No. 751,914. PATENTED FEB. 9, 1904.

J. H. HOBSON.

WRENCH.

APPLICATION FILED OCT. 31, 1903.

NO MODEL.

Fig. 1.

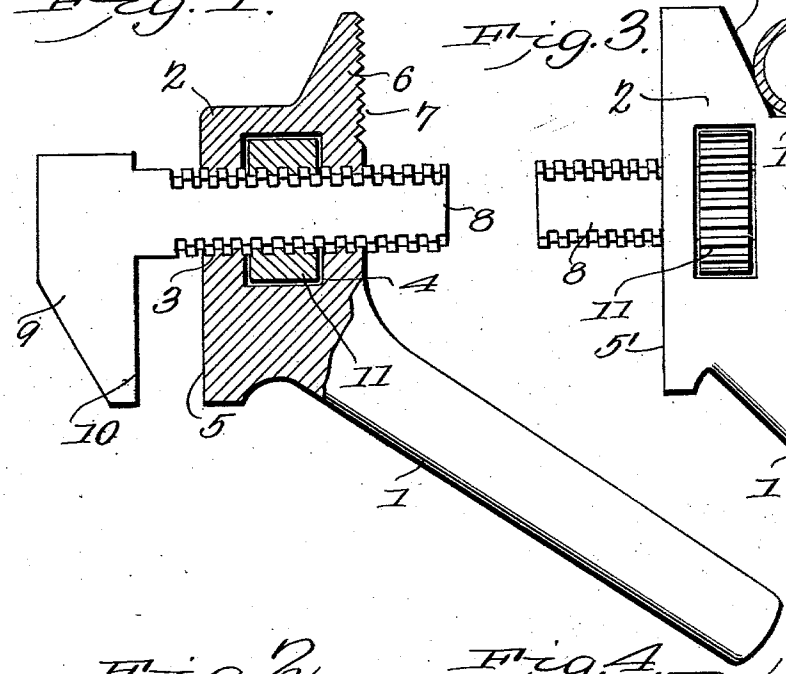


Fig. 3.

Fig. 2.

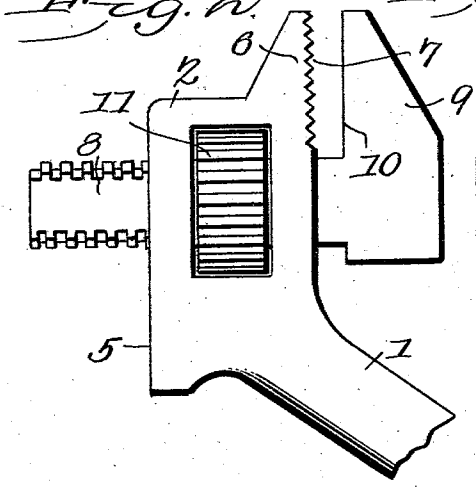
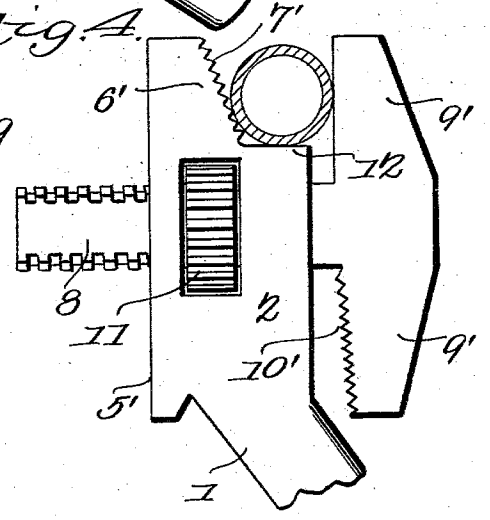


Fig. 4.



Witnesses
E. F. Stewart
F. L. Emory.

John H. Hobson,
Inventor.
by C. A. Snow & Co
Attorneys

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

No. 751,914. Patented February 9, 1904.

