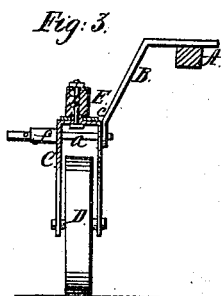
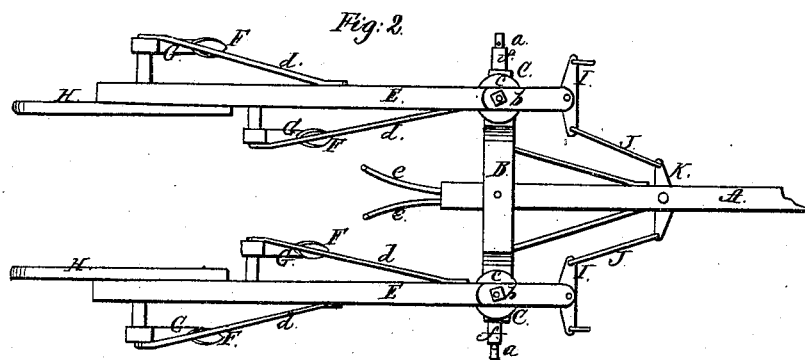
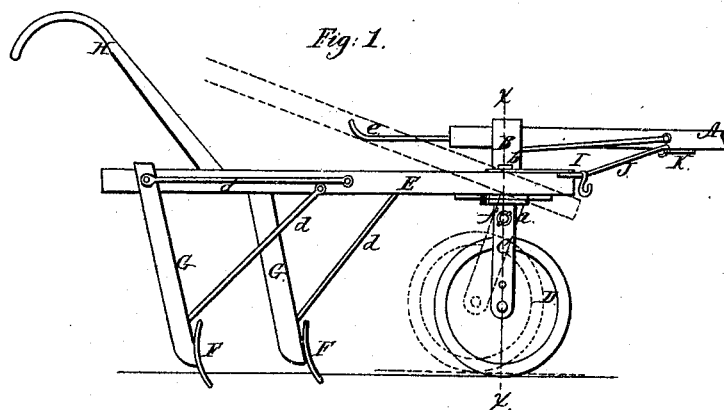


J. SAVILL.
CULTIVATOR.

No. 52,754.

Patented Feb. 20, 1866.



Witnesses:

Wm. Edlyn
J. S. & Co.

Inventor:

John Savill
Wm. Co.
Attorneys

UNITED STATES PATENT OFFICE.

JOHN SAVILL, OF MONMOUTH, ILLINOIS.

IMPROVEMENT IN CULTIVATORS.

Specification forming part of Letters Patent No. 52,754, dated February 20, 1866.

To all whom it may concern:

Be it known that I, JOHN SAVILL, of Monmouth, in the county of Warren and State of Illinois, have invented a new and Improved Cultivator; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a side view of my invention; Fig. 2, a plan or top view of the same; Fig. 3, a transverse vertical section of a portion of the same, taken in the line *x x*, Fig. 1.

Similar letters of reference indicate corresponding parts.

This invention relates to a new and improved cultivator of that class in which the plow-beams are rendered adjustable, so that they may penetrate a greater or less depth into the earth, be raised out of the ground when the device is to be turned or moved from place to place, and the plows placed at a greater or less distance apart, as may be desired.

The invention consists in a novel construction and arrangement of the parts, as hereinafter fully set forth, whereby the plow-beams may be adjusted with the greatest facility and a proper weight kept upon the neck-yoke at all times.

A represents the draft-pole of the machine, to the rear part of which the axle B is attached, said axle being of curved or bent form and having horizontal arms, *a a*, attached to its ends.

On each arm, *a*, a fork or bracket, C, is fitted loosely in which the wheels D are fitted, the axes of the wheels passing through the lower parts of the brackets, as shown in Figs. 1 and 3.

To the upper parts of the brackets, above the arms *a a*, the front ends of the plow-beams E E are attached by pivot-bolts, *b*, said beams resting upon circle-plates *c*, in order to provide them a proper support and prevent wear.

Each plow-beam has two plows, F F, at-

tached in the usual way, the standards G being slightly inclined and braced by rods *d*, as shown in Figs. 1 and 2.

A handle, H, is attached to each plow-beam, and to the rear end of the draft-pole two hooks, *e e*, are secured.

To the front end of each plow-beam a splinter-bar, I, is attached, the inner ends of the latter being connected, by rods J, to a splinter-bar, K, attached to the draft-pole. By this arrangement a perfect evener or draft connection is obtained, the plows pulled horizontally along without having a tendency to dip or sink deeper into the earth than is required or to pass up out of the earth, and the draft of each horse equalized as near as may be.

The plow-beams, it will be seen, may be moved laterally and also readily raised by lifting the rear ends of the plow-beams, as indicated in red in Fig. 1, and they may be retained in an elevated state by placing the inner brace-rods, *d*, over the hooks *e* at the rear end of the draft-pole. In thus raising the plow-beams the wheels D are moved or thrown back, so that their axes will be at the rear of the arms *a a*, and the weight of the plow-beams on the rear of the draft-pole will be compensated for by this backward movement or adjustment of the wheels, and hence there will be a proper downward pressure on the neck-yoke.

The plows may be adjusted at a greater or less distance apart by having the arms *a a* made sufficiently long to admit of the forks or brackets C being adjusted farther outward or inward on said arms, the brackets being retained in proper position on the arms by means of thimbles or washers *f*, which may be made of different lengths and placed either at the outer or inner sides of the brackets. (See Fig. 3.)

The depth of the penetration of the plows into the earth may be regulated by adjusting the axes of the wheels D higher or lower in the brackets C, a series of holes being made in the brackets to admit of that.

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

1. The bent axle A provided with arms *a a*, in combination with the brackets C C, containing the wheels D and fitted on the arms *a*, substantially as and for the purpose set forth.
2. Connecting the front ends of the plow-beams E E to the upper ends of the brackets C C by pivot-bolts *b*, arranged with circle-

plates *c*, substantially as and for the purpose specified.

3. The evener or draft-regulator composed of the splinter-bars I I K, connected by the rods J, and arranged substantially as described.

JOHN SAVILL.

Witnesses:

ELIAS WILLITS,
WM. S. STRUTHERS.