

No. 670,541.

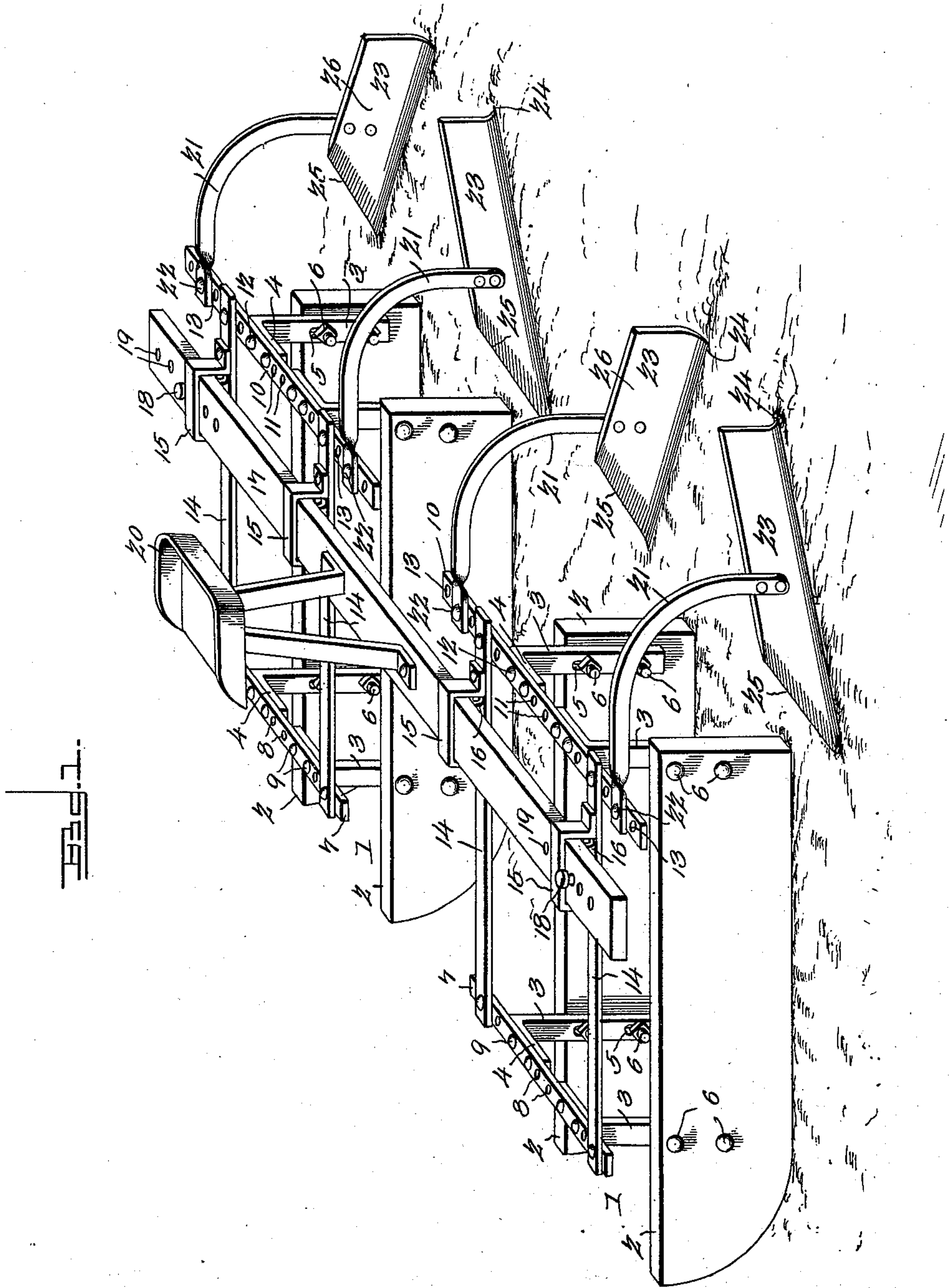
Patented Mar. 26, 1901.

C. C. KEITH.
LISTED CORN CULTIVATOR.

(Application filed July 28, 1900.)

(No Model.)

