(No Model.)

W. H. F. RAIFSNYDER.

AUGER HANDLE.

No. 350,841. Patented Oct. 12, 1886.

Fig. 1

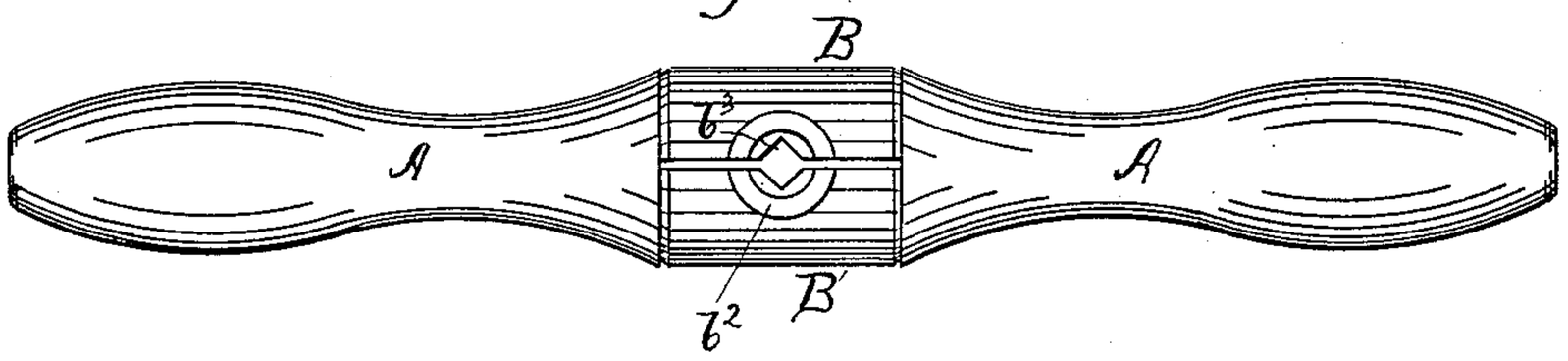


Fig. 2.

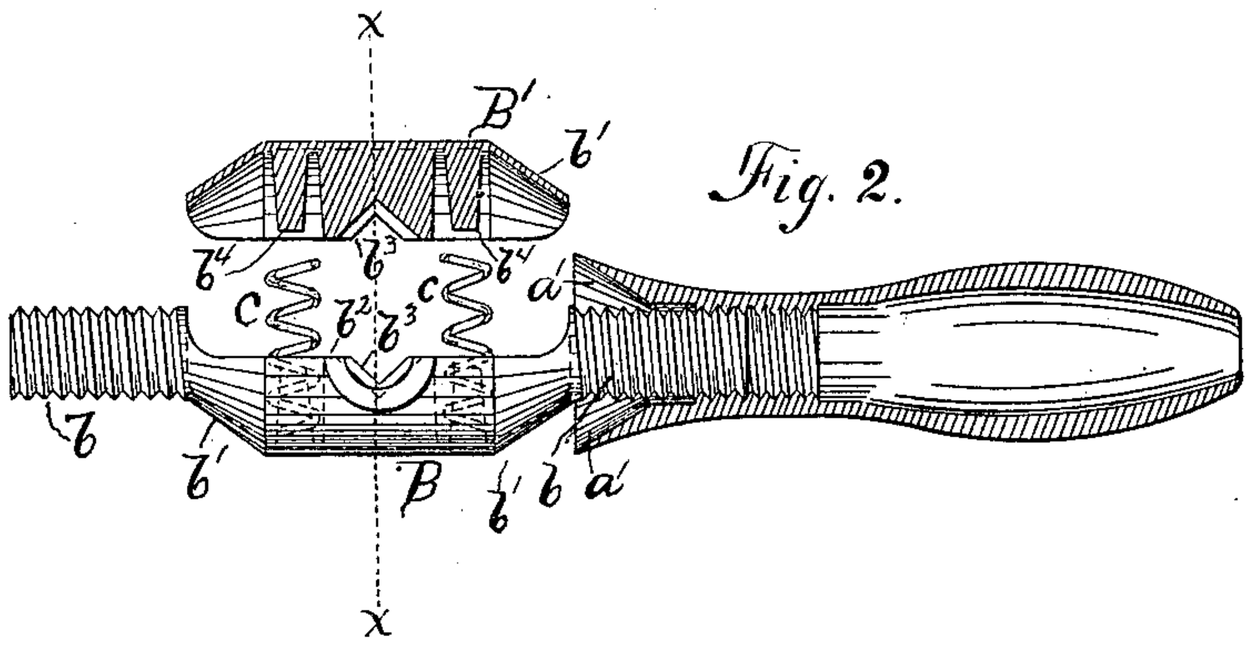
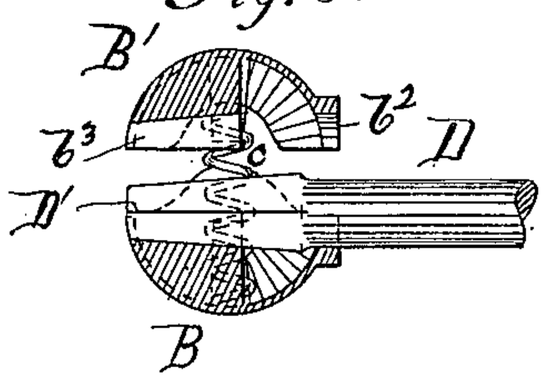


Fig. 3.



