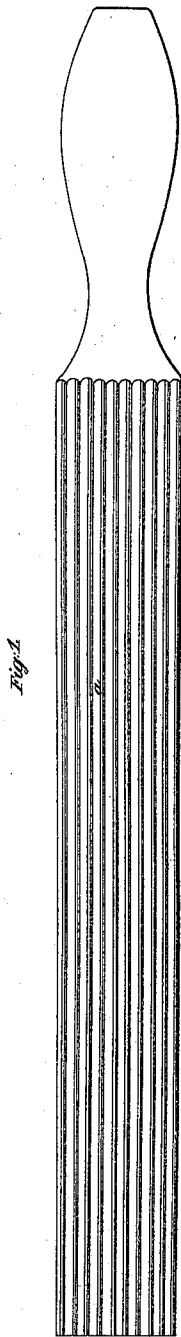


E. J. POST.
MODE OF MAKING SCYTHE RIFLES.

No. 14,367.

Patented Mar. 4, 1856.



UNITED STATES PATENT OFFICE.

EUGENE J. POST, OF VIENNA, NEW JERSEY.

SCYTHE-RIFLE.

Specification of Letters Patent No. 14,367, dated March 4, 1856.

To all whom it may concern:

Be it known that I, EUGENE J. POST, of Vienna, in the county of Warren and State of New Jersey, have invented a new and Improved Mode of Making Scythe-Rifles; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making part of this specification, Figure 1 being a side view of a scythe-rifle made in my improved manner; Figs. 2, 3, and 4, transverse sections thereof, exhibiting, respectively, different stages of the process of manufacture.

My invention consists in forming corrugations or alternate ridges and depressions lengthwise upon the surfaces of the rifle blade.

The blanks may first be prepared in the usual form. The two flat surfaces *a a*, of the blade are then corrugated lengthwise, or formed into alternate ridges and grooves, substantially as represented in Figs. 1 and 2, by cutting, pressing between corrugated rollers, or any other convenient means. The adhesive substance is then applied. If the blanks are made of hard wood, the glue, oil, or whatever substance may be employed, should be applied hot, so as to soften the surface of the wood; but if pine or other soft wood should be used, heating may not be required. The emery, sand, glass, or whatever grit is used, being first spread upon the surface, is embedded into the wood, by a suitable pressure, applied between rollers, or plates, whose surfaces fit the corrugated surfaces of the wood. This first coat will consequently have an outline of a similar form to the blank itself, as shown in Fig. 3. A second coat is then applied; and a

third coat also if desired. The latter coat, or coats, need not be applied with pressure, and will more or less fill up the depressions of the blade, and form a comparatively smooth surface, as indicated in Fig. 4.

Instead of first corrugating the sides of the blanks, the first coat of emery, or sand may be applied to a smooth blade, and then the corrugations formed by pressure, which will at the same time embed the sand into the wood. This I consider a mere modification of the mode of applying my invention.

Scythe rifles made in the above manner, retain the emery or sand with much greater tenacity than those made in the ordinary way, and for that reason are much more durable. And by employing the corrugations, the coat of grit will present cutting edges till the surfaces of the blades are worn below the bottoms of the grooves, and those edges being continually sharp, render the rifle self-sharpening, and hence equally effective in operation till all the emery is worn off. Thus it is not only many times more durable than the ordinary rifle, but has all the superiority of a new rifle from first to last, while its cost is but a trifle increased.

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

Corrugating the surfaces of scythe rifles, substantially in the manner and for the purposes herein set forth.

The above specification of my new and improved mode of making scythe rifles, signed by me this fourteenth day of December, 1855.

EUGENE J. POST.

Witnesses:

WM. LOSEY,
JOHNSON J. CUMMINS.