(No Model.)

C. H. HAMILTON.

COMBINED AXLE CLEANER AND WRENCH.

No. 254,643. Patented Mar. 7, 1882.

Fig. 1.

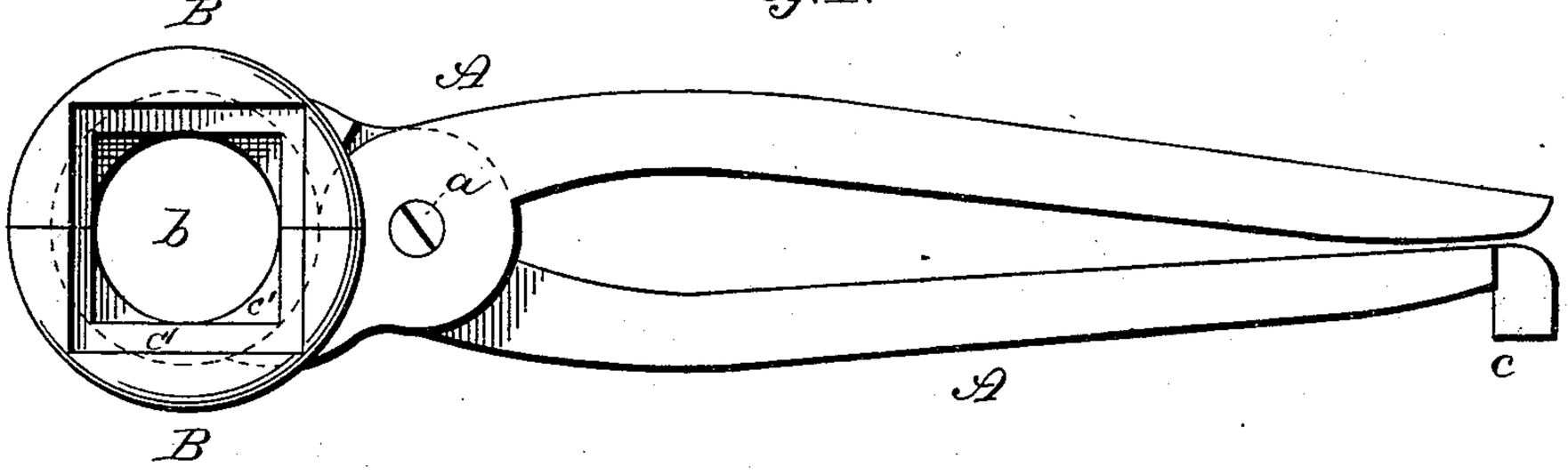


Fig. 2.

