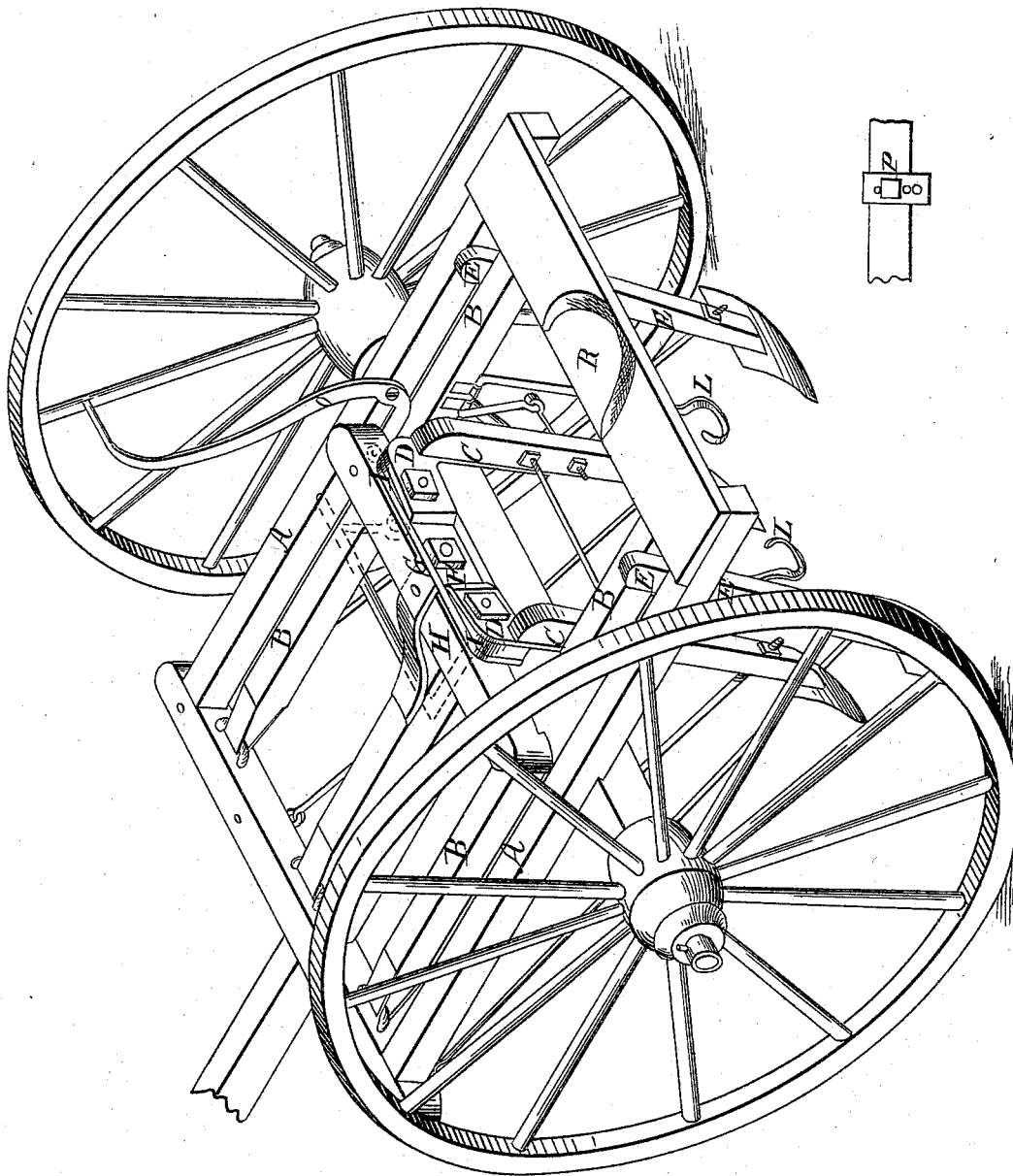


B. F. YOUNG.  
Wheel Cultivator.

No. 54,637.

Patented May 8, 1866.



Witnesses:

*Jno D. Allen*  
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# UNITED STATES PATENT OFFICE.

BENJAMIN F. YOUNG, OF TOULON, ILLINOIS.

## IMPROVEMENT IN CULTIVATORS.

Specification forming part of Letters Patent No. 54,637, dated May 8, 1866.

*To all whom it may concern:*

Be it known that I, BENJAMIN F. YOUNG, of Toulon, county of Stark, and State of Illinois, have invented a new and useful Cultivator for Cultivating Corn; and I do hereby declare that the following is a full and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification.

Figure 1 is a perspective view. Fig. 2 represents the gage upon which the shovel-frame B rests.

A is a frame which is bolted to an axle, on which are two wheels of such height as to allow the axle to pass over the corn.

B is another frame, which works inside the frame A and fastens to the front part of it by staples and straps, so as to allow the frame B to work up and down.

H is a cross-bar, which is bolted to the frame B directly over and parallel with the axle.

E E are standards. The upper ends of each are bolted to the back part, and outside of frame B a steel shovel is bolted to lower end of each standard. The standards are of such length as to allow the shovels to enter the ground at such depth as required.

C C are two more standards, which have shovels upon each, and are nearer together than the standards E E. They are fastened to the cross-bar H by means of crooked iron necks D D, which are bolted to the iron lever F, which is fastened to the cross-bar H by means of a pivot, which pivot allows the ends of lever F to work up and down.

I I are adjustable wooden wedges placed between the iron necks D D and the lever F, which can be adjusted so as to turn the shovels upon the standards C C so as to throw the dirt to or from the corn.

R is a seat for the driver, which is fastened to the back part of A.

L L are stirrup-levers, so made as to admit the driver's feet at the lower end. The upper ends are fastened to the frame A by means of straps so made as to allow them to swing. The levers after passing through the straps are bent downward again about eighteen inches, and are fastened to the standards C C

by a rod, by means of which the standards C C, together with the shovels, are moved to or from the corn.

O is a lever, by which the frame B is raised or lowered.

P is a gage or support which is bolted upon the back part of the axle directly under each side of the frame B. The gage can be raised or lowered by means of extra holes. The frame B rests upon the gage by which the depth the shovels can enter the ground.

The cultivator will be operated as follows: Two horses will be hitched to the cultivator by means of the tongue, as in a wagon. The driver after getting the cultivator to its proper place over the row of corn, will then throw forward the lever O, which will drop the frame B upon the supports P, which supports are so set as to allow the shovels to enter the ground to the required depth. If at any time the standards C C, or the shovels which are upon said standards, should run too close to the row of corn, the driver will press on the stirrup-levers, which will move the standards C C to the right or left, as may be required. When the end of the row of corn is reached the driver will pull the lever O toward him, which will raise the frame B, thereby lifting the shovels out of the ground.

Having thus described my invention, what I claim as new and improved, and wish to secure by Letters Patent, is—

1. The inside frame, B, and the mode of connecting it with the frame A, constructed and operated substantially as described.

2. The iron head F, hung upon a pivot, by which the front shovels are swung to the right or left.

3. The adjustable wooden wedges I, together with the crooked iron necks D, by which the front shovels are adjusted so as to throw the dirt to or from the corn.

4. The slide or gage P by which is adjusted the depth the shovels enter the ground.

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Witnesses:

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