

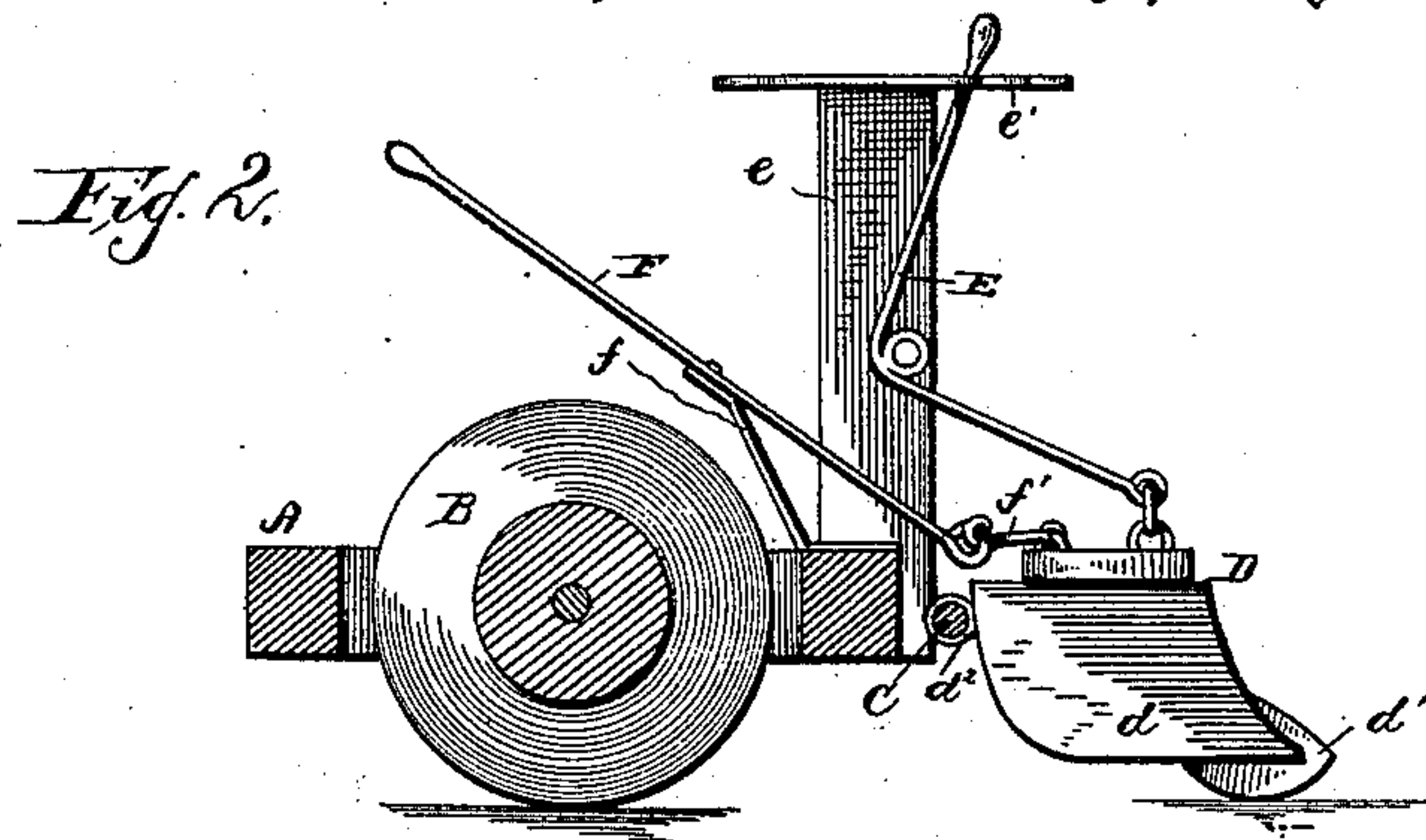
