No. 804,324. PATENTED NOV. 14, 1905.

J. R. JONES.

CULTIVATOR.

APPLICATION FILED MAR. 20, 1905.

Fig. 1.

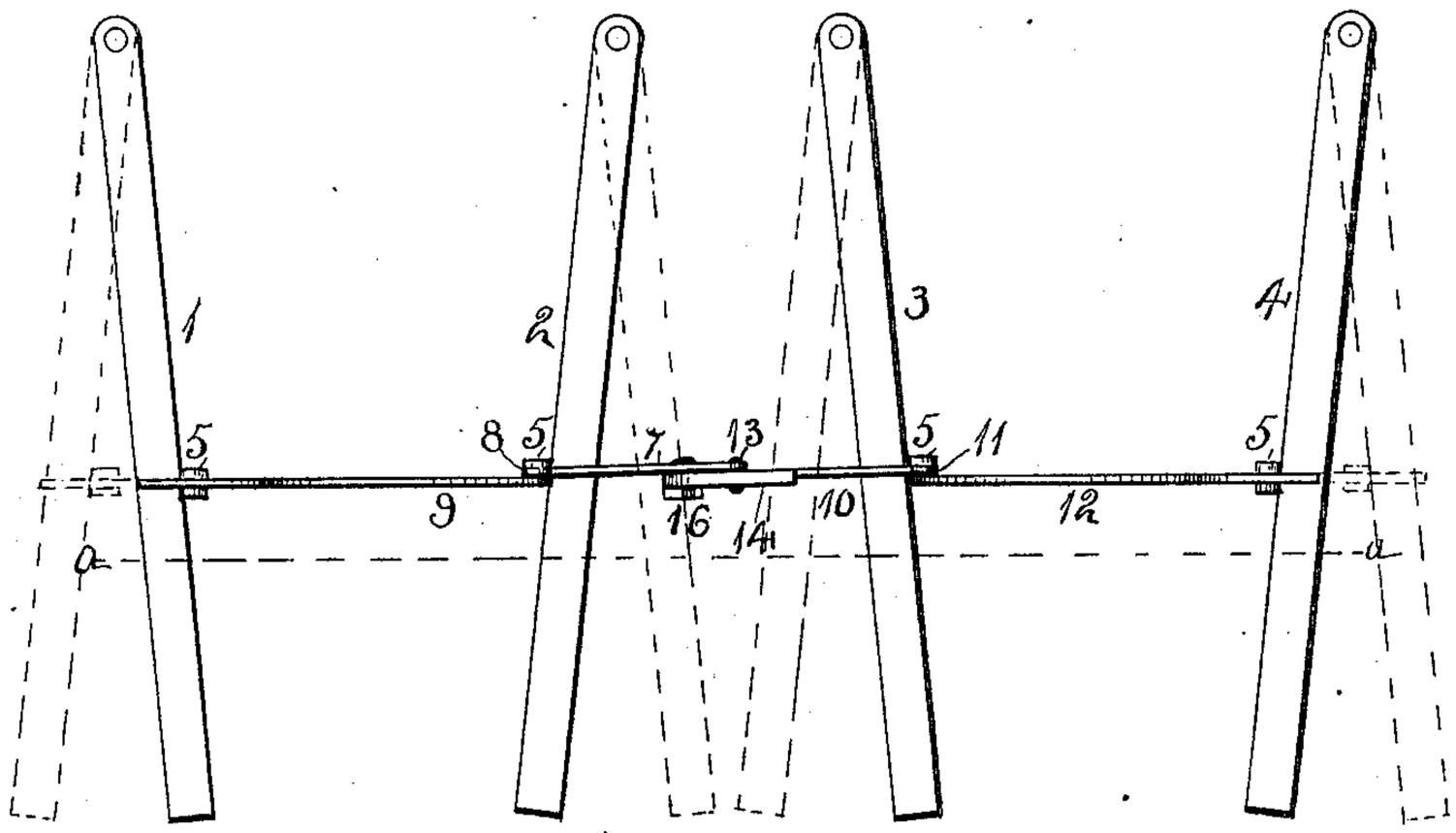
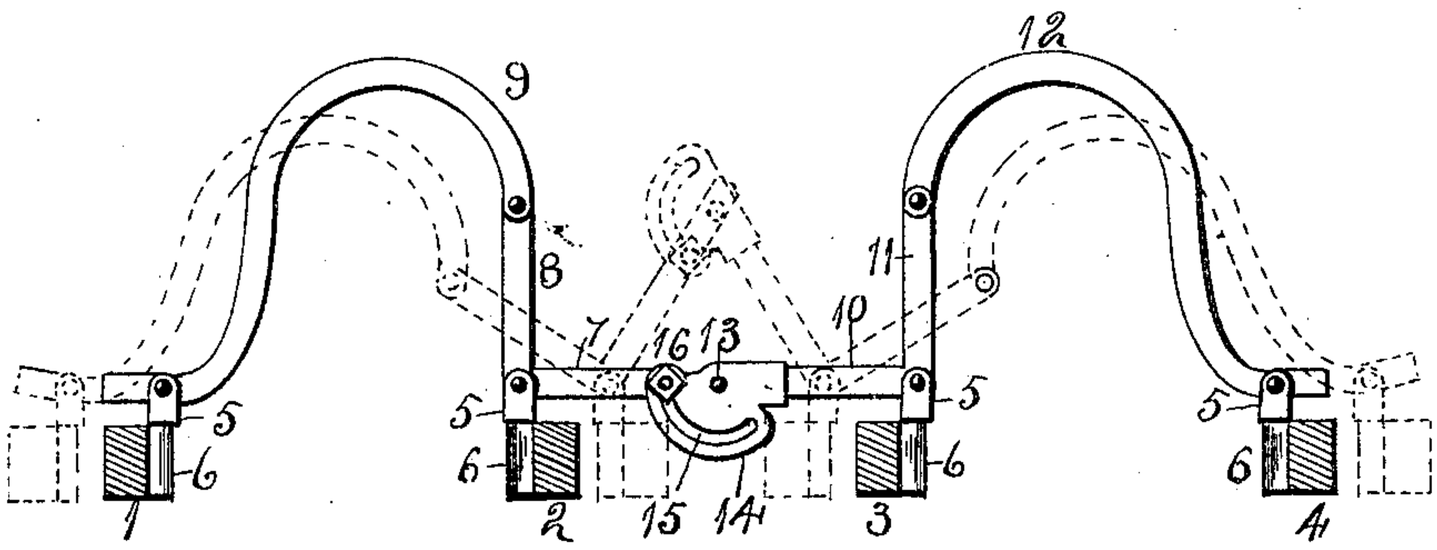


