E. M. HEDLUND.

PIPE TONGS.

APPLICATION FILED JULY 6, 1908.

936,319. Patented Oct. 12, 1909.

Fig. 1.

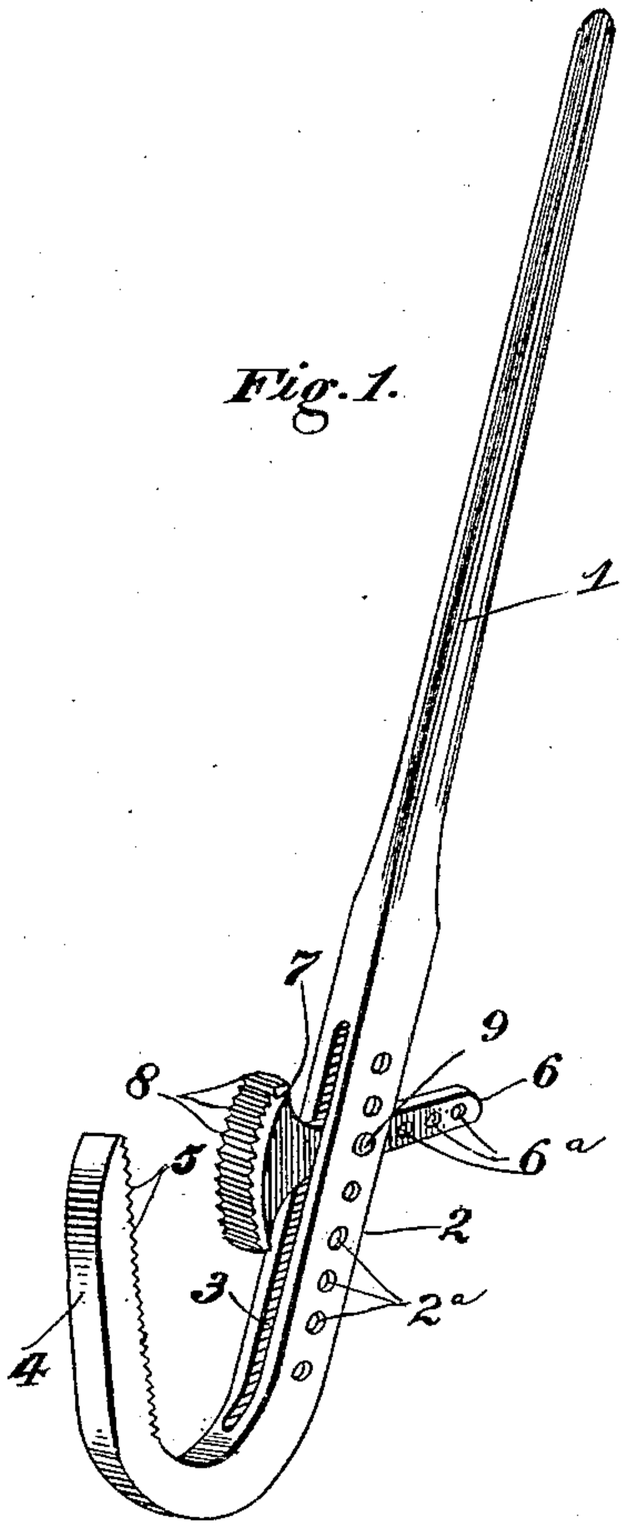
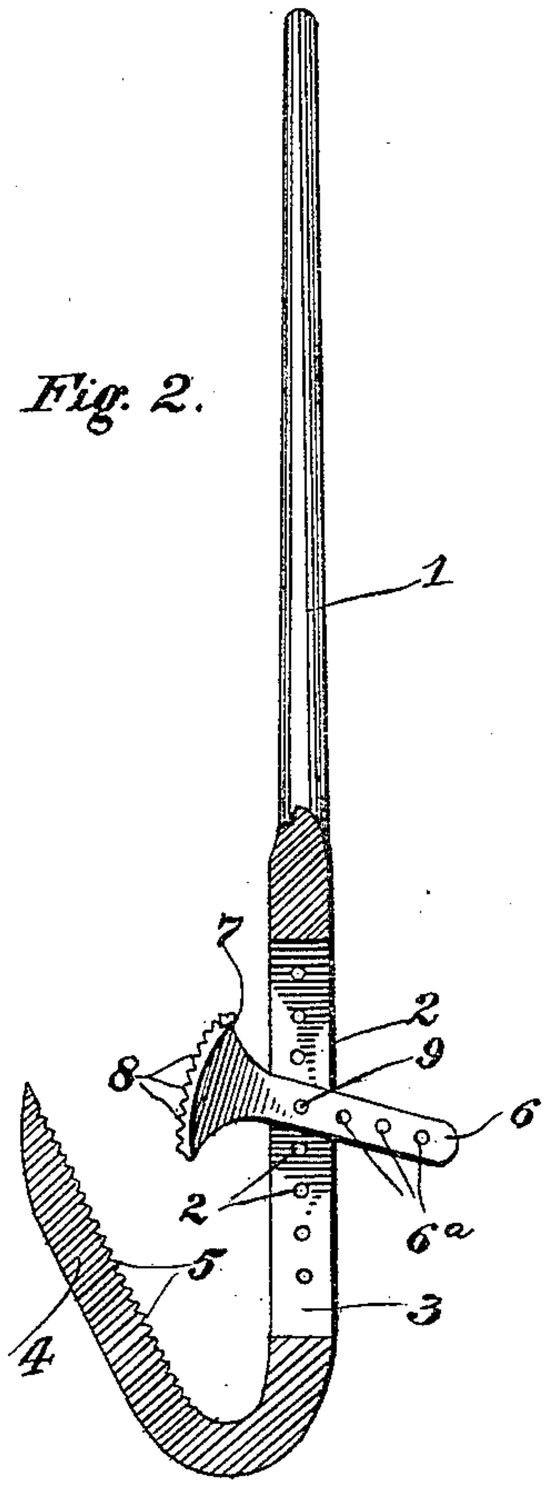


