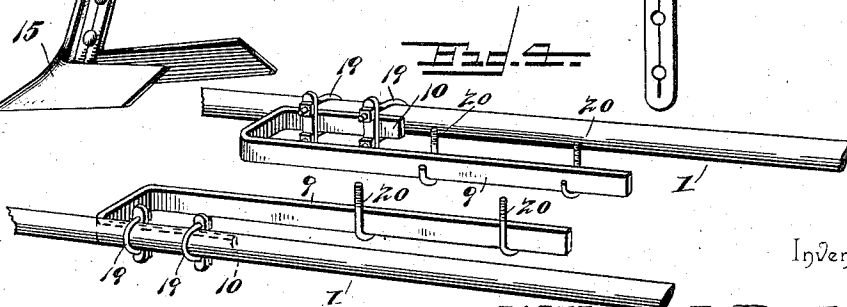
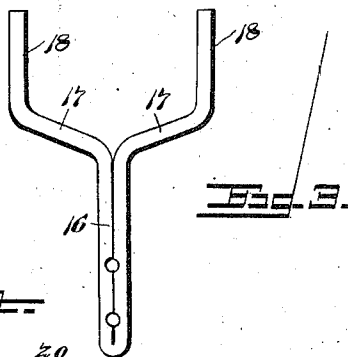
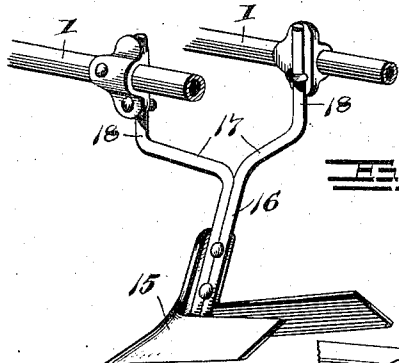
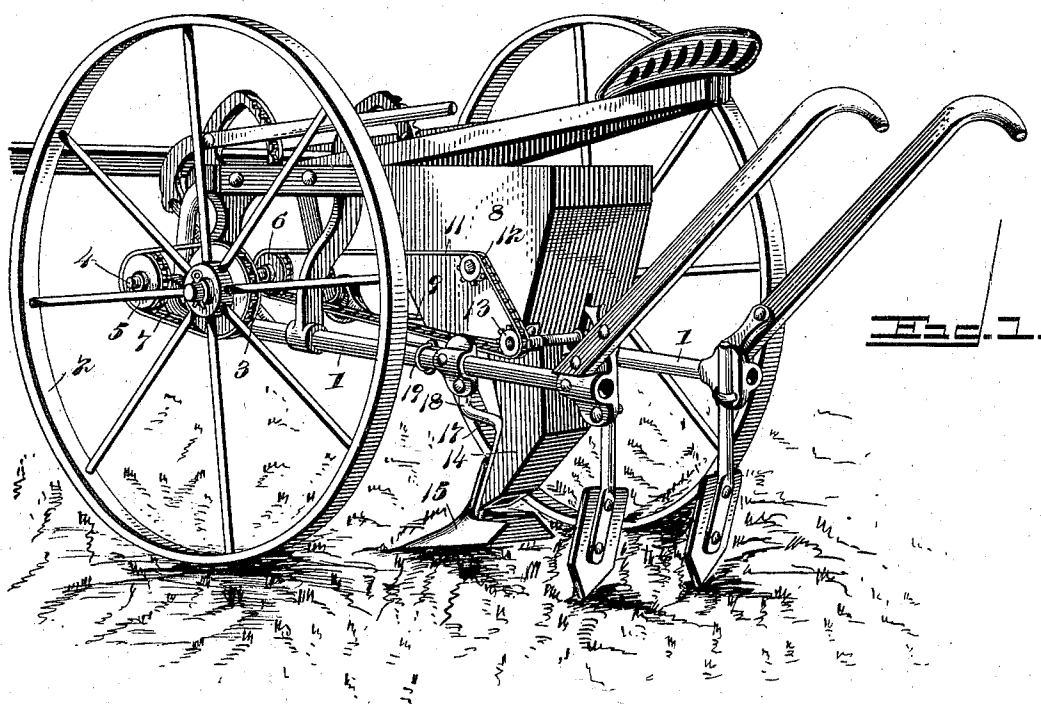


(No Model.)

W. L. DAYTON.
CULTIVATOR ATTACHMENT.

No. 577,726.

Patented Feb. 23, 1897.



Inventor

William L. Dayton

Witnesses
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UNITED STATES PATENT OFFICE.

WILLIAM L. DAYTON, OF AUSTIN, TEXAS.

CULTIVATOR ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 577,726, dated February 23, 1897.

Application filed December 14, 1896. Serial No. 615,622. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM L. DAYTON, a citizen of the United States, residing at Austin, in the county of Travis and State of Texas, have invented a new and useful Cultivator Attachment, of which the following is a specification.

This invention relates to means whereby a wheel-cultivator of any style, pattern, or make can be readily converted into a land-marker or planter, thereby increasing the range of usefulness of this class of implements and reducing the outlay to the farmer by obviating the necessity of providing separate implements for each variety of work. For laying off land the cultivator-gangs are stripped of the cultivator-shovels and are fitted with a forked stock bearing a point, and for planting the rear shovels are retained and serve as coverers and the point of the forked stock as an opener.

