

No. 815,323.

PATENTED MAR. 20, 1906.

F. L. ANDERSON.
CULTIVATOR.

APPLICATION FILED DEC. 23, 1905.

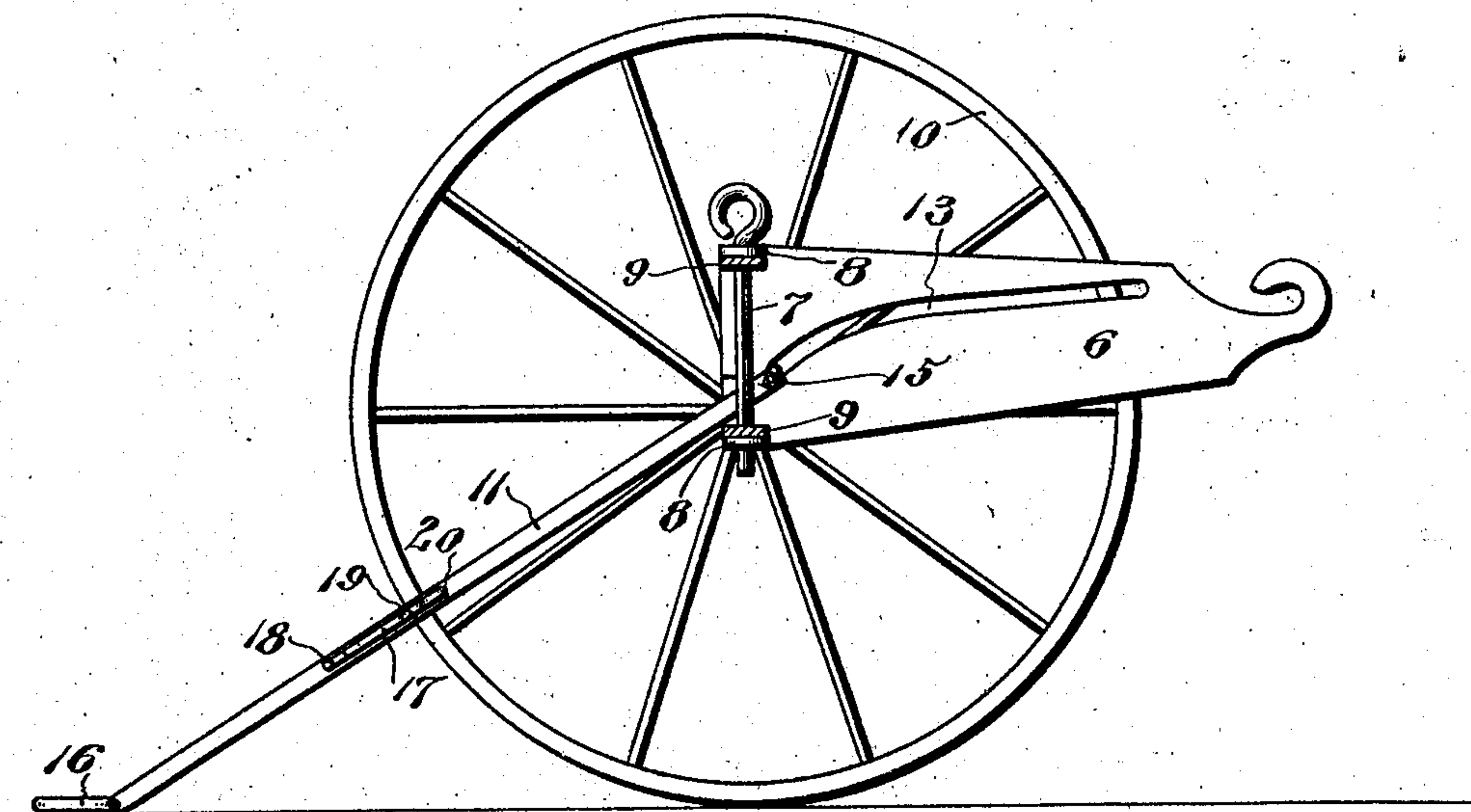
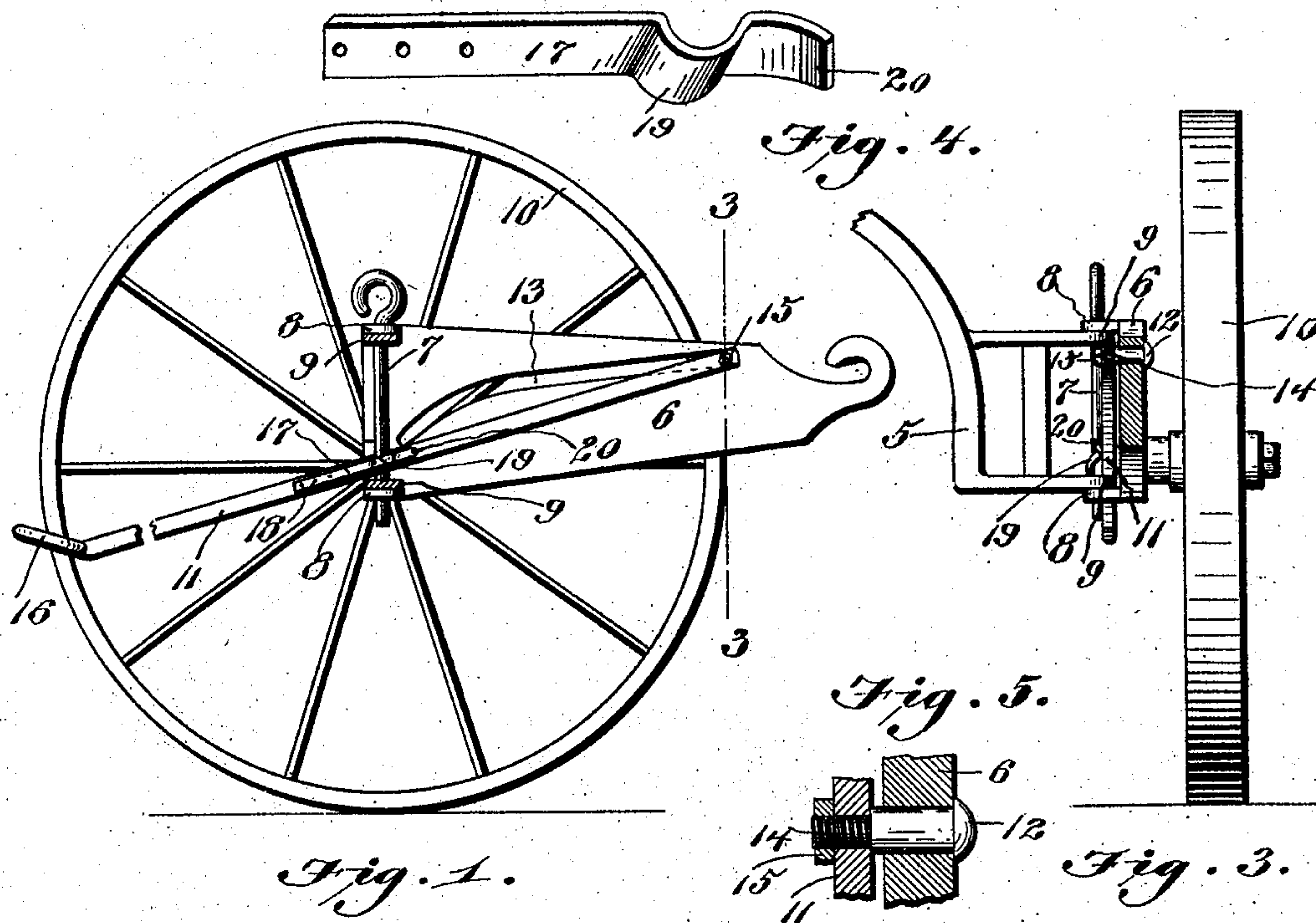


Fig. 2.

