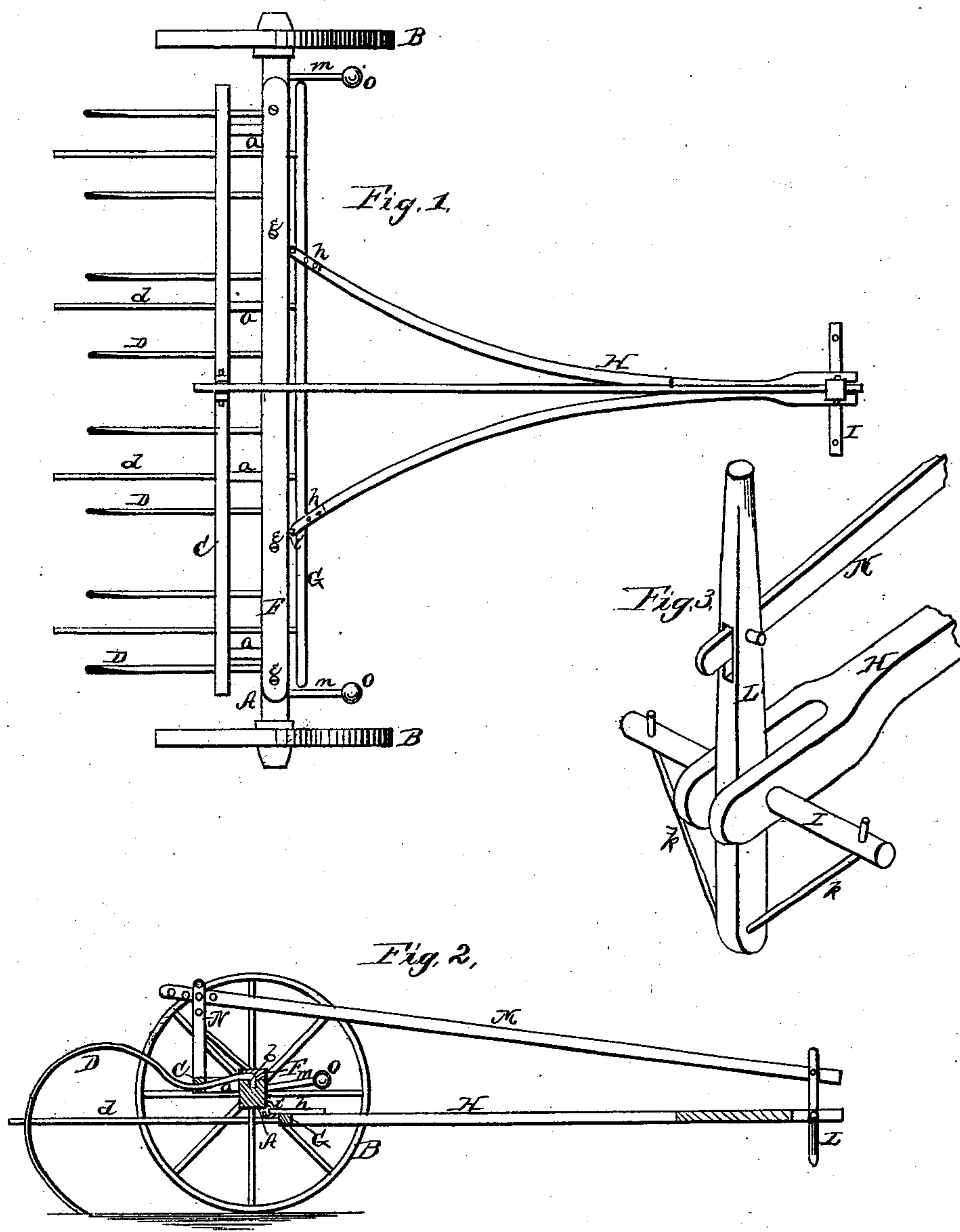


A. RIGBY.
Hay-Rake.

No. 204,090.

Patented May 21, 1878.



Witnesses:
W. C. McArthur.
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UNITED STATES PATENT OFFICE.

ARTEMAS RIGBY, OF UPPER STILLWATER, MAINE.

IMPROVEMENT IN HAY-RAKES.

Specification forming part of Letters Patent No. **204,090**, dated May 21, 1878; application filed April 22, 1878.

To all whom it may concern:

Be it known that I, ARTEMAS RIGBY, of Upper Stillwater, in the county of Penobscot and State of Maine, have invented certain new and useful Improvements in Drag-Rakes; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification.

The nature of my invention consists in the construction and arrangement of a hand drag-rake, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a plan view, Fig. 2 a central section, and Fig. 3 a detail, of my invention.

A represents the axle of the hay-rake, on each end of which is secured or formed a spindle for the reception of a driving-wheel, B. C represents a bar running in rear of and parallel with the axle, and secured to it by arms *a a*, as shown. Through this bar are passed the rake-teeth D D, the rear portions of which are curved substantially in the same manner as is usual for all hay-rakes that use wire teeth. The front end of each tooth is bent downward, forming, as it were, a hook, *b*, which is inserted in a hole in the top of the axle, and all the teeth held by a bar, F, which extends the whole length of the axle, and is fastened thereto on top by suitable screws *e e*. *d d* are the clearers, which are secured to and project rearward from a bar, G, to which the ends of the split tongue H are fastened. The ends of this tongue are, by means of perforated metal plates *h* and eyes or staples *i*, connected to the front of the axle A, as shown. The front end of the tongue H is forked, and in the same is pivoted a lever,

L, by means of a round or handle, I, extending through the parts, and projecting a suitable distance on both sides of the tongue, as shown, the lever being braced by a wire or rod, *k*, passing through its lower end, and the ends thereof turned upward through the ends of the handle. In a slot in the lever L is pivoted one end of a rod, M, which extends rearward, and its rear end pivoted in a forked arm, N, extending upward from the center of the bar C.

By these means the rake can be dumped at any time when desired.

Any man or boy can draw this rake over the field with one finger.

At each end of the axle A is a rod or spindle, *m*, extending forward, and on the same is placed a movable ball or weight, O, so as to regulate or balance the teeth.

By this means hay can be raked without any dust, and it requires but a slight motion of the hand to dump the hay.

By moving the balls nearer the axle heavier hay may be raked without bearing down the teeth with the hand or dump-rod.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination, with the lever L on the forward end of the tongue H and arm N on the staple-bar, of the connecting-rod M, whereby the rake may be dumped by the person dragging it.

2. The combination, with the rake A C D and tongue H, of the lever L, handle I, rod or brace *k*, rod M, and arm N, substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

ARTEMAS RIGBY.

Witnesses:

JOHN W. GOULD,
FRANK HAMBLIN.