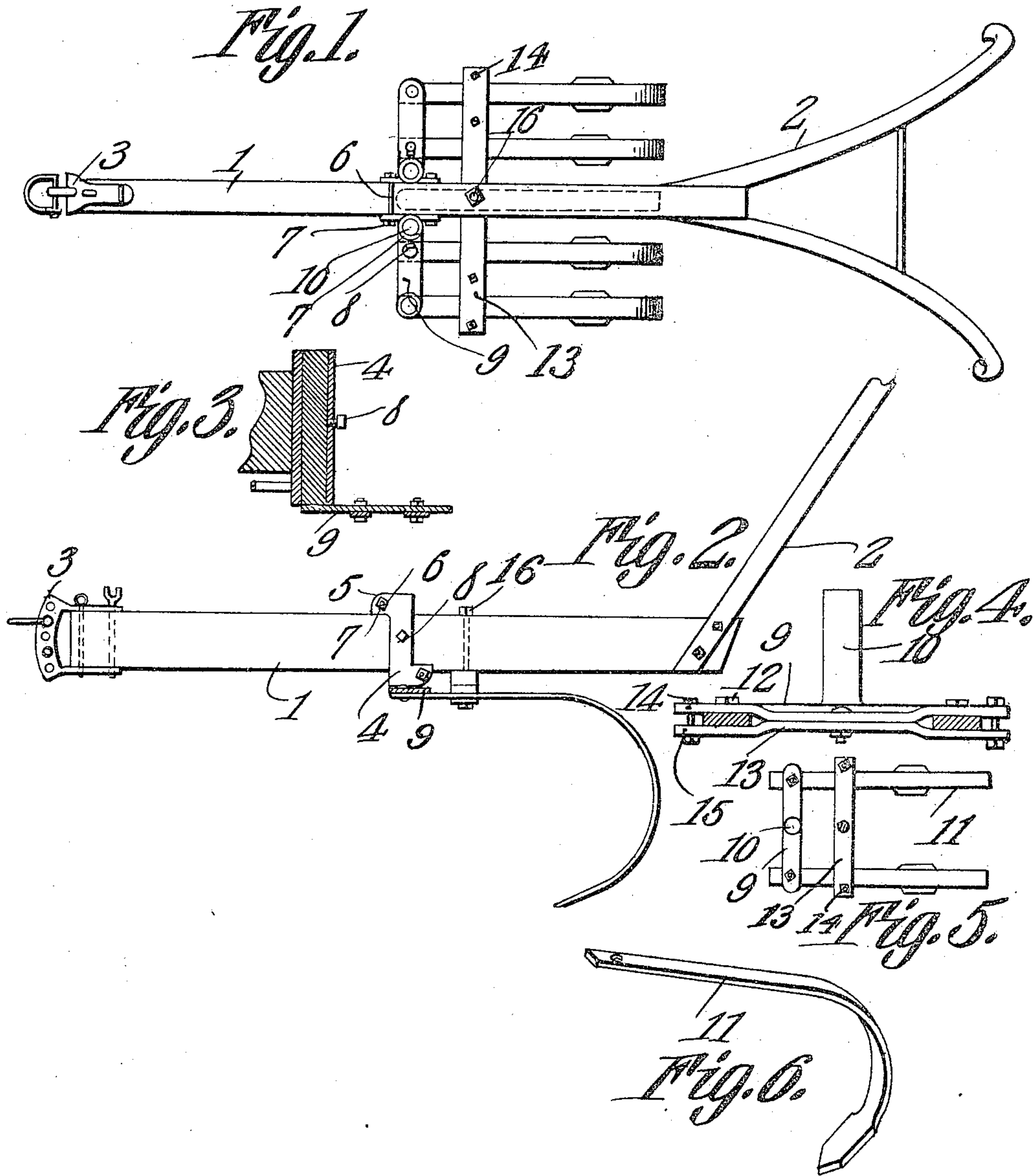


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 PLOW ATTACHMENT.  
 APPLICATION FILED MAR. 16, 1909.

945,774.

Patented Jan. 11, 1910.



Witnesses

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# UNITED STATES PATENT OFFICE

JOHNATHAN WILLIAM FARRINGTON, OF ALBA, TEXAS.

## PLOW ATTACHMENT.

945,774.

Specification of Letters Patent.

Patented Jan. 11, 1910.

Application filed March 16, 1909. Serial No. 483,731.

*To all whom it may concern:*

Be it known that I, JOHNATHAN WILLIAM FARRINGTON, a citizen of the United States, residing at Alba, in the county of Wood and State of Texas, have invented a new and useful Plow Attachment, of which the following is a specification.

This invention has relation to plow attachments and it consists in the novel construction and arrangement of its parts as hereinafter shown and described.

The object of the invention is to provide an attachment for a plow beam, which attachment includes a socket or a pair of sockets adapted to be clamped in position upon the beam and which are adapted to receive shanks of arms to which are pivotally attached the forward ends of spring cultivator teeth. Clamp bars are also attached to the said teeth, and are adapted to be pitched at such angles with relation to the long dimension of the plow beam as to cause the teeth at the opposite sides of the beam to assume V-shaped arrangement with the apex or pointed end of the V forwardly or rearwardly disposed as desired. The parts are also so arranged that the said clamping bars may hold the teeth in transverse alignment with each other, and, when so arranged, the transverse alinement of the teeth may be at a right angle to the long dimension of the beam, or at an acute angle, as desired. It will therefore appear that the advantage gained by such an arrangement is that a plow equipped with the attachment may be used at a straddle-row cultivator, or a middle furrow cultivator, and that the teeth may be so arranged as to cast the soil toward or away from the plants, as occasion may require.

