(No Model.)

W. DAMEREL.

TOOL FOR APPLYING FASTENINGS TO SECURE COVERS TO VESSELS.

No. 306,226. Patented Oct. 7, 1884.

Fig. 1.

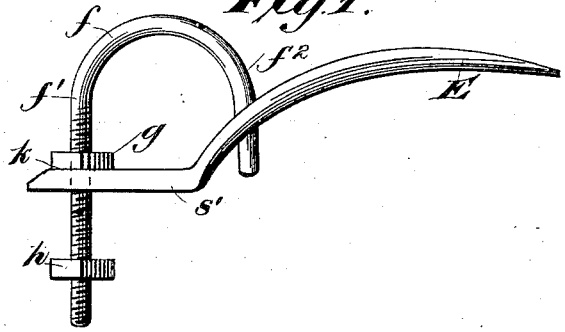


Fig. 2.

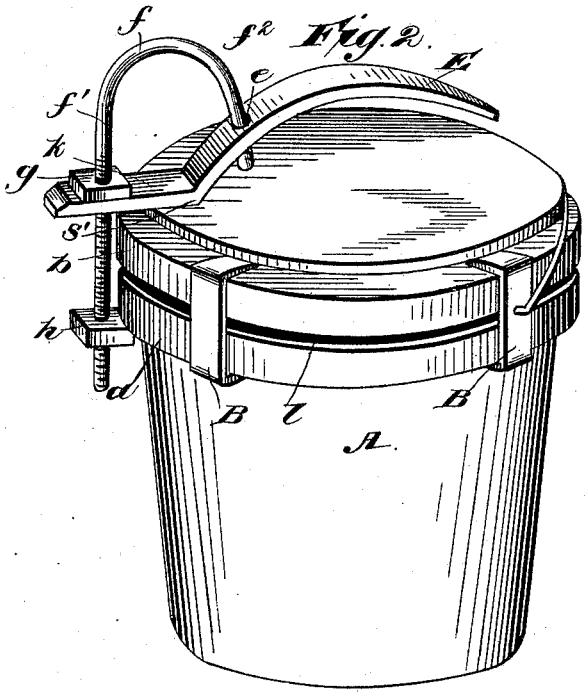
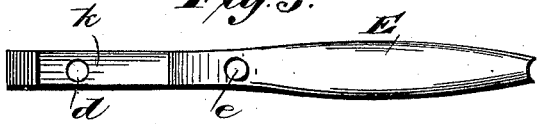


Fig. 3.



Witnesses:
Charles S. Hyer
Robert Everett

Inventor:
William Dameral
By Van Santvoord & Hauff
Attys

UNITED STATES PATENT OFFICE.

WILLIAM DAMEREL, OF BROOKLYN, NEW YORK.

TOOL FOR APPLYING FASTENINGS TO SECURE COVERS TO VESSELS.

SPECIFICATION forming part of Letters Patent No. 306,226, dated October 7, 1884.

Application filed February 8, 1884. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM DAMEREL, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Tools for Applying Fastenings to Secure Covers to Vessels, of which the following is a specification, reference being had to the accompanying drawings, in which—

Figure 1 is a side view of the tool, and Fig. 2 a perspective of a tub showing the manner of applying the tool. Fig. 3 is a plan of the rear end of the lever-handle.

My invention has for its object to provide means for compressing a cover upon an elastic gasket supported upon the vessel, so as to permit the application of fastenings or clamps to hold the cover to the vessel, the clamps or fastenings being held to the cover by the expansive power of the elastic gasket after the removal of the compressing-tool; and it consists in a lever combined with a curved rod screw-threaded and provided with adjustable nuts, as hereinafter particularly specified in the claims.

In the drawings, the lever is represented as composed of a handle, E, which may be cast in one piece, of a length sufficient to give suitable leverage power, and formed with a face, *k*, which has a bearing width preferably of not less than one and a quarter inches, the juncture of the handle and face forming a heel, *j*. The arm or handle is perforated, as at *e*, and the face perforated or slotted, as at *d*. A rod, *f*, made of brass, steel, or iron wire, preferably of not less than No. 4 wire-gage, is curved, as shown, so as to form two arms, f' f^2, the arm f' being screw-threaded and passed through perforation *d* in the face *k*, and the arm f^2 passed through the perforation *e* in the handle. These arms fit loosely in the perforations, so as to move freely therein, and to the arm f' there is applied a nut, *g*, above the face *k*, and another nut, *h*, below the face. The extreme rear end, G, of the handle is preferably made wedge or chisel shaped for use in prying apart the vessel and cover in case the rubber should become adhesive.

To illustrate the manner of operating the tool, it will be assumed that the vessel A has a flange, *a*, projecting therefrom at its upper end, and that the cover C has a flange, *b*, projecting laterally from it, and that a rubber or other elastic gasket, *l*, is interposed between the two flanges. The face of the lever will now be rested on the top of the cover and the nut *h* brought to bear against the under side of the flange *a* of the vessel, as indicated in Fig. 1 of the drawings. Now, by pressing upon the rear end, G, of the handle E the heel *j* of the lever will bear down upon the cover and the gasket be compressed between the two flanges by pressure from above and below, as is obvious. A fastening or clamp, B, having bent ends, can now be applied, so as to bring its ends against the upper and lower faces of the flanges *a* and *b*, respectively, and as soon as the tool is detached by now slipping it from off the vessel and cover, the elastic gasket will expand, so as to bind the clamp to the flanges, and the clamp will thus hold the cover and vessel together.

The tool is applied at as many points as it is desired to place the clamps, and can be quickly applied and detached. The arm f^2 strengthens the connections between the curved rod and the handle, and may be made long enough to bear against the cover back of the heel of the lever, so as to exert a pressure there sufficient to prevent the cover from tilting when compressing the rubber gasket prior to applying the clamp.

Having thus described my invention, what I claim is—

1. The combination of the lever formed with the handle and perforated face, the screw-threaded rod passed through the opening in the face of the lever, and the nuts applied to the threaded part of the rod above and below the face of the lever, substantially as described.

2. The combination of the lever formed with the perforated handle and perforated face, the rod curved to form two arms, one of which is screw-threaded, and both passed through the openings in the lever, and the nuts applied to the threaded end of the rod above and below the face of the lever, substantially as described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 6th day of February, 1884.

WILLIAM DAMEREL.

Witnesses:

JNO. O. GOODENOUGH,

GEORGE DAMEREL.