

(No Model.)

J. KENNEY.
WRENCH ATTACHMENT.

No. 418,521.

Patented Dec. 31, 1889.

FIG. 1.

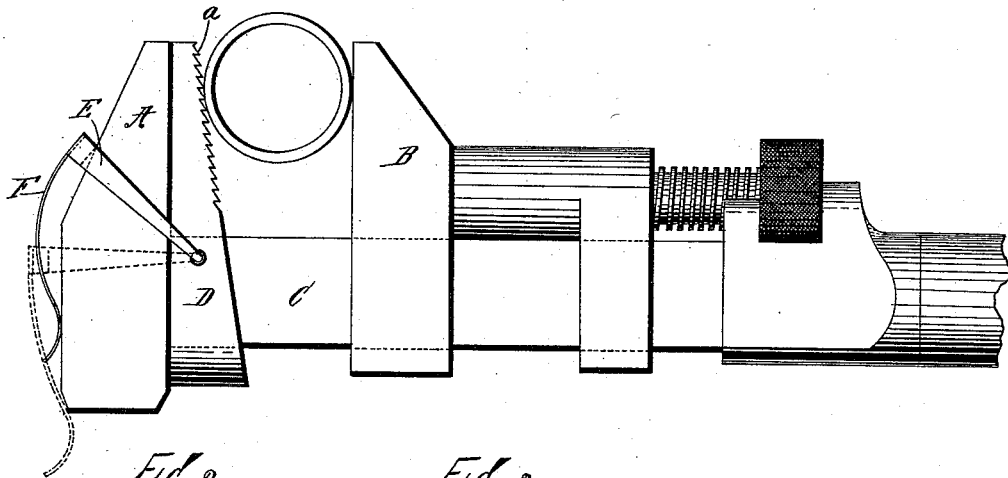


FIG. 2.

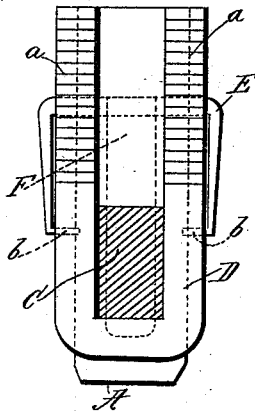


FIG. 3.

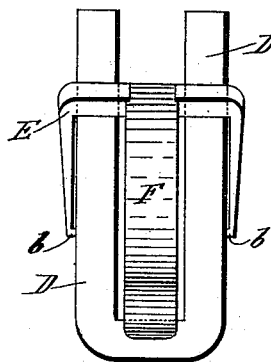


FIG. 4.

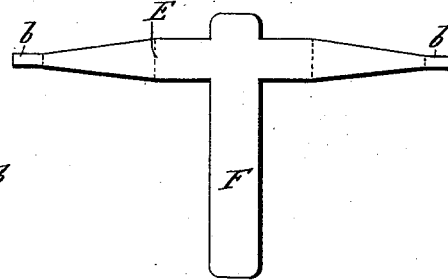
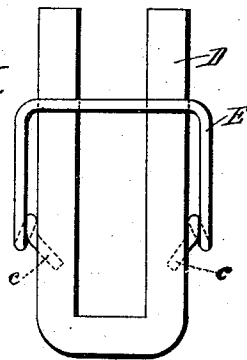


FIG. 5.



Witnesses:
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UNITED STATES PATENT OFFICE.

JAMES KENNEY, OF NEWARK, NEW JERSEY, ASSIGNOR TO THE PRENTISS VISE COMPANY, OF NEW YORK.

WRENCH ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 418,521, dated December 31, 1889.

Application filed April 3, 1889. Serial No. 305,810. (No model.)

To all whom it may concern:

Be it known that I, JAMES KENNEY, of Newark, county of Essex, and State of New Jersey, have invented certain new and useful

5 Improvements in Wrench Attachments, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

10 My invention relates to attachments for wrenches, especially such as are known as "monkey-wrenches," and the various modifications thereof, for the purpose of converting them from nut-wrenches into pipe-wrenches.