UNITED STATES PATENT OFFICE.

JOHN H. HOBSON, OF MATTOON, ILLINOIS.

WRENCH.

SPECIFICATION forming part of Letters Patent No. 751,914, dated February 9, 1904.

Application filed October 31, 1903. Serial No. 179,321. (No model.)

To all whom it may concern:

Be it known that I, JOHN H. HOBSON, a citizen of the United States, residing at Mattoon, in the county of Coles and State of Illinois, have invented a new and useful Wrench, of which the following is a specification.

My invention relates to wrenches, and has for its object to produce a device of this character of simple construction in which a complete reversal of the gripping-jaws relative to the handle may be quickly obtained, thus adapting the device for ready adjustment to accord with the position of the nut or pipe to be operated upon.

To these ends the invention comprises the novel features of construction and combination of parts more fully hereinafter described.

In the accompanying drawings, Figure 1 is a side sectional elevation of a wrench embodying my invention, showing the parts in one position. Fig. 2 is a similar elevation showing the reverse position of the parts. Figs. 3 and 4 are slightly-modified forms of embodiment of the invention.

Referring to the drawings, 1 designates the handle of my improved wrench carrying a head 2, preferably formed integral with and disposed at an obtuse angle thereto. Said head is provided with a central opening 3, having an enlarged portion 4, and has lying upon one side of the opening a front gripping-face 5 and upon the opposite side of the opening a reversibly-disposed rear gripping-face 6, preferably provided with teeth or serrations 7.

8 indicates a shank provided at one end with a preferably integral head or jaw 9, having an inner gripping-face 10, lying upon one side of the shank. The shank extends through and in threaded engagement with an adjusting-nut 11, disposed within the enlarged portion 4 of opening 3, through which the shank is adapted for longitudinal movement under the influence of nut 11, as usual.

In Fig. 3 the rear gripping-face 6′ of the head is shown as slightly inset to produce at its base a supporting wall or shoulder 12 and as being slightly forwardly inclined and smooth, while the shank is in this instance provided with a pair of oppositely-extending jaws 9′, one of which has its inner gripping-face toothed or serrated, as at 10′.

In Fig. 4 the rear gripping-face of the head 2 is arranged as in Fig. 3, except that it is provided with teeth or serrations 7′, and the toothed face 10′ of the jaw 9′ is inclined. In other respects the forms of wrenches shown in Figs. 3 and 4 are identical in construction and operation with that shown in Figs. 1 and 2.

From the foregoing it is apparent that the shank 8 may be readily released from the nut 11 and reversed, thereby bringing its gripping-face 10 into coöperative position with either of the faces 5 and 6, thus completely reversing the jaws relative to the handle and adapting the wrench for acting upon nuts or pipes according to the positions of the latter, while in the forms of wrenches shown in Figs. 3 and 4 the shank may of course be turned laterally for bringing either of the gripping-jaws 9′ into coöperative position with either of the jaws 5′ 6′.

In attaining the ends herein set forth I do not limit myself to the precise details shown and described, as minor changes may be made therein without departing from the spirit of the invention.

Having thus described my invention, what I claim is—

1. In a wrench, the combination with a handle, of a head carried thereby and having oppositely-extending and reversely-disposed front and rear gripping-faces, and a shank carrying a jaw having an inner gripping-face, said shank being removably engaged with the head and adapted for reversal to bring its gripping-face into coöperative position with either face of the head.

2. In a wrench, the combination with a handle, of a head carried thereby and provided with a shank-receiving opening, said head having oppositely-extending and reversely-disposed front and rear gripping-faces projecting upon opposite sides of the opening, an ad-

justing-nut disposed within the opening, and a shank carrying a jaw having an inner gripping-face, said shank being in removable threaded engagement with the nut and adapted for reversal to bring its gripping-face into coöperative position with either face of the head.

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

JOHN H. HOBSON.

Witnesses:
ABRAM SPITTEN,
R. B. ROWE.