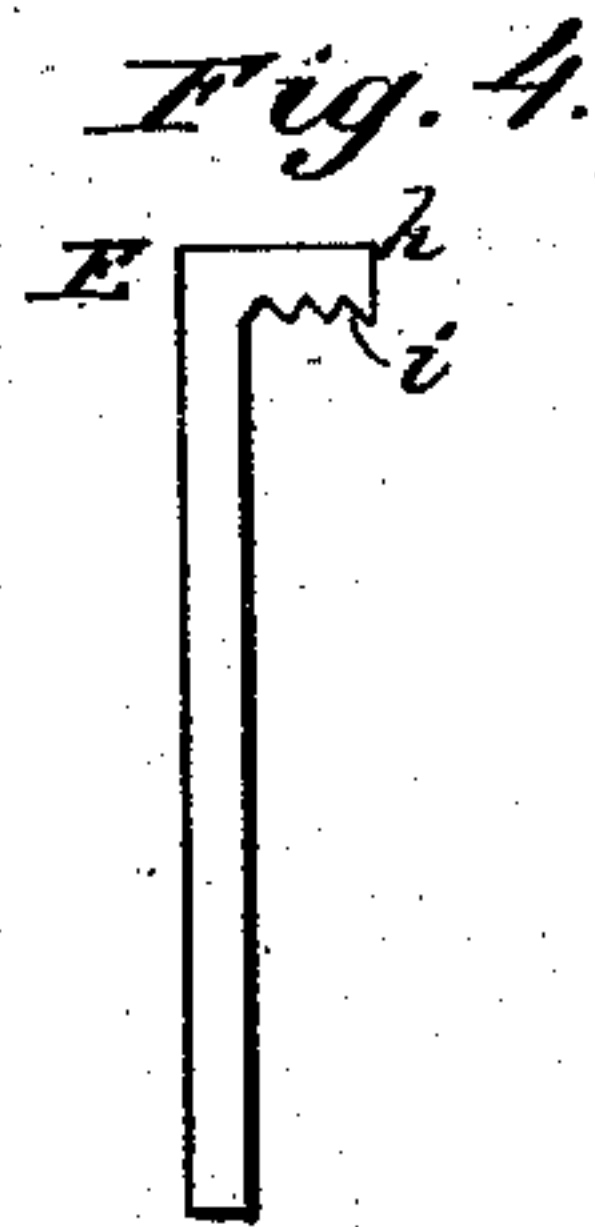