Fig. 2.



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UNITED STATES PATENT OFFICE.

JUDSON R. JONES, OF ROCKTON, ILLINOIS, ASSIGNOR TO J. THOMPSON & SONS MANUFACTURING COMPANY, OF BELOIT, WISCONSIN, A CORPORATION OF WISCONSIN.

CULTIVATOR.

No. 804,324. Specification of Letters Patent. Patented Nov. 14, 1905.

Application filed March 20, 1905. Serial No. 251,158.

To all whom it may concern:

Be it known that I, JUDSON R. JONES, a citizen of the United States, residing at Rockton, in the county of Winnebago and State of Illinois, have invented certain new and useful Improvements in Two-Row Cultivators, of which the following is a specification.

In two-row cultivators there are employed four shovel-supporting beams which are divided into two pairs, the beams of a pair straddling a row of corn, and as it is necessary to vary the distance between the beams comprising a pair in order that the shovels may cultivate closer to or farther from the corn I have provided means whereby as the distance between the beams of one pair is varied the distance between the other pair will be correspondingly varied.

In the accompanying drawings, Figure 1 is a plan view of the beams of a two-row cultivator, showing my improvements in place. Fig. 2 is a section on dotted line *a a*, Fig. 1.

In the drawings I have shown only such parts of a two-row cultivator with which my improvements have a connection.

The four beams 1, 2, 3, and 4 are of an old construction. The forward end of each may have the usual connection with the main frame, whereby it may move in vertical and horizontal planes. The inner face of each beam supports a fork 5 by its lower end, located in a bracket 6 in a manner that it may oscillate therein, said lower end located in a vertical direction. To the fork connected to the beam 2 is pivoted one section of the bail comprising the arms 7 and 8, bent in the form of a bell-crank, and to the free end of the arm 8 is pivotally connected the section 9 of the bail. The other end of this section 9 has a pivotal connection with the fork connected to the beam 1. To the fork connected to the beam 3 is pivoted one section of the bail comprising the arms 10 and 11, bent in the form of a bell-crank, and to the free end of the arm 11 is pivotally connected the section 12 of the bail. The other end of this section 12 has a pivotal connection with the fork connected to the beam 4. The end of the arm 7 has a pivotal connection with the end of the arm 10 by the bolt 13. The arm 10 has a bracket 14 secured to it, which is provided with a curved slot 15. A bolt 16 connects the bracket with the arm 7 by the bolt 16 passing through the arm and the slot 15. The connection between the arms 7 and 10 form a connection between the four beams of the two-row cultivator.

In the drawings the arms 7 and 10 are shown in a right line in solid lines, which will separate the beams 2 and 3, and the arms 8 and 11, standing in a vertical direction, will hold the outer beams 1 and 4 nearer the center beams 2 and 3. By moving the arms 7 and 10 into the position shown in dotted lines the beams 2 and 3 will be drawn toward each other and the beams 1 and 4 will be moved outward, so that the distance between the outer and inner beams is increased. By means of the slot and bolt the arms 7 and 10 can be clamped in their adjusted position.

As the row of corn is centrally between one inner and one outer beam when the beams are in their solid-line position, it is evident that it will remain so at all times, since the inner and outer beams of one pair move toward or withdraw from the row of corn, and both pairs of beams will be adjusted in unison. The object of this adjustment is to locate the shovels supported by the beams a greater or less distance from the row of corn and so that a single adjustment will act upon all four beams of a two-row cultivator.

I claim as my invention—

1. The combination of the four beams of a two-row cultivator, of a bail connecting all the beams and comprising two bell-crank sections one bell-crank pivoted to each of the inner beams and pivotally connected together, and two other sections, one pivoted to each of the outer beams and also pivoted to one arm of the bell-crank sections.

2. The combination of the four beams of a two-row cultivator, of a bail connecting all the beams, and comprising two bell-crank sections,one bell-crank pivoted to each of the inner beams, and adjustably connected to-

gether, and two other sections, one pivoted to each of the other beams, and also pivoted to the bell-crank sections.

3. The combination of the four beams of a two-row cultivator, of a bail connecting all the beams and comprising two bell-crank sections, one bell-crank pivoted to each of the inner beams, and adjustably connected together by a bracket and a bolt engaging the bracket, and two other sections, one pivoted to each of the outer beams and also pivoted to the bell-crank sections.

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