For a full understanding of the merits and advantages of the invention reference is to be had to the accompanying drawings and the following description.

The improvement is susceptible of various changes in the form, proportion, and the minor details of construction without departing from the principle or sacrificing any of the advantages thereof, and to a full disclosure of the invention an adaptation thereof is shown in the accompanying drawings, in which—

Figure 1 is a perspective view of a wheel-cultivator, showing it equipped and as it will appear when in condition for use as a planter. Fig. 2 is a detail view showing the marking or laying off attachment applied to the beams which ordinarily bear the cultivator-gangs. Fig. 3 is a detail view of the forked stock. Fig. 4 is a detail view of the beams and frame which support the hopper.

Corresponding and like parts are referred to in the following description and indicated in the several views of the drawings by the same reference-characters.

The cultivator is of the wheel type and can be used either walking or riding, and is illustrated to show the application of the invention. The beams 1 are ordinarily supplied with the cultivator-gangs, which are removed when the attachment is placed in position. One of the ground-wheels, as 2, is

provided with a sprocket-wheel 3 for operating the seed-dropping mechanism, said sprocket-wheel being secured to the ground-wheel in any convenient way, so as to revolve therewith. A shaft 4 is journaled to a convenient portion of the frame, and is provided with a sprocket-wheel 5 and a sprocket-pinion 6, a sprocket-chain 7 connecting the sprocket-wheels 3 and 5, whereby motion is transmitted from the ground-wheel to the shaft 4.

The hopper 8 is supported upon a frame composed of similar parts 9, which are secured to the beams 1, each part being formed of a bar having an end portion 10, recurved or bent so as to provide a frame of sufficient extent to properly support the hopper. This hopper is provided with an agitator and a seed-dropping wheel in the ordinary manner, and these parts are driven by means of a sprocket-chain 11, which receives motion from the shaft 4 by passing around the sprocket-pinion 6 and engages with sprocket-pinions 12 and 13 on the shafts of the agitator and seed-dropping wheel. The grain spout or tube 14 connects with the hopper and conveys the grain to the furrow provided by the opener 15.

The stock bearing the opener 15 is formed of a bar of iron or steel, round, square, oblong, or of any suitable form in cross-section, bent upon itself, forming a shank 16, and having its end portions bent outward, as shown at 17, thence parallel with each other and with the shank 16, as shown at 18, presenting the appearance of a forked stock, the forks 18 being secured to the beams 1 in any way found most advantageous, preferably by the same means employed for securing the ordinary cultivator-shovels in place. The members forming the shank 16 are welded or otherwise secured together, and have an opening at the toe for the passage therethrough of the fastening-bolt, by means of which the opener 15 is secured in place. This forked stock is located in advance of the grain spout or tube 14, and its shovel or point 15 is the means for marking or laying off the ground and for opening the soil to receive the seed. When the implement is equipped for marking or laying off the ground, all the cultivator-shovels are removed as well as the planting mechanism.

ism, and the forked stock, with its opener or shovel 15, is placed in position substantially as shown in Fig. 2, but when the implement is to be used for sowing seed it is equipped substantially as shown in Fig. 1, the rear cultivator-shovels being left in place and adjusted so as to serve as coverers to throw the earth over the seed after the latter has been deposited in the furrow.

10 The frame-pieces 9 are secured to the beams 1 by means of clips 19 or in any desired manner, and the hopper is made fast to the parts 9 by hooked bolts 20, the hooked ends engaging with the parts 9, as shown in Fig. 4, and 15 the threaded ends passing through the hopper-bottom and receiving nuts which hold the parts in place.

Having thus described the invention, what is claimed as new is—

20 1. In a wheel-cultivator, the combination with the beams bearing the cultivator-gangs, of a forked stock adapted to replace two of the cultivator-shovels, and having its fork-arms secured to the said beams, and a shovel 25 or plow-point attached to the forked stock, substantially as shown for the purpose described.

2. In a wheel-cultivator, the combination of the gang-bearing beams, a forked stock 30 formed of a bar doubled upon itself, providing a shank, and having its end portions bent outward, thence parallel, forming arms which

are secured to the said beams, and a shovel or point secured to the shank of the forked stock, substantially as set forth. 35

3. In a wheel-cultivator, the combination of the gang-bearing beams, a frame supported by the said beams and composed of similar parts constructed of a bar having an end portion recurved or bent upon itself, a hopper 40 mounted upon the said frame, means for actuating the seed-dropping mechanism, and a forked stock secured to the said beams and bearing an opener, substantially as and for the purpose set forth. 45

4. In a wheel-cultivator, the combination of the gang-bearing beams, a frame applied to the said beams, a hopper mounted upon the said frame, a shaft journaled to the frame of the cultivator and receiving motion from a 50 ground-wheel, means for transmitting motion from the said shaft to the seed-dropping mechanism, and a forked stock secured to the said beams and having an opener to operate in advance of the grain-spout, substantially as and 55 for the purpose set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

WILLIAM L. DAYTON.

Witnesses:

E. K. BLACK,

E. A. WHEELER.