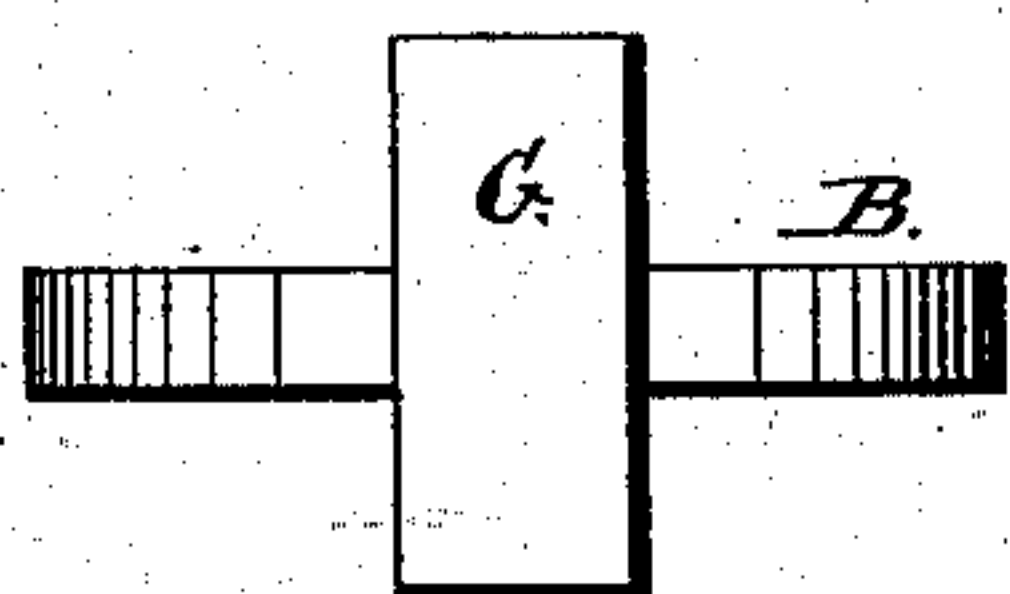
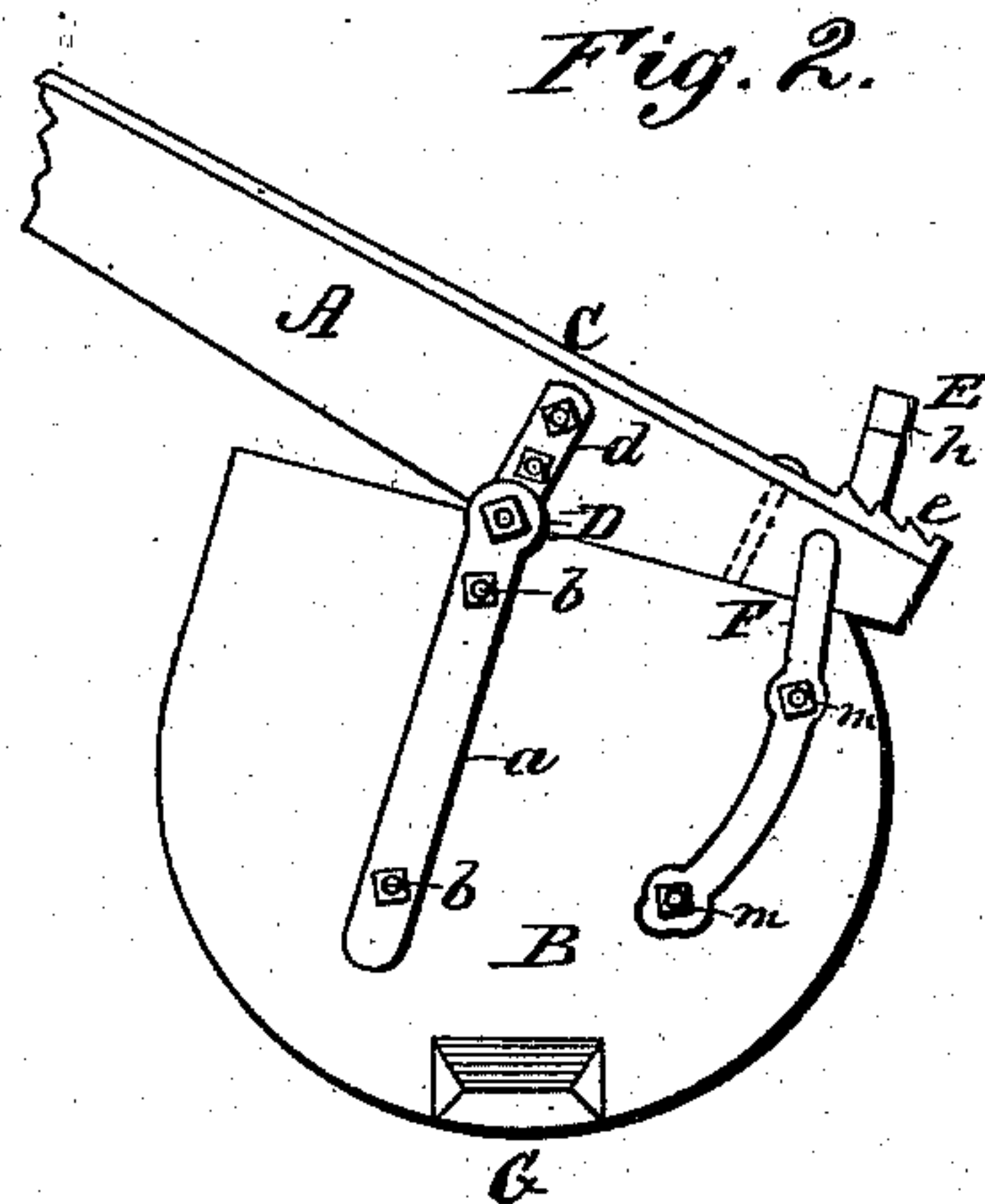
