

(No Model.)

L. SEAGER.
WRENCH.

No. 576,381.

Patented Feb. 2, 1897.

Fig. 1.

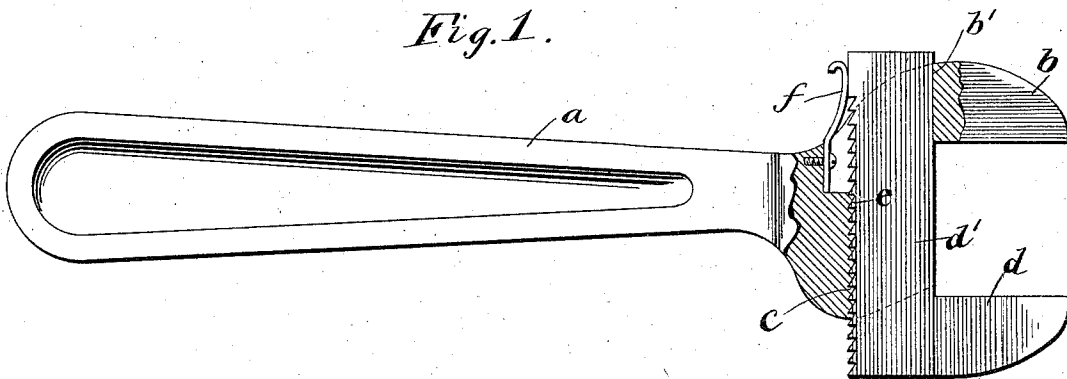


Fig. 2.

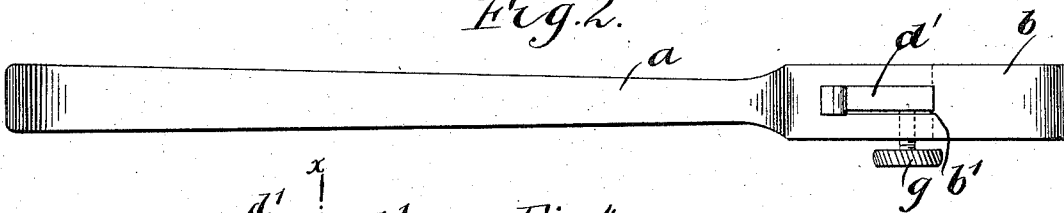


Fig. 3.

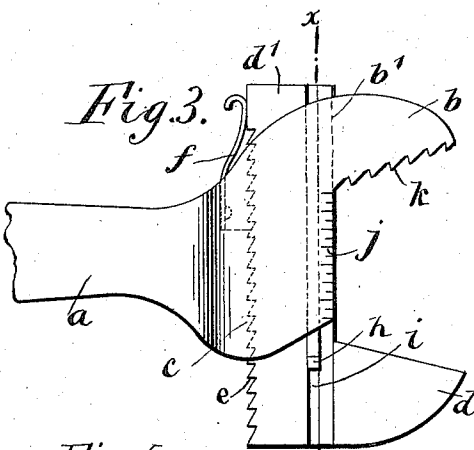


Fig. 4.

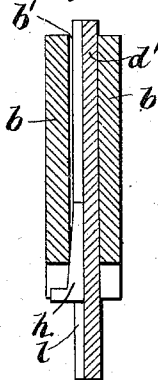


Fig. 6.

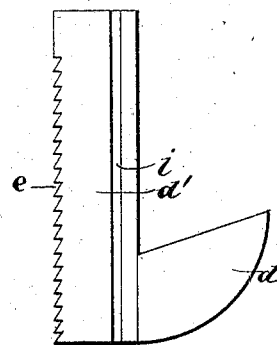


Fig. 5.

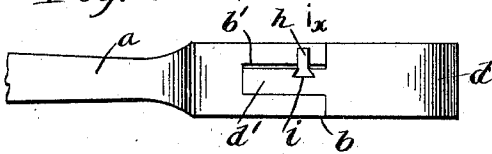
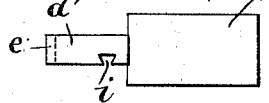


Fig. 7.



