

W. JOHNSON.

Wrench.

No. 133,536.

Patented Dec. 3, 1872.

Fig. 1.

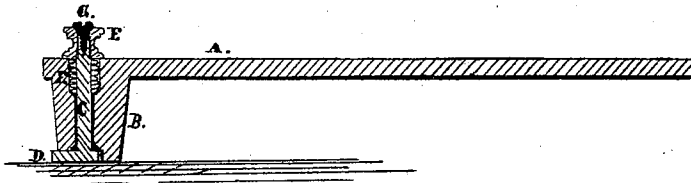
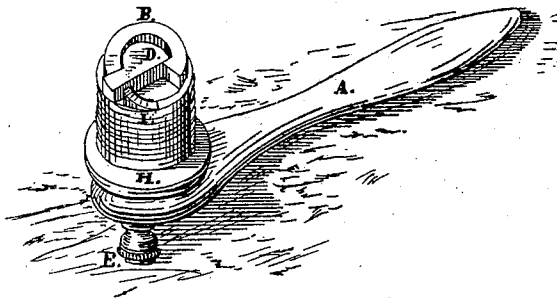


Fig. 2.



Witnesses:

J. B. Smith
E. J. Smith,

Inventor

William Johnson

UNITED STATES PATENT OFFICE.

WILLIAM JOHNSON, OF MILWAUKEE, WISCONSIN.

IMPROVEMENT IN WRENCHES.

Specification forming part of Letters Patent No. 133,536, dated December 3, 1872.

To all whom it may concern:

Be it known that I, WILLIAM JOHNSON, of Milwaukee, in the county of Milwaukee and in the State of Wisconsin, have invented certain Improvements in Wrench, of which the following is a specification:

Nature and Object of the Invention.

My invention is a wrench to screw bung-bushings into beer-barrels, and fits into the opening and strikes against a projection on the bushing at the inner end of the bush, thus preserving the whole strength of the bushing. The notch on the outer side of the bushing, which weakens it, is avoided.

Description of the Drawing forming part of this Specification.

Figure 1 is a sectional view of the wrench; Fig. 2, a perspective view of the wrench and bushing.

General Description.

A is the handle of the wrench; B, the projection which fits into the inside of the bushing; C, a rod which runs down through the

projection B in a hole nearer one side than the other; D, a piece on the end of the rod C which fits into a recess in the bottom of B; E, a knob on the top of rod C; F, spring on rod C, under knob E, which holds the rod C up in place; G, a screw in the top of rod C which holds knob E on securely in place; H, the bush; I, the projection on the bottom of the bushing which the part of the wrench D strikes against to screw the bushing into place.

The operation of this wrench is as follows: The part B is placed in the bush, and the operator then takes hold of the knob E and turns it, and as it turns the part D at the bottom is turned out and catches against the projection I in the bushing, and then the handle A and the bush will turn with it and be screwed home.

Claim.

The combination and arrangement of projection B, rod C, piece D, and knob E, substantially as and for the purpose set forth.

WILLIAM JOHNSON.

Witnesses:

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