

A. FAGER.
Horse Hay-Rake.

No. 217,455.

Patented July 15, 1879.

Fig. 1

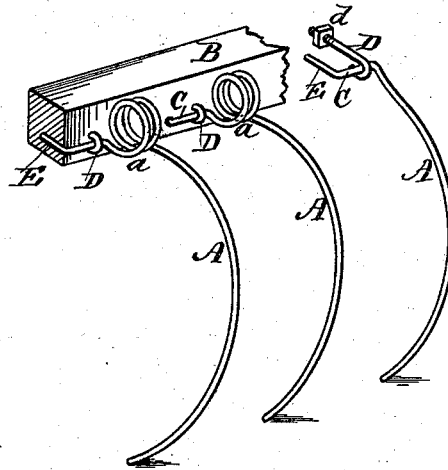


Fig. 2

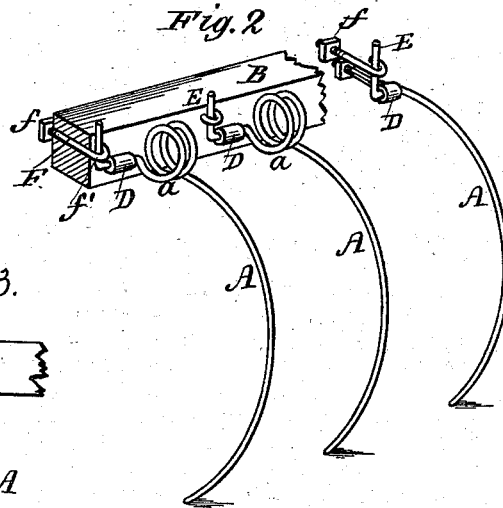
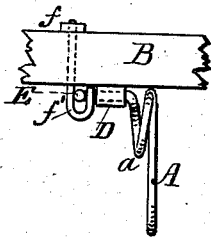


Fig. 3.



Witnesses:
E. E. Masson
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att'y

UNITED STATES PATENT OFFICE.

ANTHONY FAGER, OF CANTON, OHIO, ASSIGNOR TO MRS. J. B. WILSON,
OF SAME PLACE.

IMPROVEMENT IN HORSE HAY-RAKES.

Specification forming part of Letters Patent No. **217,455**, dated July 15, 1879; application filed
March 27, 1879.

To all whom it may concern:

Be it known that I, ANTHONY FAGER, of Canton, in the county of Stark and State of Ohio, have invented certain new and useful Improvements in Hay-Rakes; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

Figure 1 illustrates a rake-tooth rigidly attached to the axle or rake-head. Fig. 2 illustrates my improved tooth secured in such manner as to have a limited degree of play. Fig. 3 is a top view of the tooth shown in Fig. 2.

In the drawings, A represents the tooth, which is provided, if desired, with the usual spring-coil *a*. B is the axle or rake-head, to which the teeth are attached. The wire of which the tooth is formed is bent so as to form an arm, C, extending in a line substantially at right angles to the plane of the main body of the tooth A. This arm C is secured against the side of the axle or rake-head B by means of an eyebolt or sleeve-bolt, D, which is inserted through the axle or head B, and is held in place by a nut, *d*, the opposite end engaging the arm C. The arm C, when thus secured,

prevents the tooth from oscillating laterally. The wire is again bent to form another arm at right angles to the arm C. This latter arm is inserted in the rake-head or axle, as shown at E, when the tooth is rigidly attached; but as I desire to give the tooth a limited amount of play, so that it can adjust itself to any obstruction it may meet, or for any other reason, I bend the second arm so as to be parallel to the face of the axle or head, and support the upper end by a staple-bolt, F, which is inserted through the axle and held by a nut, *f*. The loop *f'* of this bolt is adapted to permit a limited play of the arm E as it is thrown forward or back by the tooth which rocks in the eye or sleeve D.

What I claim is—

The combination of the axle or rake-head B, the tooth bent to form the arm C, and the arm E, the eyebolt D, and the staple *f*, projecting from the rake-head, all arranged and operated substantially as set forth.

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

ANTHONY FAGER.

Witnesses:

AUSTIN LYNCH,
JOSEPH CRAIG.