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Patented July 15, 1902.

B. F. CLARK & W. SMITH.  
SEAT FOR CULTIVATORS.

(Application filed Mar. 7, 1902.)

(No Model.)

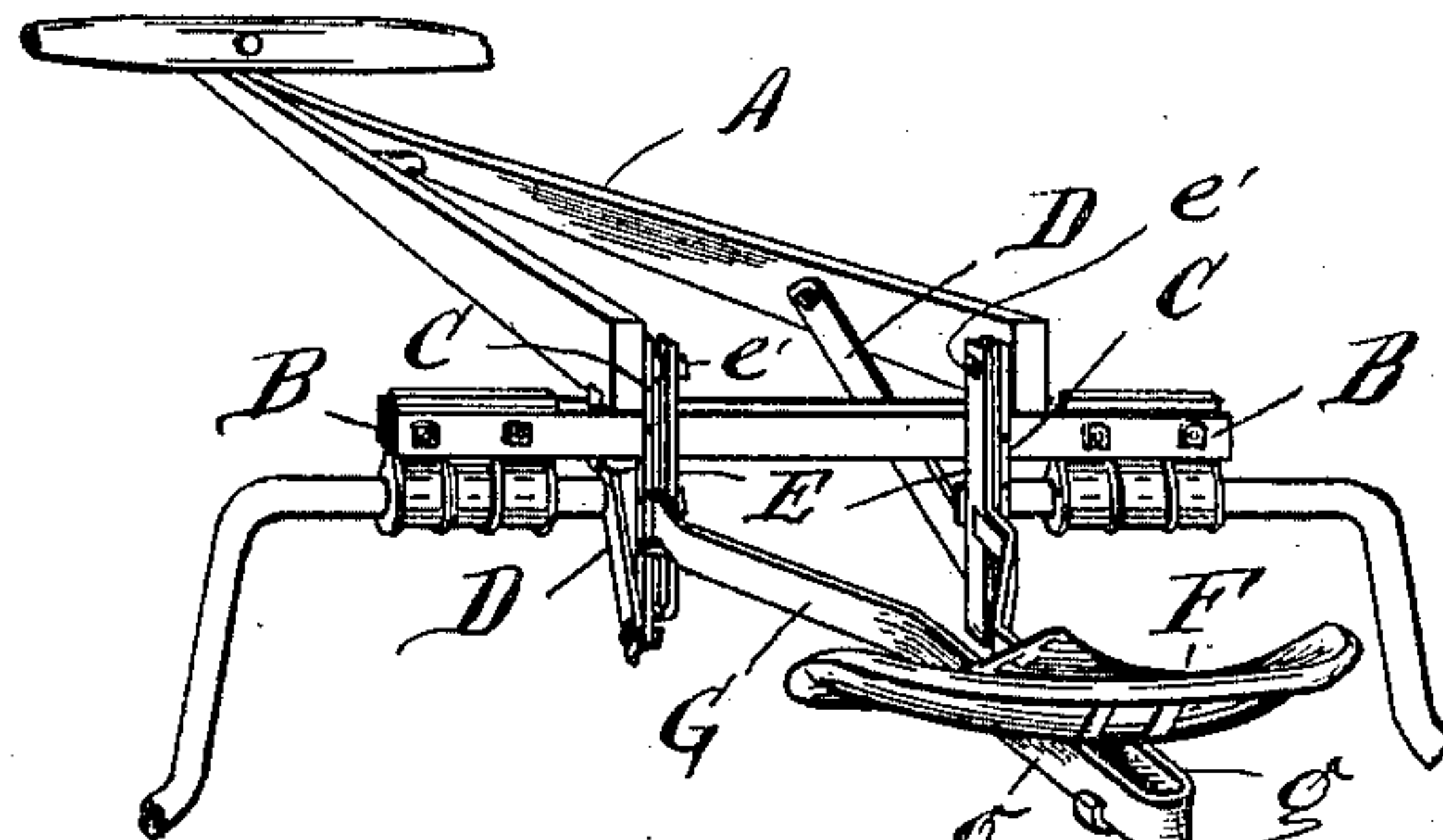


Fig. 1.

