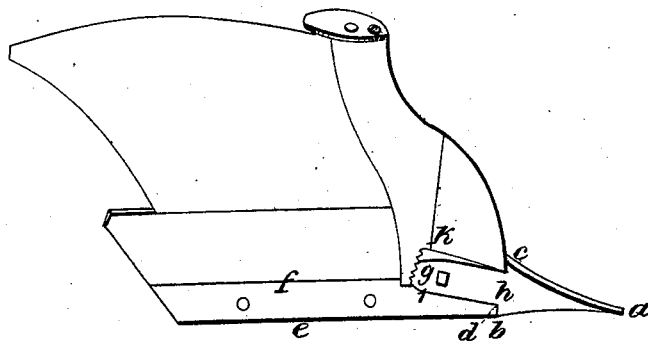


S. WITHEROW.

Plow.

No. 4,465.

Patented Apr. 18, 1846.



UNITED STATES PATENT OFFICE.

SAMUEL WITHEROW, OF GETTYSBURG, PENNSYLVANIA.

IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. 4,465, dated April 18, 1846.

To all whom it may concern:

Be it known that I, SAMUEL WITHEROW, of Gettysburg, Adams county, Pennsylvania, have invented a new and useful Improvement in Plows; and I do hereby declare that the following is a full and exact description of the same.

The plow is made on the self-sharpening plan, but differs in several respects from those now in use. The most prominent difference, however, is in that part of the plow usually denominated the "point," but which, in the further description, I will call the tongue. In the self-sharpening plow now in use the point or tongue is broad and thin, and is fastened to the under side of the mold-board. Mine is deep and narrow, and let into the landside, (which is cast solid with the mold-board,) and fastened to it by a screw-bolt, the nut being on the inside of the landside and the head countersunk in the tongue. This form combines strength with ease of entering the ground. The tongue may vary in size to suit the plow. The one I will describe, which answers well for a large plow, is fourteen inches long. The thickness, which is uniform throughout the whole length, is one and one-eighth inch. The part G H (see accompanying drawing) which enters the landside is six inches long and one and three-fourths deep. At the end of the landside there are shoulders B C on each side of the tongue three-fourths of an inch deep, the one, B, resting against the end of the landside D, the other, C, against the cutter and a projection of the mold-board. From the shoulders forward it is tapered equally on each side,

in the form of a curve, to one-eighth of an inch at the point A.

The position in which the tongue is placed is such that the point A and the shoulder B will range with the bottom of the landside E; but the principal improvement consists in an arrangement by which the tongue can be raised at the hind end and lowered at the point as it wears off. The space in the landside K L, in which the tongue is placed, is made wider behind than it is before, and there are notches in the hind end of the tongue G resembling saw-teeth, and corresponding ones in the landside, which fit into each other, so that when the tongue wears off at the point the screw fastening it to the landside may be taken out and the tongue raised a notch behind at G, which will lower it at the point A, and again fastened with the screw-bolt. It can thus be raised behind and lowered before four or five times, which will wear it down quite to a stump before it is unfit for use. It can also be turned upside down, so as to wear it equally on both sides.

Having thus fully set forth the nature of the improvement and the manner in which it is constructed, what I claim therein as my invention is—

The arrangement by which the tongue can be raised behind and lowered at the point, as above described.

SAMUEL WITHEROW.

Witnesses:

JNO. H. REED,
J. B. DANNER.