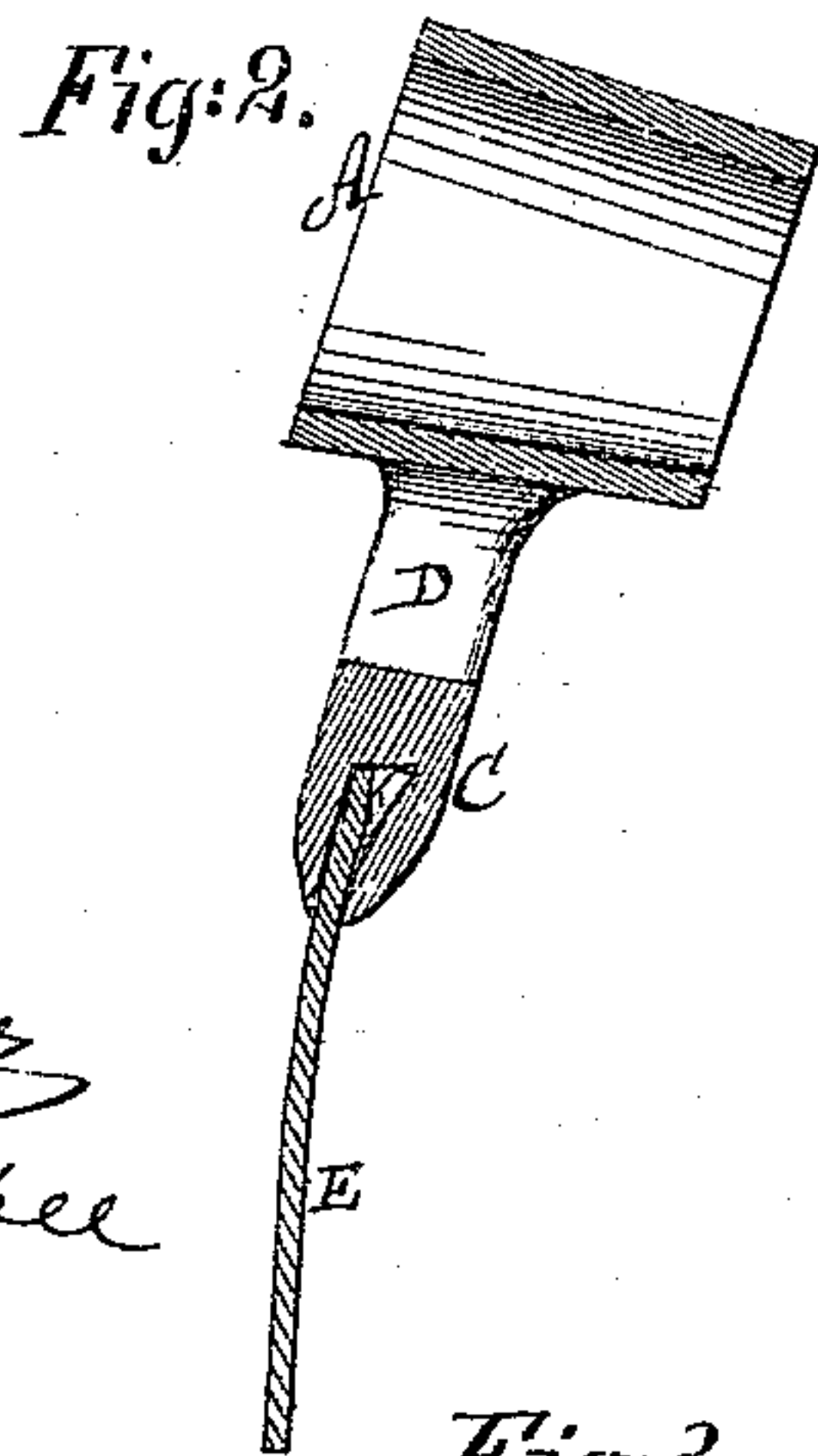
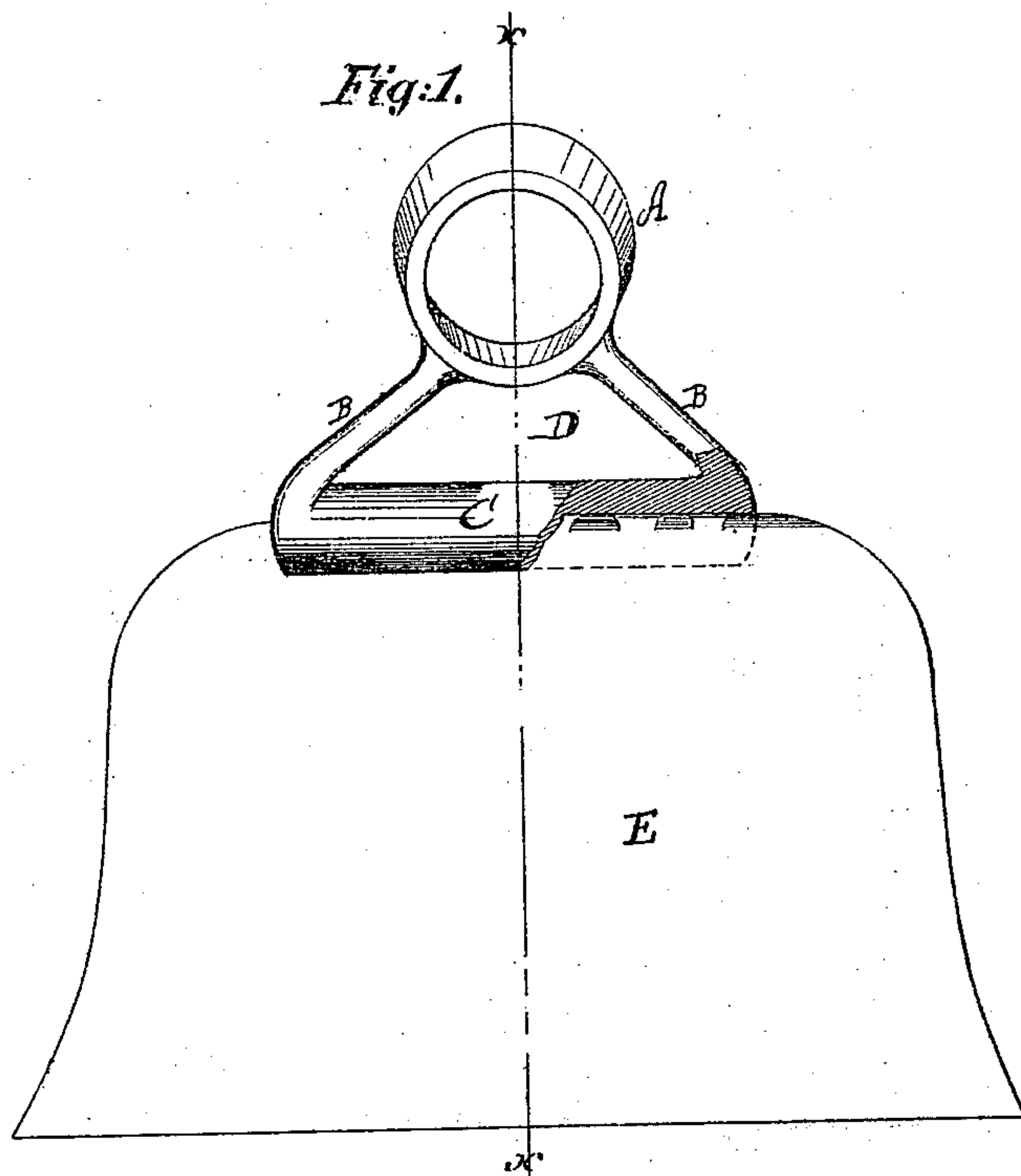