Fig. 2.



Witnesses

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ELMER M. HEDLUND, OF LYNCH, NEBRASKA.

PIPE-TONGS.

936,319. Specification of Letters Patent. Patented Oct. 12, 1909.

Application filed July 6, 1908. Serial No. 442,011.

To all whom it may concern:

Be it known that I, ELMER M. HEDLUND, citizen of the United States, residing at Lynch, in the county of Boyd and State of Nebraska, have invented certain new and useful Improvements in Pipe-Tongs, of which the following is a specification.

The present invention relates to certain new and useful improvements in pipe wrenches and has for its object to provide a wrench of this character embodying a novel construction, whereby a pipe or similar cylindrical member may be securely grasped when the handle is swung in one direction and released when the handle is swung in the opposite direction, the wrench being adjustable so as to be employed in conjunction with pipes of various diameters.

A further object of the invention is the provision of a pipe wrench which is simple and durable in its construction and comprises few and simple parts which can be readily assembled or taken apart as required.

For a full understanding of the invention and the merits thereof and also to acquire a knowledge of the details of construction and the means for effecting the result, reference is to be had to the following description and accompanying drawings, in which:

Figure 1 is a perspective view of a pipe wrench embodying the invention; and Fig. 2 is a side elevation of the same, portions being shown in section.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

Specifically describing the embodiment of the invention shown in the drawing, the numeral 1 designates a handle which terminates at one end in a head 2 provided with a longitudinal slot 3. The extremity of the head 2 is formed with a fixed jaw 4 which is returned and disposed at an acute angle to the head, the inner face of the fixed jaw being straight and provided with the transversely disposed teeth or serrations 5.

Pivotally mounted within the slot 3 of the head 2 is the shank 6 of a movable jaw 7 which is designed to coöperate with the fixed jaw to grasp a pipe or similar cylindrical member when the handle is swung in one direction, or to release the pipe when the handle is swung in the opposite direction. Specifically describing the movable jaw 7, it will be observed that the same is extended laterally upon opposite sides of the shank so as to have substantially the same width as the fixed jaw, and is formed on the arc of a circle so as to have a cam action with respect to the fixed jaw for grasping a pipe. It will also be observed that the face of the movable jaw is serrated, as indicated at 8. The shank 6 of the movable jaw is formed with a plurality of openings 6^a, any selected one of which may be caused to engage the pivot pin 9 upon which the movable jaw is mounted. It will also be observed that the head 2 is formed with a longitudinal series of transverse openings 2^a, any selected one of which may receive the pivot pin 9. It will thus be obvious that the movable jaw 7 may be moved in and out with respect to the head by placing the pivot pin in engagement with the required one of the openings 6^a, and may also be moved up and down upon the head 2 by placing the pivot pin in engagement with any required one of the openings 2^a. In this manner the wrench may be adjusted so as to be successfully employed in conjunction with pipes of various diameters, and in the operation of the wrench it will be obvious that when the handle is moved so that the movable jaw 7 is swung toward the fixed jaw, a pipe or like member placed between the two jaws will be securely gripped, while when the handle is moved in the opposite direction, the pipe will be released.

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

In a pipe wrench the combination of a handle, a head formed at one extremity of said handle, said head being longitudinally slotted through the edges thereof and being provided with a series of transverse openings throughout the length of the slot, a pin engaged through a selected pair of the openings in said head to extend through said slot, a movable jaw of arcuate formation carried by said head and having a serrated engaging surface, a shank carried by said

jaw and extended into the slot in said head, said shank having a plurality of openings formed in longitudinal alinement therein, said pin adapted for engagement through a selected opening in said shank, and a fixed jaw integrally formed on said head and disposed at an acute angle thereto to register with said movable jaw, said fixed jaw being straight in formation and having a serrated inner edge.

In testimony whereof I affix my signature in presence of two witnesses.

ELMER M. HEDLUND. [L. S.]

Witnesses:

ALBIN OLSON,

ALBERT ANDERSON.