15 The object of my invention is to provide a simple, cheap, durable, and effective attachment or appliance which may be instantly adjusted upon the wrench or detached therefrom, the same being calculated to transform
20 the nut-wrench into a pipe-wrench, or one for turning cylindrical objects, which appliance will remain in place upon the wrench until purposely removed, resist the wrenching strain to best advantage, require no screws
25 for setting and holding it in place, have no projecting parts liable to damage or disarrangement while in use, and be applicable to various sizes of wrenches without alteration. To accomplish all of this, and to secure other
30 and further advantages in the matters of construction and use, my improvements involve certain new and useful arrangements or combinations of parts and peculiarities of construction, as will be herein first fully described, and then pointed out in the claims.

35 In the accompanying drawings, forming part of this specification, Figure 1 is a side view of a wrench with my improved attachment applied thereon in position for use.
40 Fig. 2 is a front elevation at the attachment upon a plane cutting across the shank of the wrench between the wrench-heads. Fig. 3 is a rear view of the appliance detached, illustrating one manner of applying the retaining-
45 spring. Fig. 4 is a plan view showing a blank from which the bridle and spring may be made in one piece and afterward bent to proper shape for application to the gripper. Fig. 5 is a view in elevation showing the bridle
50 itself made in the form of a spring and

applied upon the gripper, all in accordance with my invention.

In all the figures like letters of reference, wherever they occur, indicate corresponding parts.

A is the stationary or hammer head of a wrench, B the movable head, and C the shank. In the class of wrenches to which my improved device is especially applicable the hammer-head usually projects on all sides of
60 the shank.

D is the gripper appliance, intended to bear against the inner face of the hammer-head, and provided with serrations or teeth, as at
65 *a*, which, when the gripper is in place, enable it to grasp and hold any cylindrical object. This gripper D, preferably made of steel, is in the general form of a yoke, the upright parts of which extend above the shank and the connecting part bears upon
70 the under side of the shank, as plainly shown. This formation of the gripper transmits the wrenching strain to the shank, by which it is best withstood, without danger of displacing the gripper or breaking it, so that it may be made as light as is consistent with the uses
75 to which it is to be put. The gripper thus made is easily adjusted to place. Its inner face is preferably slightly inclined, so that the wrench may be wedged upon the object to be turned. To hold the gripper in place
80 so that while the wrench is being used it will not be detached, and so as to avoid any necessity of readjusting it by hand at every new application of the wrench, I apply to it
85 a bridle E, which may be dropped or forced down sufficiently far (as indicated in dotted lines, Fig. 1) to admit the hammer-head, and which will bear against the inclined part of the hammer-head so as to secure the gripper.
90 The gripper being in place, the bridle thereon has only to be brought to its bearing against the head, and there held by any light spring-pressure. The spring may be applied in a variety of ways.

In Figs. 1, 2, and 3, F is the spring, which is made separate from the bridle and secured thereupon in any suitable way. The lower end of this spring bears upon the outer face
100 of the hammer-head. Instead of making the

spring of a separate piece from the bridle, it may be made of one piece therewith, as indicated in Fig. 4; and when made in either of these forms the bridle is loosely hinged upon the sides of the gripper, the ends *b* of the bridle being sprung into suitable perforations provided for them, as indicated, or the hinge-connection being made in any suitable or preferred manner, as by rivets, &c. The spring may be applied in other ways to produce a like holding effect, as, for instance, it may be made a part of the bridle, as shown in Fig. 5, the bent portions *c* being fixed to the bridle, as by entering inclined perforations provided for them, so that their inner ends cannot move. The bridle has only to be lowered, (in the last form against the action of the spring,) slipped over the hammer-head, and the spring will hold it to its seat in the desired manner, and the bridle in turn will then hold the gripper as required.

The improved appliance can be snapped to place in an instant with one motion, and is then ready for use. It can be detached with equal facility, and is found to admirably answer the purpose or object of the invention, as previously set forth.

Having now fully described my invention, what I claim as new herein, and desire to secure by Letters Patent, is—

1. The herein-described attachment for wrenches, composed of the yoke-shaped gripper, the movable bridle applied upon said gripper, and a spring for holding the bridle in place, constructed and arranged substantially as shown.

2. In an attachment for wrenches, the combination, with the yoke-shaped gripper arranged to be applied upon the wrench-shank, of a movable bridle applied to the gripper for bearing against the outer face of the wrench-head, and a spring for holding the bridle and gripper in place thereon, substantially as shown and described.

In testimony that I claim the foregoing I have hereunto set my hand in the presence of two witnesses.

JAMES KENNEY.

Witnesses:

JOHN BUCKLER,
WORTH OSGOOD.