

D. D. Franklin. Wheel Cultivator.

No 93,611.

Patented Aug. 10, 1869.

Fig. 1.

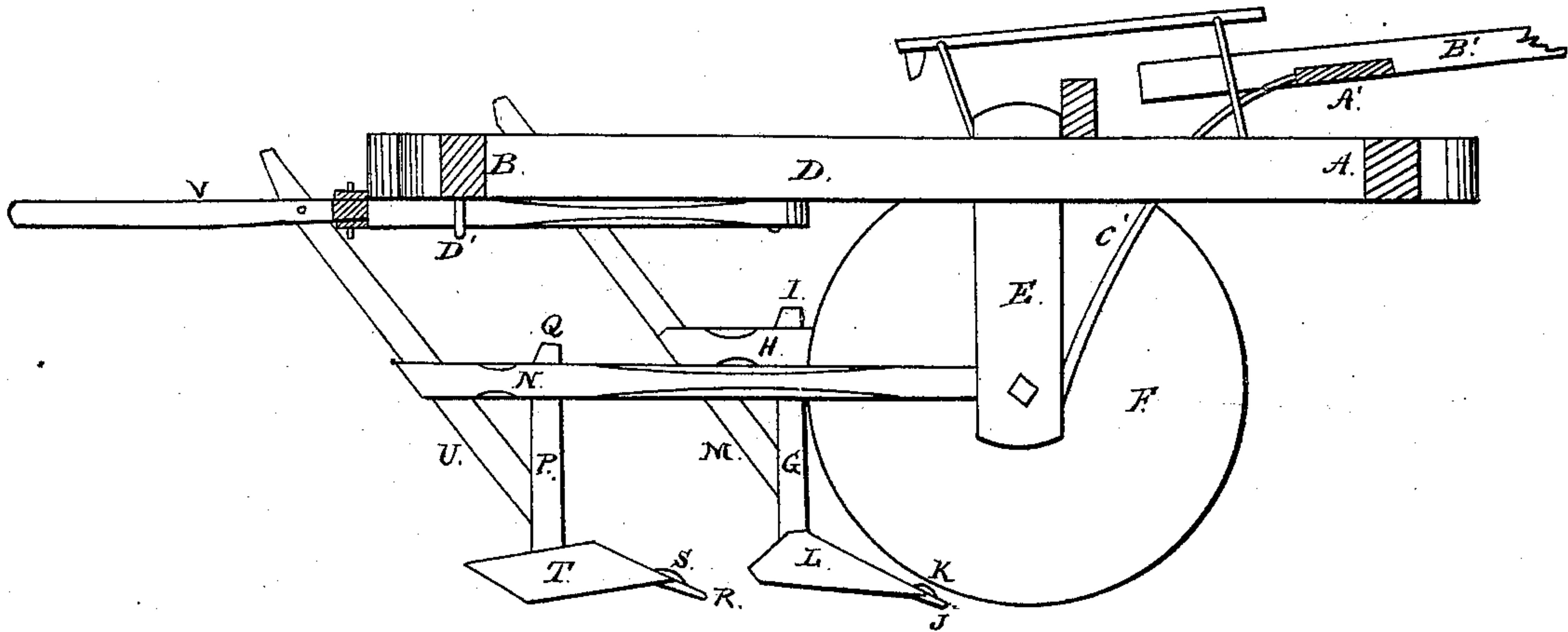
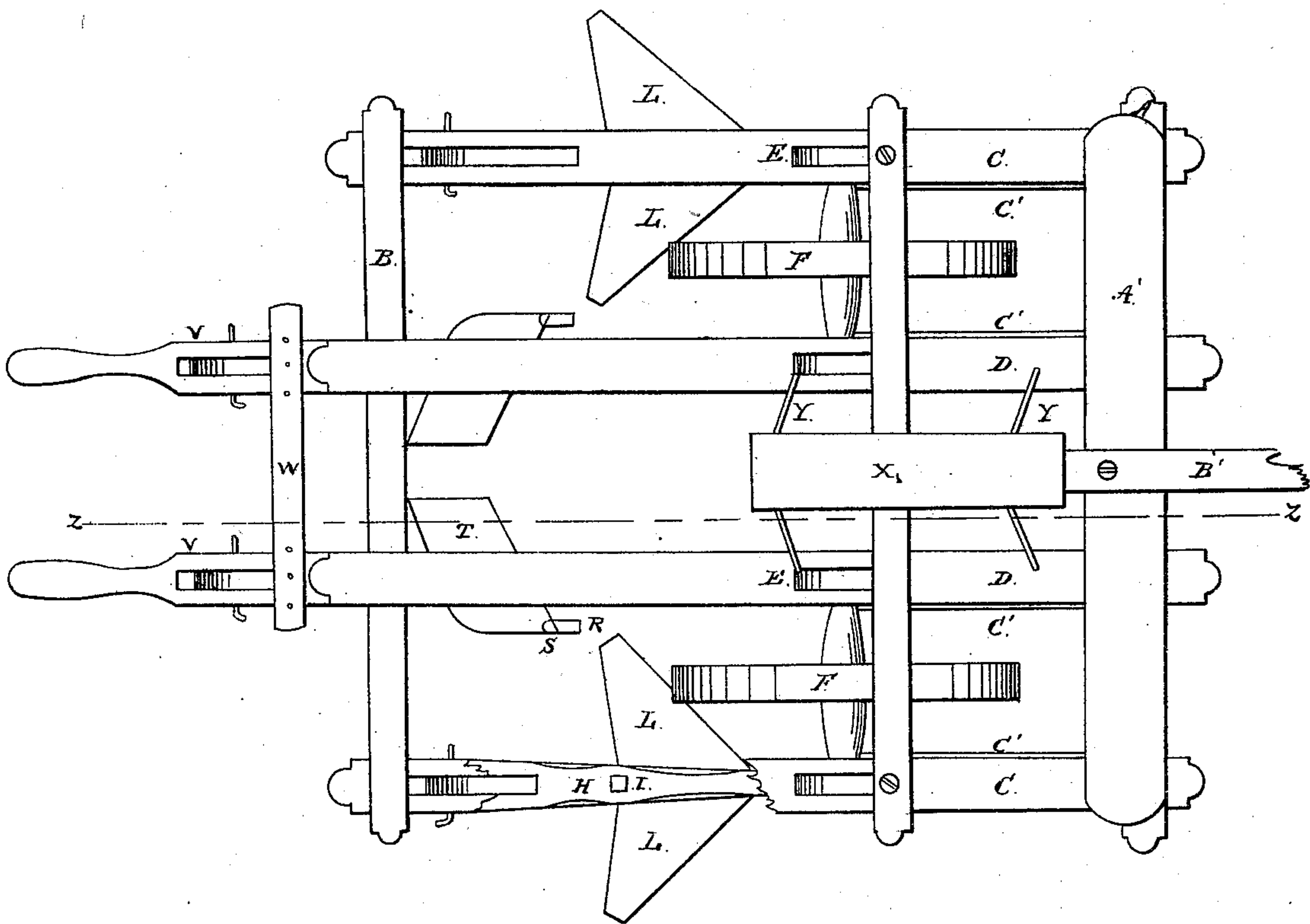


