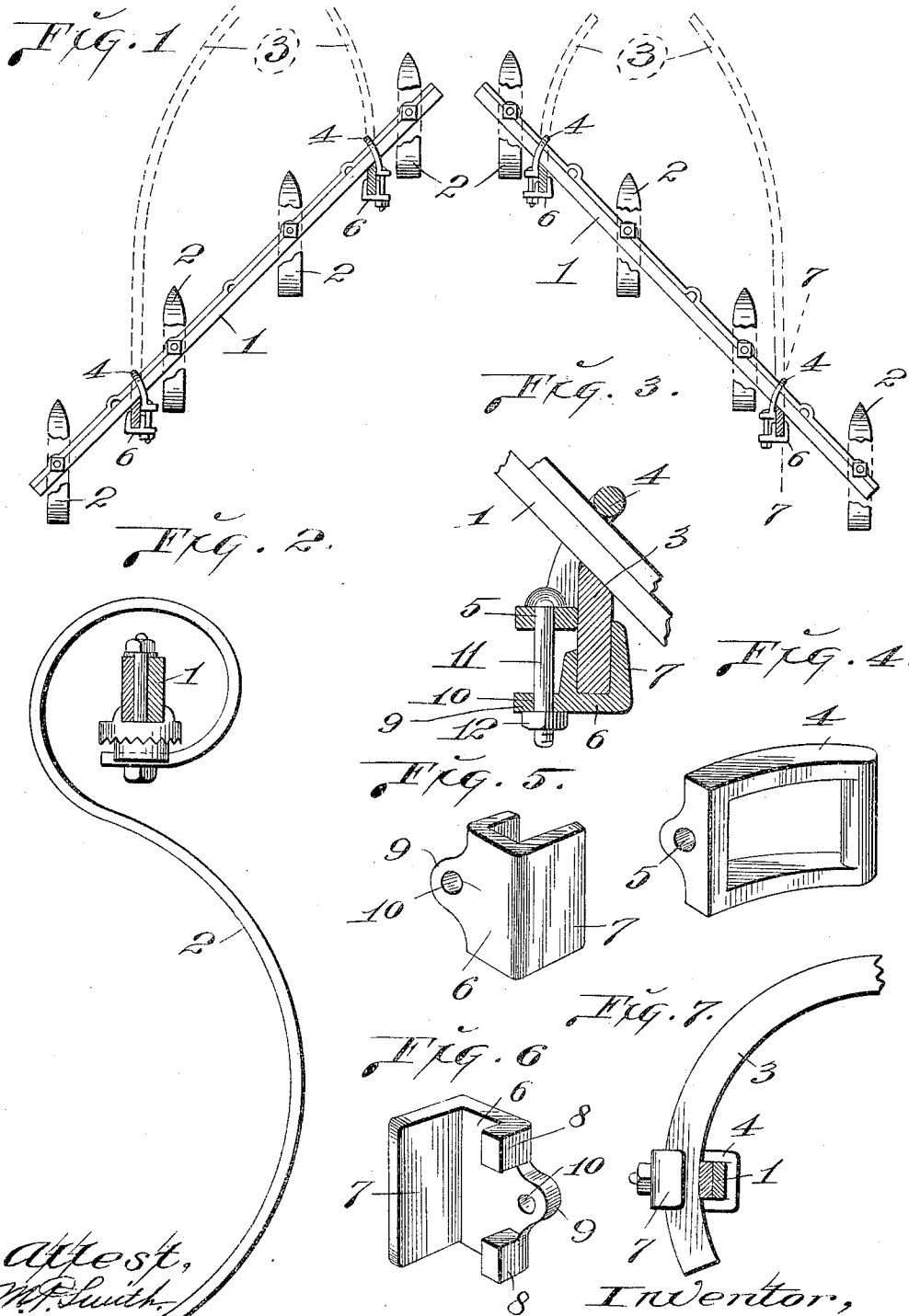


No. 822,795.

PATENTED JUNE 5, 1906.

A. C. WICKHAM.
CULTIVATOR.

APPLICATION FILED JAN. 22, 1906.



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CULTIVATOR.

No. 822,795.

Specification of Letters Patent.

Patented June 5, 1906.

Application filed January 22, 1906. Serial No. 297,329.