*J. F. Wilson,*

*Hoe.*

*No. 94,054.*

*Patented Aug. 24. 1869.*



*Witnesses*  
*M. Volander*  
*Geo. W. Mabee*

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*Attorneys*



# United States Patent Office.

J. F. WILSON, OF ATHENS, GEORGIA.

Letters Patent No. 94,054, dated August 24, 1869.

## IMPROVEMENT IN HOES.

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, J. F. WILSON, of Athens, in the county of Clark, and State of Georgia, have invented a new and useful Improvement in Hoes; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification.

This invention relates to a new and useful improvement in the construction of hoes for agricultural and other purposes, and consists in the construction and arrangement hereinafter described.

In the accompanying drawing—

Figure 1 is a top view of the hoe.

Figure 2 is a cross-section of fig. 1, through the line *x x*.

Figure 3 is a view of the back edge of the blade.

Similar letters of reference indicate corresponding parts.

A is the eye of the hoe.

B B are braces attached to the eye, which are connected together by means of the bar C, leaving an open space, D, between the bar and the eye.

E is the blade of the hoe, which is attached to the bar C by means of a dovetail or other-shaped groove in the bar; as seen in the cross-section, fig. 2, and in fig. 1, where the bar is broken away over the blade.

The back edge of the blade is made dovetailing, or shaped to fit the groove, by cutting into it with a cold-chisel, or otherwise, at proper distances, as, for example, at the points marked *f*, fig. 3.

The metal, or parts *g*, between these cuts, is turned or bent alternately back and front as seen in the drawing, forming (taken as a whole) across the back a dove-

tail, which fits the groove in the bar C. Any form of groove which will hold the blade may be employed.

It will be seen that by giving the back of the blade this form, and driving or forcing it into the groove or channel in the bar *c*, the attachment is made complete.

The advantages of this construction will readily suggest themselves to all who are acquainted with this implement. The blade is readily removable from the bar, so that a broken or worn-out blade may be replaced by a new one. The opening D prevents clogging under the handle. The hoe is strong and durable. While the blade is of plate-steel, the eye and bar C, with the braces B, may be of cast malleable iron, so that the hoes may be furnished at a reduced price.

Having thus described my invention,

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

1. Attaching the blade of a hoe to the bar C, or its equivalent, by means of a dovetail groove in the bar, and a dovetail on the back edge of the blade, substantially in the manner described.

2. Attaching the blade to the bar or eye of a hoe, by means of a groove, in such a manner that no other fastening than the friction produced by the blade (or by any device attached thereto) shall be sufficient to hold it in place, substantially as described, whether such groove be dovetailing or not.

3. In combination with a blade thus attached, the opening D, substantially as described.

J. F. WILSON.

Witnesses:

A. L. DEARING,  
S. J. MAYS.