

No. 677,937.

Patented July 9, 1901.

W. H. BURR.

WRENCH.

(Application filed May 9, 1901.)

(No Model.)

Fig. 1.

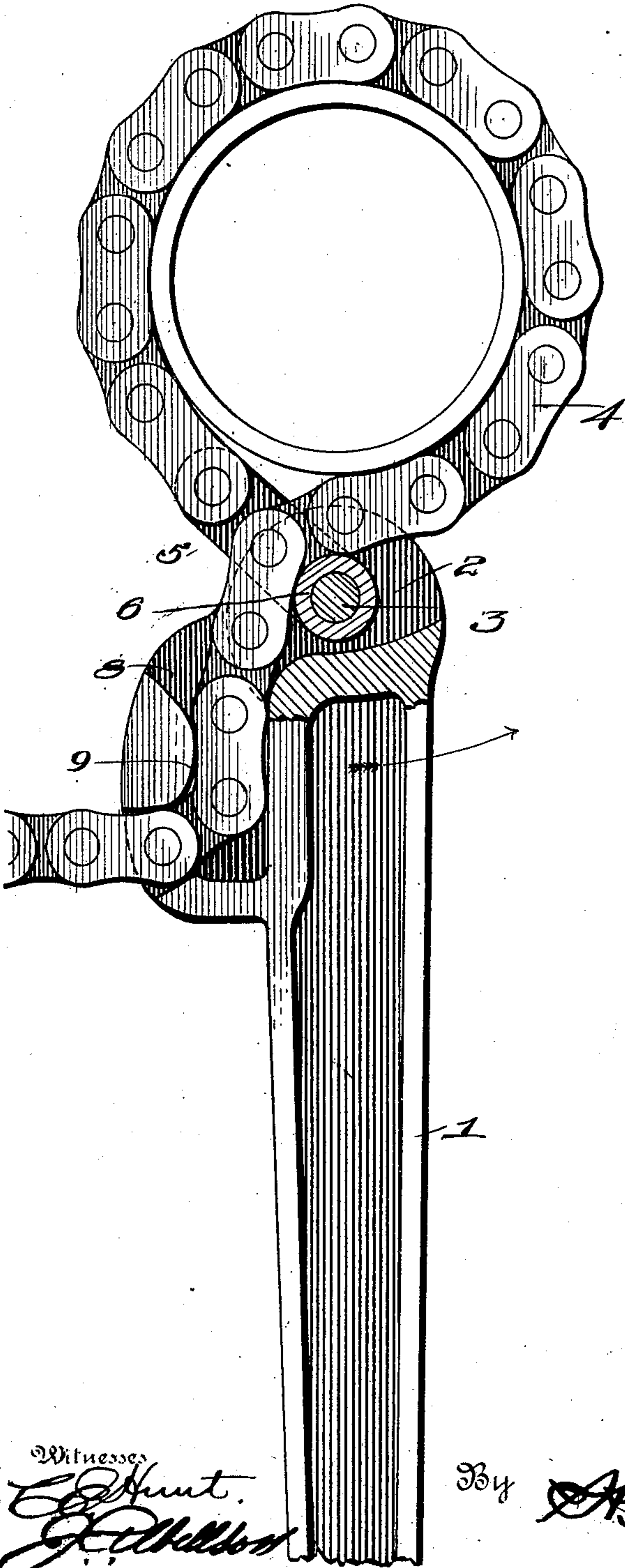
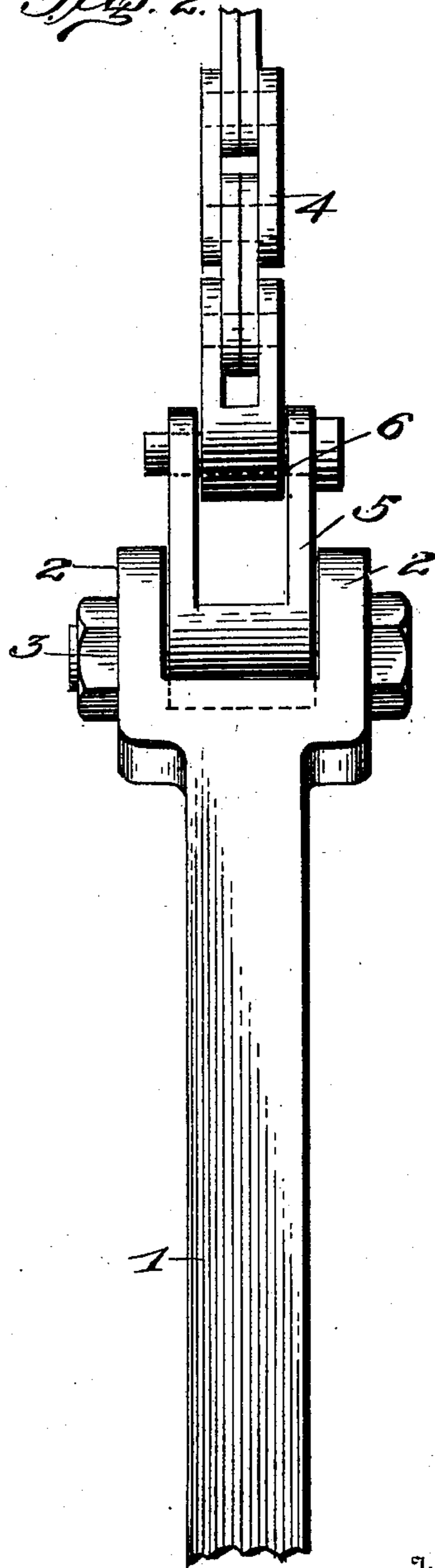