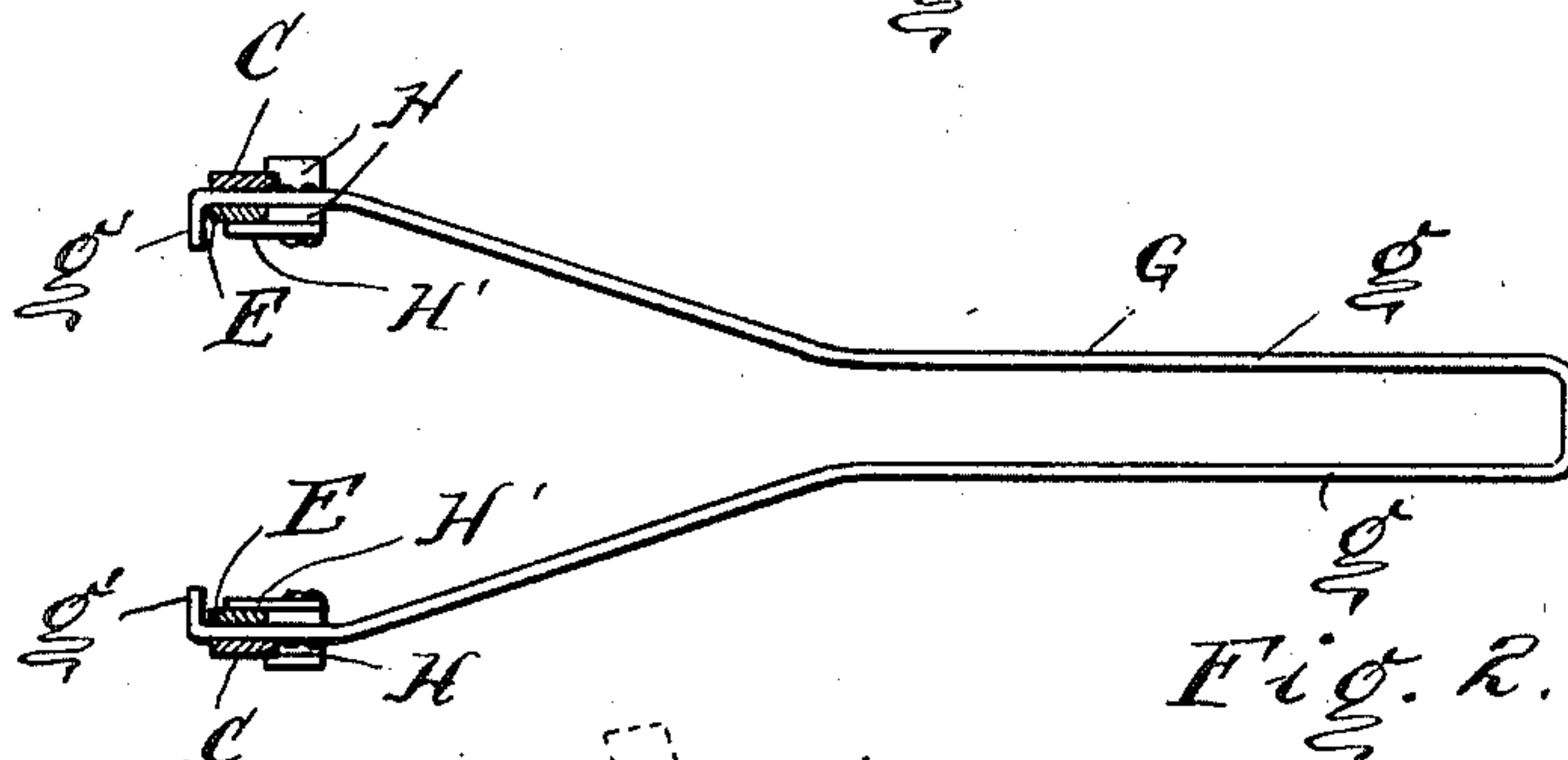


Fig. 2.

