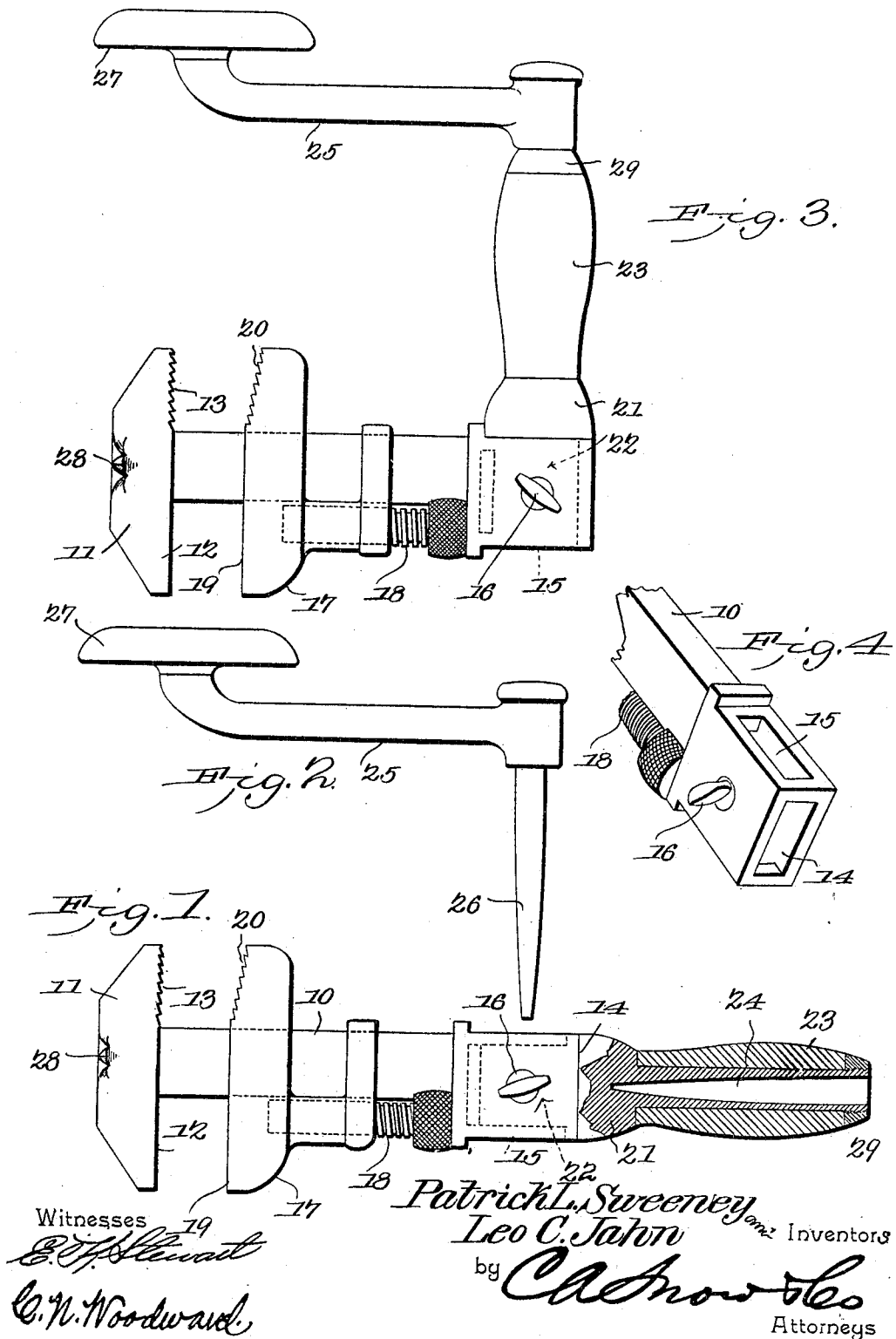


No. 819,817.

PATENTED MAY 8, 1906.

P. L. SWEENEY & L. C. JAHN.
COMBINED WRENCH AND BIT STOCK.

APPLICATION FILED SEPT. 27, 1904.



UNITED STATES PATENT OFFICE.

PATRICK L. SWEENEY AND LEO C. JAHN, OF JASPER, INDIANA.

COMBINED WRENCH AND BIT STOCK.

No. 819,817.

Specification of Letters Patent.

Patented May 8, 1906.

Application filed September 27, 1904. Serial No. 226,180.

To all whom it may concern:

Be it known that we, PATRICK L. SWEENEY and LEO C. JAHN, citizens of the United States, residing at Jasper, in the county of Dubois and State of Indiana, have invented a new and useful Combined Wrench and Bit Stock, of which the following is a specification.

This invention relates to improvements in combination implements, and has for its object to improve the construction and provide a simply-arranged and efficient device adapted for ready employment as a wrench or as a bit or drill stock and which may also be employed upon nuts, rods, pipes, or the like with equal facility.

With these and other objects in view, which will appear as the nature of the invention is better understood, the same consists in certain novel features of construction, as hereinafter fully described and claimed.