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Witnesses

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UNITED STATES PATENT OFFICE.

FLOYD LESLIE ANDERSON, OF AUBURN, NEBRASKA.

CULTIVATOR.

No. 815,323.

Specification of Letters Patent.

Patented March 20, 1906.

Application filed December 23, 1905. Serial No. 293,104.

To all whom it may concern:

Be it known that I, FLOYD LESLIE ANDERSON, a citizen of the United States, residing at Auburn, in the county of Nemaha and State of Nebraska, have invented new and useful Improvements in Cultivators, of which the following is a specification.

This invention relates to cultivators, and more particularly to that class known as "tongueless" cultivators, in which two shovel-beams are connected at their front ends to an arched frame mounted on wheels, with the draft devices connected in such a manner that the draft is applied directly to the beams.

The invention has for its object improved means for operating the shoe or runner which is employed for supporting the cultivator in an upright position, so that said shoe or runner can be readily raised or lowered without the trouble and labor of loosening and tightening any nuts.

In the accompanying drawings, Figure 1 is an elevation of a portion of a cultivator, showing the application of the invention, the shoe being shown in elevated position. Fig. 2 is a similar view showing the shoe lowered into contact with the ground. Fig. 3 is a vertical section on the line 3 3 of Fig. 2. Fig. 4 is a perspective view of the spring for holding the shoe in elevated position. Fig. 5 is an enlarged sectional view showing the connection between the draft-plate and shoe.

In the drawings only one side of the cultivator is shown, as that is sufficient to illustrate the invention, the arrangement to be hereinafter described being the same on the other side.

Referring specifically to the drawings, 5 denotes the arched frame of the cultivator, to which the shovel-beams (not shown) are coupled. The draft-plate 6 is pivotally connected at its rear end to the frame 5 by a pin 7, which extends through ears 8 on said plate and ears 9 on the frame. The wheel 10 is mounted on a stub-axle carried by the draft-plate. The parts thus far described are to be found in an ordinary tongueless cultivator and nothing is claimed with respect thereto, and a further description is therefore thought unnecessary.

The shoe or runner for holding the machine in upright position is indicated at 11 and is connected at its front end to the draft-

plate 6 by a bolt 12, which works in an inclined slot 13 in said plate. The bolt has a reduced end 14, which is threaded to receive a fastening-nut 15. The shoe is placed on the reduced end of the bolt and is clamped between the nut 15 and the shoulder formed by said reduced end. The rear end 16 of the shoe, which engages the ground, is flattened, as usual.

At 17 is indicated a flat spring, which is riveted or otherwise secured to one side of the shoe, as at 18. The purpose of this spring is to hold the shoe out of operative position, it being slipped over the coupling-pin 7 when the shoe is elevated, as shown in Fig. 1. That part of the spring which fits over the coupling-pin is shaped to form a groove or corrugation 19 to receive the pin. When it is desired to lower the shoe into operative position, the spring is released from the coupling-pin, which frees the shoe and permits it to be lowered to the position shown in Fig. 2. The free end of the spring is curved outwardly, as at 20, so that when the shoe is pushed forwardly to elevate it the spring will automatically engage the coupling-pin. The part 20 also affords convenient means for grasping the spring when the shoe is to be released if the spring is too stiff to slip readily off the coupling-pin.

The fastening device herein described will lessen the labor and time necessary in shifting the shoe from the position in which it is placed when the cultivator is working to a position for traveling on the road or in moving from one field to another. There are no nuts to tighten or loosen, and the use of a wrench is therefore dispensed with.

I claim—

The combination with the slotted draft-plate of a tongueless cultivator, and the coupling-pin thereof, of a shoe slidably mounted at its front end in the slot of the draft-plate, and a spring-clasp carried by the shoe and engageable with the coupling-pin.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

FLOYD LESLIE ANDERSON.

Witnesses:

MARY A. LOUGHRIDGE,
MAY DUNDAS.