(No Model.)

R. C. BUCKLEY.

STRADDLE ROW CULTIVATOR.

No. 486,027. Patented Nov. 8, 1892.

Fig. 1.

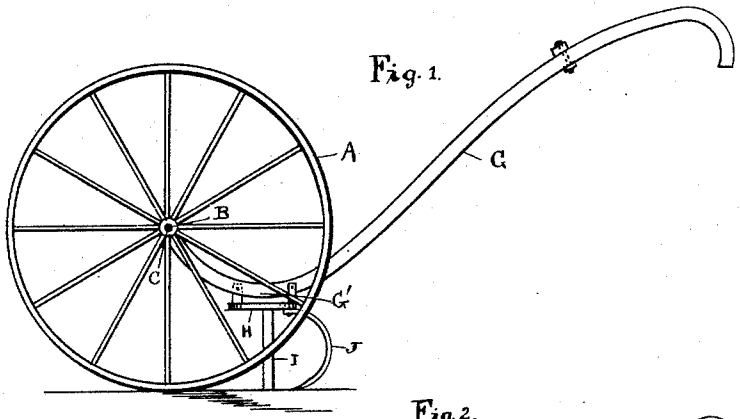


Fig. 2.

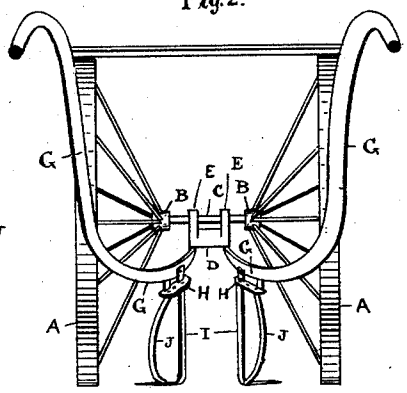


Fig. 7.

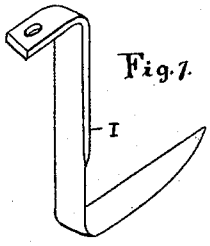


Fig. 6

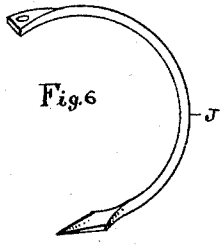


Fig. 3.

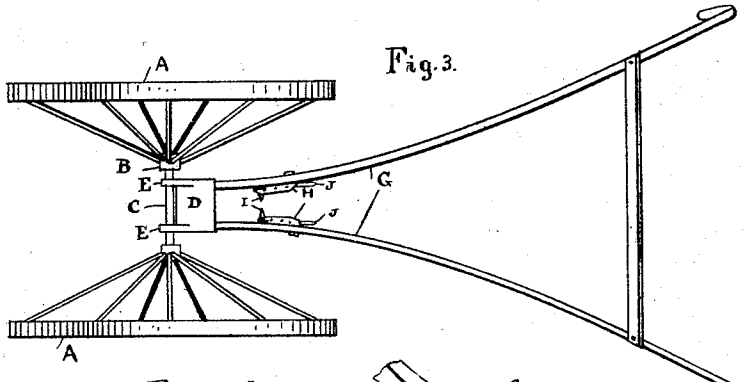


Fig. 4.

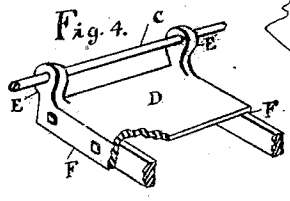
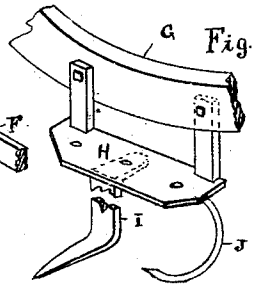


Fig. 5.



Witnesses
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C. Johnson

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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

ROBERT C. BUCKLEY, OF PEORIA, ILLINOIS.

STRADDLE-ROW CULTIVATOR.

SPECIFICATION forming part of Letters Patent No. 486,027, dated November 8, 1892.

Application filed March 23, 1892. Serial No. 426,158. (No model.)

To all whom it may concern:

Be it known that I, ROBERT C. BUCKLEY, a citizen of the United States, residing at Peoria, in the county of Peoria and State of Illinois, have invented certain new and useful Improvements in Straddle-Row Cultivators; and I do hereby 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.

This invention relates to improvements in hand-cultivators of that class which straddle the rows of vegetation to be cultivated.

The object of the invention is to do away with the arch ordinarily used on implements of this kind and to form an arch by the axle and the peculiarly-shaped wheels instead to better accomplish the purpose for which the machine was intended.

In the accompanying drawings, Figure 1 represents a side view of the cultivator, showing the construction of the handle-bars and also showing a hanger attached to the said handle-bars. Fig. 2 is a rear view of the cultivator, showing the peculiar construction of the wheels and handle-bars. Fig. 3 is a plan view of the cultivator, showing construction. Fig. 4 is a perspective view of a hanger used on the axle of cultivator to support the handle-bars. Fig. 5 is a perspective view of a portion of one of the handle-bars, showing a hanger or bracket attached thereto for carrying the cultivating-teeth. Fig. 6 is a perspective view of a curved tooth used on the cultivator; and Fig. 7 is also a perspective view of a cutting-tooth, also used on the device.

A A represent the wheels of the cultivator, whose hubs B B are set in toward each other, and the axle C is used to mount the said wheels thereon. A hanger D is provided with the ears E, by which said hanger D is hung from the axle C. The said hanger is provided with two depending ears or flanges F F, to the inner sides of which are bolted the curved handle-bars G. It will be seen that the forward end of said handle-bars are placed very close together, for the purposes presently set forth. The bars are also curved to drop very low, as shown at G′ in Figs. 1 and 2, and to the lowest points thereon are bolted the tooth-supports H, which are provided with a series of one or more holes for securing the teeth thereon.

The cutting-tooth I (shown bolted to the hanger H and shown separately in Fig. 7) is in the shape of an **L**, and the horizontal portion and a portion of the length of the vertical portion is sharpened to form a cutting-edge.

The tooth J (shown in Fig. 6 separately) is made of round iron and is in the shape of a **U**, one end being bolted to the hanger H and the lower end being sharpened to form the point, as shown in the drawings. The peculiar merits of this construction are that instead of using the heavy and cumbersome, and at the same time unsightly, arch which is generally used on machines of this class and which makes the device more complicated and does not even then perform the work perfectly, I form the arch of the machine by the use of the convexed wheels and the axle.

It will be seen that the wheels may be set very far apart at the base and away from the rows of vegetation, and the wheels being of large diameter the axle is placed very high, and this allows the stalks being cultivated to easily pass under, and the cultivating-teeth I and J are set close together by reason of the peculiarly-shaped handle-bars before mentioned, and this allows the row to be perfectly cultivated.

I claim—

In a cultivator, a pair of convex carrying-wheels having their hubs set in toward each other, an axle C, having a bracket or hanger D secured thereto, and a pair of handles secured to the said hanger D, said handles having their forward portions curved downward to near the ground and supporting the hangers H, to which are bolted the cultivating-teeth I and J, substantially as herein set forth and described.

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

ROBERT C. BUCKLEY.

Witnesses:
C. JOHNSON,
A. KEITHLEY.