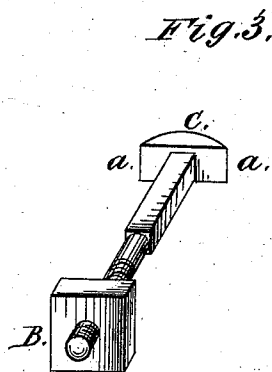
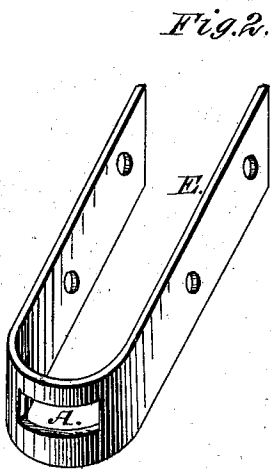
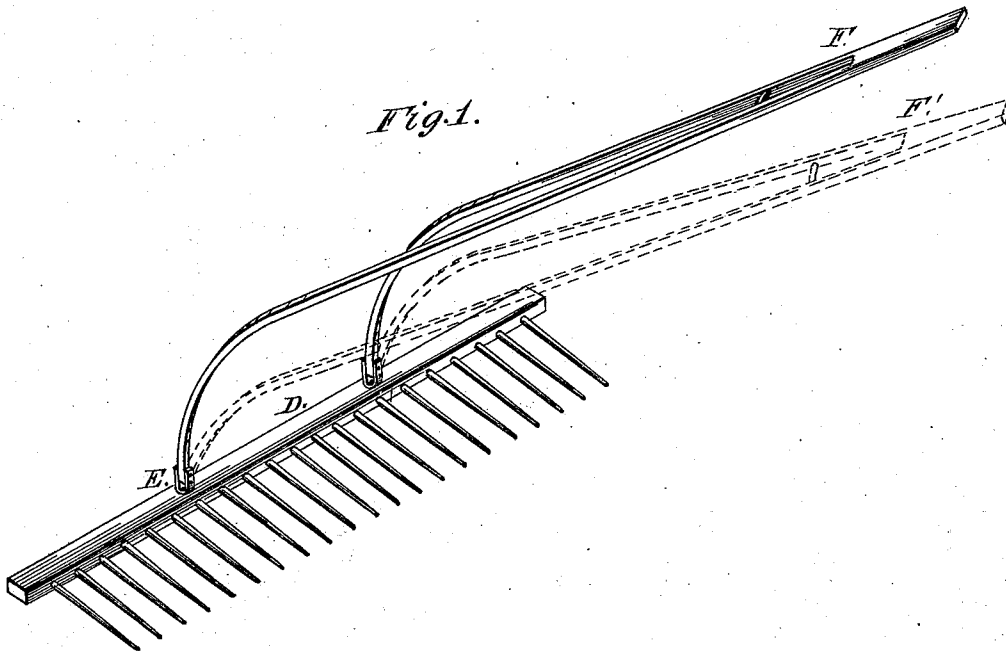


N. B. MARSTON.
ADJUSTABLE RAKE-HANDLE.

No. 173,656.

Patented Feb. 15, 1876.



Witnesses:

Charles A. Downs
Charles A. Downs Jr

Inventor:

Nathaniel B. Marston

UNITED STATES PATENT OFFICE.

NATHANIEL B. MARSTON, OF LEBANON, NEW HAMPSHIRE.

IMPROVEMENT IN ADJUSTABLE RAKE-HANDLES.

Specification forming part of Letters Patent No. **173,656**, dated February 15, 1876; application filed December 23, 1875.

To all whom it may concern:

Be it known that I, NATHANIEL B. MARSTON, of Lebanon, in the county of Grafton and State of New Hampshire, have invented certain Improvements in the Mode of Attaching the Handle to the Head of the Drag-Rake so as to be adjustable, of which the following is a specification:

The following is a description of my mode of attaching the handle to the head of the drag-rake, which mode has been newly invented by me. Reference is made to the drawings accompanying this specification.

The object of my invention is to so attach the handle to the rake-head that, while the teeth remain parallel to the surface of the ground, it may be raised or depressed to suit the varying heights of the persons who may use it.

This I accomplish by the fastenings represented in Figures 2 and 3. Fig. 2 represents a metal clasp which is firmly riveted to the ends of the handle F.

A is a circular slot, Fig. 2, through which the bolt, Fig. 3, is passed, and then through the rake-head. The nut B, being turned down, holds the ends of the handle firmly to the head of the rake. The head of the bolt has projections *a a* on two sides, so that when the

bolt-head is inserted in the slot of the clasp and turned, a hinged fastening is secured. The slot A, being cut on an arc of a circle, and being longer than the diameter of the bolt, allows the handle to be set at any angle with the head which may be desirable.

Fig. 1 represents the handle attached to the head in this mode. The dotted lines represent the position to which the handle may be brought by unscrewing the nut B, Fig. 3, and turning down the handle. When brought to the right position it may be secured by turning up the nut.

I claim—

1. In a rake, the combination of the clasp E, having an arc-shaped slot, A, with the screw-threaded bolt C, the head of said bolt having projections *a a* on two sides, whereby a hinged fastening is formed, substantially as shown and described.

2. In combination, the rake-handle F, the clasp E, having arc-shaped slot, the screw-threaded bolt C, and the rake-head D, substantially as shown and described.

NATHANIEL B. MARSTON.

Witnesses:

CHARLES A. DOWNS,

CHARLES A. DOWNS, Jr.