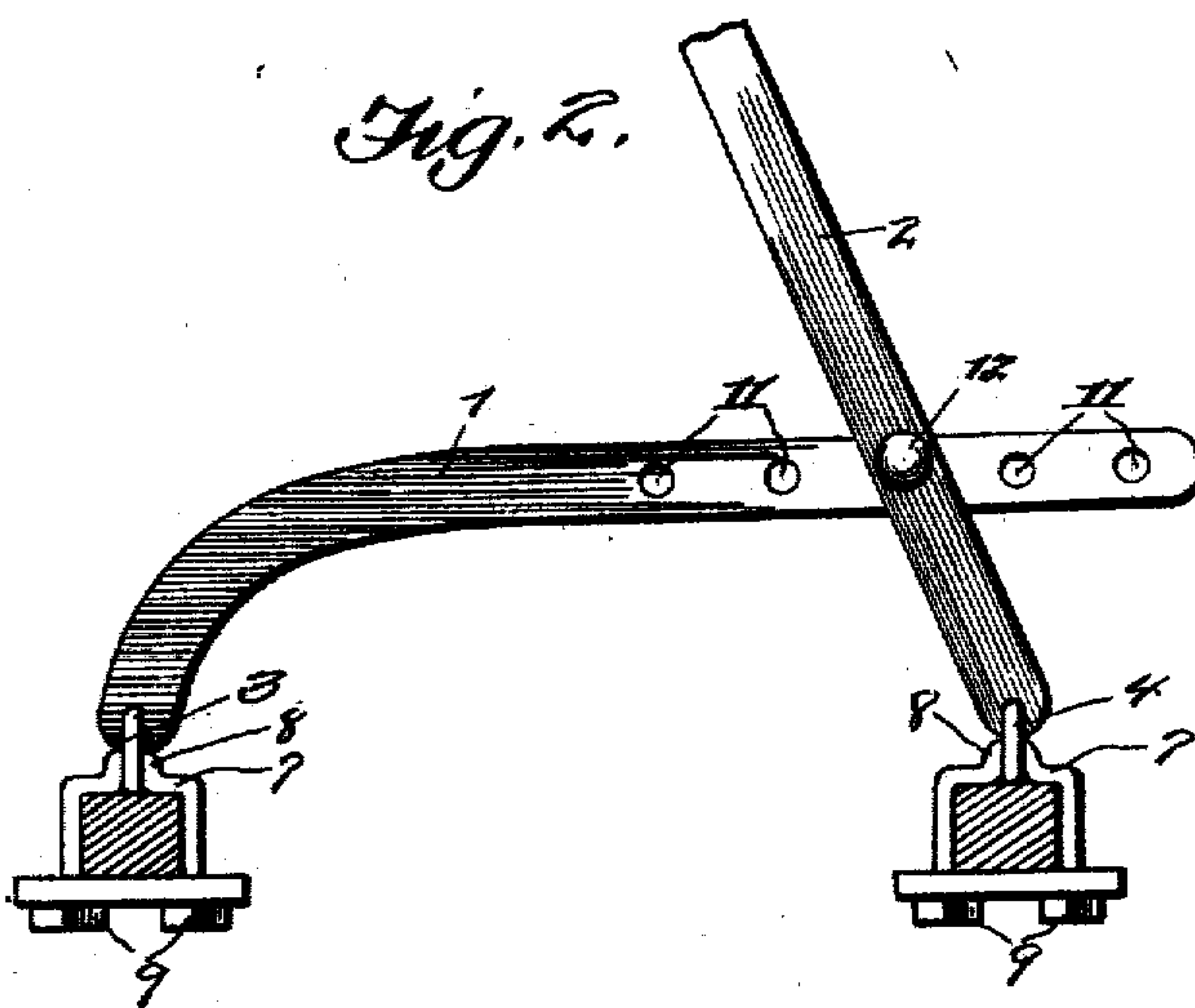
