(No Model.)

W. H. BROCK.

CHAIN WRENCH.

No. 250,641. Patented Dec. 13, 1881.

Fig 4.

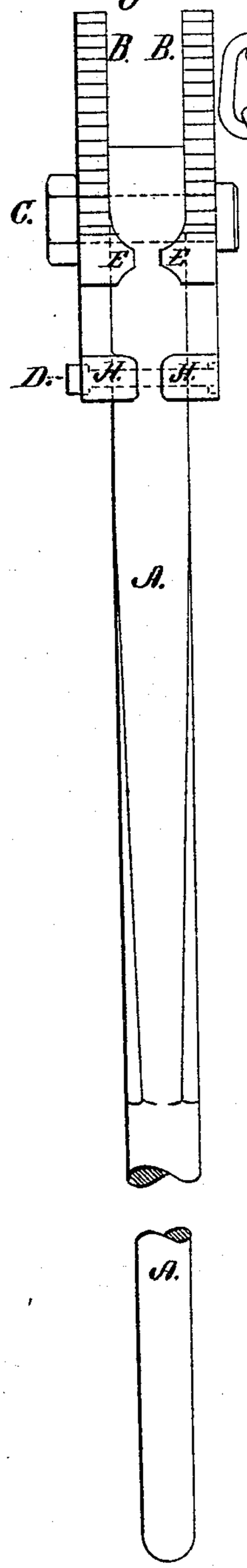


Fig 1.

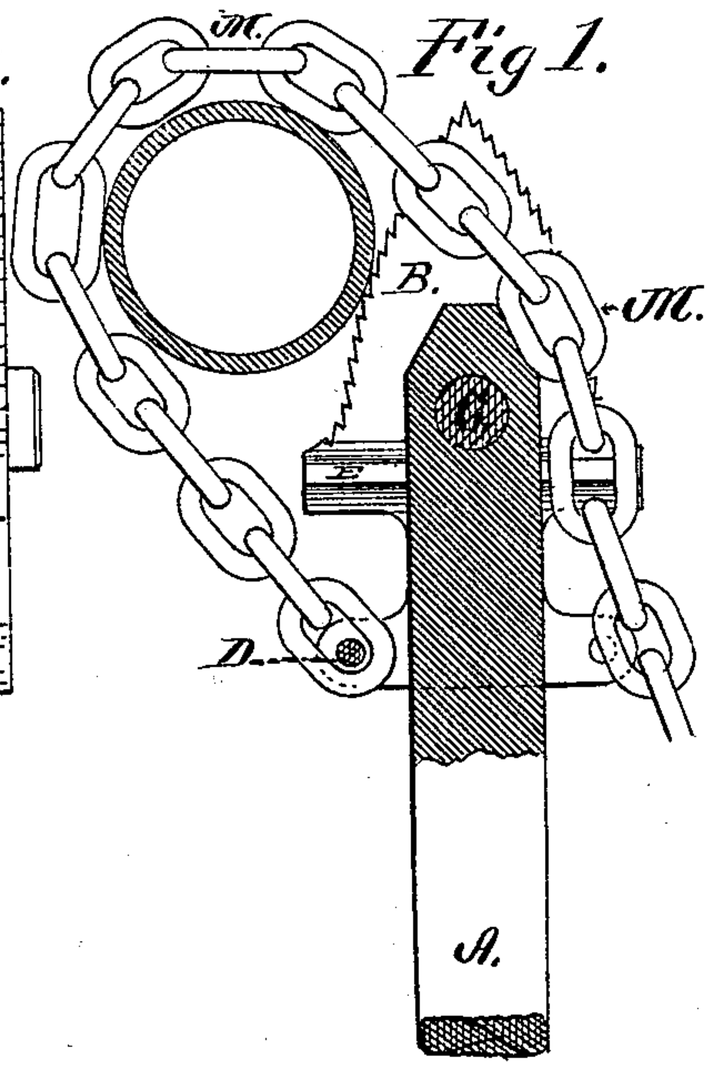


Fig 2.

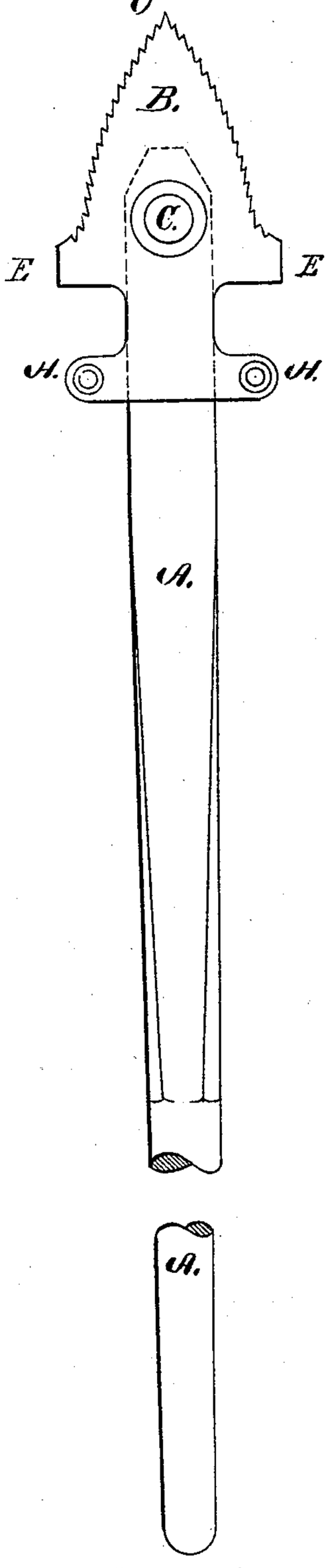


Fig 3.

