement in Oil-Tanks; and we do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a vertical central section of our improved oil-tank. Fig. 2 is a horizontal section of the same. Fig. 3 is a sectional perspective detail, and Fig. 4 is a modification of the mode of attaching the stave-sections and bottom.

The nature of the invention consists in the construction and novel arrangement of an oil-tank, having the marginally-notched wooden bottom and the metallic stave-sections, clamped around said wooden bottom by bands, said sections being united at their adjacent vertical edges by vertical coupling-plates bearing in the notches in said wooden bottom, and having edge-grooves to receive the said vertical edges of the stave-sections, as hereinafter shown and described.

In the accompanying drawings, the letter A designates our improved oil-tank, composed of two or more metallic staves, *b*, and the wooden bottom *a*, marginally notched at *z*, composed of wooden sections, united together in any suitable manner.

The perimetral edge of this bottom is double-beveled, as shown at *c*, and the lower edge of the stave-sections is swaged into a V-shaped channel, *d*, fitting snugly over the double-beveled edge *e* of the bottom, as shown in Fig. 1. The sections *b* aforesaid are formed of sheet-iron, of suitable rigidity and strength. These sections are clamped together around the bottom by means of the hoops B, the ends of which are turned outward and formed into flanged eyes *f*. Through these eyes are passed the headed bolts *g*, which are caused to clamp the hoops tightly around the barrel of the tank by means of a nut, *h*, applied on the projecting screw-threaded ends of the said screws, and tightly set up.

The vertical edges of the sections *a* fit snugly in grooves *i* in the edges of a coupling-plate, C, which is preferably metallic, and are prevented from escaping therefrom by the clamping-hoops aforesaid.

The joints of the sections with the bottom and the coupling-plates C may be made tight by calking them with oakum; or a cement may be used for the same purpose.

Sometimes the edge of the bottom may be vertically rectilinear, as shown in Fig. 4, in which case the said bottom will be received inside of the staves, and the latter clamped upon it by the hoops aforesaid. In this case the bottom is prevented from being pushed up into the body of the tank by means of the legs *j*, riveted at their upper ends to the staves, and bearing at their lower ends against the bottom. Sometimes, also, the coupling-plates may be dispensed with, and the joint formed by turning the contiguous edges of the sections inward at an acute angle to their body, thus forming inside of the tank a V-shaped space, designed to receive an oakum packing or a cement filling.

A sectional tank capable of being taken apart, and made of iron sectional staves and a wooden bottom, is not herein broadly claimed, such a tank being shown and described in our Letters Patent No. 206,581, dated July 30, 1878.

What we claim as new, and desire to secure by Letters Patent, is—

The storing-tank for oil, consisting of the wooden bottom *a*, marginally notched at *z*, and the metallic stave-sections *b*, clamped around said wooden bottom by bands B, said sections being united at their adjacent vertical edges by vertical coupling-plates C, bearing in the notches in said wooden bottom, and having edge-grooves *i* to receive the said vertical edges of the stave-sections, substantially as specified.

In testimony that we claim the above we have hereunto subscribed our names in the presence of two witnesses.

WILLIAM KOCH.
GEORGE KOCH.

Witnesses:

H. J. HAMMOND,
C. H. KOCH.