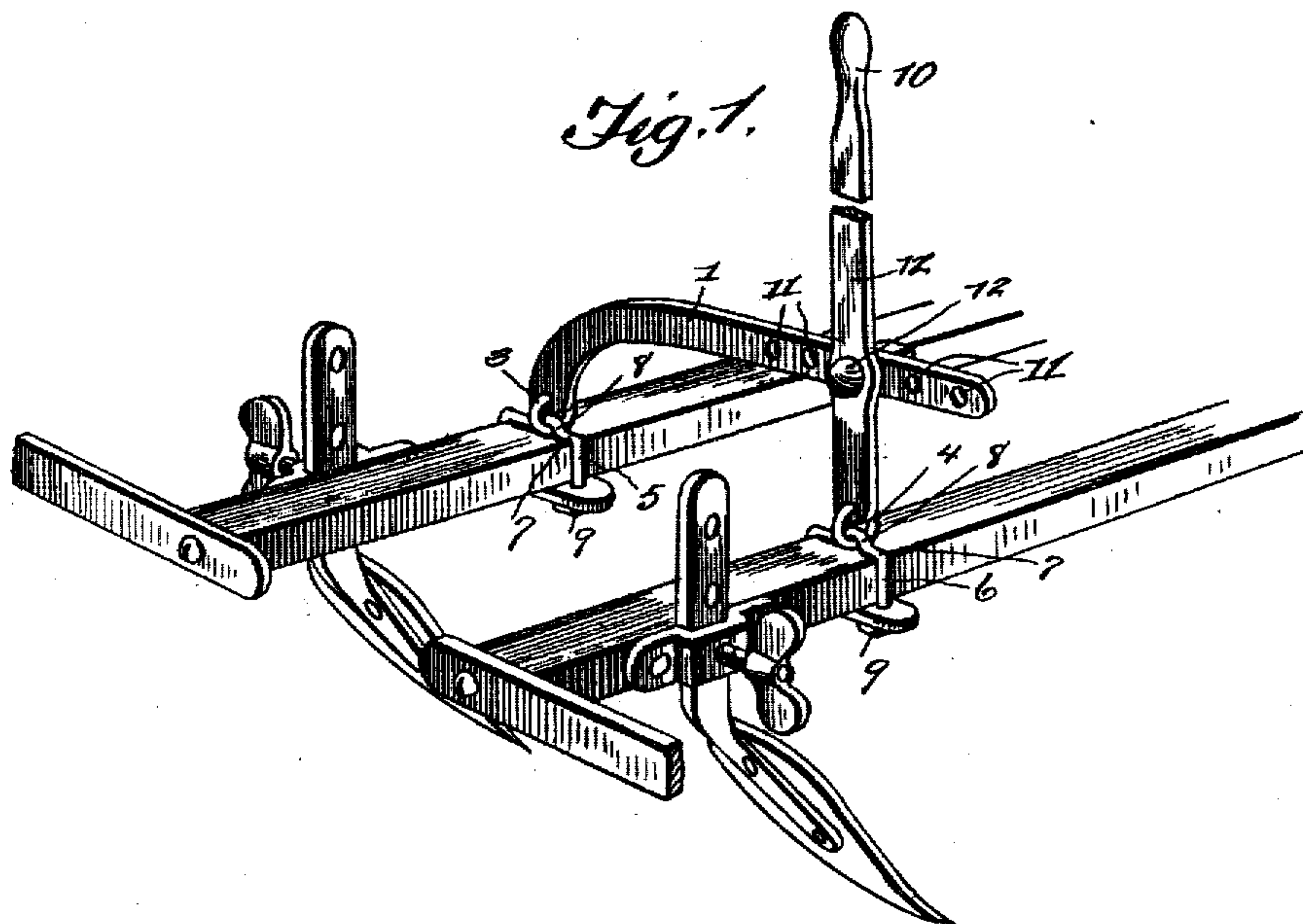