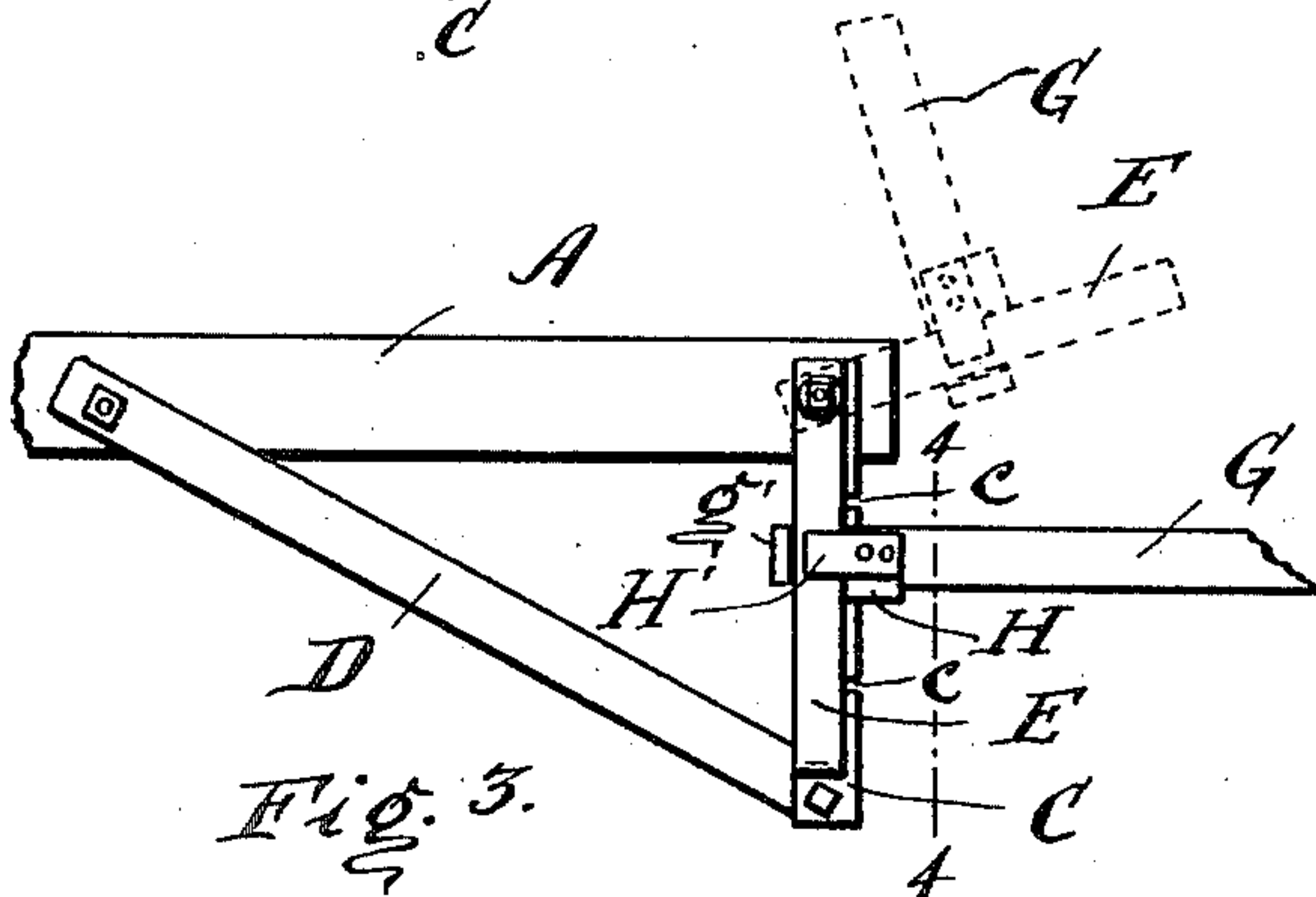


Fig. 3.