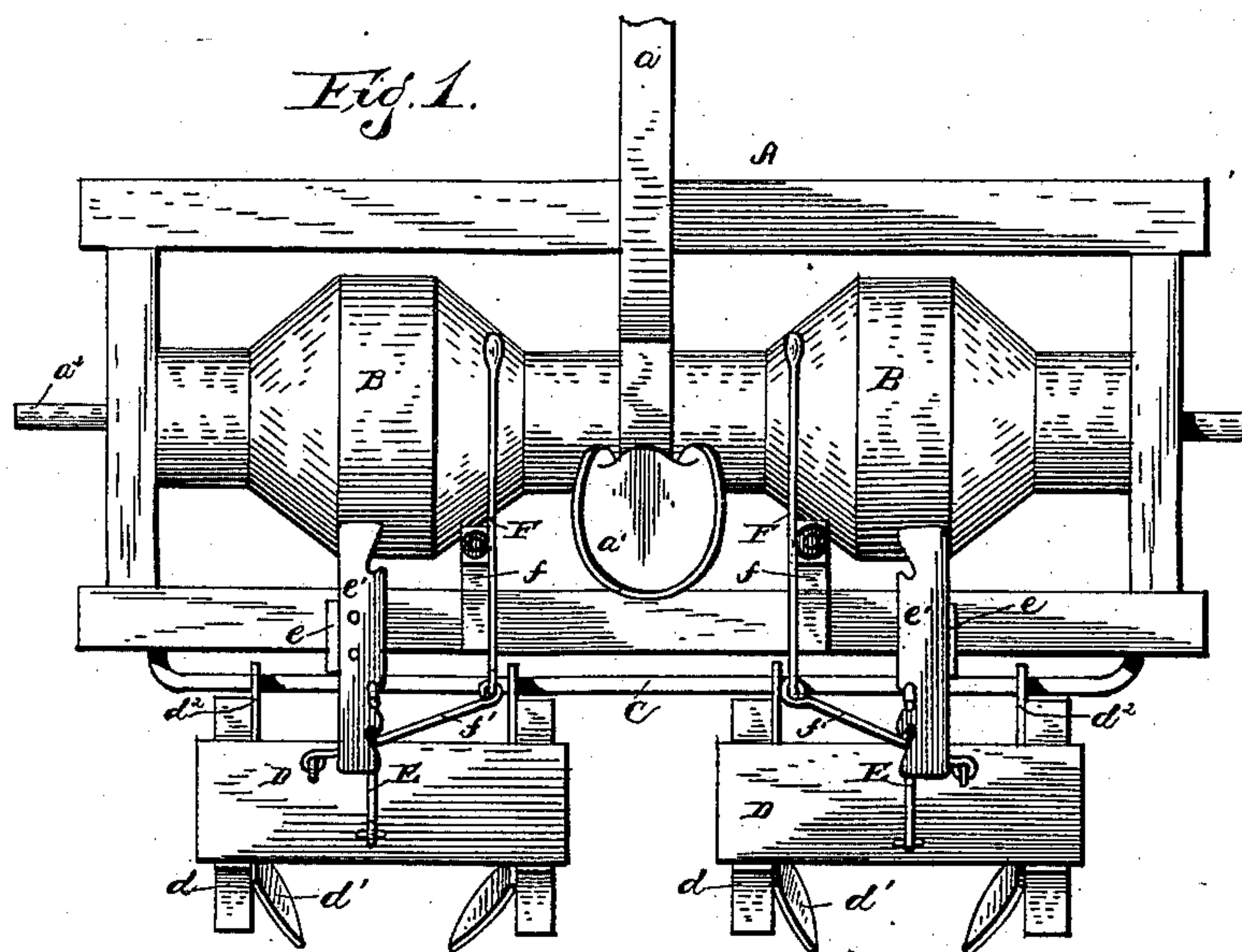
(No Model.)