To all whom it may concern:

Be it known that I, AMOS C. WICKHAM, a citizen of the United States, and a resident of Carthage, Jasper county, Missouri, have invented certain new and useful Improvements in Cultivators, of which the following is a specification containing a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention relates to improvements in cultivators, and particularly to the means of fastening the drag-bars to the cultivator-frames.

The object of my invention is to improve upon the construction and increase the efficiency of the device patented by me October 10, 1893, No. 506,575.

A further object of my invention is to provide a simple inexpensive clamp which is used for joining the drag-bars with the cultivator-frames, which clamp may be readily locked or loosened by the manipulation of a single bolt.

To the above purposes my invention consists of certain novel features of construction and arrangement of parts, which will be hereinafter more fully specified, pointed out in the claims, and illustrated in the accompanying drawings, in which—

Figure 1 is a plan view of a cultivator of my improved construction. Fig. 2 is a detail view, partly in section, illustrating the manner of connecting the spring-plows to the cultivator-frame. Fig. 3 is a horizontal section taken through the center of one of the clamps I make use of for connecting the drag-bars to the cultivator-frame. Fig. 4 is a perspective view of the loop portion of my improved clamp and which passes around the cultivator-frame. Fig. 5 is a perspective view of that portion of the clamp that engages the drag-bar. Fig. 6 is a perspective view of the portion of the clamp seen in Fig. 5 and looking at the inside thereof. Fig. 7 is a detail section taken on the line 7 7 of Fig. 1.

Referring by numerals to the accompanying drawings, 1 1 indicate the cultivator-frames, which are arranged at the desired angle relative one another and to which are secured the spring teeth or plows 2.

3 3 indicate the drag-bars, which are of the usual form and construction and which are curved downwardly and engage against the

rear faces of the frames 1 at points adjacent the ends thereof.

Passing around the cultivator-frame at the point where each drag-bar engages thereon is a rectangular loop 4, the rear vertical bar of which is provided with a horizontally-arranged aperture 5. The portion of the clamp that engages upon the drag-bar comprises a plate 6, with one end of which is formed integral a laterally-projecting flange 7. Integral with the opposite edge of the plate 6 is a pair of ears 8, between which is an ear which is formed integral with the center of the plate 6 and in which is formed an aperture 10. A bolt 11 passes through the apertures 5 and 10 and receives a nut 12 upon its screw-threaded end on the rear side of the ear 9.

The loop 4 occupies a horizontal position upon the frame 1 with one of the side edges of the vertical bar in which the aperture 5 is formed against the side face of one of the drag-bars. The opposite portion of the clamp is now applied to the drag-bar directly opposite the loop 4, with the plate 6 against the rear edge of the drag-bar and with the flange 7 and ears 8 engaging the side faces of said drag-bar. The bolt 11 is now passed through the apertures 5 and 10, and the nut 12 is positioned on the threaded end of said bolt to the rear of the ear 9. As said nut is tightened the two parts of the clamp are drawn together, and the drag-bar is very firmly clamped to the frame 1. The single bolt 11 very effectually holds the two parts of the clamp together, and the nut 12 is in a position where it may be very readily engaged by a wrench or similar tool to be tightened or loosened upon said bolt.

This construction is very simple, and by its use much time and labor are saved in locking the cultivator-frames to the drag-bars or changing the vertical positions of said frames upon the drag-bars.

I claim—

1. In a cultivator, the combination with the frames and drag-bars thereof, of rectangular loops passing around the cultivator-frames, the rear vertical member of each loop being horizontally perforated, U-shaped clamping members engaging upon the drag-bars at the points where they engage against the cultivator-frames, a perforated ear integral with each clamping member, and a draw-bolt

passing through the apertures in the rectangular loops and through the perforated ears of the clamping members; substantially as specified.

- 5 2. In a cultivator, a clamp, comprising a rectangular loop, the forward vertical bar of which is circular in cross-section, and there being a horizontally - arranged aperture formed in the center of the rear vertical bar, a
10 clamping member U-shaped in cross-section, a perforated ear integral with the face of the clamping member, a single draw-bolt passing

through the perforations in the rear vertical member of the loop and through the ear, and a nut located on the screw-threaded end of the draw-bolt on the rear side of the perforated ear; substantially as specified. 15

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

AMOS C. WICKHAM.

Witnesses:

M. P. SMITH,

JOHN C. HIGDON.