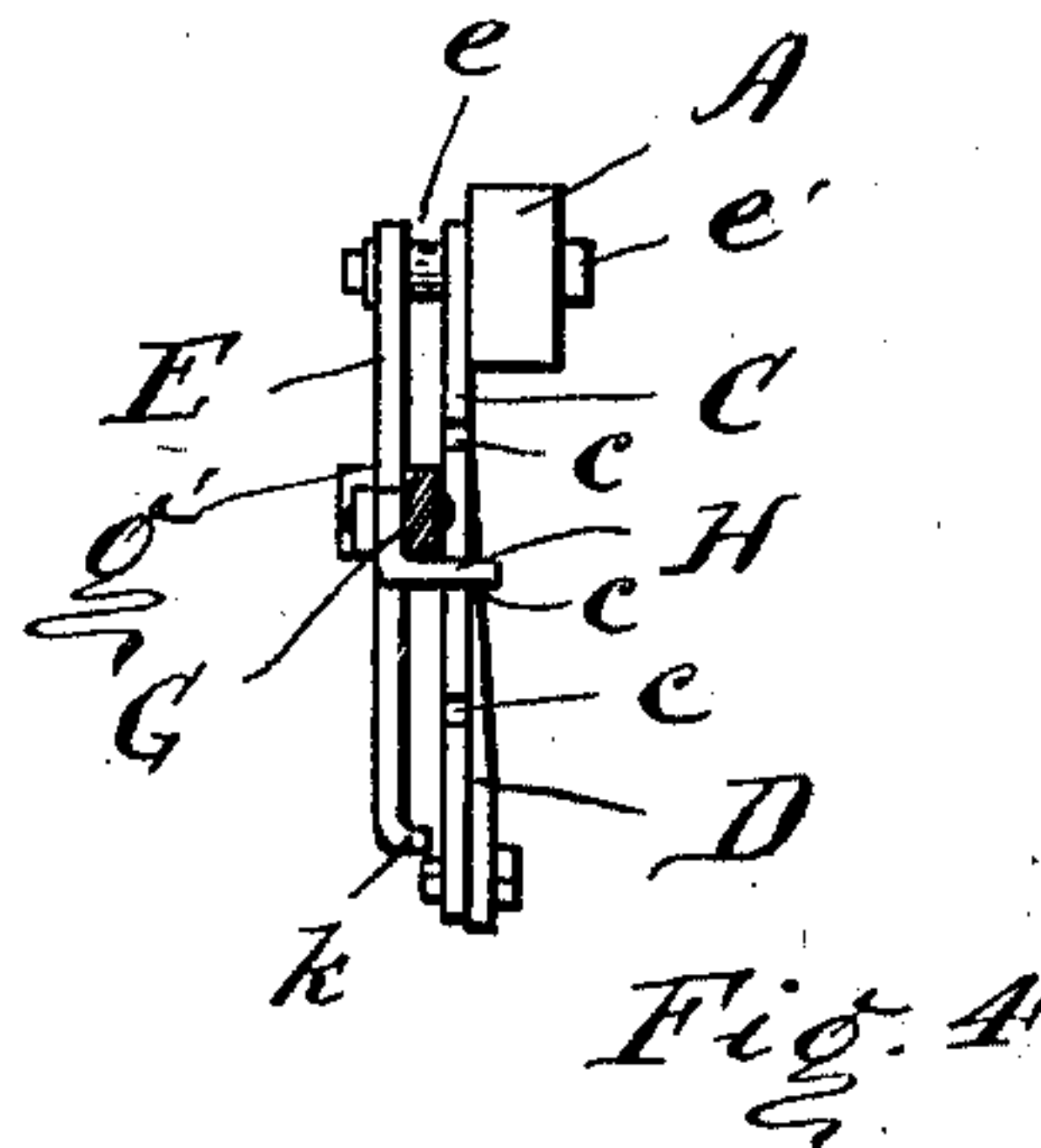


Fig. 4.

