D. C. Stone,

Auger Handle.

No. 3,949. Patented Mar. 12, 1845.

Fig. 1.

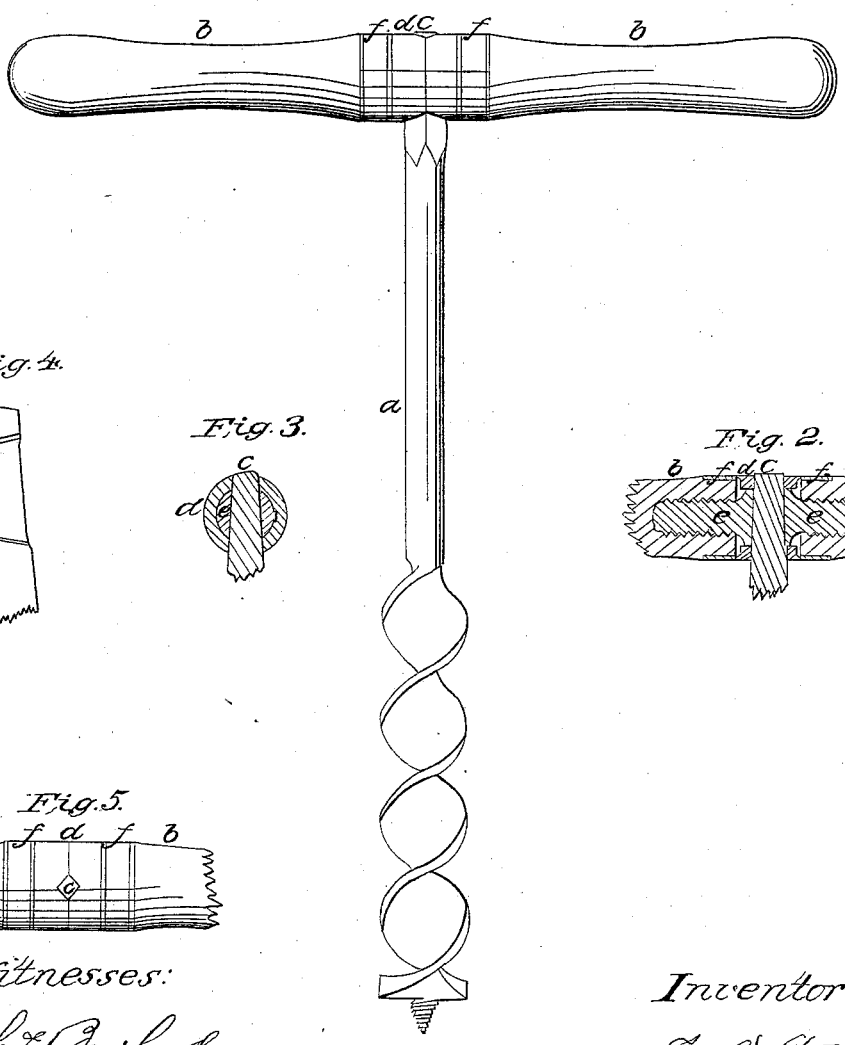

Fig. 4.

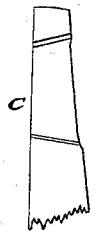

Fig. 3.

Fig. 2.

Fig. 5.

Witnesses:

Chas. Brothwell

John A. Way

Inventor:

D. C. Stone.

UNITED STATES PATENT OFFICE.

D. C. STONE, OF WAWARSING, NEW YORK.

AUGER-HANDLE, &c.

Specification of Letters Patent No. 3,949, dated March 12, 1845.

To all whom it may concern:

Be it known that I, DEMMON C. STONE, of Napanack, town of Wawarsing, Ulster county, State of New York, have invented and made and applied to use certain new and useful improvements in the constructing and fitting auger-handles and the shanks or tongs of auger-bits, such improvements being intended to fit a set of three or not exceeding four handles, so that this number shall be enough for use with a set comprising every usual size of auger-bits and that each bit may be readily and securely attached for use and quickly detached and packed, for transport, which improvements I collectively term "Stone's improved changeable auger handles and bits," and for which I seek Letters Patent of the United States, and that the said improvements and the construction and fitting of the same are fully and substantially set forth and shown in the following description and in the drawings annexed to and making part of this specification, wherein—

Figure 1, shows an auger and handle fitted together for use. Fig. 2, is a vertical section of the constructive parts as in place, lengthwise of the handle, Fig. 3 is a like cross section of the same parts across the center of their length. Fig. 4, shows the mode of forming the upper end or what has been termed the "tang" of the auger and Fig. 5 shows all the parts in place as seen from above the handle and the same letters as marks of reference apply to the like parts in all the figures.

a, is the auger bit and shank terminated by a proportionally sized, squared and tapered top or tang *c*, two sides of which are countersunk to form a diagonal lip at each end of the countersink and these lips are cut at such an angle that when the tang *c*, is placed in the mortise in the metal center cylinder *e*, the lips shall overlie and fit on the edges of the mortise. The cylinder *e*, has the mortise made diagonally to the length of the handle and taper to fit the tang, as seen in the figures. A metal sliding collar *d*, with a groove to receive a rib on the center cylinder *e*, as seen in Fig. 3, is made with a tapered mortise through two sides to correspond with the mortise in the cylinder *e*. This cylinder *e* is elongated and reduced so as to receive a screw thread on each end. The half handles *b*, *b*, of any suitable wood are bored out and fitted with a female screw to receive the screw shafts on the ends of the cylinder *e*, and each half handle *b*, has a metal collar *f*, on the bored end to prevent it splitting in use. When the parts thus made and accurately fitted are placed together for use, with the tang *c*, entered through the tapered mortise in the cylinder *e*, and collar *d*, with the lips on the tang placed toward either end of the cylinder *e*, the half handle *b*, at the opposite or straight side of the tang, is then to be screwed up so as to slide the collar *d*, and make that set the lips on the opposite sides of the tang over the corresponding edges of the mortise in the cylinder *e*, the other half handle is then to be screwed up to place, and the tool is ready for use, but no force short of fracture in the parts, will detach the tang from the mortise until the workman unscrews the half handles, when he can either pack the tool away for safety, or transport, or substitute another bit for use as he may require.

I do not claim to have invented an anger bit or a handle, nor do I claim any of the parts employed herein taken separately from the use to which I have herein applied them. But

I do claim as new and of my own invention and desire to secure by Letters Patent—

The application of the tapered tang *c*, with two countersunk sides forming diagonal lips to overlie two edges of a corresponding mortise in the center cylinder *e*, in combination with the sliding collar *d*, driven on by either half handle *b*, when screwed up, so as to place and hold the lips of the tang over the edges of the mortise and thereby hold the auger bit securely in the handle at the same time facilitating the separation and exchange of the parts the whole constructed and operating substantially as herein described.

In witness whereof, I the said DEMMON C. STONE have hereunto set my hand and seal in Wawarsing aforesaid, in the presence of the witnesses subscribing hereto, this twenty-fifth day of December, one thousand eight hundred and forty-four.

D. C. STONE. [L. S.]

Witnesses:

CHAS. BRODHEAD,

JOHN WAY.