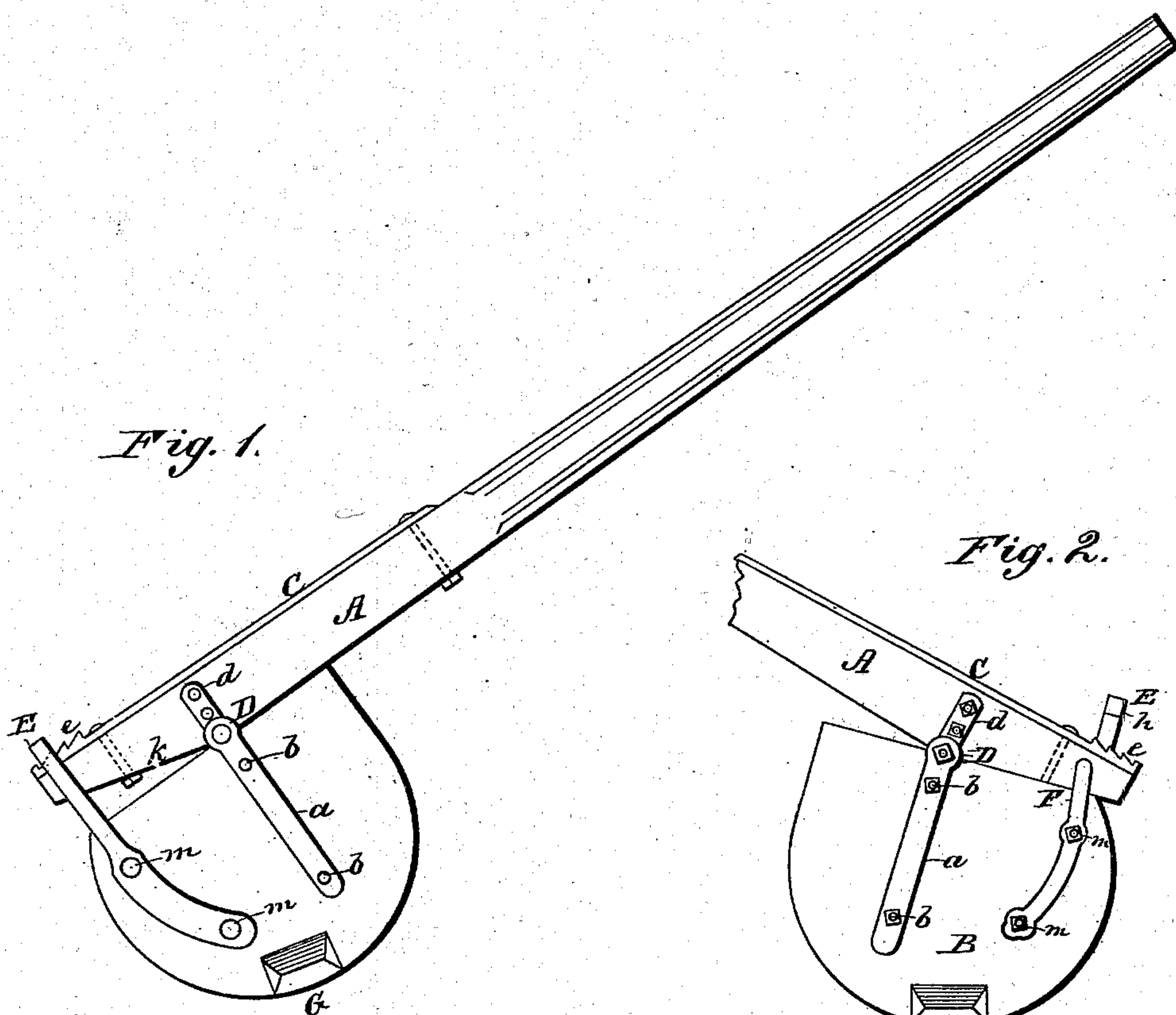