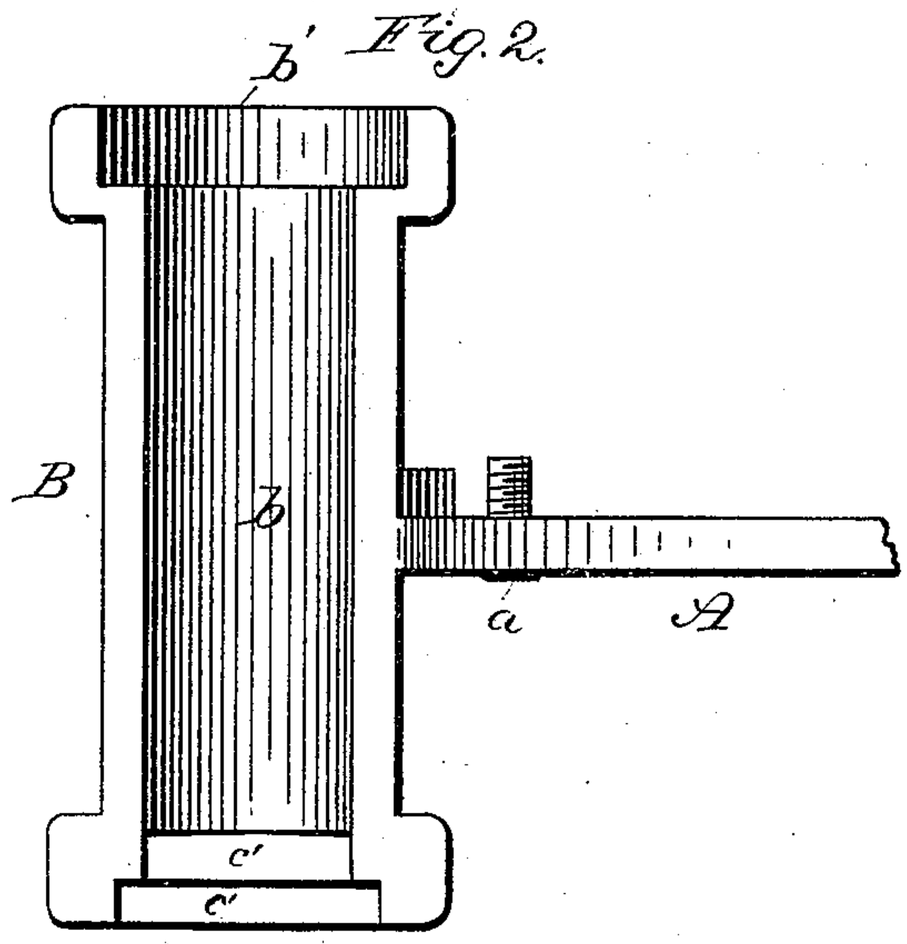
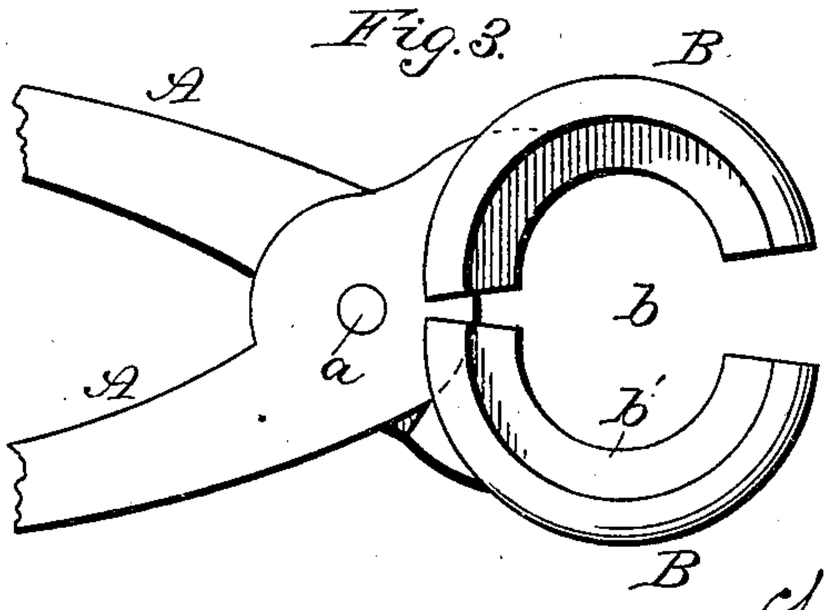


Fig. 3.



Witnesses:
J. W. Garner.
W. L. D. Haines.

Inventor:
Charles H. Hamilton.
by H. G. Thom.
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UNITED STATES PATENT OFFICE.

CHARLES H. HAMILTON, OF THREE MILE BAY, NEW YORK.

COMBINED AXLE CLEANER AND WRENCH.

SPECIFICATION forming part of Letters Patent No. 254,643, dated March 7, 1882.

Application filed January 23, 1882. (No model.)

To all whom it may concern:

Be it known that I, CHARLES H. HAMILTON, a citizen of the United States, residing at Three Mile Bay, in the county of Jefferson and State of New York, have invented certain new and useful Improvements in Combined Axle Cleaner and Wrench, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to a new article of manufacture consisting of a combined axle-wrench and axle-cleaner, the details of which will be hereinafter fully set forth.

In the drawings, Figure 1 is a side view of the tongs; Fig. 2, a view of one of the jaws, and Fig. 3 a view of both the jaws.

A A are tongs pivoted across each other at *a*, and having elongated semicircular jaws B formed upon the end of each arm, as shown. Extending through the length of the jaws is a hole, *b*, in which the axle is placed. Around one end of the hole is an annular groove, *b'*, which fits up close against the shoulder of the axle. Upon the opposite end of the hole are two or more rectangular grooves, *c' c'*, by which the nut is removed. By making more than one rectangular groove in the ends of the jaws a larger number of sizes of nut can be unscrewed. At the ends of the jaws where the grooves are formed the shoulders are formed around the jaws to give additional strength to them. Upon one arm of the tongs is formed a rectangular projection, *c*, by which the dirt is cleaned from the axle-groove.

The operation of the device is readily understood. The nut is removed by the wrench formed in one end of the jaws, and the axle can then be cleaned by catching it with the jaws.

What I claim is--

An axle wrench and cleaner consisting of the arms A A, pivoted across each other at *d*, and having a hollow semicircular jaw, B, upon each arm, said jaws having formed in one end an annular groove, *b'*, and in the other end rectangular grooves *c'*, adapted to clinch an axle-nut, substantially as set forth.

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

CHARLES H. HAMILTON.

Witnesses:

JOHN SELTER,

JACOB SNELL.