WITNESSES
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UNITED STATES PATENT OFFICE.

LAURANCE SEAGER, OF SITTINGBOURNE, ENGLAND.

WRENCH.

SPECIFICATION forming part of Letters Patent No. 576,381, dated February 2, 1897.

Application filed January 9, 1896. Serial No. 574,835. (No model.) Patented in England January 18, 1893, No. 1,110.

To all whom it may concern:

Be it known that I, LAURANCE SEAGER, a subject of the Queen of Great Britain, and a resident of Sittingbourne, county of Kent, England, have invented certain new and useful Improvements in Adjustable Spanners and Wrenches, (for which I have obtained English Patent No. 1,110, dated January 18, 1893,) of which the following is a specification, reference being had to the accompanying drawings, forming a part hereof, in which similar letters of reference indicate corresponding parts.

This invention relates to improvements in adjustable spanners and wrenches, and has for its object to provide an article of this character which will be inexpensive, few and simple in its parts, and operative.

The invention will be hereinafter fully described, and specifically set forth in the annexed claim.

In the accompanying drawings, Figure 1 is a side elevation of my improved device, showing its application as a nut-wrench. Fig. 2 is a plan view thereof. Fig. 3 is a side elevation showing the device for use in gripping pipes, bars, and the like. Fig. 4 is a sectional elevation of the same, taken on a line xx of Fig. 3. Fig. 5 is an inverted plan view; and Figs. 6 and 7 show, respectively, a side elevation and an inverted plan of the loose jaw for use as a spanner.

In carrying out my invention I provide a handle or stock a with a jaw b , which jaw is formed integrally with the handle and is set at a convenient angle. Through this jaw is formed a vertical slot b' , adapted to engage with the shank portion d' of the movable jaw d . On the rear face of the portion d' is a toothed edge e , which said toothed portion engages with a toothed surface c on the interior rear wall of the slot b' , whereby the jaw d may be maintained in any desired position.

To more securely hold the loose jaw in place, I provide a spring f , which said spring is secured to the handle a and bears upon the upper end of the portion d' of the jaw d . To further secure the said jaw, I provide thumb-screws g , which pass through one of the walls of the slotted portion of the jaw b and bear against the portion d' of the jaw d , or the jaw d may be provided with slot i , which is adapted to carry the sliding wedge h . The said wedge may be forced between the portion d' of the movable jaw and one of the

walls of the slot b' , whereby the movable jaw may be held in any desired position.

The device may further be supplied with a measuring-scale j , the said scale being placed upon the outer surface of the fixed jaw b .

Fig. 3 shows the fixed jaw set at an angle for gripping pipes, bars, and the like, said jaw being supplied with teeth k , which are adapted to bite into the bars or pipes being operated upon.

To enable the device, as shown in Fig. 3, to be used as a spanner, I provide an additional loose jaw, as shown in Figs. 6 and 7, the gripping-surface of which jaw is set at an angle parallel to the toothed surface of the fixed jaw b .

I do not confine myself to the exact construction as shown in the drawings and herein described, as it is obvious that under the scope of my invention I am entitled to make slight changes. For instance, while the drawings show the teeth formed on fixed jaw b I do not confine myself to this, as I find in practice it is sometimes preferable to have said teeth formed on loose jaw d .

I do not claim, broadly, an adjustable wrench in which the movable jaw-shank passes through an opening in a fixed jaw, as I am aware that such construction is not new, but my invention relates to the special parts and arrangement of them for operating a wrench of this character, as I have set forth in my specification.

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

A wrench consisting of a handle having a jaw formed thereon, and through said jaw a slot having a toothed surface, a movable jaw provided with a toothed arm working in said slot, a plate-spring for holding said jaws in engagement, and a wedge sliding in a slot in the movable jaw for securing the jaws in position when engaged, substantially as shown and described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of the subscribing witnesses, this 14th day of October, 1895.

LAURANCE SEAGER.

Witnesses:

PERCY EBENEZER MATTOCKS,
HENRY MAY KELS.