(No Model.)

S. C. SMITH.
SPROUT PULLING MACHINE.

No. 258,145.

Patented May 16, 1882.



WITNESSES :

W. W. Hollingsworth
T. Ready

INVENTOR:

BY *Stephen C. Smith*

ATTORNEYS.

UNITED STATES PATENT OFFICE.

STEPHEN C. SMITH, OF POOLE'S MILL, KENTUCKY.

SPROUT-PULLING MACHINE.

SPECIFICATION forming part of Letters Patent No. 258,145, dated May 16, 1882.

Application filed November 5, 1881. (No model.)

To all whom it may concern:

Be it known that I, STEPHEN C. SMITH, a citizen of the United States, residing at Poole's Mill, in the county of Webster and State of Kentucky, have invented a new and useful Sprout-Pulling Machine, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, and letters of reference marked thereon, in which—

Figure 1 is an elevation of the left side of the machine. Fig. 2 is a similar view of the lower end of the right side of the machine, and Figs. 3 and 4 are detail views.

In the accompanying drawings, B represents a segmental block provided with a block, G, rounded on its bottom, and let into the lower edge of the segmental block B, to prevent the latter from sinking in soft ground when in operation.

A represents a lever having its lower end beveled, at *k*, opposite the plane face of the segmental block B.

C represents a metallic plate secured to the lower end of the outer face of the lever A, and provided with notches *e* at its lower end.

The segmental block B is eccentrically hinged to the lever A, at the upper end of the bevel of the lever A, by means of the straps *d*, secured to the opposite end faces of the lever, and lying opposite each other.

The straps *a* are arranged eccentrically on the block B, and are secured together by the bolts *b b*, passing through the block longitudinally and through the straps *a a*. The straps *a d* are provided with eyes at their projecting ends, through which the pintle or shaft D passes.

E represents an arm, the lower end of which is rigidly secured to the block B, and is provided at its upper end with a right-angular jaw, *h*, having notches or serrations *i* on its

under face adapted to engage with the notches *i* on the plate C, and hold a sprout or bush between them.

F represents a guide secured to the opposite face of the block B, and lying directly opposite the arm E, the latter and the guide F being secured to the segmental block by the same bolts, *m m*. The function of the guide F, which projects upward beyond the segmental block and opposite the lever A, is to prevent the latter from springing from under the jaw *h* when the machine is in operation.

In practice the puller is held with its lever vertical, when, from the eccentric hinging of the segmental block, the jaw *h* will open. The sprout is then introduced between the jaw *h* and notches *e*, and the segmental block placed on the ground. The lever A is then operated and the sprout pulled up by the roots.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The combination, with the lever A, provided with the bevel *k* and plate C, having notches *e* on its lower end, of the segmental block B, eccentrically pivoted to the lever A, and arm E, secured to the segmental block, and provided at its upper end with the right-angular jaw *h*, serrated on its under surface, substantially as described, and for the purpose set forth.

2. The combination of the beveled lever A, provided with the plate C, having notches *e*, segmental block B, eccentrically hinged to the lever, block G, let into the lower edge of the segmental block, guide F, projecting above the segmental block, and arm E, provided with the serrated jaw *h*, substantially as described, and for the purpose set forth.

STEPHEN C. SMITH.

Witnesses:

G. W. THORNBERRY,
W. W. GATES.