Fig. 2.



Witnesses;
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UNITED STATES PATENT OFFICE.

DANIEL D. FRANKLIN, OF FLORA, ILLINOIS, ASSIGNOR TO HIMSELF AND
J. S. UNDERWOOD, OF SAME PLACE.

IMPROVEMENT IN CULTIVATORS.

Specification forming part of Letters Patent No. 93,611, dated August 10, 1869.

To all whom it may concern:

Be it known that I, DANIEL D. FRANKLIN, of Flora, Clay county, in the State of Illinois, have invented certain new and useful Improvements in Cultivators; and I hereby declare the following to be a full and exact description thereof, reference being had to the accompanying drawings, forming part of this specification.

The nature or essence of my invention consists in the peculiar construction and arrangement of devices described and claimed in the following specification, and represented in the drawings referred to.

In the accompanying drawings, Figure 1 is a sectional elevation on the line $z z$ of Fig. 2. Fig. 2 is a plan or top view of a cultivator with my improvements.

In these drawings, A is the front and B the rear bar of the frame, which bars are connected by the side rails, C C, and middle rails, D D, making a strong frame, to which the other parts are fastened or connected.

E E are four standards, framed into the under side of the rails C and D, for the axles of the wheels F F, on which the cultivator travels.

The fore ends of the beams H of the two outside plows enter mortises in the standards E, and are secured by a pin or bolt higher or lower in the standard, as may be desired, to make the plows run deep or shallow.

The coulter or front standard, G, of the plows is made in the form shown in the drawings, and fastened in the beam H by the nut I. The lower end of this standard G is bent forward to form the point J, which has a lip, K, on the top, with a recess under it to receive the fore end of the share L, which may be fastened to the foot of the standard G by bolts or otherwise. The standard G is supported by the brace M, which passes up through a score in the beam and through a slot in the rail C, where it is fastened by a pin or bolt, and may be adjusted higher or lower, as desired.

The beams N of the central plows are hung to the standards E, like the beams H, and the colters or standards P of these plows are fastened in the beams by the nuts Q. These standards P are bent sidewise and forward, to form the points R of the plows, which are provided with a lip, S, with a recess under it for the point of the share T of the plow.

The standards P are supported by the braces U, which pass up through a score in the end of the beam N and through a slot in the hand-levers V, in which they may be adjusted and fastened by a pin or bolt. These hand-levers V are pivoted on the under side of the rails D, so as to vibrate sidewise and move the plows as they run each side of a row of plants, and, when desirable, the hand-levers V may be connected by the yoke W, so as to move in unison.

The driver's seat X is supported by standards Y from the rails D, as shown in the drawings.

The draft-bar A', to which the pole B' is fastened, is connected to the lower ends of the standards E by the hounds or bars C', which are bent at a right angle, and pass through the lower ends of the standards and secured by nuts, so as to vibrate freely in the standards, so that the driver, by applying his weight to the fore end of the frame, can raise and hold the plows clear from the ground.

The long staple D' is put under the hand-levers V and fastened in the rear bar, B, to hold the levers up to the bar.

The two center plows, as shown in the drawings, are arranged to turn their furrows toward the row of plants; but by changing them they can be made to turn their furrows from the row when desired.

Having described my improvements, I claim—

1. The combination and arrangement of the draft-bar A', bent rods C', fastened to the lower ends of the standards E, so as to vibrate freely and permit the driver on his seat to rock the machine and raise the cultivator-teeth, substantially as described.

2. Hinging the cultivator-beams H and N and the pivots of the rods C' in the standards E so near the axles of the carrying-wheels that the machine can vibrate freely on the pivots of the carrying-wheels while in motion, substantially as described.

3. In combination with the stock and removable share, the lip on the stock for covering and holding the point of the share, substantially as described.

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