

E. A. LELAND.
WOOD-SCREW.

No. 178,309.

Patented June 6, 1876.

Fig. 1.

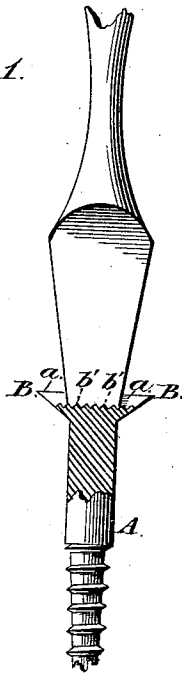
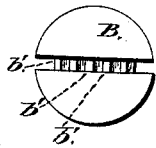


Fig. 2.



Witnesses:
Myrdner
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UNITED STATES PATENT OFFICE.

EDWIN A. LELAND, OF NEW YORK, ASSIGNOR TO LEONARD RICHARDSON,
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IMPROVEMENT IN WOOD-SCREWS.

Specification forming part of Letters Patent No. **178,309**, dated June 6, 1876; application filed
February 15, 1876.

To all whom it may concern :

Be it known that I, EDWIN A. LELAND, of the city, county, and State of New York, have invented an Improvement in Wood-Screws, of which the following is a specification:

This invention consists of a wood-screw, the nick or groove in the head of which is serrated at its bottom in such manner that a screw-driver correspondingly serrated at its end or holding edge, will be kept from slipping laterally from the nick or groove aforesaid in the operation of driving the screw.

Figure 1 is a sectional view of a screw made according to my invention. Fig. 2 is a plan view of the same.

The shank A of the screw is threaded in the usual or in any suitable manner, and, in general, and with the exception hereinafter specifically set forth, the head B may be of any shape ordinarily adopted for wood-screws, the said head B being provided with the nick *a*, formed in the process or operation of manufacture by any known usual or suitable means. But this nick *a*, instead of having a smooth flat bottom, as is the case with the common wood-screw, has its bottom serrated or corrugated, as represented more fully in

Fig. 1, the alternating notches *a'* and ridges *b'* which make up the serrated or corrugated bottom, as aforesaid, of the nick or groove, being transverse to the latter, so that when a screw-driver, shown in Fig. 1, provided at its edge or holding end with alternating notches and projections, (in other words, made serrated,) is inserted in the nick *a* in the operation of driving the screw, the projections of the serrated edge of the driver will alternate with the ridges or most prominent parts of the serrated or corrugated bottom of the nick, and the driver is thus effectually prevented from slipping laterally from the head of the screw in the operation of driving, and such driving of the screw is, consequently, rendered much more convenient and effective than is possible with wood-screws made with nicks or grooves having smooth bottoms, in the usual manner.

What I claim as my invention is—

The wood-screw, having the bottom of its nick or groove *a* serrated or corrugated, substantially as and for the purpose set forth.

EDWIN A. LELAND.

Witnesses:

JAMES A. WHITNEY,
THOMAS C. CONNOLLY.