

No. 666,490.

Patented Jan. 22, 1901.

W. H. BURR.
CHAIN WRENCH.

(Application filed Sept. 6, 1900.)

(No Model.)

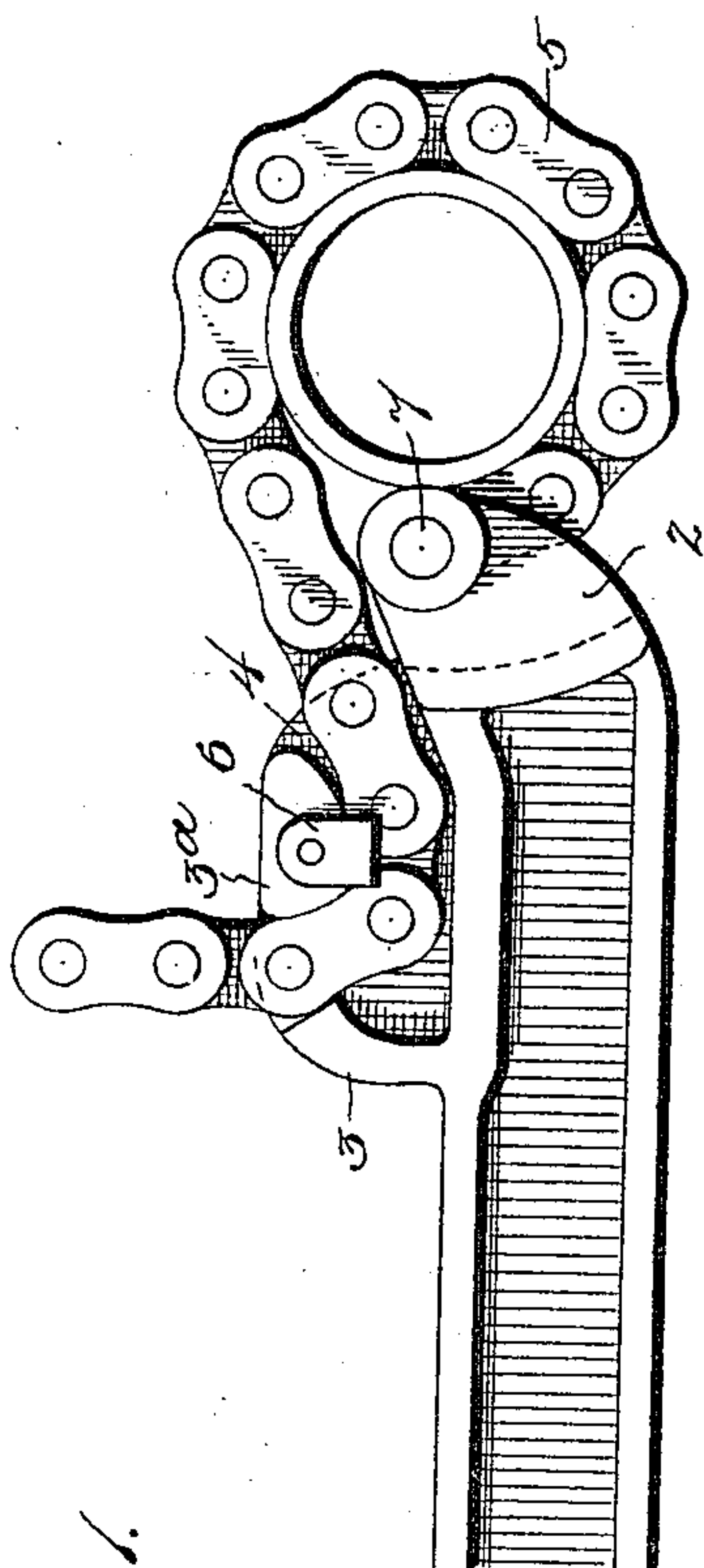


Fig. 1.

