

R. NESBITT.
Expansible-Wedges.

No. 153,009.

Patented July 14, 1874.

Fig. 1.

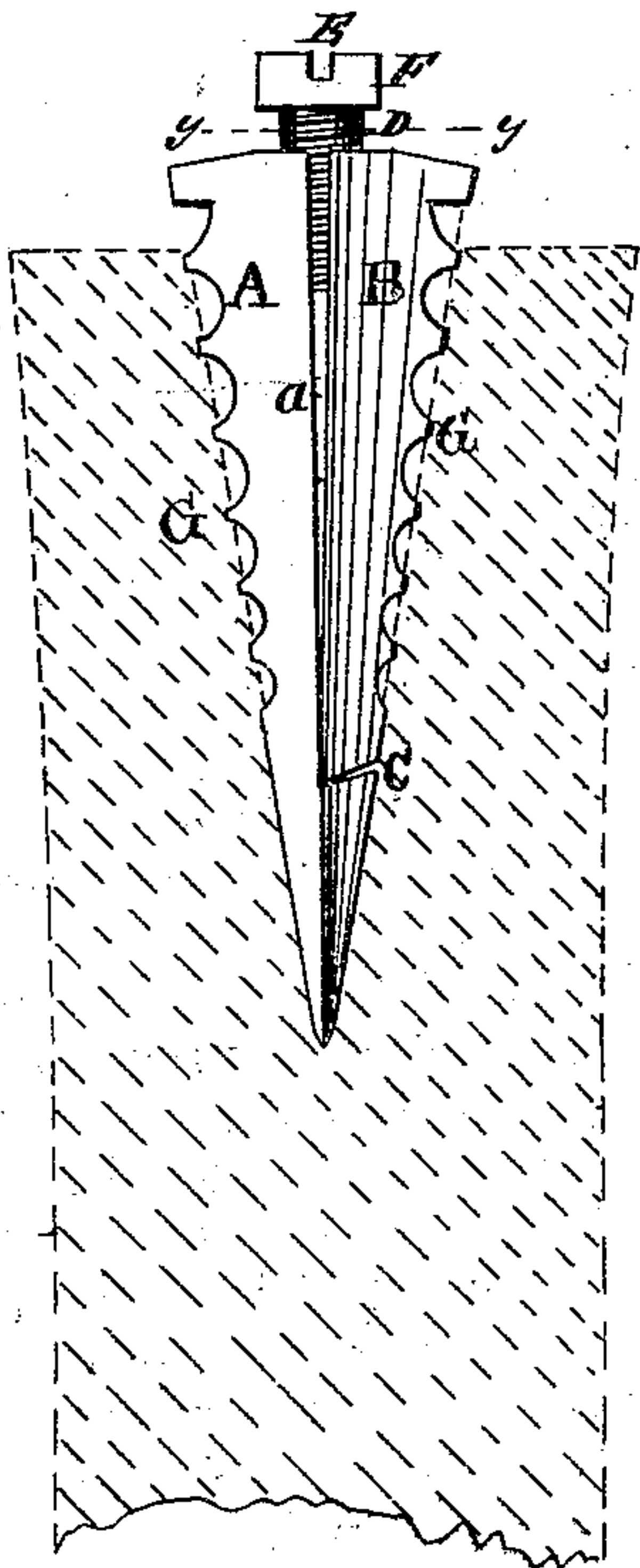


Fig. 2.

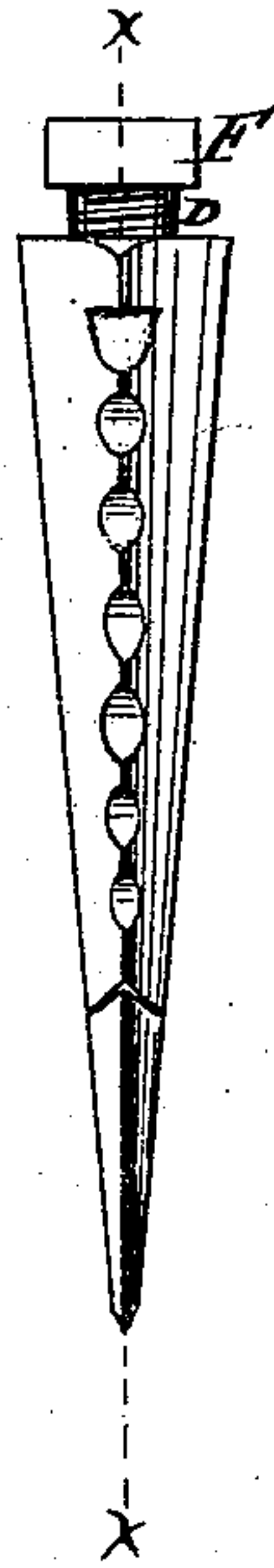


Fig. 3.

