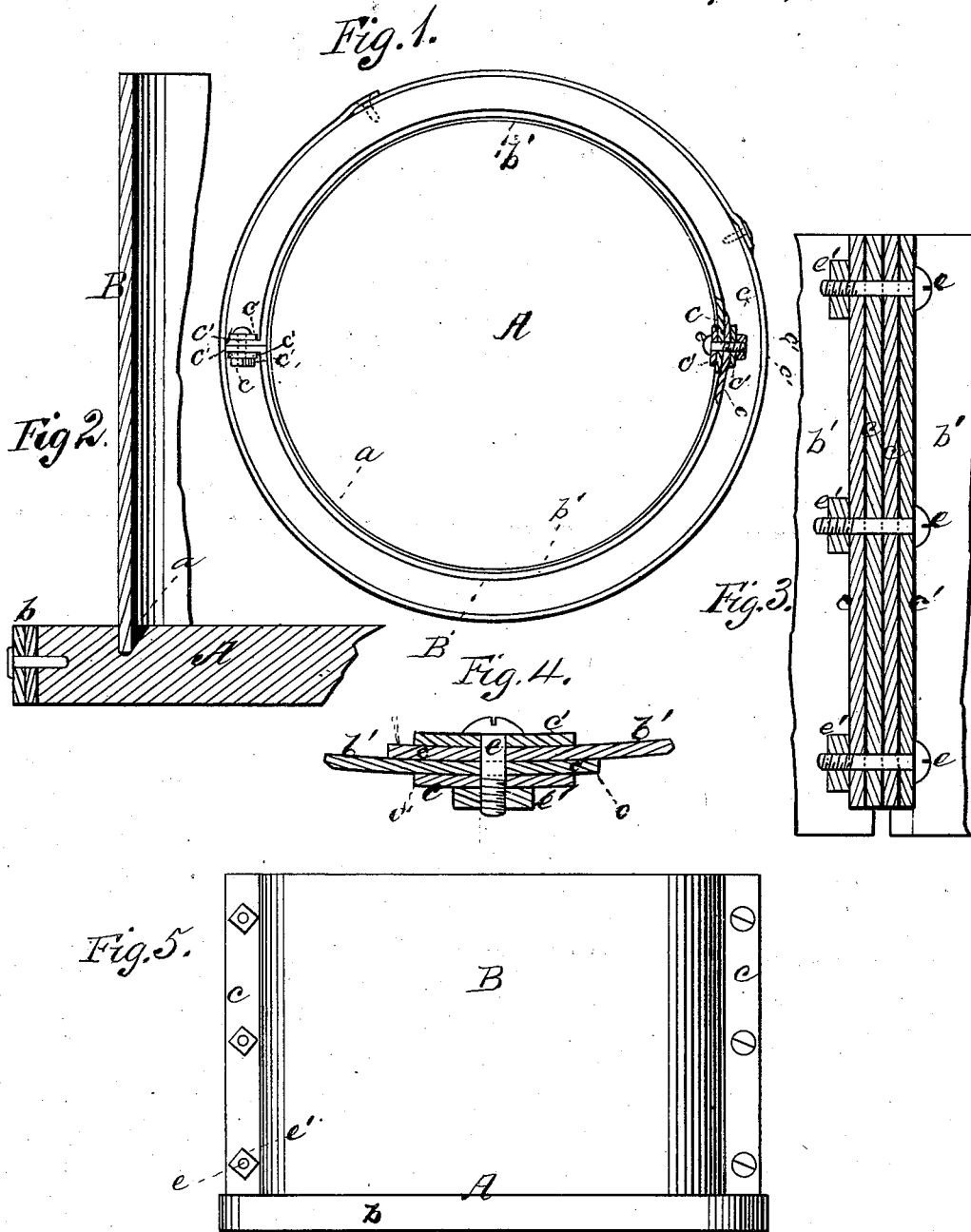


W. & G. KOCH.
Oil-Tank.

No. 206,581.

Patented July 30, 1878.



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

IMPROVEMENT IN OIL-TANKS.

Specification forming part of Letters Patent No. **206,581**, dated July 30, 1878; application filed May 4, 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 top view of my improved tank. Fig. 2 is a vertical section thereof. Figs. 3 and 4 are sectional views of the joint, and Fig. 5 is a side view of the tank.

This invention has for its object to devise a tank for storing oil at the wells, that may be readily taken apart when they are exhausted, transported in a knocked-down condition to another place, and readily and expeditiously set up in proper state to receive the oil.

The nature of the invention consists in an oil-tank composed of a bottom and two or more metallic stave-sections detachably secured thereto and to each other, as will be hereinafter more fully set forth.

In the annexed drawings, the letter A designates the bottom of my improved tank, composed of wooden sections united together in any suitable manner, and prevented from casual separation from each other by a strong metallic hoop, *b*. This latter may be shrunk on after the manner of a tire, or applied tightly thereto by means of a clamping device. This bottom is provided with an annular V-shaped groove, *a*, near its edge, in which the lower end of the barrel of the tank is seated. This barrel B is composed of two or more sections, *b'*, having upon their edges the outwardly-bent flanges *c*, and they are coupled together by means of the clamp-plates *c'* at each side of said flanges and the clamp-bolts and nuts *e e'*, as shown in Fig. 3; or, as in Fig. 4, they may overlap each other, and be coupled together by means of the clamp-plates *c'*, (one inside

and the other outside of the tank,) the clamp-bolts *e*, and nuts *e'*, as before. In either case a packing may be inserted between the flanges or lapped portion of the stave-sections to render them air-tight; or the same result may be attained by calking the seam with oakum.

When the barrel is seated on the bottom with its lower edge in the V-shaped groove *a*, it is made to form a tight joint therewith by means of oakum forced into said groove inside of the tank; or the joint may be made secure by applying plaster-of-paris or other cement in said groove.

Heretofore the tanks for oil-wells have been made of wood, both sides and bottom put together after the manner of a cask. Coal-oil causes the wood to shrink, and thereby renders the tank leaky, so that the staves have constantly to be reset. When these wooden tanks are taken to pieces for removal it is exceedingly difficult to set them up again so as to prevent leakage.

Metal tanks have been used with their parts riveted together; but from the labor required to cut the rivets, and the impossibility of again putting the parts together so as not to leak, not to mention the cost of skilled labor, they have not been made in detachable sections, but only as permanent constructions, and then only at the shipping-depots.

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

In a storing-tank for oil-wells, the combination of the bottom A, having the hoop *b* and an annular groove, *a*, in its plane surface for the reception of the barrel B, provided with sections *b'*, having joined edges *c*, the clamp-plates *c'*, and bolts *e e'*, substantially as specified.

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

WM. KOCH.
GEORGE KOCH.

Witnesses:

H. J. HAMMOND,
WM. W. WAMPLER.