

C. L. Fehrensén,

Screw Taps.

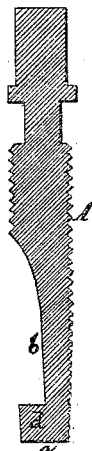
No. 98,943.

Patented Jan. 18. 1870.

Fig. 1.



Fig. 2.



Witnesses.

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# United States Patent Office.

CHRISTIAN L. FEHRENSSEN, OF NEW YORK, N. Y.

Letters Patent No. 98,943, dated January 18, 1870.

## IMPROVED SCREW-TAP.

The Schedule referred to in these Letters Patent and making part of the same.

*To all whom it may concern:*

Be it known that I, CHRISTIAN L. FEHRENSSEN, of the city, county, and State of New York, have invented a new and improved Screw-Tap; and I do hereby declare the following to be a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawing, forming part of this specification, in which drawing—

Figure 1 represents a front view of this invention.

Figure 2 is a longitudinal section thereof.

Similar letters indicate corresponding parts.

This invention relates to a screw-tap, provided with a single flat face, cut down at its deepest place to the centre (or nearly so) of the tap, and running up in a gradual curve to the circumference of said tap, in combination with a round guiding-nipple, formed by the body of the tap, between its tapering end and the flat face, in such a manner, that by said flat face two sharp cutting-edges are produced, and that a single tap is sufficient to cut a deep and perfect thread, said tap being held in the proper position, at the commencement of the operation, by the guiding-nipples.

In the drawing—

The letter A designates a screw-tap, which is made tapering toward its end *a*, so that on said end the screw-thread is entirely cut away, while on the upper part of said tap the thread is left intact, as shown.

Said tap is provided with a single flat face, *b*, which is cut down to the centre of the tap, or nearly so, and runs up in a gradual curve to the circumference thereof, as seen in the drawing, so that two sharp cutting-edges, *c*, are produced, which materially assist in forming the thread in the nut to be tapped.

That portion of the tap below the flat face is left round, so as to form a guiding-nipple, *d*, which serves to keep the tap in the proper position at the commencement of the operation.

By these means a screw-tap is obtained, which allows of cutting a perfect thread by a single operation, while with taps of the usual construction two or three different taps are required to obtain the desired result.

It is obvious that my improvement is applicable to taps with flat threads, as well as to such with V-shaped threads.

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

A screw-tap, provided with a single flat face, *b*, and a guiding-nipple, *d*, substantially as shown and described.

This specification signed by me, this 10th day of December, 1869.

CHRISTIAN L. FEHRENSSEN.

Witnesses:

W. HAUFF,  
E. F. KASTENHUBER.