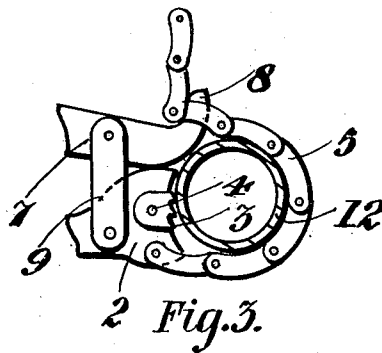
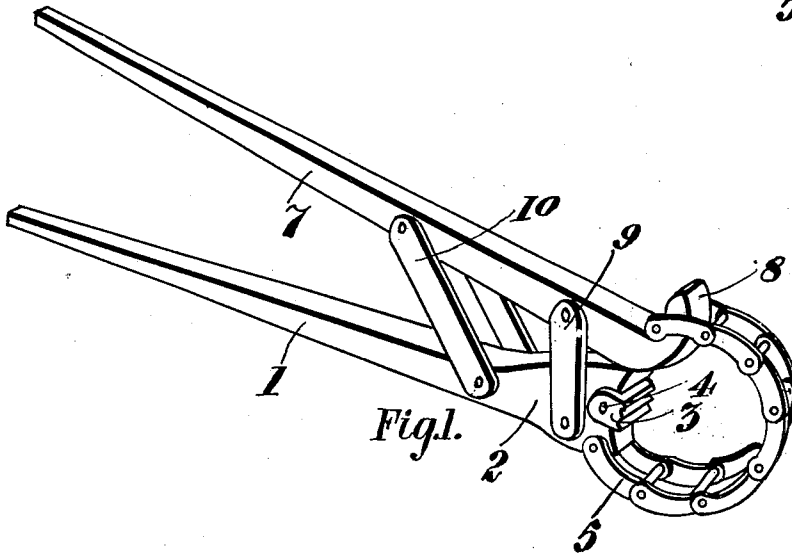
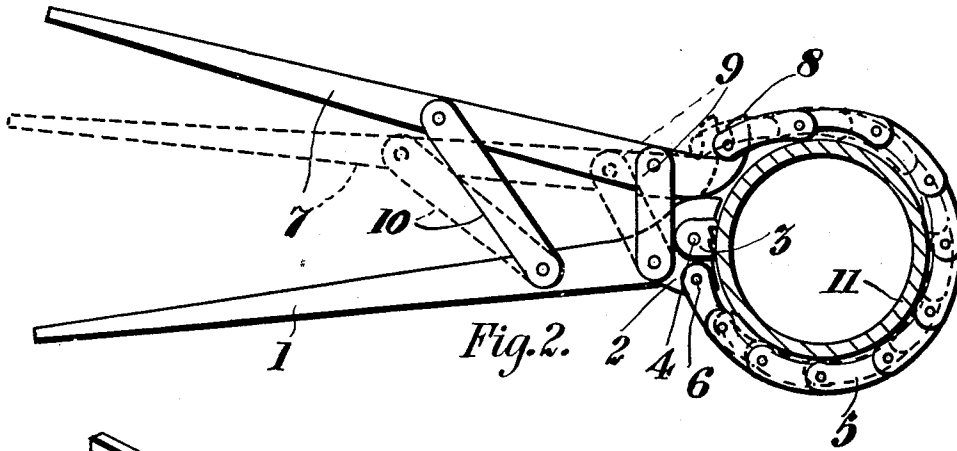


J. PRICE.
PIPE WRENCH.
APPLICATION FILED JULY 27, 1911.

1,050,169.

Patented Jan. 14, 1913.



Witnesses.

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UNITED STATES PATENT OFFICE.

JAMES PRICE, OF ST. WILLIAMS, ONTARIO, CANADA.

PIPE-WRENCH.

1,050,169.

Specification of Letters Patent.

Patented Jan. 14, 1913.

Application filed July 27, 1911. Serial No. 640,855.

To all whom it may concern:

Be it known that I, JAMES PRICE, a subject of the King of Great Britain, and a resident of the village of St. Williams, in the county of Norfolk, in the Province of Ontario, Canada, have invented certain new and useful Improvements in Pipe-Wrenches, of which the following is the specification.

My invention relates to improvements in pipe wrenches and the object of the invention is to devise a wrench of this class which will be capable of being applied to different size pipes with greater speed than has hitherto been the case; a further object is to construct a wrench in which the power used in pulling the wrench will also tend to increase the grip upon the pipe without liability of crushing the said pipes, and a still further object is to devise a wrench which can be easily operated in a corner or along a ceiling.

The invention consists of a handle portion having an enlarged inner jaw, a serrated portion crossing the enlarged inner jaw, a chain connected to the enlarged inner jaw, a lever having a hook-shaped inner end, and plates on each side of the handle and lever connecting the one to the other all as hereinafter more particularly described and illustrated in the specification and drawing in which:—

Figure 1, represents a perspective view of a wrench constructed according to my invention. Fig. 2, is a side elevation of the wrench showing it applied to a large sized pipe, and Fig. 3, is a side elevation of the head of the wrench showing the same applied to a small pipe.

Like letters of reference indicate corresponding parts in each figure.

1 is the handle portion of the wrench having an enlarged inner jaw 2.

3 is a serrated portion straddling the jaw 2 of the handle and secured thereto by the pin 4.

5 is a chain connected to the jaw 2 by the pin 6, and 7 is the lever having a hook-shaped end 8 designed to be inserted into the required link of the chain depending on the size of the pipe to which the wrench is applied, and 9 and 10 are plates connecting the lever 7 to the handle 1 on the same side as that on which the chain is connected after being passed around the pipe and so

designed as to permit the lever to swing down against the handle.

11 (Fig. 1) is a large pipe and 12 (Fig. 3) is a small pipe.

When it is desired to use the wrench the chain is looped around a pipe and the hook of the lever inserted into the required link of the chain. The lever is then pulled against the handle and the chain tightened around the pipe. The serrated portion is thus forced firmly against the pipe which will prevent the wrench slipping relatively to the pipe when turned.

It will be seen that the device can be quickly applied to pipes of different sizes. All that is required is to insert the hook end into a suitable link of the chain after the latter has been looped around a pipe. When the handle and lever are gripped and pulled as in the act of turning a pipe it will be readily understood that the chain is both pulled by the grip on the said handle and lever and also by the force exerted in turning the pipe whereby the greatest efficiency is obtained. Further, owing to the combined forces of gripping and pulling the wrench, the pressure is evenly distributed throughout the whole of the chain and undue force is not thrown upon the head of the wrench, the liability of said head to injure the pipe is greatly diminished. The device may also be used close to ceilings or in corners where it would be difficult to get an ordinary pipe wrench. Further there is no liability of the pipe being cut as the chain gives an even pressure around the pipe.

What I claim as my invention is:

A pipe wrench comprising a handle having an enlarged jaw portion, a lever having a hook-shaped end, a pair of links pivotally connected at one end to the handle and at the opposite end to the lever, and a chain pivotally connected at one end to that side with the enlarged jaw remote from the lever and one of the links in proximity to the other end engaging the hook of the lever whereby the tendency to turn the pipe by the grip of the operator on the handle and lever is in the same direction as the direction of pull.

JAMES PRICE.

Witnesses:

OLIVER WOLEREN,
T. H. SMITH.