

No. 617,455.

Patented Jan. 10, 1899.

R. L. ALEXANDER.
CORN CULTIVATOR.

(Application filed Sept. 9, 1897. Renewed Sept. 29, 1898.)

(No Model.)

Fig. 1.

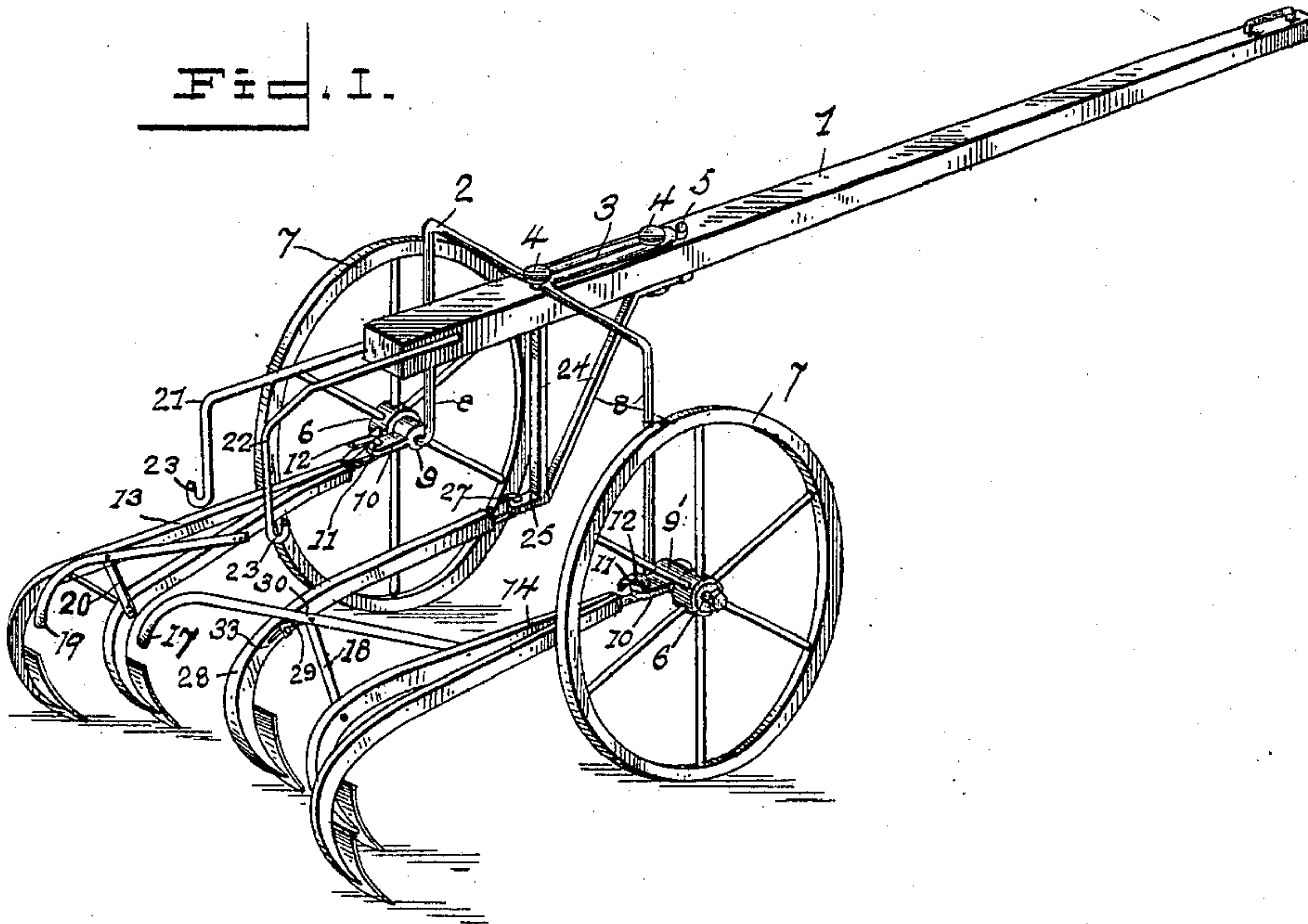
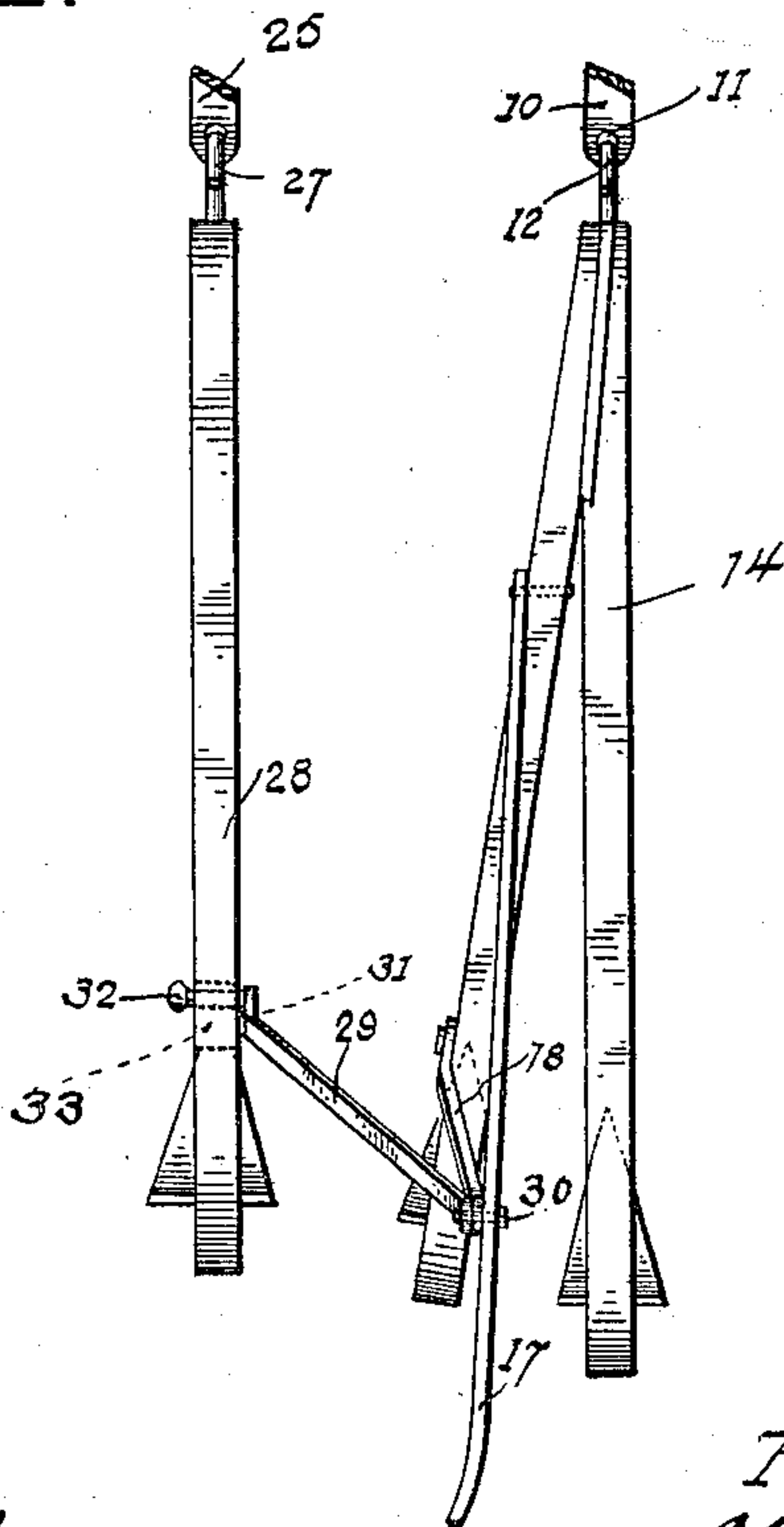


