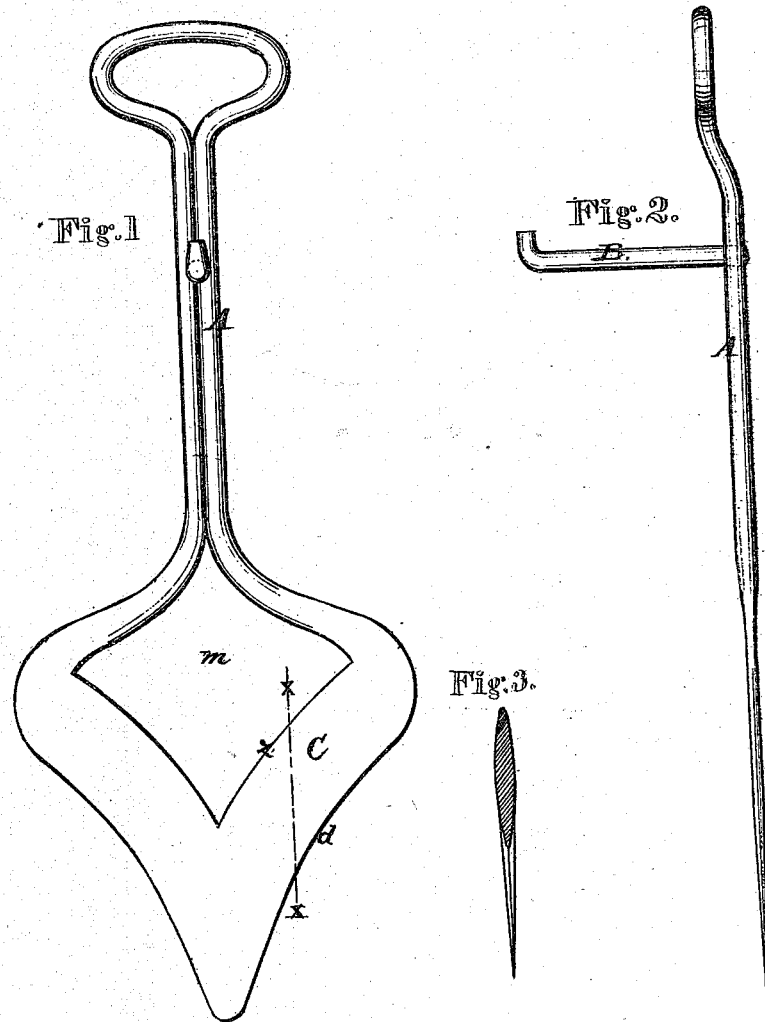


D. H. Wile,

Hay Knife.

No. 108076.

Patented Oct. 4. 1870.



Witnesses.

Vilhelm Anderson.

Chas. Kemper.

Inventor.

D. H. Wile,
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Attorneys

United States Patent Office.

DANIEL H. WILE, OF NEW PITTSBURG, OHIO.

Letters Patent No. 108,076, dated October 4, 1870.

IMPROVEMENT IN HAY-KNIVES.

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, DANIEL H. WILE, of New Pittsburg, in the county of Wayne and State of Ohio, have invented a new and valuable Improvement in Hay-Knives; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a front view of my invention.

Figure 2 is an edge view; and

Figure 3 is a sectional view of the blade.

My invention relates to hay-knives; and

It consists in the formation of the blade, whereby but little friction is occasioned by its passage through the straw, and its retraction is accomplished with facility.

Also, in the economical mode of construction adopted.

The letter A of the drawing designates the shank, which consists simply of a rod of iron bent in the manner shown on the drawing.

During the bending operation, and while the iron is hot, the handle B is welded into place between the jointed rods which form the shank.

At the lower end of the shank the rods are spread, and to their ends are welded the ends of the V-shaped blade C.

The cutting-edges *d* of the blade become less curved toward the point.

The curvature is concave, and the long narrow point thereby produced is especially adapted for penetrating the straw.

The blade is not very wide, thus preventing friction against the ends of the cut straw, and its upper edge *z*, which is also V-shaped, and parallel to its cutting-edge, is thinned down, in order to facilitate its withdrawal from the straw.

It will be observed that there is a diamond-shaped space between the blade and the spread ends of the shank-rods. This space has been lettered *m* in the drawing.

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

The hay-knife herein described, having the V-shaped blade C, with concave cutting-edges *d*, and beveled upper edge *z*, shank A, bent toward the operator, near its upper end, and handle B, welded between the shank-rods below the bend, substantially as specified.

In testimony that I claim the above, I have hereto subscribed my name, in the presence of two witnesses.

DANIEL H. WILE.

Witnesses :

WILLIAM PIPER,
A. L. GARVER.