2 Sheets—Sheet 1.



Witnesses

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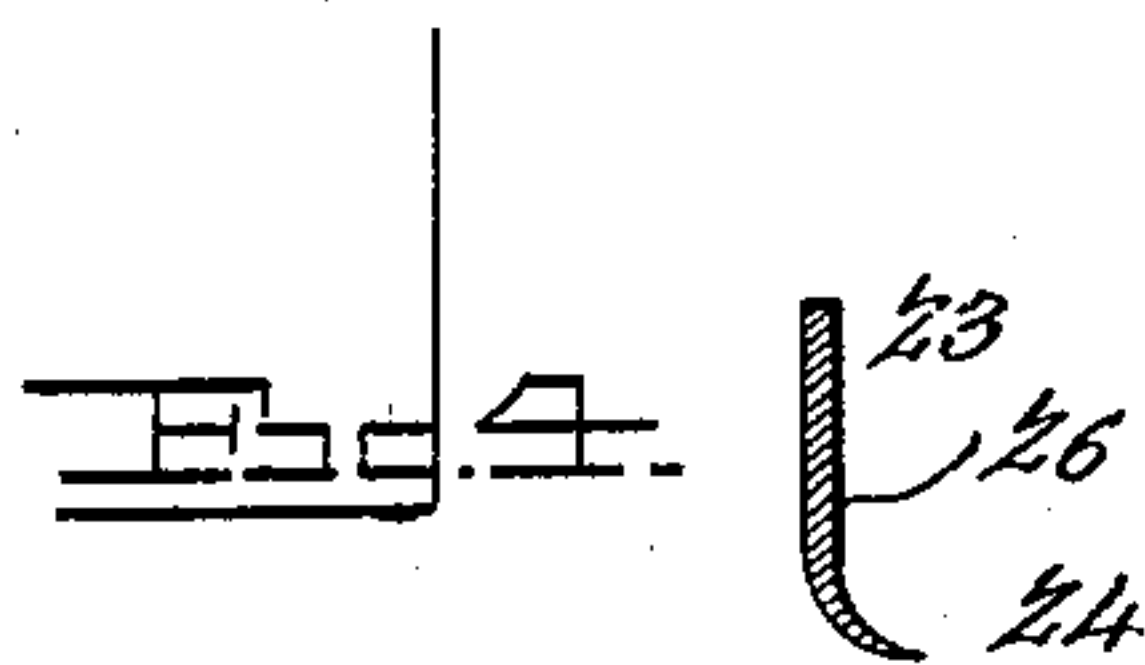