Witnesses,
D. F. Holden.
W. Stearns

Inventor.
W. H. F. Raifsnyder
Per: Wallace & Wallace
Att's.

UNITED STATES PATENT OFFICE.

WILLIAM H. F. RAIFSNYDER, OF OIL CITY, PENNSYLVANIA, ASSIGNOR OF ONE-HALF TO JAMES W. PLIMPTON, OF SAME PLACE.

AUGER-HANDLE.

SPECIFICATION forming part of Letters Patent No. 350,841, dated October 12, 1886.

Application filed December 22, 1885. Serial No. 186,429. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. F. RAIFSNYDER, a citizen of the United States, residing at Oil City, in the county of Venango and State of Pennsylvania, have invented certain new and useful Improvements in Auger-Handles; and I do hereby 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.

This invention relates to auger-handles; and it consists in certain improvements in the construction thereof, as will hereinafter fully appear.

The invention is illustrated in the accompanying drawings, as follows:

Figure 1 is a view of the auger-handle complete, looking at the lower side. Fig. 2 shows the various parts composing the handle, part in horizontal section and part in elevation. Fig. 3 is a transverse section on the line *x x* in Fig. 2, showing the parts B B′ separated as in that figure and the auger-stem in place.

A A are the ends of the handle. B B′ compose the middle section of the handle, in which the auger-stem is held. The middle section is bifurcated longitudinally, thus forming the parts B B′. The part B is provided with screw-shanks *b b*, onto which the end pieces screw. The parts B B′ have inclined ends *b′*, and the end pieces, A, have flaring mouths *a′*, which fit upon the inclined ends *b′*, so that when the end pieces are screwed entirely upon the middle section the two parts B B′ are held together, as seen in Fig. 1. The parts B B′ are cast hollow, and each has on its inner wall cone-shaped lugs b^4, which set in coiled springs C C. These springs are to open or spread apart the two parts B B′ when the handle ends are unscrewed. On the under side of each piece B B′, and in the middle thereof, there is a semicircular notch, b^2, and on the upper side, and opposite the notch on the lower side, there is a rectangular notch, b^3, and these notches, when the parts are brought together, will embrace the end of the auger-stem. The semicircular notches embrace the round neck of the stem just below the head, and the angular notches embrace the squared end or head of the stem, and therefore the auger-stem cannot turn within the handle nor be pulled out of the handle. To give a firm bearing for the squared head, I form a lug of metal on the inner walls of the parts B B′ at the point where the angular notches are formed. The two parts B B′, it will be seen, form a clamp, which is closed by the inclined surfaces *a′* on the end pieces, A, moving upon the inclined surfaces *b′* on the middle pieces, B B′, as the end pieces are screwed onto the screw-shanks *b b* on the part B. The clamp is opened by unscrewing the end pieces and allowing the spring C to move the part B′ away from the part B. It will only be necessary to unscrew the pieces A A far enough to allow the clamp to open enough to let the head of the auger-stem slip out.

The handle will be made of malleable cast-iron, and will be so cored out as to make it very thin and light.

I am aware of the construction shown in Letters Patent No. 309,313, to William A. Peck, dated December 16, 1884, and I hereby disclaim the same as forming any part of my invention.

What I claim as new is—

1. In an auger-handle, the combination, with the end pieces or handles, A A, of a clamp located between said end pieces and operated thereby, which is provided with jaws which are formed to receive the squared head of the auger-stem and embrace the neck below the head, and thereby hold the auger against both torsional and longitudinal movement.

2. In an auger-handle, the combination, substantially as herein shown, of the auger-stem clamp B B′, with screw-threaded shanks *b b* and sloping shoulders *b′ b′*, and the handles A A, screwing onto the shanks *b b*, and embracing said sloping shoulders *b′ b′* with their flaring mouths *a′ a′*.

3. In an auger-handle, the combination, substantially as herein shown, of the handles A A, having internal screw-threads, *a a*, and flaring mouths *a′ a′*, with the clamping-section, consisting of the jaws B B′, having sloping shoulders *b′ b′* at their ends, screw-shanks *b b* at the ends of the jaws B′, notches b^2 b^3 on the jaw-faces, spring-seating lugs b^4 within the jaw-cavities, and the contained springs C C.

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

W. H. F. RAIFSNYDER.

Witnesses:

F. W. HAYS,

JAMES W. PLIMPTON.