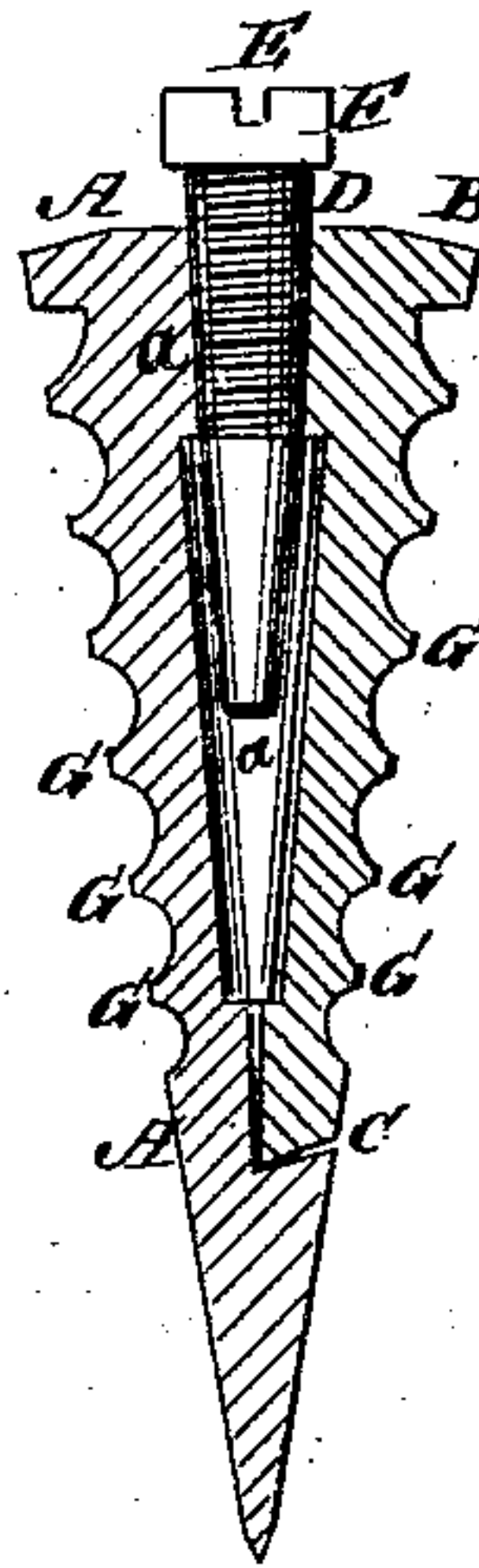
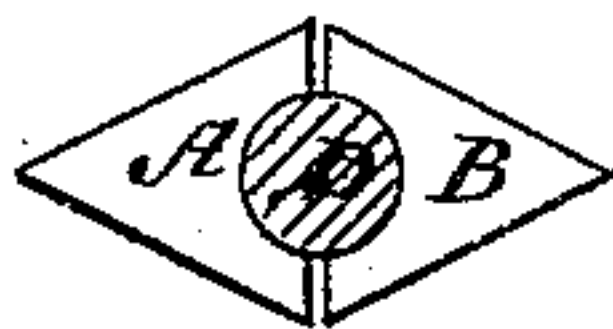


Fig. 4.



WITNESSES:

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UNITED STATES PATENT OFFICE.

ROBERT NESBITT, OF FRANKLIN, PENNSYLVANIA, ASSIGNOR TO HIMSELF
AND J. E. TIKIOB, OF SAME PLACE.

IMPROVEMENT IN EXPANSIBLE WEDGES.

Specification forming part of Letters Patent No. **153,009**, dated July 14, 1874; application filed
May 23, 1874.

To all whom it may concern:

Be it known that I, ROBERT NESBITT, of Franklin, Venango county, Pennsylvania, have invented a new and useful Improvement in Expansible Wedges, of which the following is a specification:

This invention relates to the construction of wedges for handles of axes, hammers, and similar tools, and consists of a wedge made in two parts, which are expanded by means of a screw.

In the drawing, Figure 1 is a side view, showing the wedge as when applied to a handle; Fig. 2 is an edge view of the wedge; Fig. 3 is a longitudinal section of Fig. 2, taken on the line *x x*; Fig. 4 is a transverse section of Fig. 1 at *y y*.

Similar letters of reference indicate corresponding parts.

This wedge is composed of two tapering pieces, triangular in cross-section, having the outer edge of each piece serrated to prevent withdrawal.

A is the principal piece. B is the shorter piece. The longer part A is spear-shaped or pointed, and extends down into the handle, and has a bevel shoulder, C, which receives the small end of the part B. These two parts are made of either cast or wrought metal, with an interior half-recess in each, which receives the expanding-screw D. The screw D

is tapering, and engages with a tapering female screw, cut between the two parts of the wedge, as seen in Fig. 1. The screw is driven down into the recess *a* by means of a screw-driver applied to the nick E of the head F, and the parts A B are spread apart or expanded in the eye of the tool, so that the tool will not become loosened on the handle. In case the handle shrinks, the tool is readily made tight by turning the expanding-screw. G represents the teeth or points of the edges of the wedge. As the wedge is expanded these teeth or points penetrate the wood and prevent the wedge working out.

This expansible wedge may be applied to all tools and implements which require a wedge to secure the tool to the handle, and its advantages must be obvious to all.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

A wedge constructed substantially as shown and described, that is, composed of two pieces, A B, having an interior recess or cavity, *a*, and one or more serrated edges or points, G, and a tapering expanding-screw, D, substantially as and for the purposes described.

ROBERT NESBITT.

Witnesses:

P. G. WOODS,

JOHN MCALISTER.