

(No Model.)

M. J. FLANDERS.

WRENCH.

No. 342,197.

Patented May 18, 1886.

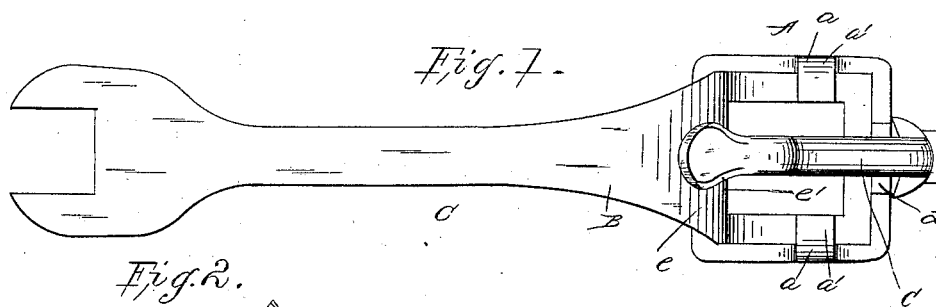


Fig. 2.

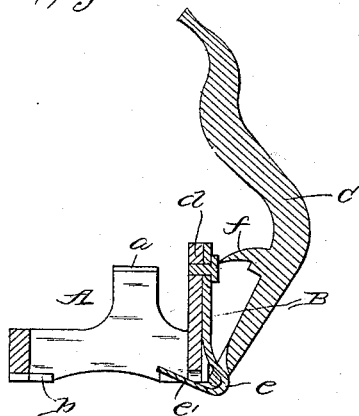
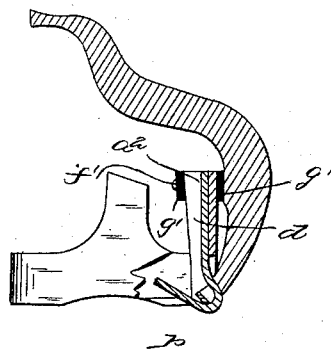


Fig. 3.



Witnesses:

Howard Schneider.
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UNITED STATES PATENT OFFICE.

MOSES J. FLANDERS, OF ILION, NEW YORK, ASSIGNOR OF ONE-HALF TO
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WRENCH.

SPECIFICATION forming part of Letters Patent No. 342,197, dated May 18, 1886.

Application filed April 8, 1886. Serial No. 198,295. (No model.)

To all whom it may concern:

Be it known that I, MOSES J. FLANDERS, a citizen of the United States of America, residing at Ilion, in the county of Herkimer and State of New York, have invented certain new and useful Improvements in Wrenches, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention pertains to improvements in nut-holding appliances for wrenches, having for its object to permit of the ready insertion in said appliance and wrench of the nut, the retention of the nut therein as against accidental displacement, and the ready removal of the appliance, with the wrench, from the nut when the latter is screwed "home;" and the invention consists of a "bridle" or frame inclosing the eye of the wrench, to which it is suitably held, in combination with a lever adapted to withdraw a spring holding contrivance or plate directly holding the nut in place out of engagement with the nut in removing the wrench and appliance from the nut, substantially as hereinafter more fully set forth, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a plan view showing my invention as applied to an ordinary wrench. Fig. 2 is a sectional view of the invention removed from the wrench. Fig. 3 is a side view of a modification, partly in section.

In carrying out my invention I employ a bridle or rectangular frame, A, provided at each of two of its inner side edges with an arm, *a*, the free ends of which extend inwardly, as at *a'*, and overlap opposite edges of the wrench B, to which said bridle or frame is applied. This frame or bridle is also cast or provided with lugs or flanges *b b*, one projecting inwardly from each outer corner edge and overlapping opposite edges of the wrench, by the joint use of which and the arms *a a* the bridle or frame is held upon the wrench as a permanent appendage. Upon a third inner side edge of the bridle or frame A is formed an additional arm, *d*, to the outside of which, within a shallow groove and near the inner end of which, is secured a spring plate or contrivance, B. The outer end of this plate or contrivance B is outwardly curved, as at *e*, and

then extends inwardly into the form of a lip, *e'*, sufficiently far to engage or bear against the nut held by the wrench.

C is a prying-lever, which is connected at its lower end to the outwardly-curved portion *e* of the spring-plate B, the latter passing through an aperture in the lever, which by its spring-pressure holds the plate-lever in position upon the bridle or frame A. The lever C is provided at a point nearly opposite the inner end of the arm *d* with a bent projection or stud, *f*, which rests against the said arm or spring attached thereto, and serves as a fulcrum as the free end or handle of the lever is pressed upon, whereby as this is done the lip *e'* of the spring plate or contrivance B will be withdrawn or removed from contact with the nut, and thus readily permit of the removal of the wrench from the nut when the latter has been screwed home. This appliance, it will be seen, permits of the ready insertion of the nut into the wrench and effects the holding of the same preliminary to applying it to its screw or axle-arm or spindle, without liability of displacement or falling out of the wrench as the latter is brought into alignment with the screw or axle-arm or spindle; also, it permits of the ready removal or withdrawal of the wrench with the nut-holding appliance from the nut after the latter has been screwed home.

In the modification as shown in Fig. 3 the spring plate or contrivance is driven into a recess, *a''*, formed in the inner side of the arm *d* and wedged into place at the upper end of said arm, while said arm itself is recessed at its lower end, or cast in skeleton form, to permit the lower end of the lever C to project through the side of the frame A, in order to connect with the spring-plate as here arranged; also, in lieu of the projection or stud *f*, the lever C is provided at its side edges, at about the same point, with two studs or projections, *f'*, which are bent around the side edges of an elastic bearing or cushion, *g'*, applied to the arm *d* near or at its upper end, forming a flexible or yielding joint or connection between frame or bridle and the lever, whereby the same action of the lever is had, and for the purpose as aforesaid.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. The nut-holding appliance for wrenches, 5
having a bridle or frame provided with a spring-plate having an actuating-lever and inwardly-bent arms and lugs or flanges at its side edges, holding the same upon a wrench, substantially as and for the purpose set forth. 10
2. In a nut-holding appliance for wrenches, the combination, with a frame or bridle connected to the wrench and provided with a spring-plate adapted to engage with a nut to which the wrench may be applied, of a lever 15
connected to the spring-plate, and bearing upon an arm or extension of the frame or bridle, substantially as and for the purpose specified.

3. In a nut-holding appliance for wrenches, the combination, with the frame or bridle connected to a wrench and provided with a spring-plate having an inwardly-projecting portion or lip, of the lever having an aperture in its lower end, through which the spring-plate passes, and provided at its side edges with 25
projections or studs bent around the side edges of an elastic bearing applied to the upper end of an extension or arm of the bridle or frame, substantially as and for the purpose set forth.

In testimony whereof I affix my signature in 30
presence of two witnesses.

MOSES J. FLANDERS.

Witnesses:

JAMES CONKLING,
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