

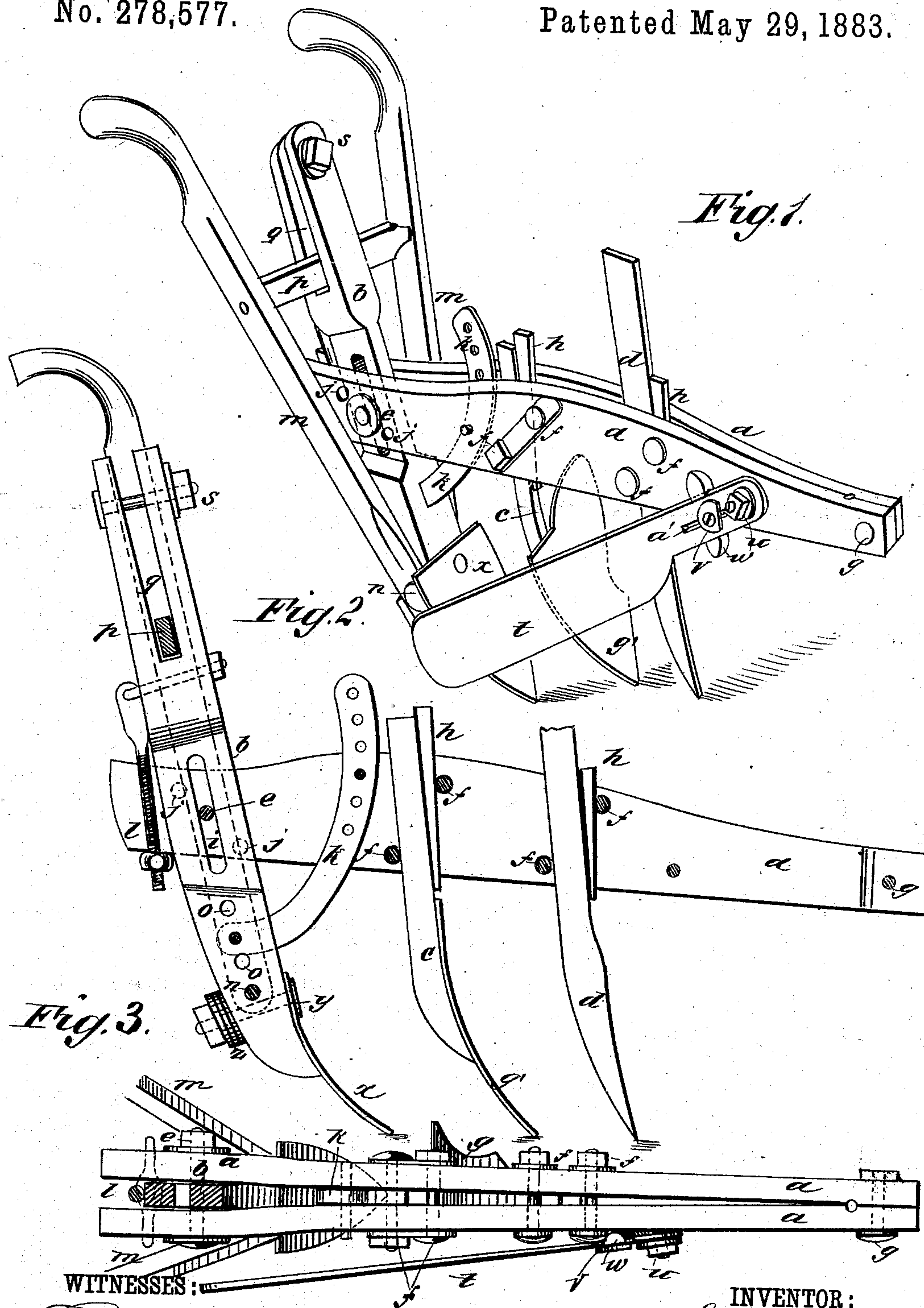
(No Model.)

J. T. McINTIRE.

CULTIVATOR.

No. 278,577.

Patented May 29, 1883.



WITNESSES:

Francis McArthur,
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INVENTOR:

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UNITED STATES PATENT OFFICE.