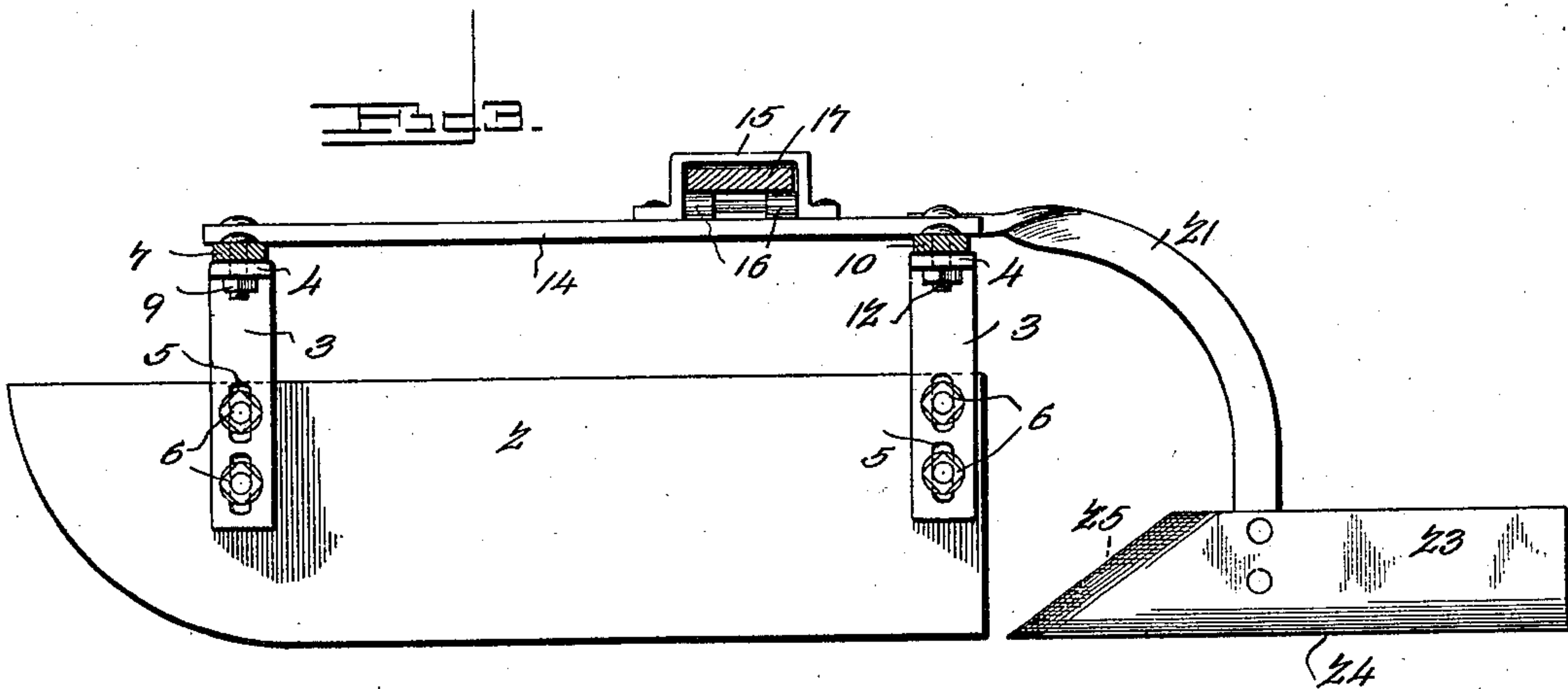
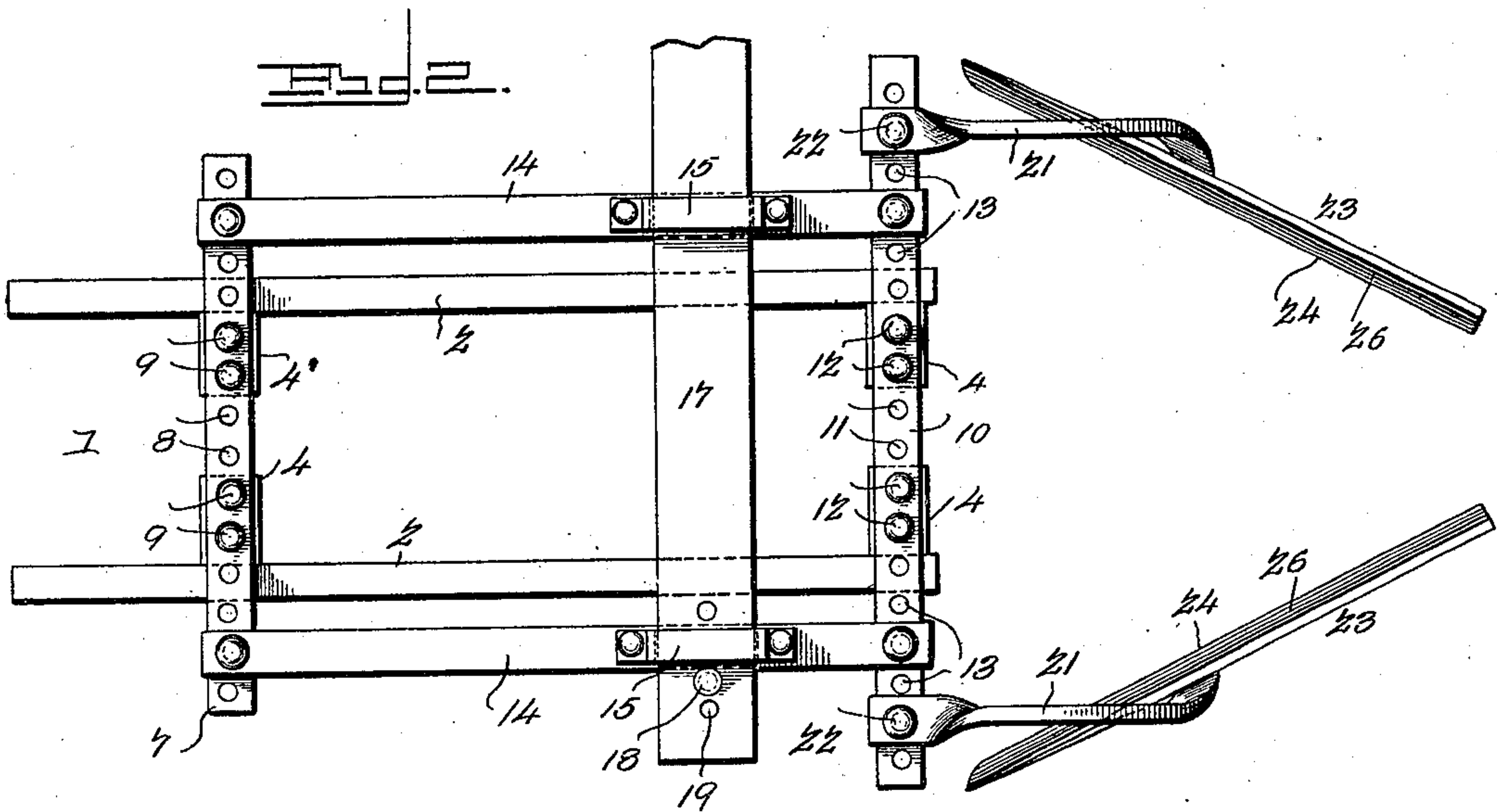
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UNITED STATES PATENT OFFICE.