Fig. 2.



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Witnesses

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UNITED STATES PATENT OFFICE.

WILLIAM H. BURR, OF PHILADELPHIA, PENNSYLVANIA.

WRENCH.

SPECIFICATION forming part of Letters Patent No. 677,937, dated July 9, 1901.

Application filed May 9, 1901. Serial No. 59,437. (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, have invented certain new and useful Improvements in 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.

The invention relates to pipe-wrenches.

The object of the invention is to provide a strong, durable, and comparatively inexpensive wrench of this character which shall be efficient in operation and which will reduce to a minimum the liability of marring or bruising the pipe being operated upon.

With this and other objects in view the invention consists of certain novel features of construction, combination, and arrangement of parts, which will be hereinafter more fully described, and particularly pointed out in the appended claim.

In the accompanying drawings, Figure 1 is a side elevation of my improved wrench, one of the ears being broken away to more clearly illustrate the invention; and Fig. 2 is a fragmentary top plan view.

In the accompanying drawings, 1 denotes a handle of proper length and weight formed at its outer end with parallel ears 2, perforated to receive a bolt 3. 4 denotes a chain, and 5 denotes a yoke pivoted upon said bolt 3 between said ears 2 and connected to one of the links of the chain by a removable pin 6. The connection of the yoke to the ears 2 is preferably effected by constructing said yoke with an integral tubular head, which is located between the ears 2, through which and the tubular head extends the bolt 3. In use the free end of the chain is connected to the wrench-lever, so as to prevent longitudinal movement of said chain. The other end is then passed up through the yoke around the pipe to be operated upon and is then connected to the free end of the yoke by pins 6.

Now by moving the lever in the direction of the arrow shown in Fig. 1 the chain will be tightly clamped to the said pipe, and by reason of the fact that the ears or end of the lever does not come in contact with the pipe marring of the pipe due to this cause is entirely obviated. The means for connecting the free end of the chain to the lever preferably consists in forming the lever with a bracket 8, having a sinuous or irregularly-curved recess or passage 9, as shown and described in my Patent No. 666,490, dated January 23, 1901, and forms no part of my present invention.

From the foregoing description, taken in connection with the accompanying drawings, the construction, mode of operation, and advantages of my invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion, and details of construction may be made within the scope of the invention without departing from the spirit or sacrificing any of the advantages thereof.

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

A chain wrench comprising a lever formed with parallel ears at one end, a yoke consisting of a tubular head and parallel arms, said head being located between said ears, a bolt extending through said ears and the tubular head, a chain, one end of which is removably connected to the free ends of said yoke, and the other end of which is adapted to pass between the parallel arms of the yoke and to be removably connected to the handle, substantially as set forth.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

WILLIAM H. BURR.

Witnesses:

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