S. W. DECKER.

CULTIVATOR.

No. 362,575.

Patented May 10, 1887.



Witnesses  
John Enders Jr.  
Arthur M. Hill.

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# UNITED STATES PATENT OFFICE.

SAMUEL W. DECKER, OF VERDON, NEBRASKA.

## CULTIVATOR.

SPECIFICATION forming part of Letters Patent No. 362,575, dated May 10, 1887.

Application filed March 14, 1887. Serial No. 230,888. (No model.)

*To all whom it may concern:*

Be it known that I, SAMUEL W. DECKER, a citizen of the United States, residing at Verdon, in the county of Richardson and State of Nebraska, have invented certain new and useful Improvements in Cultivators; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention pertains to certain new and useful improvements in cultivators; and it consists in the detailed construction, combination, and arrangement of the parts, substantially as hereinafter fully set forth, and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is a plan view of my invention, and Fig. 2 is a central cross-sectional view thereof.

In carrying out my invention I employ an approximately oblong frame, A, composed of corresponding side and end pieces and a central connecting-bar, to which latter is connected the rear end of the tongue *a*, and immediately over this central connecting-bar is supported by ordinary means the seat *a'* for the driver or operator.

B B are two corresponding rollers, preferably of wood, which rollers are caused to revolve on a central rod or axle, *a*<sup>2</sup>, supported at its ends and center by the end pieces and central connecting-bar of the frame A, as shown.

To the side of the rear longitudinal side pieces of the frame A is secured a rod, C, the main portion thereof being parallel with the side piece, to which its right-angular ends are connected, as shown in Fig. 1.

D D are two corresponding frames having shoes or runners *d*, to the inner opposite sides of which shoes or runners are connected plow-knives *d'*, which will be further referred to hereinafter. Two eye-bars, *d*<sup>2</sup> *d*<sup>2</sup>, are connected to the shoes or runners of each of the frames D, and through the eyes of said bars is passed the rod C, before referred to.

To the rear central edge of each frame D is

loosely connected, by short chains or links, the rear end of an approximately-L-shaped lever, E, said levers being pivotally secured to the sides of upright bars or standards *e e*, upon the upper horizontal ends of which are disposed notched plates *e'*, in any one of which notches the upper end of each of said levers is secured, as will appear hereinafter.

Upon suitable supporting plates or brackets, *f*, secured to the rear side piece of the frame A, are pivotally-disposed levers F, the rear ends of which loosely connect with bars or rods *f'*, secured at their other or free ends to the forward longitudinal edge of each frame D, at a short distance beyond the center thereof, as seen in Fig. 1.

From what has been said it will be seen that by moving the outer ends of the levers F in the desired direction the sliding frames D will be caused to slide on the rod C in either direction, according as to the width of the rows of corn undergoing the cultivating operation, and that by pressing rearwardly on the L-shaped levers E, causing the same to enter any one of the notches in the plates *e'*, the pivoted frames, together with their plow-knives, will be held at the desired point, according to the depth of penetration desired. When it is desired to elevate the plow-knives and frames from contact with the earth or soil, the same is effected by pulling forwardly on the L-shaped levers, causing the same to be retained in the foremost notch of the plates *e'*.

It will be seen that my invention is intended as a straddle-row cultivator, and that in operation the ground is first rolled and then all weeds are plowed or cut by means of the plow-knives, as before stated.

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

1. The herein-described cultivator, comprising the frame, the rollers supported thereby, the rod or bar connected to said frame, the sliding frames having plow-knives secured thereto, the levers connected to said frames, and the notched plates, all arranged substantially as shown and described.

2. The combination, with the frame and the rollers, of the sliding frames carrying plow-

knives, the bars or standards having notched plates, the L-shaped levers, and the levers connected by bars to said frames, substantially as shown and described.

- 5 3. In a cultivator, the combination, with the frame, the rod secured thereto, and the bars or standards having notched plates, of the frame having eye-bars, and the levers connected to said frames, substantially as shown and de-

scribed, whereby said frames may be raised and lowered and have a sliding movement, as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

SAMUEL W. DECKER.

Witnesses:

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