No. 814,309.

PATENTED MAR. 6, 1906.

W. A. MARTIN.  
CULTIVATOR.

APPLICATION FILED DEC. 2, 1905.



Inventor

William A. Martin

Witnesses

R. A. Brewster  
P. A. Martin

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J. B. Crall

Attorney



# UNITED STATES PATENT OFFICE.

WILLIAM ALEXANDER MARTIN, OF WAXAHACHIE, TEXAS.

## CULTIVATOR.

No. 814,309.

Specification of Letters Patent.

Patented March 6, 1906.

Application filed December 2, 1905. Serial No. 290,012.

*To all whom it may concern:*

Be it known that I, WILLIAM ALEXANDER MARTIN, a citizen of the United States, residing at Waxahachie, in the county of Ellis and State of Texas, have invented new and useful Improvements in Cultivators, of which the following is a specification.

This invention relates to cultivators, and pertains more particularly to an attachment which is secured to the beams of the cultivator and which permits the distance between the beams to be increased or diminished, as found desirable.

Referring to the accompanying drawings, forming a part of this application, and wherein like numerals of reference indicate similar parts throughout both views, Figure 1 is a perspective view of a pair of cultivator-beams, showing my invention applied to the same; and Fig. 2 is a view in side elevation of the attachment, showing the beams in cross-section.

The invention embodies an arm and a lever secured, respectively, to the cultivator-beams, the arm being designated 1 and the lever 2. At their lower ends each of these elements is formed with an aperture, through which a ring 3 4, respectively, is secured. In order to secure the ends of the arm and lever to the beams of the cultivator, I provide cleavises 5 and 6, each being composed of a yoke 7, formed at its top portion with a bend or offset seat 8, receiving the rings 3 and 4, the ends of the yoke being threaded and receiving an apertured plate which abuts the under face of the beams and which is engaged by nuts 9 on the threaded ends of the yoke. Thus I form a simple and cheap connection between the ends of the arm and the lever, and, further, ones which may be readily removed and placed in position at will or shifted to any desired position along the length of the cultivator-beams. In practice the arm 1 is formed with a horizontal portion and a downwardly-curved end, the lever being straight throughout its length and being formed at its upper portion with a handle or hand-grip 10. The horizontal portion of arm 1 is formed with a plurality of apertures 11, adapted to receive a securing-bolt 12, which is carried by the lever at a predetermined point. It is obvious that by mere re-

moval of the bolt 12 the same may be passed through any desired aperture in the arm, and thus the relationship existing between the arm and lever may be varied in order to obtain a great or small space between the cultivator-beams.

In operation it will be observed that the bolt is first placed in the desired position or the desired aperture in arm 1 to effect such relation between the beams as is found essential for the purpose of plowing or hoeing. The lever is disposed so as to have its handle within reach of the operator, which may be accomplished by disposing the cleavises at points adjacent to the seat where the lever-handle will be accessible to the plowman. During the plowing operation should the plowman desire to spread or retract the beams it is simply necessary to throw the lever in the desired direction to effect the result sought, it being obvious that by changing the position of the bolt along the length of the arm 1 the range of adjustment between the beams may be increased or diminished, as found essential for the purpose.

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

1. An attachment for cultivators comprising in its entirety an arm having its major portion disposed in a horizontal plane and having one end curved downwardly and secured to one of the cultivator-beams, a lever secured to the other beam of the cultivator and engaging said horizontal portion of the arm, and means for securing said lever and arm together.

2. An attachment for cultivators, comprising an arm having its major portion extending in a horizontal plane and having one end secured to one of the cultivator-beams, and a lever lying in the same plane throughout having one end secured to the other cultivator-beam and having an intermediate portion adjustably secured to said horizontal portion of the arm.

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

WILLIAM ALEXANDER MARTIN.

Witnesses:

T. M. HASSELL,  
W. J. C. BURNS.