JOHN T. MCINTIRE, OF PURDY, TENNESSEE.

CULTIVATOR.

SPECIFICATION forming part of Letters Patent No. 278,577, dated May 29, 1883.

Application filed November 14, 1882. (No model.)

To all whom it may concern:

Be it known that I, JOHN T. MCINTIRE, of Purdy, in the county of McNairy and State of Tennessee, have invented a new and Improved Cultivator, of which the following is a full, clear, and exact description.

My invention consists of improvements in the construction of cultivators designed to simplify and cheapen the cost, and in contrivances for fastening and adjusting the parts, and also in a clod-fender attachment, all as hereinafter fully described, and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a perspective view of my improved cultivator. Fig. 2 is a longitudinal section of the same, and Fig. 3 is a plan view.

I make the beam of two thin parts of wood plank, *a*, placed side by side, and secure the plow-stocks *b* *c* and the colter-stock *d* to it by clamping them between the said parts *a* by bolts *e* and *f*, the parts being bolted together at the front end by bolt *g*. This arrangement makes a lighter beam, and is also stronger for the same amount of material, and saves the cutting of mortises through it. The bolts *f*, before and behind the colter *d* and plow-stock *c*, are also arranged one above another, so as to control the pitch of the colter and front plow, *g'*, and the pitch is varied by means of the keys *h*. The transverse dimensions of the stock *c* and colter *d* being alike, and the bolts *f* being arranged alike for each, enables the plow *g'* to be set in the place of the colter when the latter is not required for use, and the colter may be set in the place of the plow when the latter is not required. The vertical adjustment of the plow-stock *c* and colter *d* is accomplished by simply shifting them up or down when the bolts *f* are slackened a little. The bolt *e* for the plow-stock *b* passes through a slot, *i*, in the stock, allowing it to shift up and down, and a series of holes, *j*, is made in the beam for the bolt, enabling it to be set in different positions forward and backward. The adjusting-screw *l* and the brace *k* secure the stock *b* in the required pitch or inclination with respect to the beam, and the beam is also regulated as to the height of the front end from the ground by them.

The handles *m* are adjustable vertically by shifting their connecting-bolt *n* up and down

along the series of holes *o* in the lower end of the stock, where they are bolted to it; also by shifting the cross-bar *p* in the slot *q* of the upper end of the stock *b*, where said bar is clamped fast by the bolts *s* to secure the handles in position. The handles may also be shifted laterally by the bar *p* and slot *q* to enable the plowman to follow in the furrow or out, as he may desire.

The clod-fender *t*, which consists of a simple piece of board, is bolted onto the beam in front of the colter by bolt *u*, together with another bolt, *v*, and a gib, *w*, which are adjustable along the slot *a'*, by which the set of the fender is adjusted as may be required.

The plow *x* is bolted onto the stock *b* by bolt *y*, with washers *z*, having leather packing between them, making a kind of expansion device that enables the bolt to hold the plow in position without any shoulder on the stock, so that the front of the stock may be plain for the application of plows of different forms for different kinds of work.

As represented in the drawings, the plows are adjusted for "barring off;" but they may be otherwise set. For instance, two right-hand plows of common form may be set for plowing and subsoiling at the same time. One right-hand and one left-hand plow may be set for turning the furrow both ways, and other adjustments may be made.

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

1. The combination, with the beam, of the slotted plow-stock *b*, the bolt *e*, and the screw *l*, substantially as herein shown and described.

2. The combination, with the beam, of the slotted plow-stock *b*, the bolt *e*, the screw *l*, and the brace *k*, substantially as herein shown and described.

3. The combination, with the two-part beam *a*, provided with the holes *j* in its rear end, of the slotted plow-stock *b*, the bolt *e*, the screw *l*, and the adjustable brace *k*, substantially as herein shown and described.

4. The handles *m*, connected to stock *b* by bolt *n*, bar *p*, and slot *q*, the said stock being provided with the clamping-bolt *s*, substantially as described.

JOHN THOMAS MCINTIRE.

Witnesses:

H. C. MURRY,
T. A. HIPPS.