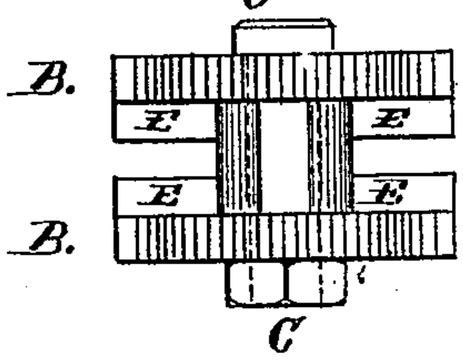
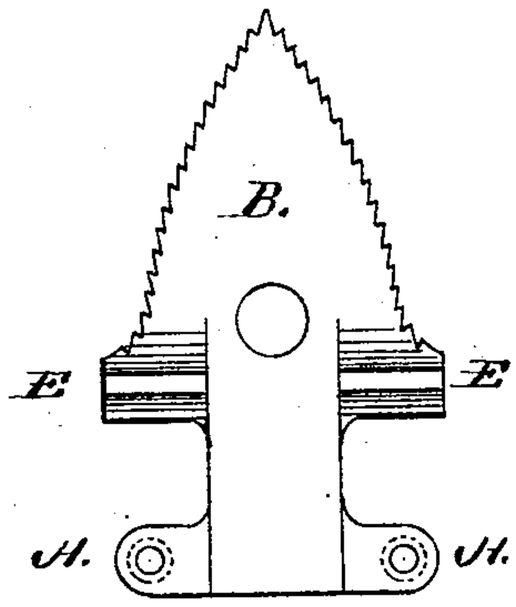


Fig 5.



Witnesses.

Samuel J. Cohen.

Pierre F. Spencer

Inventor.

William H. Brock.

per Alexander H. Wright Atty.

UNITED STATES PATENT OFFICE.

WILLIAM H. BROCK, OF CORONA, NEW YORK.

CHAIN-WRENCH.

SPECIFICATION forming part of Letters Patent No. 250,641, dated December 13, 1881.

Application filed November 2, 1881. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. BROCK, of Corona, in the county of Queens, in the State of New York, have invented new and useful Improvements in Chain-Wrenches, which are fully and clearly set forth in the following specification and drawings annexed.

The object of my invention is, by original and peculiar construction, arrangement, and combination, to provide a handy and practical appliance or instrument for loosening or tightening joints in pipes, the manipulation of nuts, and for other like purposes, wherein at the same time are embraced the important features of simplicity, cheapness, and strength.

Figure 1 of the annexed drawings is a vertical central sectional view, Fig. 2 a side and Fig. 3 a top view, of the instrument. Fig. 4 is a front view, while Fig. 5 represents a side view of the jaw.

In this invention the jaws B are made with claws E and lugs H, projecting laterally, as shown in Fig. 2, and likewise introprojecting, as shown in Fig. 4, so as in fact and respectively to form slots for the reception in close-fitting contact of the shank A, to which the jaws are rigidly secured by assembly-bolt C. By this novel construction the claws E, while ancillary in holding in place the shank A, supply a natural and effective means of holding fast the chain when the instrument is put in use.

By this device it is also readily seen, whenever the wrench is placed upon the object to be operated upon and power is applied, that the lugs H upon the upper and opposite edge of the jaws are forced down upon the lever or shank A, so that the jaws and shank are tightly held in place, and the delay incident to the removal of another bolt in case of the necessary removal of the jaws for whatever purpose is thus avoided, the lugs H taking the place of a second bolt.

The shank A is made of one continuous bar of steel, suitably fashioned at one end for a handle, with the other squared to accurate adjustment to the lugs and claws of the jaws B, while its mass of metal is preserved intact, save the single perforation for the admission of the bolt C.

It is thus evident that a wrench with its shank constructed as herein described has the twofold advantage of great strength and cheapness of manufacture.

The novelty of the double jaws B with their entire edges serrated, the method of fastening the stationary end of chain by pivot D to either face of jaw corresponding to edge of jaw employed, and the means of locking chain by the introprojecting sides or edges have already been secured to me by Patent No. 247,987, granted October 4, 1881.

What I herein claim as my invention, and seek to secure by Letters Patent, is—

The combination, in a chain-wrench, of two detachable serrated double jaws, B, with claws E for locking the chain, and lugs H for holding the shank, made as shown in the accompanying drawings, the shank A, bolt C, pin D, and chain M, all substantially as and for the purposes set forth.

WILLIAM H. BROCK.

Witnesses:
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ROSWELL W. KEENE.