In the accompanying drawings, forming a part of this specification, and in which corresponding parts are denoted by like designating characters, is illustrated the preferred form of the embodiment of the invention capable of carrying the same into practical operation, it being understood that the invention is not necessarily limited thereto, as various changes in the shape, proportions, and general assemblage of the parts may be resorted to without departing from the principle of the invention or sacrificing any of its advantages.

In the drawings, Figure 1 is a side view of the improved implement, partly in section, arranged as a wrench. Fig. 2 is a side view of the bit-stock-crank attachment. Fig. 3 is a side elevation of the improved implement arranged as a bit-stock or brace. Fig. 4 is a perspective view of the lower or inner end of the wrench-stock, illustrating its construction.

The improved implement comprises three portions—a wrench-head portion, a combined handle and bit-stock-coupling portion, and a bit-stock-crank portion.

The wrench portion consists of a stock or shank 10, having at one end a stationary wrench-jaw 11, preferably with a nut-engaging face 12 and a pipe or rod engaging face 13, and at the other end with a longitudinal socket 14 and a transverse or lateral aperture 15, intersecting said socket. One of the side walls of said socket is provided with a set-screw 16, operating therethrough to firmly support the contents of the socket or aper-

ture, as the case may be. The stock 10 is also provided with a movable jaw 17, operative, as by screw 18, in the usual manner and formed with the nut-engaging face 19 and pipe or rod engaging face 20. The outer end of the screw 18 has threaded engagement with the jaw 17, and the inner end of said screw has pivotal engagement with the outer end of the socket portion 14, which latter extends laterally from the stock or shank 10 a sufficient distance to enable the parts to be connected in the manner described.

The handle portion consists of the central core or stock 21, having a stud or tenon 22 at one end for alternately entering the socket 14 and the aperture 15 and provided with a central tapered longitudinal cavity 24, leading inwardly from the free end. Surrounding the stock or core 21 is a hand-grip portion 23, which is rotative upon the core and held in position thereon as by a nut 29. By this construction great strength and durability are assured, as well as ease of operation.

The bit-stock portion consists of a bar 25, having a tapered spur 26 extending laterally therefrom at one end for entering the tapered cavity 24 in the member 21 and a rotative breastplate or head 27 extending in the opposite direction at the other end.

When the implement is to be employed as a wrench, the tenon 22 of the handle member is inserted into the socket 14 and the set-screw 16 used to clamp it therein, as shown in Fig. 1.

When the implement is to be employed as a bit-stock, the handle member is connected by its tenon 22 and set-screw 16 in the aperture 15 and the bit-stock-crank member connected to the handle member by inserting its tapered spur 26 into the tapered cavity 24 of the handle portion, which will bring the breastplate or head 27 in alinement with a bit, drill, or other implement held between the jaw-faces 12 19, as shown in Fig. 2, the rotating sleeve 23 thus becoming the hand-grip to facilitate the action.

As will be readily seen, the tenon 22 may be placed in engagement with the aperture 15 from either end of the latter, so that the wrench member may be reversed to place either of its ends in outward or operative position.

A nail-pulling claw may be added, as at 28, if preferred.

The implements may be constructed in various sizes, as required, and may be of any

suitable metal or combinations of metal and other materials.

The nail-pulling claw 28 may be located at some other point on the jaw member 11, if found more convenient.

By the improved construction, which has been herein described, it will be seen that when the shank and the grip portion are connected to form an ordinary wrench, as illustrated in Fig. 1 of the drawings, the grip portion will be in direct alinement with the shank and with the jaws upon the latter and will not be offset to either side, the proportions of the device being evenly balanced by the screw 18, which has its inner bearing in the laterally-extended socket portion adjacent to the shank 10. When the grip portion is detached, it may, as stated, be extended through the aperture 15 from either end of the latter, thus enabling both sides of the jaw to be utilized with equal efficiency. The general construction is simple, and the device is efficient in operation.

Having thus described the invention, what is claimed is—

1. A wrench-stock having a terminal longitudinal socket intersected by a lateral aperture extending therethrough, in combination with a grip portion having a tenon adapted

for engagement with the socket through its terminal opening or through either end of its lateral aperture. 30

2. A wrench including a stock and jaws extending to opposite sides of said stock, said stock being provided with a terminal socket having a lateral aperture extending through opposite walls of the socket, in combination with a grip portion having a tenon insertible endwise and laterally into said socket. 35

3. A wrench-stock having a stationary and a movable jaw, said jaws extending in opposite directions from the stock, a laterally-offset socket portion at the inner end of the stock, and a screw journaled in the laterally-extended socket portion and having threaded engagement with the movable jaw, the socket portion being provided with an aperture extending laterally therethrough; in combination with a grip portion having a tenon insertible endwise and laterally into the socket. 40 45 50

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in the presence of two witnesses.

PATRICK L. SWEENEY.
LEO C. JAHN.

Witnesses:

JOHN GRAMELSPACHER,
JOHN E. McFALL.