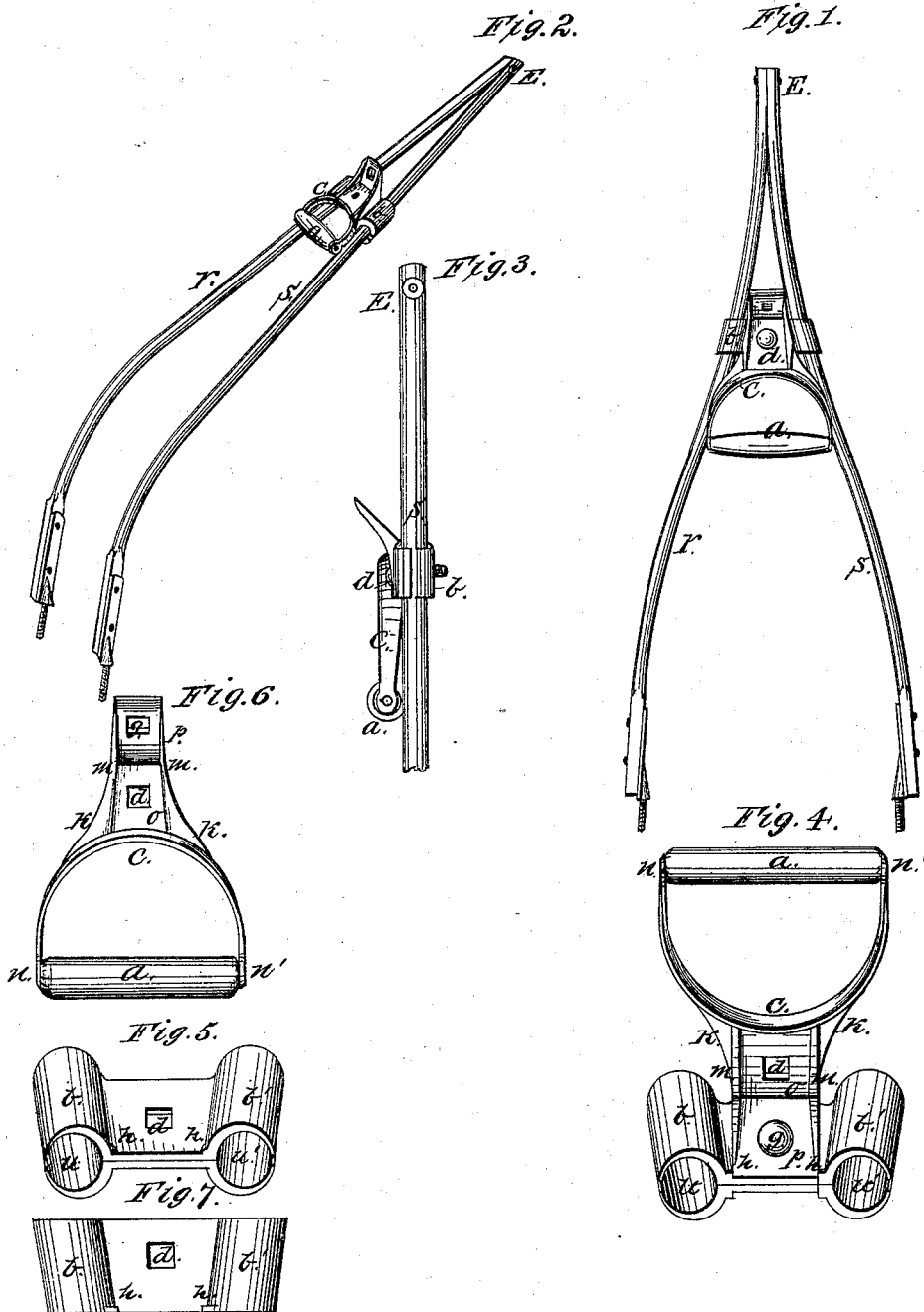


H. SMITH & W. GALBRAITH.

DRAG-RAKE HANDLE.

No. 171,325.

Patented Dec. 21, 1875.



Witnesses:

Israel Putnam Dana
Louis Follett

Inventors.

Hugh Smith
Walter Galbraith

UNITED STATES PATENT OFFICE.

HUGH SMITH AND WALTER GALBRAITH, OF PASSUMPSIC, VERMONT.

IMPROVEMENT IN DRAG-RAKE HANDLES.

Specification forming part of Letters Patent No. **171,325**, dated December 21, 1875; application filed April 5, 1875.

To all whom it may concern:

Be it known that we, HUGH SMITH and WALTER GALBRAITH, of Passumpsic, State of Vermont, have invented an Improved Drag-Rake Handle, of which the following is a specification:

This improved drag-rake handle is so constructed that it may be adjusted to the shortest or the tallest man, and enables him to choose any position he may like in raking. This is accomplished without weakening the irons which join the handle to the head or any other essential part.

The curved limbs *r* and *s*, Fig. 1, are first turned and bent, then firmly fastened together at *e* with a rivet or ferrule, the ends of the limbs being scarfed so as to keep them in place. The two limbs are held firmly in place by a malleable-iron clamp, Fig. 5. This clamp is composed of two parts, *b b'* and *u u'*, each of which is represented by Figs. 5 and 7, *b b'* applying on the top and *u u'* from beneath. The two parts are then drawn together by a bolt passing through both at *d*. Thus the limbs *r* and *s* are firmly grasped by the double clamps *b u* and *b' u'*. Upon this clamp, by the same bolt *g*, Fig. 4, which holds the clamp in place, is fastened the malleable-iron handle represented by Fig. 6. This may be applied so as

to lie flat upon the clamp, with handle *n a n'* between the two limbs, and the bolt through *d*, as in Fig. 1, or it may stand at an angle, with the bolt through *g*, as in Fig. 2. The movable handle, Fig. 6, may also be reversed. Thus the adjustment is partially provided for by applying the movable handle, Fig. 6, at either of the planes, *p* or *o*, which meet at an angle of about forty-five degrees. The adjustment is further regulated by moving the clamp, Fig. 5, up and down the limbs, which may be done by simply loosening the nut of the bolt *d*; and, wherever it is placed, when the nut is tightened, the handle is as firm as though it were a permanent fixture. The limbs, being only seven-eighths of an inch in diameter, readily give enough one way and the other to allow the clamp to slide back and forth for several inches.

We claim as our invention and desire to secure by Letters Patent—

The adjustable clamp and handle, in combination with the limbs *r s* of the rake, as and for the purposes set forth.

HUGH SMITH.

WALTER GALBRAITH.

Witnesses:

ISRAEL PUTNAM DANA,
LOUIS FOLLETT.