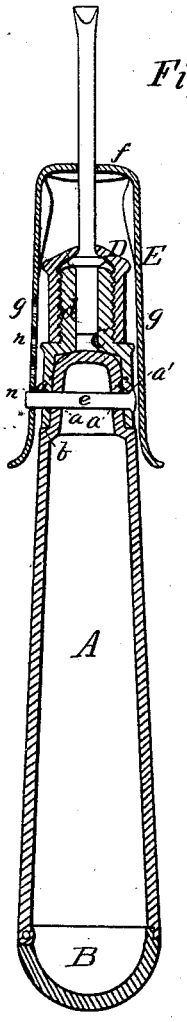
G. W. PHENIX.

AWL-HANDLE.

No. 191,463. Patented May 29, 1877.

Fig. 1,



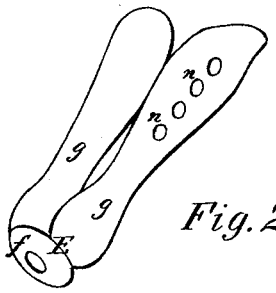


Fig. 2,

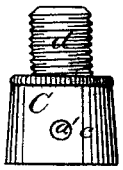


Fig. 3,

WITNESSES

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GEORGE W. PHENIX, OF NEW BRUNSWICK, NEW JERSEY.

IMPROVEMENT IN AWL-HANDLES.

Specification forming part of Letters Patent No. **191,463**, dated May 29, 1877; application filed December 30, 1876.

To all whom it may concern:

Be it known that I, GEORGE W. PHENIX, of New Brunswick, in the county of Middlesex and State of New Jersey, have invented a new and valuable Improvement in Brad-Awl Handles; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a central longitudinal section of this invention. Fig. 2 is a perspective view of the gage detached. Fig. 3 is a side view of the cap detached.

This invention has relation to handles for brad-awls and other small instruments; and it consists in the construction and novel arrangement of the cap adapted to be pinned to the handle, the screw-thimble, and the gage attachment, as hereinafter shown and described.

In the accompanying drawings, the letter A designates the handle, which is made hollow, and provided with a hinged cover, B, which is held closed by means of a spring-catch. At the tool end the handle is transversely perforated at *a*, and below this a shoulder, *b*, is formed.

C represents the cap, consisting of the rim portion *c*, which fits upon the end of the handle, against the shoulder *b*, and the bit *d*, which extends upward, and is threaded upon its exterior surface.

The rim *c* of the cap is provided with perforations *a'*, through which and through the perforations of the handle the fastening-pin *e* is passed, its end projecting somewhat beyond the side of the cap, as shown in the drawings. D indicates the screw-thimble, having a central aperture in its top, through which the awl-blade is passed after its tang has been seated in the bit of the cap. The thimble is then screwed down on the bit end of the cap, and the instrument thereby held securely in place.

E represents the gage. This consists of a perforated head, *f*, and two branches, *g*, which pass one on each side of the handle, when the blade is put through the aperture of the head. In one of the branches a series of perforations, *n*, are formed, and when the head of the gage is adjusted to the proper position on the blade, it is fixed in place by the engagement of the projecting end of the fastening-pin with one of said perforations *n*. This gage is made of sheet metal having some elasticity, and it can therefore be readily adjusted according to requirement.

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

1. The combination, with the awl-handle A and screw-thimble D, of the cap C, having the rim *c* and screw-bit *d*, and the pin *e*, substantially as specified.

2. The combination, with the awl-cap C, pin *e*, and handle A, of the branched gage E, having the series of perforations *n*, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

GEORGE W. PHENIX.

Witnesses:

GEO. C. SHELMERDINE,

ALLEN H. GANGEWER.