(No Model.)

S. J. & N. T. WILSON.

COVER FOR VESSELS.

No. 286,755. Patented Oct. 16, 1883.

Fig. 1

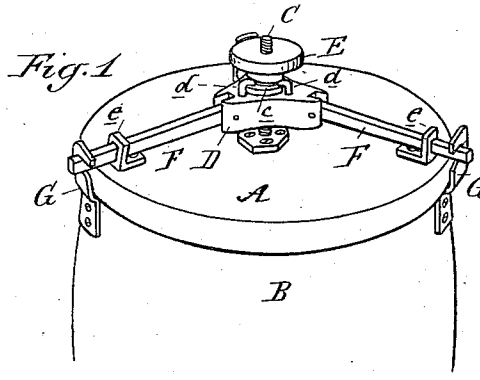
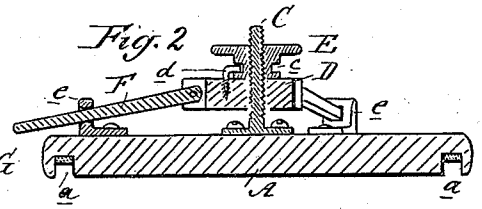


Fig. 2



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Inventors:
Samuel J. Wilson & Nahum T. Wilson
by their Atty Thos. A. Spragues

N. PETERS. Photo-Lithographer. Washington, D. C.

UNITED STATES PATENT OFFICE.

SAMUEL J. WILSON AND NAHUM T. WILSON, OF ROGERSVILLE, MICHIGAN.

COVER FOR VESSELS.

SPECIFICATION forming part of Letters Patent No. 286,755, dated October 16, 1883.

Application filed June 16, 1883. (No model.)

To all whom it may concern:

Be it known that we, SAMUEL J. WILSON and NAHUM T. WILSON, of Rogersville, in the county of Genesee and State of Michigan, have invented new and useful Improvements in Covers for Vessels; and we do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to certain new and useful improvements in the construction of covers for hollow vessels and the means employed for securing such covers to place.

The invention consists in the peculiar construction and application of expansion locking-arms, the outer ends of which engage with hooks or bails upon the vessel to which it is to be secured, all as more fully hereinafter set forth.

Figure 1 is a perspective view, showing our device as secured to and forming one head of a barrel. Fig. 2 is a cross-section of the head removed.

In the accompanying drawings, A represents a head or cover, which is provided with an annular channel, *a*, upon its under face, such channel being designed to receive any suitable packing, and which, when the device is in use, rests upon the chine of the barrel B, intended to be covered.

C represents a threaded standard, rising from the center of the cover A, and to which it is rigidly secured.

D represents a triangular-shaped follower, which is sleeved upon the standard C. This follower is connected to the threaded thumb-nut E by hooks *d*, which engage with the annular channel *c* of the nut E, or in any such manner that the follower may be raised or lowered upon the standard by turning the nut, as desired. In the three arms of the follower D are pivotally secured the inner ends of the locking arms or levers F, the outer ends of which pass through guide-loops *e* near the edge of the head.

In practice the barrel is provided with hook-ears G, or other suitable devices, which project beyond the end of the barrel. The head is placed over the end of the barrel, the chine entering the channel *a*, while the ends of the arms F engage with the hooks G. By then turning the nut E the follower D is depressed, causing the arms F to more firmly engage with the hooks, and the edge of the cover, acting as the fulcrum, compels such arms to act as levers in connection with the hook-ears, and crowd the head firmly upon the chine of the barrel, making a perfectly tight joint.

While we have described our device as applied to a barrel, we do not desire to confine ourselves thereto, as it is evident that there are many vessels of varying shape to which it may be advantageously applied, and that it can be employed successfully in securing man-hole and other covers to their positions.

It is also evident that but two locking-arms may be employed without departing from the spirit of our invention, and that the annular channel in the under face of the head may be dispensed with in many instances.

We are aware of Patents Nos. 277,001 and 211,980, and make no claim to the construction shown therein.

What we claim as our invention is—

The cover for vessels herein described, consisting of the head A, having annular channel *a* and the threaded standard C, the follower D, sleeved upon said standard and carrying two or more locking arms or levers, F, adapted to engage with suitable stops upon the barrel, the guide-loops *e*, and the thumb-nut E, having flange *c*, and connected to the follower D by hooks *d*, which engage with said flange, whereby the follower may be raised or lowered by turning said nut, substantially as described.

SAMUEL J. WILSON.
NAHUM T. WILSON.

Witnesses:
A. G. BISHOP,
JNO. H. WILDER.