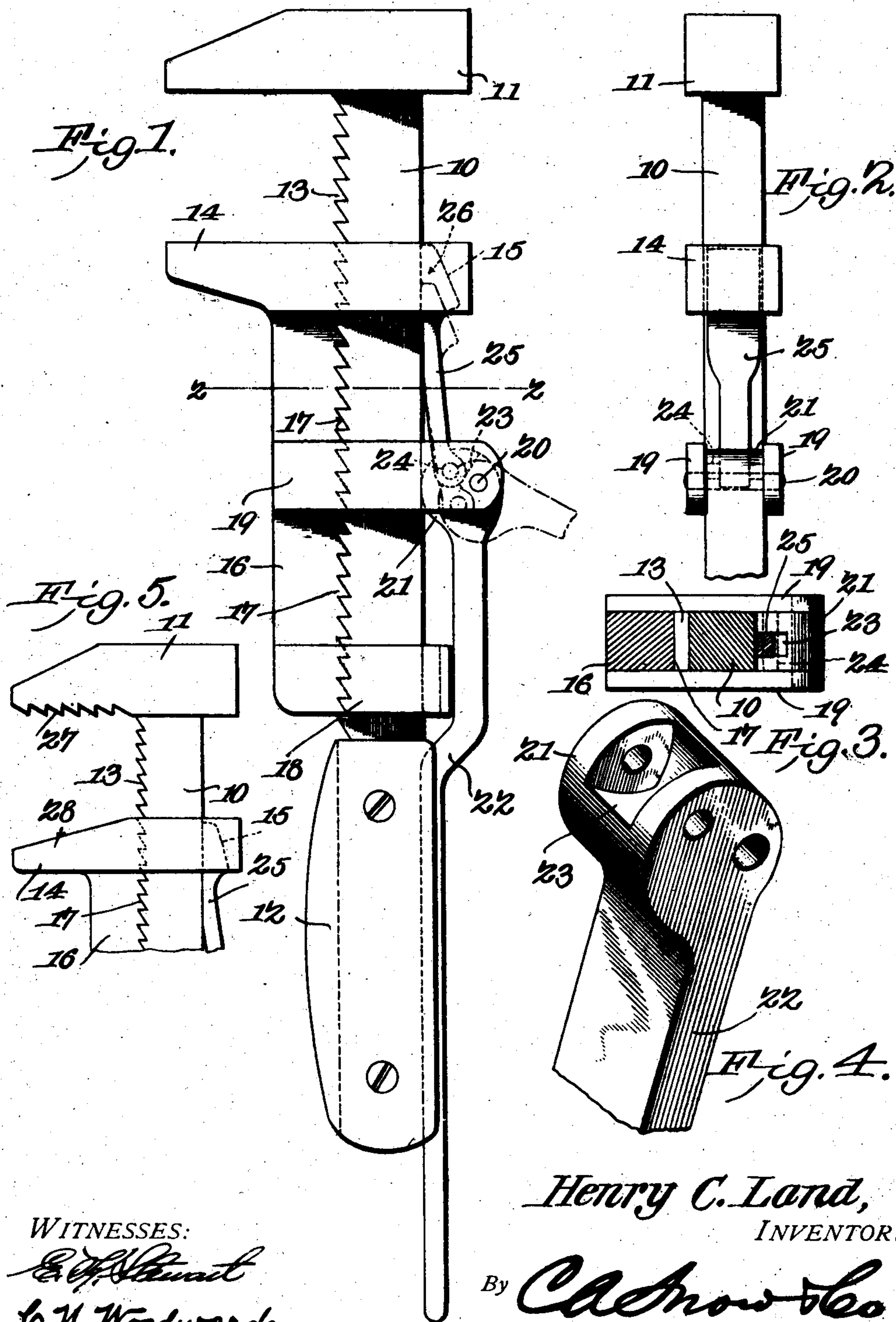


No. 835,071.

PATENTED NOV. 6, 1906.

H. C. LAND.
WRENCH.

APPLICATION FILED MAY 21, 1906.



WITNESSES:

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UNITED STATES PATENT OFFICE.

HENRY CLAY LAND, OF ALTMAN, TEXAS.

WRENCH.

No. 835,071.

Specification of Letters Patent.

Patented Nov. 6, 1906.

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To all whom it may concern:

Be it known that I, HENRY CLAY LAND, a citizen of the United States, residing at Altman, in the county of Erath and State of Texas, have invented a new and useful Wrench, of which the following is a specification.

This invention relates to improvements in quick-action wrenches, and has for its object to simplify and improve the construction and increase the utility and efficiency of devices of this character.

With these and other objects in view, which will appear as the nature of the invention is better understood, the invention 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.