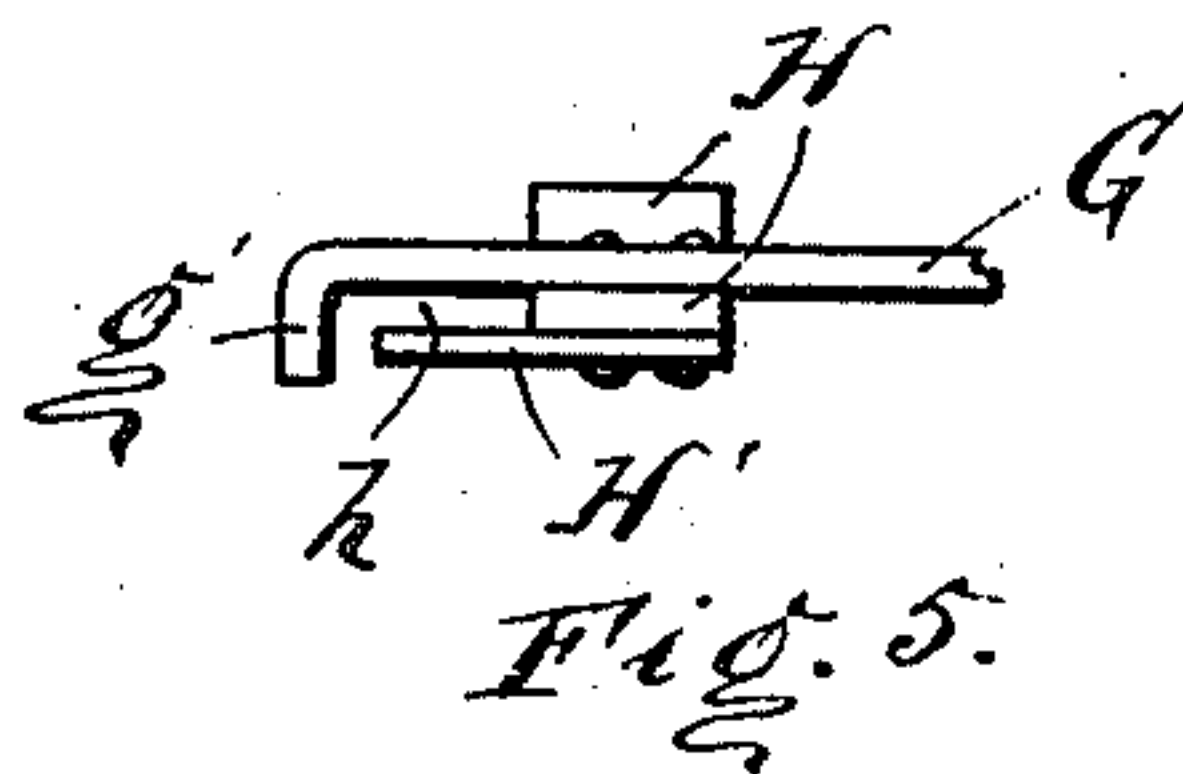


Fig. 5.

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# UNITED STATES PATENT OFFICE.

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## SEAT FOR CULTIVATORS.

SPECIFICATION forming part of Letters Patent No. 704,515, dated July 15, 1902.

Application filed March 7, 1902. Serial No. 97,146. (No model.)

*To all whom it may concern:*

Be it known that we, BENJAMIN F. CLARK and WILSON SMITH, citizens of the United States, and residents of Cambridge City, in the county of Wayne and State of Indiana, have invented a certain new and useful Improvement in Seats for Cultivators, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, which form part of our specification.

The object of our invention is to provide a seat for a cultivator which when not in use may be pushed forward and out of the way. Our invention relates particularly to the manner of mounting the seat, and it is of such a construction and arrangement that when the operator of the machine desires to walk he may rotate the seat forward, so that it may rest on the tongue, in which position it will be out of his road in case he walks behind the cultivator.

In the drawings, Figure 1 is a perspective view of a portion of a cultivator with our improved seat attached. Fig. 2 is a plan view of the arm supporting the seat. Fig. 3 is an inside elevation of a portion of the tongue, showing the manner of attaching the seat-supporting frame. Fig. 4 is a section of Fig. 3 on the line 4 4. Fig. 5 is a detail view of one of the ends of the seat-supporting frame.

A is the usual tongue, secured in any convenient manner to the axle-frame B. The tongue A, as shown, is bifurcated at its rear end, and the bifurcations project slightly behind the axle-frame B and are provided with downwardly-hanging bars C at their inner sides, which are held in a vertical position by means of braces D, connecting the lower end of said bars C with the tongue A. The bar C is provided with notches *c*, whose purpose will appear presently.

A swinging bar E is pivoted to the ends of the bifurcated tongue by means of a bolt passing through said ends and through the bar C, the bar E being held away from the bar C by means of a spacing-block *e*.

F is the seat, which is supported on the frame G, to which it is clamped in any convenient manner. The arm G is simply a bar

bent into Y shape with parallel portions *g g* at the rear, along which the seat F is adjustable and can be clamped in a position nearer to or far from the axle-frame B. The extremities of the bar forming the arm G are bent at right angles to form hooks *g'*. Angle-bars H and plates H' are bolted or riveted to the arm G at points near its ends, as seen in Figs. 2 and 5, the plate H' projecting beyond the vertical leg of the angle-plate. The vertical legs of the angle-plates H are of the same thickness as the swinging arms E and are at a distance from the hook *g'* equal to the width of the swinging arm E, so that the space *h* is of such a size that the swinging arm E may slide in it. The horizontal leg of the plate H is adapted to fit in the notches *c* in the bar C.