In the accompanying drawings:—Figure 1 is a plan view of a plow provided with the attachments. Fig. 2 is a side elevation of a plow provided with the attachments. Fig. 3 is a vertical sectional view of a socket forming a portion of the attachments. Fig. 4 is an edge elevation of an arm provided with a spindle, which arm forms a part of the attachment. Fig. 5 is a top plan view, reduced, of the arm shown in Fig. 4. Fig. 6 is a perspective view of one of the cultivator teeth of the attachment.

The plow to which the attachment is adapted to be applied consists of the usual beam 1, having mounted at its rear end portion handles 2. A clevis 3 is located at the

forward end of the beam 1, and is of any approved pattern. Sockets 4 are provided at their upper and lower ends and at their opposite sides with outstanding lugs 5. When one beam only is used the sockets 4 are usually placed at the opposite sides thereof and are secured together by means of transversely disposed bolts 6, which pass through perforations provided in the lugs 5, and which are held therein by means of clamping nuts 7 threaded upon the extremities of the said bolts. A bolt is located over the upper edge of the beam 1, as is also a bolt similarly located below the beam 1. Each socket 4 is provided in its outer side with a set screw 8.

Arms 9 form portions of the attachment, and each arm is provided with a vertically disposed spindle 10, which spindles are adapted to enter the sockets 4 and are secured in adjusted positions therein by means of the set screws above referred to. The said spindles 10 may be located at any desired points along the arms 9, and, as shown in Fig. 4 of the drawings, the spindle is located at the middle of the arm, while, as illustrated in Fig. 1, the spindle is mounted at the end of the arm.

Spring cultivator teeth 11 are pivotally connected at their forward ends with the arm 9 by means of bolts 12 which pass transversely through the said teeth and the said arm. Clamp bars 13, consisting of upper and lower members, are applied to the upper forward portions of a series or gang of the said teeth 11 and are adapted to hold the said teeth in proper relation to each other. Such relation may be varied as above indicated. Those portions of the upper and lower members of the bars 13 which lie against the upper and lower sides of the teeth 11 are spaced from each other, and are adapted to be clamped in close contact with the upper and lower surfaces of the teeth 11 by means of clamping bolts 14 which pass transversely through the said members and which are provided at their ends with nuts 15.

The bar 13 may be relatively long as indicated in Fig. 1 of the drawings, and, when such is the case, it is secured at or near its middle to the under side of the beam 1 by means of a bolt 16, which passes transversely through the bar 13 and through the said beam. Or the said bar may be relatively short, as indicated in Figs. 4 and 5 of the



drawings, and, when such is the case, a short bar may be located at each side of the beam 1. In either instance, each bar is designed to secure two or more teeth, and to  
 5 hold the same in adjusted position with relation to each other.

From the above description it is obvious that when the spindles 10 are inserted in the sockets 4 they may be so turned as to pitch  
 10 the arms 9 at any desired angle with relation to the longer dimension of the beam 1, and that when the arm or arms are so positioned the teeth carried thereby may be secured by tightening the nuts 15 upon the  
 15 bolts 14 carried by the bars 13. Thus means is provided for holding the teeth 11 in proper relation to each other without perforating or otherwise weakening the structure of the teeth. It will also be seen that when arms  
 20 9 are employed upon which the spindles 10 are mounted at the ends, a gang or set of teeth may be located at each side of the beam 1, and thus a plow so equipped may be used as a straddle-row implement. Again,  
 25 it will be seen that when an arm or arms 9 are used upon which the spindles are mounted at intermediate points, the teeth carried by the said arms will be located at opposite sides of the beam 1, and a plow thus  
 30 equipped is especially adapted to be used for cultivating a furrow middle.

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

35 1. A plow attachment comprising a socket, an arm carrying a spindle, means for adjustably securing the spindle in the socket, teeth pivotally connected to the arm, a bar transversely disposed upon the teeth, and means  
 40 for clamping the bar in an adjusted position upon the teeth.

2. A plow attachment comprising a socket, means for clamping the same to a plow, an

arm having a spindle, means for adjustably securing the spindle in the socket, teeth piv- 45 otally connected with the arm, a bar transversely disposed upon the teeth, and means for adjustably clamping the bar in position on the teeth.

3. A plow attachment comprising a socket, 50 an arm having a spindle, means for adjustably securing the spindle in the socket, teeth pivotally connected to the arm, a bar comprising upper and lower members transversely disposed with relation to the teeth, 55 and means for clamping the upper and lower members in adjusted positions upon the teeth.

4. A plow attachment comprising a socket, an arm having a spindle, means for adjust- 60 ably securing the spindle in the socket, teeth pivotally connected with the arm, a bar comprising upper and lower members having spaced portions adapted to receive the teeth, and means for clamping the spaced portions 65 of the bar in adjusted position upon the teeth.

5. A plow attachment comprising a socket, clamping means for securing the same in adjusted position upon the plow, an arm 70 having a spindle, means for adjustably securing the spindle in the socket, teeth pivotally connected to the arm, a bar comprising upper and lower members having spaced portions for the reception of the teeth, and 75 clamping means for adjustably securing the spaced portions of the members of the bar in position upon the teeth.

In testimony that I claim the foregoing as my own, I have hereto affixed my signa- 80 ture in the presence of two witnesses.

JOHNATHAN WILLIAM FARRINGTON.

Witnesses:

R. E. BOZEMAN,  
 W. W. CAMPBELL.