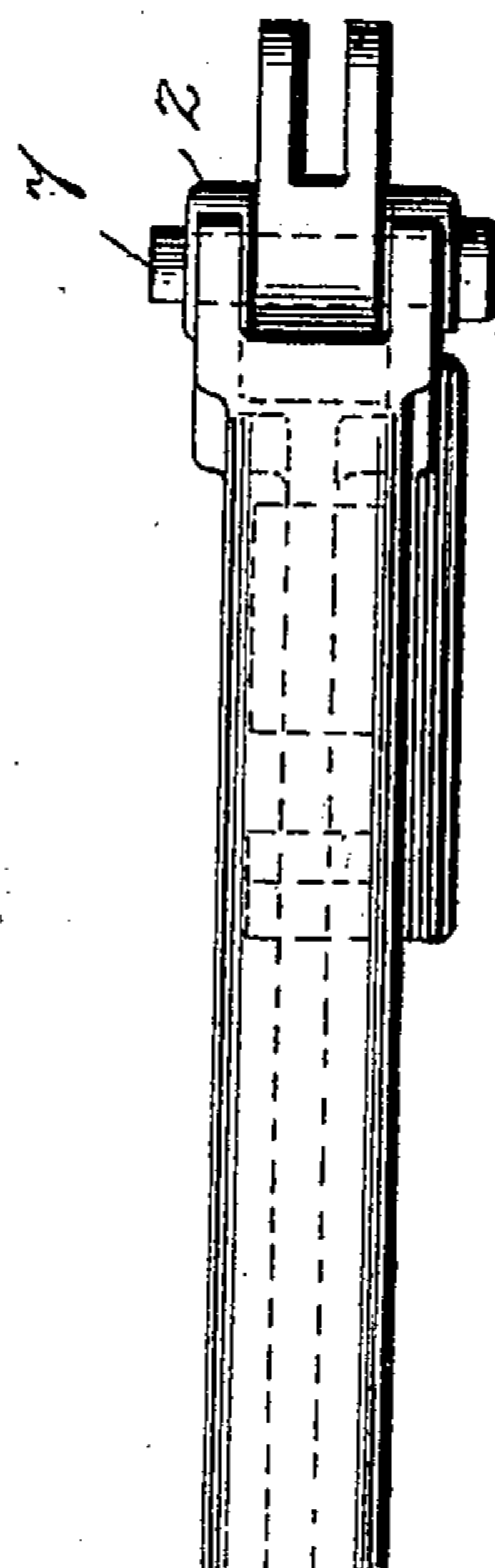
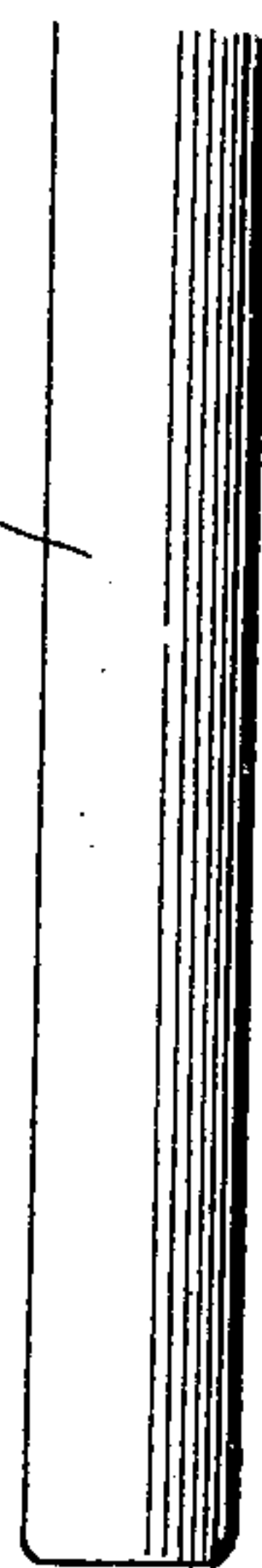
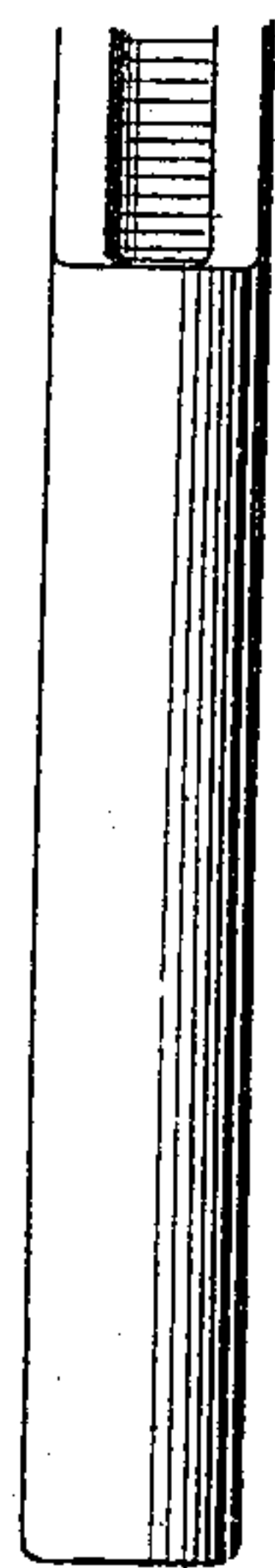


Fig. 2.



