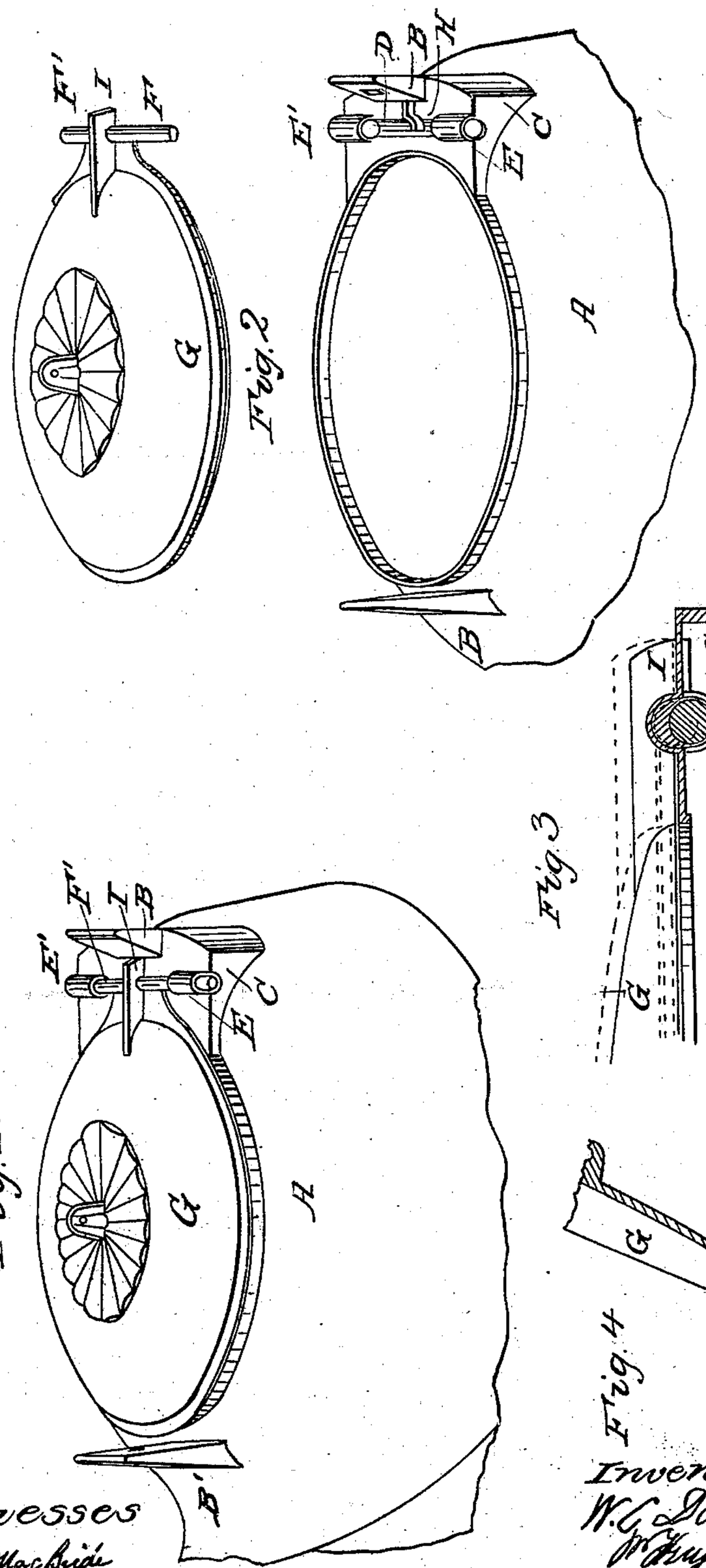
W. C. DAVIS.

Tea Kettle.

No. 39,554. Patented Aug. 18, 1863.



Witnesses

Thos. F. MacBride

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UNITED STATES PATENT OFFICE.

WILLIAM C. DAVIS, OF CINCINNATI, OHIO.

IMPROVEMENT IN TEA-KETTLES.

Specification forming part of Letters Patent No. **39,554**, dated August 18, 1863.

To all whom it may concern:

Be it known that I, WM. C. DAVIS, of Cincinnati, Hamilton county, Ohio, have invented a new and useful Improvement in Tea-Kettles and other Covered Hollow Ware; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the annexed drawings, making part of this specification.

My invention has for its object a simple and effective form of hinged cover or lid for tea-kettles and other cast hollow ware, which may be completed in the acts of molding and casting, and, although easily attached and detached, be perfectly secure against accidental displacement.

Figure 1 represents the upper portion of a kettle embodying my invention, the cover being represented in place and in the closed position. Fig. 2 represents the same parts with the cover detached. Fig. 3 is a vertical section of the hinge to illustrate the mode of attaching and detaching the cover. Fig. 4 is a vertical section to illustrate the open position of the cover.

A represents the upper part of a cast kettle-body. B B′ are the bail-ears. The body A is boxed out at C. The upper part of the boxing C has the represented socket D E E′ for the reception of the pintle F F′, which forms a part of the cover G. The socket D E E′ is cylindroidal, the major diameter being vertical, or, in other words, is formed ovaling, to enable the shipping and unshipping of the cover, as presently explained.

H is an aperture in the boxing to receive a tongue, I, which projects from the cover.

Construction: With the exception of the bail, the kettle consists of but two very simple and easily-molded castings, whose manufacture requires no specific directions. A cover and a body having been taken indifferently from the heap, the pintle F F′ of the cover is inserted in the socket D E E by presenting the cover horizontally and entering first the longer and then the shorter end of the pintle in their appropriate places. (See red lines, Fig. 3.) The cover, being now released, drops of its own weight to its place. (See black lines, Fig. 3.)

Operation: It will be seen that the cover in its closed position is preserved from dislodgment both by the tongue I and the rim J of the cover. (See black lines, Fig. 3.) Let now the kettle be tipped or even inverted. It will be apparent that the cover, by falling open, will have its tongue I more fully entered within the aperture H, and consequently that the tongue I and pintle F F′ will act in conjunction to hold the cover on. The cover can be unshipped only by reversing the order of manipulations described for its attachment, and that order cannot possibly take place by accident, because the cover can open of its own weight only by vibrating upon its hinge.

I claim herein as new and of my invention—

The mode of hinging the covers of tea-kettles and other cast hollow ware, consisting of the oval socket D E E′, pintle F F′, tongue I, and aperture H, or their equivalents, the whole being combined and operating as set forth.

In testimony of which invention I hereunto set my hand.

WILLIAM C. DAVIS.

Witnesses:

GEO. H. KNIGHT,

CHARLES L. FISHER.