

F. CULVER.  
Horse Hay-Fork.

No. 72,270.

Patented Dec. 17, 1867.

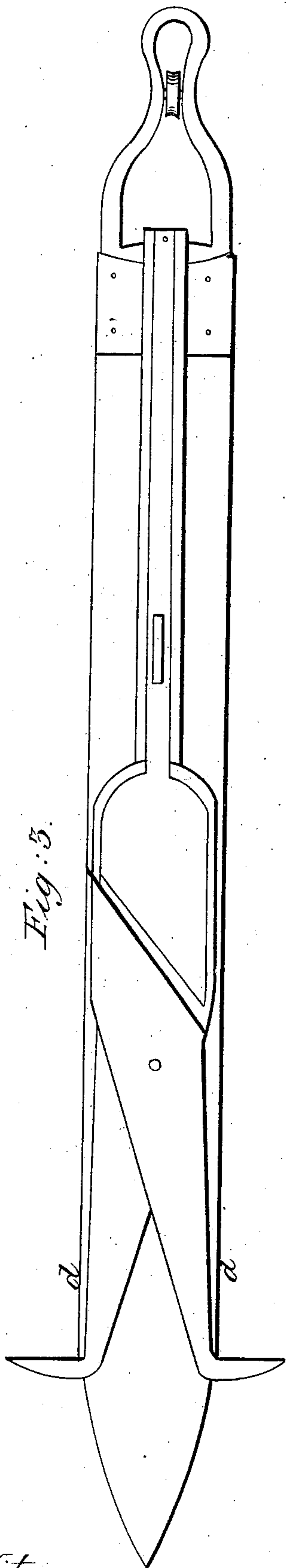


Fig. 3.

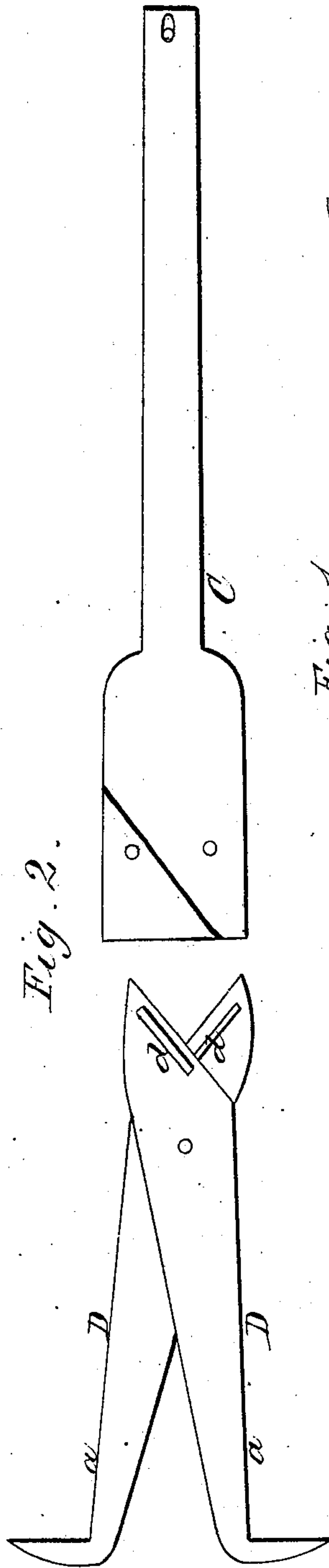


Fig. 2.

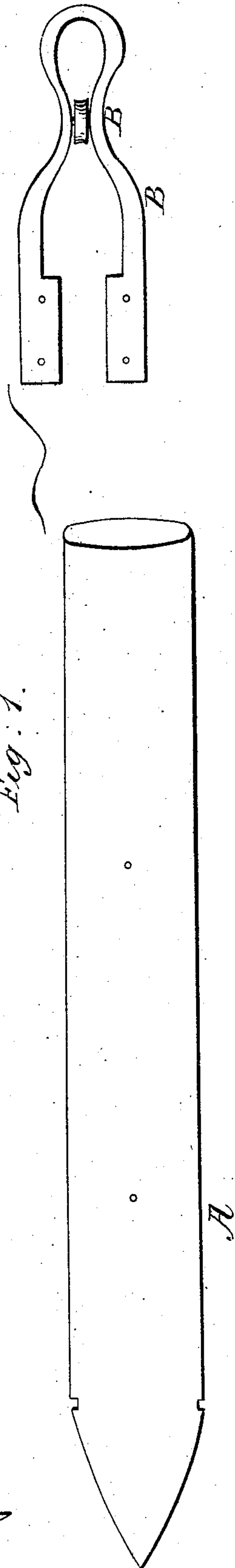


Fig. 1.

Witnesses;  
R. D. Wood  
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# United States Patent Office.

FRED CULVER, OF ELKLAND, PENNSYLVANIA.

*Letters Patent No. 72,270, dated December 17, 1867.*

## IMPROVEMENT IN HORSE HAY-FORKS.

The Schedule referred to in these Letters Patent and making part of the same.

Be it known that I, FRED CULVER, of the borough of Elkland, in the county of Tioga, and State of Pennsylvania, have invented a new and useful Improvement in Hay-Forks; 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 drawing No. 1, and its accompaniment, as follows, to wit:

Figure 1 is an outside view of entire article.

Figure 2 is an inside view of same.

Figure 3 is machinery inside of case—

Being the three components of entire machinery, as will more fully appear by annexed schedule.

A, case; B, handle, fulcrum, and pulley; C, upright shaft; D D, arms, as operated upon by upright shaft; *a a*, slots for extending or returning arms; B B, rivets on shaft, which pass through the slots in arms; C, rivet through arms, connecting same to case; D D, apertures in case for extension or contraction of hooks or barbs; F F, handle attached to upright shaft, connected by rope with pulley.

The case A is nearly flat, slightly convex, about three inches in width, and about three feet long, within which the upright shaft and arms are worked from pulley in the handle, the arms D D being connected together by a rivet passing through the case A, operating as a fulcrum to said arms, and same being extended or closed by means of slots marked *a a*, which throw them from the case ready for use; and by reversing the power they are shut within the case, thereby relieving themselves of their load, being governed and controlled by a cord or rope attached to handle F F on upright shaft, and running over pulley. It is contemplated, if found necessary, to attach a spring and catch, to hold the arms and barbs in position when extended for receiving the load, to be governed by the rope attached to pulley and shaft. The arms D D may each have an additional hook or barb, which would extend through the case a few inches above the other barbs. The whole may be made of iron or steel.

The following are claimed to be new inventions and distinct improvements from anything heretofore introduced to the public notice:

The combination of upright shaft C, rivets or pins B B, arms D D, with slots *a a* at their upper end, and barbs at their lower end, the whole arranged substantially as and for the purpose specified.

FRED CULVER.

Witnesses:

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E. S. CULVER.