Inventor

W. H. Burr

Witnesses

G. L. Hochman
J. E. Wilson

by *A. B. Wilson & Co*

Attorneys.

UNITED STATES PATENT OFFICE.

WILLIAM H. BURR, OF PHILADELPHIA, PENNSYLVANIA.

CHAIN WRENCH.

SPECIFICATION forming part of Letters Patent No. 666,490, dated January 22, 1901.

Application filed September 6, 1900. Serial No. 29,150. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. BURR, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, and whose post-office address is No. 633 North Sixteenth street, in said city, have invented certain new and useful Improvements in Chain Wrenches; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention has relation to chain wrenches; and the object of the invention is to provide a device of this character by means of which the gripping-chain may be easily and quickly adjusted to accommodate the wrench to pipes of various diameters.

With this object in view the invention consists of certain features of construction and combination of parts, which will be hereinafter fully described and claimed.

In the accompanying drawings, Figure 1 is a side elevational view of my improved chain wrench, and Fig. 2 is a bottom plan view thereof.

In the said drawings, 1 denotes the lever of the wrench, having at one end an enlarged bifurcated head 2 and an offstanding portion or bracket 3, formed with a sinuous or irregularly-curved recess or passage 4.

5 denotes a chain the links of which are adapted to be engaged in the passage or recess and to be locked therein by a turn-button, latch, or other fastening device 6, pivoted to the wall 3^a of the offstanding portion or bracket. The chain is connected at one end to the bifurcated head 2 by means of a pin 7 passed through said chain and arms of the bifurcation, said pin being removable, so that after one side of the chain has been worn the chain may be detached to bring its other side into use. By constructing a chain wrench in this manner it will be seen that the chain may be easily and quickly adjusted to adapt it for application to pipes of different diameters. The recess or passage 4 in the head or offstanding portion 3 of the wrench preferably corresponds to a portion of the outline of the links of which the chain is composed, so that it will be impossible for the links to draw through the passage or recess in the act

of turning a pipe. As shown, this recess has a flaring outer end and a contracted inner end and center, the flaring outer end adapted to allow the link occupying the same to have slight independent movement and the contracted center and inner end to occupy the intermediate portions of the links and hold the same firmly by frictional engagement against withdrawal.

While I have shown a simple form of fastening device, which consists of a pivoted turn-button, I would have it distinctly understood that I do not wish to be limited in the present instance to such means for holding the chain in the recess, as I consider as falling within the scope of my invention any means whatsoever for preventing sidewise disengagement of the links with the head, or, in other words, any device for closing the recess and locking the chain therein.

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

1. A chain wrench comprising in combination a handle having a recess at one end, a chain, the links of which conform to the contour of the walls of said recess and are held therein against longitudinal movement by the said walls of the recess, and a fastening for closing the recess and to prevent lateral displacement of the link located in the recess, substantially as set forth.

2. A chain wrench consisting of a handle having at one end an offstanding bracket or portion provided with a sinuous or irregularly-curved recess or passage, a chain the links of which are adapted to be seated in said recess or passage and to be held by the walls of the recess against longitudinal movement, and means for preventing lateral displacement of the link located in the recess, substantially as set forth.

3. A chain wrench consisting of a handle having a sinuous or irregularly-curved recess or passage, a chain the links of which are adapted to be seated in said recess or passage and to be held by the walls of the recess against longitudinal movement, and means for preventing lateral displacement of the link located in the recess, substantially as set forth.

4. A chain wrench comprising a handle having a recess open at one side and opposite ends,

- a chain having links adapted to be inserted into and withdrawn from the recess through said open side thereof and to be retained therein against longitudinal movement by frictional engagement with the walls of the recess, and means for closing the open side of the recess to prevent lateral displacement of the link located therein, substantially as set forth.
- 10 5. A chain wrench having a recess, a chain, the walls of the recess being adapted to occupy the intermediate concaved portion of a link of the chain to prevent longitudinal movement thereof, and means for confining the chain within the recess, substantially as set forth. 15
- In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.
- WILLIAM H. BURR.
- Witnesses:
W. K. SHEAFER,
F. W. SHEAFER.