To attach our improved seat to the machine, the bolts are applied to the rear ends of the bifurcated tongue, and the arms C and braces D are fixed in place. The bars E are then slipped into the spaces *h* at the ends of the Y-shaped arm G, and the arms E are bolted in place, with the washers *e* separating them from the bars C, as seen in Fig. 2. The ends of the arm G are then slipped down the bars E until the horizontal leg of the angle-plate H engages one of the notches *c*, in which position it is held, so as to support the party occupying the seat F. When it is not desired to use the seat F, it is simply rotated forward, so as to rest upon the tongue A, the arm E swinging about the bolt *e'* as a center, as seen in dotted lines in Fig. 3. The notches *c* furnish a means for up-and-down adjustment of the arm G, so as to put the seat in any required vertical position. The swinging arms E are hooked in shape at their lower ends, as seen at *k*, to prevent the Y-shaped arm from dropping completely. These hooks also perform the same function as the notches *c* when the arm G is moved to its lowest position.

We have described our improved seat as attached to a cultivator; but we do not wish to limit ourselves to its use with a cultivator, as of course it is evident that it may be attached to a variety of implements, where its use would be of advantage, nor do we wish to be limited to the exact construction shown



and described, as it is apparent that this may be varied without departing from the spirit of our invention. For example, in some machines it might be found that a single bar instead of the Y-shaped bar might be used, in which case only one set of the arms C and E would be necessary. In addition, the construction for forming the opening or slot *h* to receive the swinging arm E may be varied, and also the construction described for forming the horizontal projections engaging the notches *c* may be replaced by any equivalent construction.

Having thus described our invention, what we desire to claim as new and to cover by Letters Patent is—

1. As a means for supporting a seat, vertical arms rigidly connected to the frame of the machine and provided with notches, swinging arms pivoted to said vertical arms, a Y-shaped arm supporting the seat at the rear and having its forward ends engaging said swinging arms and provided with a horizontally-projecting plate adapted to engage the notches in said vertical arm, substantially as and for the purpose described.

2. As a means for supporting a seat, a vertical arm rigidly connected to the frame of the machine and provided with notches, a swinging arm pivoted to said vertical arm, a second arm supporting the seat at its rear end, and having its forward end engaging said swinging arm, and provided with a horizontally-projecting plate adapted to engage the notches in said vertical arm, substantially as and for the purpose described.

3. In combination, a vertical arm rigidly connected to a frame and provided with notches, a swinging arm pivoted to said vertical arm, a second arm supporting the seat at its rear end and having its forward end bent into hook form and engaging said swinging arm, and a horizontal projection on said second arm adapted to engage the notches in said vertical arm, substantially as and for the purpose described.

4. In combination, a vertical arm provided with notches and rigidly attached to the frame of the machine, a swinging arm pivoted to said vertical arm, a second arm provided with a seat at its rear end and with a vertical slot at its forward end through which passes the said swinging arm, and a horizontal projec-

tion on said second arm adapted to engage the notches in said vertical arm, substantially as and for the purpose described.

5. In a cultivator, vertical arms provided with notches and rigidly attached to the frame, swinging arms pivoted to said vertical arms, a Y-shaped arm carrying a seat at its rear end and having grooves at its forward ends in which are located the said swinging arms, and horizontal projections on the forward ends of said Y-shaped arm adapted to engage the notches in said vertical arm, substantially as and for the purpose described.

6. In a cultivator, vertical arms provided with notches and rigidly connected to the frame, swinging arms pivoted to said vertical arms, a Y-shaped arm having its forward ends located between said vertical arms and said swinging arms, and provided with angular extensions adapted to engage said swinging arms, angle-plates secured at the forward ends of said Y-shaped arm, with their horizontal legs in a position to engage notches on said vertical arms, plates forming a groove to receive said swinging arms and an adjustable seat mounted at the rear of said Y-shaped arm, substantially as and for the purpose described.

7. In a cultivator, vertical arms provided with notches, swinging arms pivoted to said vertical arms, a bifurcated arm carrying a seat at its rear end and provided with hooks at its forward ends which engage said swinging arms, and horizontal projections at the forward ends of the bifurcations which are adapted to engage the notches of said vertical arms, substantially as and for the purpose described.

8. In combination, a vertical arm provided with notches, a swinging arm pivoted to said vertical arm, a bar supporting a seat at its rear end and provided at its forward end with a slot by means of which it may slide on said swinging arms, and also provided with a horizontal projection adapted to engage the notches in said vertical arm, substantially as and for the purpose described.

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