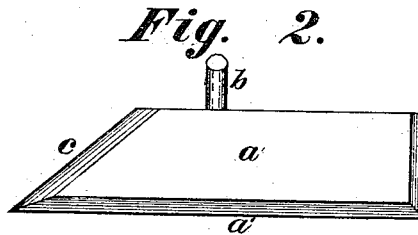
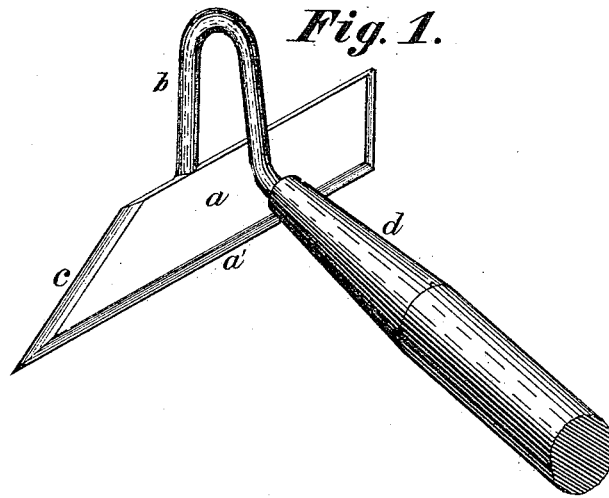


A. S. DUNHAM.

Weeding-Hoes.

No. 167,229.

Patented Aug. 31, 1875.



Witnesses

Inventor

J. Jones.

A. Whitman

A. S. Dunham
by J. J. Greenough Atty

UNITED STATES PATENT OFFICE.

AARON SOMERS DUNHAM, OF VERONA, NEW YORK.

IMPROVEMENT IN WEEDING-HOES.

Specification forming part of Letters Patent No. **167,229**, dated August 31, 1875; application filed April 19, 1875.

To all whom it may concern:

Be it known that I, AARON SOMERS DUNHAM, of Verona, Oneida county, New York, have invented an Improvement in Weeding-Hoes, of which the following is a specification:

My improvement consists in the form and construction of a hoe, and the attachment of the handle thereto, to facilitate the weeding and cultivating of crops.

The construction is as follows, referring to the accompanying drawing, in which—

Figure 1 is a perspective view of the hoe. Fig. 2 is a plan of the upper face of the blade next the handle.

I form the blade *a* of the hoe of a straight flat plate of steel, somewhat thicker than an ordinary hoe-blade, and of an oblong form. (Shown in Fig. 2.) One end of this blade is formed at right angles to the lower or cutting edge *a'*, or so formed as to cut without deviating the front edge. The other end is formed at an acute angle to said cutting-edge *a'*, as seen in Fig. 2, and the edge *a'*, as well as the edges of the two ends, is beveled off to a sharp edge on the upper face at *c*, (the face next the handle,) as clearly seen in the drawing. This bevel is very essential on account of the thickness required for proper strength in the blade, and it must be on the upper or working face to insure the proper working of the tool, which requires the bevel on that side

to take hold of the weeds, &c. To the blade thus formed a goose-neck or other shank, *b*, is attached, either by brazing, by swaging out of the blade, or otherwise, as is found best in the manufacture. This shank *b* is inserted into a ferrule on a wooden handle, *d*, like other weeding-hoes, and the handle may be of any desired length. This goose-neck connection of the handle and the blade is important and essential to clear the narrow blade from clogging at the handle, and to bring the handle itself well down over the blade near a line with its cutting-edge, to balance it and to keep it in position while working therewith.

Having thus fully described my improved weeding-hoe, I claim—

A cultivating and weeding hoe consisting of a long, straight, narrow blade, with one end thereof inclined to the principal working-edge, and the edge beveled to an edge on the upper side, and having a long shank, *b*, projecting up therefrom, and recurved back to the line of the hoe-blade, where it is joined with the handle, the whole being constructed, arranged, and combined as and for the purposes above specified.

A. SOMERS DUNHAM.

Witnesses:

P. B. McLENNAN,
O. H. WARREN.