In the accompanying drawings, Figure 1 is a side elevation, partly in section, of the improved wrench. Fig. 2 is a rear elevation of the upper portion of the same. Fig. 3 is a transverse section on the line 2-2 of Fig. 1. Fig. 4 is a perspective view, enlarged, of the operating portion of the cam-lever. Fig. 5 is a detail, on a reduced scale, showing the device arranged as a pipe-wrench.

The improved device comprises a stock or shank 10, having a stationary jaw 11 at one end and a handle 12 at the other end and with spaced teeth 13 in one of its faces.

The movable jaw 14 is provided with a recess and slidably disposed over the stock 10, the recess being of greater length than the width of the stock and with the inner faces of the one end of the recess inclined to the longitudinal plane of the stock, as shown at 15.

For the purposes of this description the face of the stock having the teeth is referred to as the "forward" side and the opposite side is referred to as the "rear" side, the inclined face 15 of the recess of the movable jaw being thus at the rear side of the wrench.

Extending from the movable jaw 14 and preferably integral therewith is a standard 16, having spaced teeth 17, corresponding to and engaging the teeth 13 of the stock. The standard is provided at the end opposite the jaw 14 with a band 18, bearing upon opposite

sides of the stock 10 and around the rear face of the same, the rear end of the band being disposed far enough away from the stock to permit sufficient movement of the stock to release the teeth, as will be obvious. The standard is likewise provided with spaced ears 19, extending therefrom intermediate its ends and also bearing upon opposite sides of the stock and extending rearwardly of the same.

Pivoted at 20 between the extended portions of the ears 19 is a cam 21, having a handle 22 extending therefrom and with a recess 23 in its face. Pivoted at 24 within the recess 23 is a bar 25, having a wedge-shaped terminal 26 for bearing in the portion of the movable-jaw recess at the rear side of the stock, the inclined or wedge-shaped side of the head 26 corresponding to the inclined portion 15 of the recess.

The cam 21 is so arranged relative to the stock 19 that when the handle 22 is in closed position, as shown in full lines in Fig. 1, the cam will bear forcibly against the stock and hold the standard 16 rigidly in contact therewith and at the same time force the wedge-shaped end 26 of the bar 25 into the portion of the movable-jaw recess rearwardly of the stock and tightly compress the movable jaw against the stock. By this simple means a twofold gripping means is provided for holding the movable jaw and its standard in locked position relative to the stock, and thereby materially increasing the efficiency and strength of the implement.

When the handle member 22 is released or moved into position laterally of the stock, as shown by dotted lines in Fig. 1, the head 26 will be withdrawn partly from the recess in the movable jaw, and thus permit the movable jaw and its standard 16 and ears 18 19 to be moved bodily away from the stock to disconnect the teeth 13 17, leaving the movable jaw and its attachment free to be quickly adjusted to any desired extent.

When adjusting the movable jaw and its standard to the required position, the closed rear ends of the jaw members 14 15 and the band 18 bear upon the rear face of the stock 10, and thus keep the teeth from becoming engaged until the adjustment is complete. When the adjustment is completed, the return of the handle 22 to its position against the handle 12 will again operate the standard and movable jaw and again lock them in position.

The device is simple in construction, can be inexpensively manufactured, and employed in all localities where wrenches are required.

5 The device can be readily adapted for use as a pipe or rod wrench by serrating the jaw 11, as shown at 27, and inclining the jaw 14, as shown at 28 in Fig. 5; but this will not be a departure from the principle of the invention,
10 as the same results are produced by the same means and in the same manner.

Having thus described the invention, what is claimed as new is—

1. In a wrench, a stock having a station-
15 ary jaw at one end with spaced teeth in one face, a movable jaw having a recess for receiving said stock and of greater length than the width of the stock, a standard extending from said movable jaw and provided with
20 teeth engaging the teeth of the stock and likewise provided with spaced ears bearing against said stock and extending in advance of the same, a cam swinging between said ears and operating to compress said stand-
25 ard against said stock, and an arm pivoted at one end in said cam and with the other end bearing within the recess of said movable jaw and clamping the movable jaw to

the stock when the cam is in closed position.

2. In a wrench, a stock having a station- 30
ary jaw at one end and with spaced teeth in one face, a movable jaw having a recess for receiving said stock and of greater length than the width of the stock, a standard ex-
35 tending from said movable jaw and provided with teeth engaging the teeth of the stock and with a band at the opposite terminal of the standard embracing the rear face of the stock and spaced therefrom, ears bearing
40 against the sides of said stock and extending rearwardly of the same, a cam swinging between said ears and operating to compress said standard against said stock, and an arm
45 pivoted at one end in said cam and with the other end bearing within the recess of said movable jaw and clamping the movable jaw to the stock when the cam is in closed position.

In testimony that I claim the foregoing as my own I have hereto affixed my signature 50
in the presence of two witnesses.

HENRY CLAY LAND.

Witnesses:

WILLIAM E. HUBBERT,
WILLIAM A. NANCE.