CASSIUS C. KEITH, OF BLADEN, NEBRASKA.

LISTED-CORN CULTIVATOR.

SPECIFICATION forming part of Letters Patent No. 670,541, dated March 26, 1901.

Application filed July 28, 1900. Serial No. 25,153. (No model.)

To all whom it may concern:

Be it known that I, CASSIUS C. KEITH, a citizen of the United States, residing at Bladen, in the county of Webster and State of Nebraska, have invented a new and useful Listed-Corn Cultivator, of which the following is a specification.

My invention is an improved listed-corn cultivator; and it consists in the peculiar construction and combination of devices herein-after fully set forth, and pointed out in the claim.

In the accompanying drawings, Figure 1 is a perspective view of a listed-corn cultivator embodying my improvements. Fig. 2 is a top plan view of a single section of the same. Fig. 3 is a vertical longitudinal sectional view of the same. Fig. 4 is a detail sectional view of one of the cultivator-knives.

In the embodiment of my invention I provide cultivator-sections 1, which may be used singly to cultivate one row of corn at a time or combined in numbers of two or more to cultivate two or more rows of corn simultaneously. The said sections are alike in construction, and I will now describe one of them.

A pair of runners 2, which are of suitable size, are provided on their inner sides, near their front and rear ends, with vertically-disposed brackets 3, which are provided at their upper ends with horizontally-disposed inwardly-extending arms 4. The said brackets 3 are provided with vertical adjusting-slots 5, and bolts 6, which secure the said brackets to the said runners, operate in the said slots, and thereby the said brackets may be adjusted vertically with relation to the runners, as will be understood. A cross-bar 7 is bolted on the arms 4 of brackets 3 near the front ends of the runners and, together with the said brackets, connects the said runners together. The said cross-bar 7 is provided with adjusting-openings 8 for the bolts 9, whereby the front ends of the runners may be laterally adjusted to widen or narrow the space between them. A cross-bar 10, which is similar in construction to the cross-bar 7, but is longer than the latter, connects the brackets 3 at the rear ends of the runners. The said cross-bar 10 is provided with a series of adjusting-openings 11 for the bolt 12, which secures the same to the arms of the said bracket to admit of the lat-

eral adjustment of the rear ends of the runners, and the end portions of the said cross-bar 10, which extend beyond the rear brackets 3 and beyond the outer sides of the runners 2, are provided with adjusting-openings 13. Longitudinally-disposed bars 14 connect the cross-bars 7 10 and are bolted thereto, as shown. Said bars 14 are provided on their upper sides, near their rear ends, with keepers 15, in the lower sides of which are mounted rollers 16. Where two or more of my cultivator-sections are connected together, as shown in Fig. 2, the connecting-bar 16 is passed through the said keepers 15 and bears on the said rollers 16. Pins 18 in adjusting-openings 19, with which said connecting-bar is provided near its ends, secure the sections 1 to the said connecting-bar at any desired distance apart. The connecting-bar supports the seat 20 for the driver. Beams 21, which are preferably of the form here shown, have their front ends bolted to the extended end portions of the cross-bar 10 by means of bolts 22, which are placed in appropriate adjusting-openings 13. The said beams extend rearward from the cross-bar, and to their downturned rear ends are secured the obliquely-disposed cultivator-knives 23. Said cultivator-knives are preferably of the form here shown and have the horizontal lower cutting edges 24 and the inclined front cutting edges 25, said cutting edges 24 25 being sharpened and converging to a point at the front of each knife. The said knives are concaved on their inner faces 26, as shown, and the same, owing to the oblique disposition thereof on their respective supporting-beams, operate in rear of the runners 2, and the beams 21 being adjustable on the cross-bar 10 said cultivator-knives may be spaced to any desired distance apart.

The sharp points at the front ends of the knives prevent them from clogging the stubble or other trash and enable them to readily cut through the soil. When the machine is in operation, the runners travel in the furrow, one on each side of the row of plants, the front ends of the knives cut the soil from each side of the furrow, and the said knives owing to the oblique disposition thereof serve to push the soil to the center of the furrow. The lower edges of the knives being sharp

and the faces of the knives being concaved cutting surfaces are formed which operate efficiently in the soil. The brackets 3 being vertically adjustable by the means hereinbefore described the knives are also vertically adjustable and may be caused to operate at any required depth in the soil.

Having thus described my invention, I claim—

10 In a listed-corn cultivator, the combination of the runners, the brackets vertically adjustable thereon, cross-bars connecting said brackets at the front and rear ends of the runners, said brackets being adjustably at-

tached to said cross-bars, the longitudinally- 15 disposed bars connecting said cross-bars, the beams adjustably secured to the rear cross-bar and the cultivating-knives carried by the said beams, said cultivator-knives being obliquely disposed with relation to the runners 20 and in rear thereof, substantially as described.

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

CASSIUS C. KEITH.

Witnesses:

F. N. TOOTHACRE,

J. A. RAY.