

G. W. WAITT.
B. F. WAITT, GUARDIAN.
WRENCH.

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1,041,707.

Patented Oct. 15, 1912.

Fig. 1.

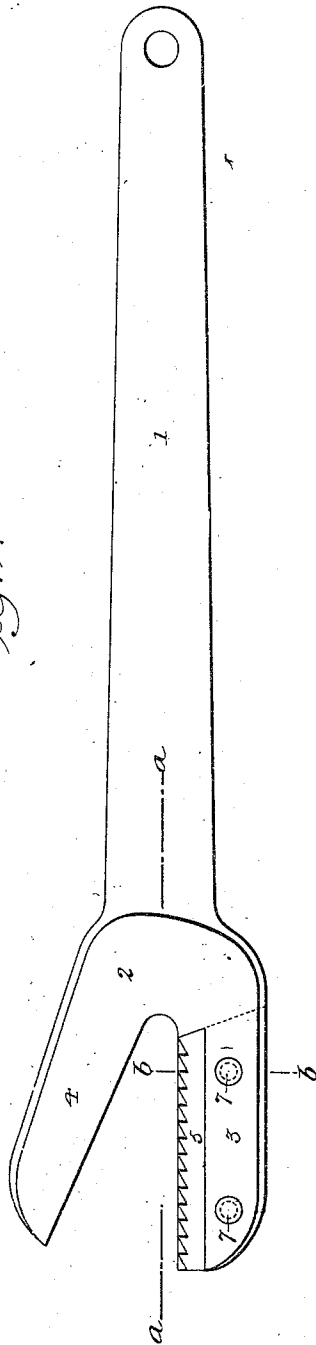


Fig. 3.

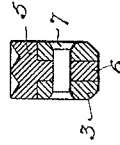


Fig. 2.



Witnesses:
Hamilton D. Turner
L. H. Irons.

George W. Waitt.
(Benjamin F. Waitt Guardian)
by his Attorneys,
Hosmer & Brown

UNITED STATES PATENT OFFICE.

BENJAMIN F. WAITT, OF CAMDEN, NEW JERSEY, GUARDIAN OF GEORGE W. WAITT.

WRENCH.

1,041,707.

Specification of Letters Patent.

Patented Oct. 15, 1912.

Original application filed August 28, 1896, Serial No. 604,162. Renewed June 8, 1905, Serial No. 264,335. Divided and this application filed December 15, 1905. Serial No. 291,883.

To all whom it may concern:

Be it known that I, BENJAMIN F. WAITT, of Camden, New Jersey, guardian of GEORGE W. WAITT, formerly of San Francisco, California, but now of Gardiner, Maine, the latter being now a person of unsound mind, who did while of sound mind invent certain Improvements in Wrenches, make application for Letters Patent for said invention, of which the following is a specification, this application being a division of an application filed by said GEORGE W. WAITT on the 28th day of August, 1896, Serial No. 604,162, and renewed June 8, 1905, Serial No. 264,335.

This invention relates to a certain improvement in pipe wrenches of the type shown in United States Patent No. 167,368 dated August 31, 1875, the object of the present invention being to improve the operation of a wrench of that type by causing it to grasp the pipe more securely.

In the accompanying drawing; Figure 1, is a side view of a wrench made in accordance with the present invention; Fig. 2, is a sectional view of the same on the line *a-a*, Fig. 1, and Fig. 3, is a transverse section on the line *b-b*, Fig. 1.

The wrench comprises a handle 1, and a head 2, made in one piece, said head comprising two jaws 3 and 4, disposed at an angle to one another, so as to provide a tapering mouth or gullet between them. The acting face of the jaw 3 is provided with teeth disposed diagonally across the same, as shown in Fig. 3, and said face is

parallel, and, by preference, approximately flush, with the central longitudinal line of the handle 1, the acting face of the jaw 4 being diagonal in respect to said line. It has been found that when the toothed jaw of the wrench is thus disposed a quicker and firmer grip of the wrench upon a pipe or other rounded surface is secured than when the acting faces of both of the jaws are inclined in respect to the longitudinal line of the wrench, as in the former patent.

In order to permit of the ready renewal of the toothed surface of the jaw 3, said toothed surface is formed on a bit 5, which has a tenon 6, fitting within a mortised portion of the jaw 3, the bit being retained in place on the jaw by means of transverse bolts, screws, rivets or other equivalent fastenings, a pair of rivets 7 being shown for the purpose in the present instance.

I claim as the invention of the said GEORGE W. WAITT:

A wrench having two rigid jaws, one presenting a toothed face substantially parallel with the handle of the wrench and the other presenting a smooth inner face disposed at an acute angle in respect to the inner face of the first jaw.

In testimony whereof, I have signed my name to this specification, in the presence of two subscribing witnesses.

BENJAMIN F. WAITT,
Guardian of George W. Waitt.

Witnesses:

WM. E. SHUFRE,
JOS. H. KLEIN.