Fig. 2.



Witnesses:

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UNITED STATES PATENT OFFICE.

ROBERT LEE ALEXANDER, OF STOUTLAND, MISSOURI.

CORN-CULTIVATOR.

SPECIFICATION forming part of Letters Patent No. 617,455, dated January 10, 1899.

Application filed September 9, 1897. Renewed September 29, 1898. Serial No. 692,236. (No model.)

To all whom it may concern:

Be it known that I, ROBERT LEE ALEXANDER, a citizen of the United States, residing at Stoutland, in the county of Camden and State of Missouri, have invented certain new and useful Improvements in Corn-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.

My invention relates to an improved cultivator, and it is designed more particularly for cultivating corn, the object being to provide a simple, inexpensive, and effective labor-saving implement for this purpose.

To this end the invention consists in the construction, combination, and arrangement of the several parts of the same, as will be hereinafter more fully described, and particularly pointed out in the claim.

In the accompanying drawings the same reference characters indicate the same parts of the invention.

Figure 1 is a perspective view of my improved corn-cultivator. Fig. 2 is a top plan view of the central and right-hand cultivator-beams.

1 represents the usual tongue, to which the draft is applied in any approved manner.

2 represents the drop-axle, the same being formed with a longitudinal loop 3, which extends horizontally along the top of the tongue and is fixed thereto by the bolts 4 4, the forward end of the loop abutting against a stud 5 to assist the bolts in rigidly securing the axle to the tongue.

6 6 represent the horizontally-alined journals of said drop-axle, on which are mounted the carrying-wheels 7 7, that portion of the journals 6 6 between the hubs of the carrying-wheels and the lower ends of the vertical arms 8 8 of said axle forming bearings for the boxes 9 9'. These boxes are provided at their rear ends with horizontal ears 10 10, formed with vertical orifices 11 11, which receive the hooks 12 12 of the duplex plow-beams 13 and 14, which are formed with integral standards 15 to receive the usual cultivator-blades 16.

The duplex beam 13 is provided with a handle 17, connected thereto at its forward end

and supported at its rear end by a vertical brace 18. A similar handle 19 is likewise fixed to the beam 14 and stayed thereto by the vertical brace 20.

21 and 22 represent brackets fixed to the opposite parallel sides of the tongue, and they extend rearwardly and downwardly, as shown, the lower ends terminating in hooks 23, which engage the handles 17 and 19 to support the duplex beams 13 and 14 above ground when the machine is traveling from place to place or whenever it is not in practical operation.

A depending bracket 24 is fixed to the under side of the tongue 1, and its lower end terminates in an eye 25, which receives the draft-hook 27, fixed to the forward end of the plow-beam 28, which trails behind the tongue about midway between the duplex beams 13 and 14.

A lateral brace 29 is secured to the right-hand handle 17 by means of the bolt 30, which also secures the brace 18 to said handle. The lower end of this brace 29 is provided with an orifice 31 to receive the bolt 32, which extends through a longitudinal slot 33 in the beam 28 to permit said beam to be thrown on either side of the hill or row, as occasion may require, thereby keeping the corn clean in the hill or row while it is small and also keeping the ground loose about the hills.

Although I have specifically described the construction and relative arrangement of the several elements of my invention, I do not desire to be confined to the same, as such changes or modifications may be made as clearly fall within the scope of my invention without departing from the spirit thereof.

Having thus fully described my invention, what I claim as new and useful, and desire to secure by Letters Patent of the United States, is—

A corn-cultivator, comprising the tongue 1, the drop-axle 2, formed with a central longitudinal loop 3, fixed to the upper face of said tongue by means of the bolts 4, and stud 5; and provided with the lateral journals 6 6, and the carrying-wheels 7 7 mounted thereon, in combination with the boxes 9 9, loosely mounted on said journals and provided with the integral ears 10 10 formed with the orifices 11 11, the duplex plow-beams 13 and 14, pro-

vided with the draft-hooks 12 12, removably
secured to said boxes, and provided with the
handles 17 and 19; the central depending
bracket 24, formed with the eye 25, the cen-
5 tral beam 28 provided with the hook 27 en-
gaging the orifice in said bracket 24, and pro-
vided with the longitudinal transverse slot
33, and the lateral brace 29, connected to the
handle 17, and loosely fixed at its lower end

to said central draft-beam 28, substantially 10
as shown and described.

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

ROBERT LEE ALEXANDER.

Witnesses:

W. E. ROWDEN,
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