

I. S. RUSSELL.

Wood-Screws.

No. 146,023.

Patented Dec. 30, 1873.



Witnesses:

*Joel Hall
Heater Hall*

Inventor:

Israel Y. Russell

UNITED STATES PATENT OFFICE.

ISAAC S. RUSSELL, OF NEW MARKET, MARYLAND, ASSIGNOR OF ONE-HALF
HIS RIGHT TO HENRY R. RUSSELL, OF WOODBURY, NEW JERSEY.

IMPROVEMENT IN WOOD-SCREWS.

Specification forming part of Letters Patent No. **146,023**, dated December 30, 1873; application filed
August 7, 1873.

To all whom it may concern:

Be it known that I, ISAAC S. RUSSELL, of New Market, Frederick county, Maryland, have invented a Wood-Screw, of which the following is a specification:

The object of my invention is to make a wood-screw—that is, a screw of metal for screwing into wood—of such form that it will compress (in the direction of its length) the different portions of the piece, and also press together different pieces, through which it passes; and to effect this, I give to the thread a varying pitch, decreasing gradually from the point throughout the whole of its length, as is clearly represented by the accompanying drawing.

It is obvious that if a portion only of the threads have the gradually-decreasing pitch described, the effect of those threads would be the same—differing only in degree—as if all were of varying pitch; but

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

A wood-screw, with a thread of varying pitch, gradually decreasing from the point throughout the whole of its length, as shown and described.

ISAAC S. RUSSELL.

Witnesses:

JOEL HALL,
KATE HALL.