

(No Model.)

O. T. JENSEN.
PLOW ATTACHMENT.

No. 521,117.

Patented June 5, 1894.

Fig. 1.

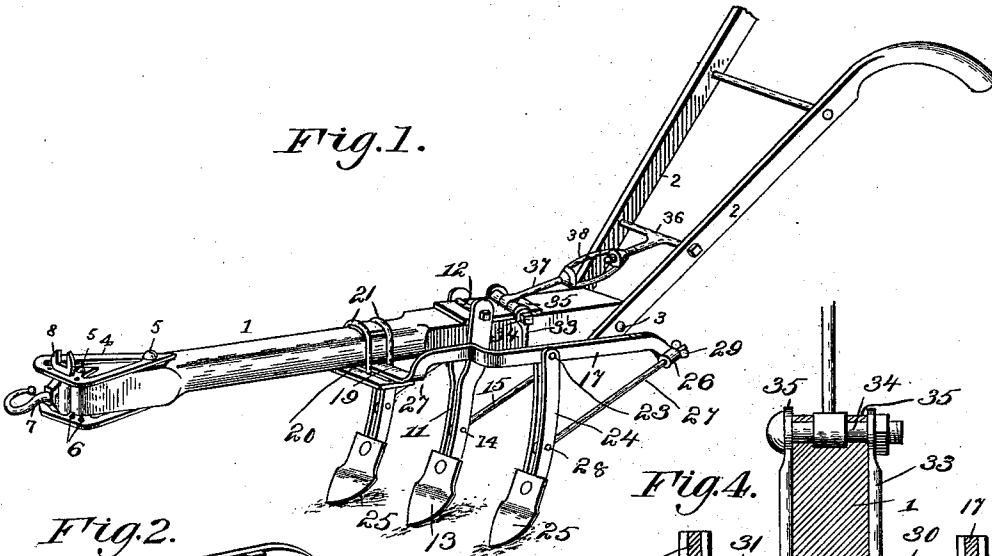


Fig. 2.

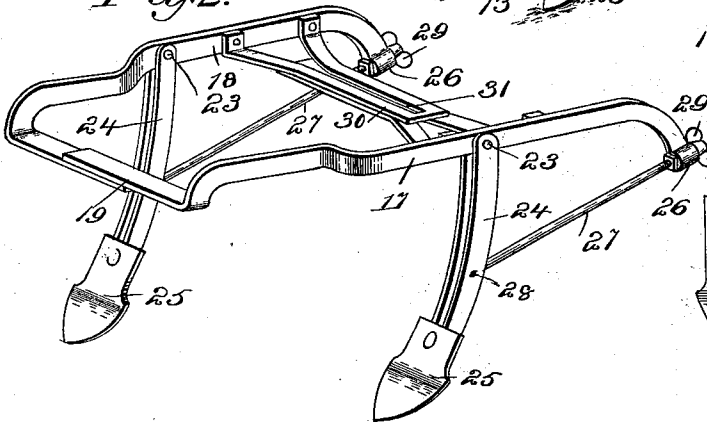


Fig. 4.

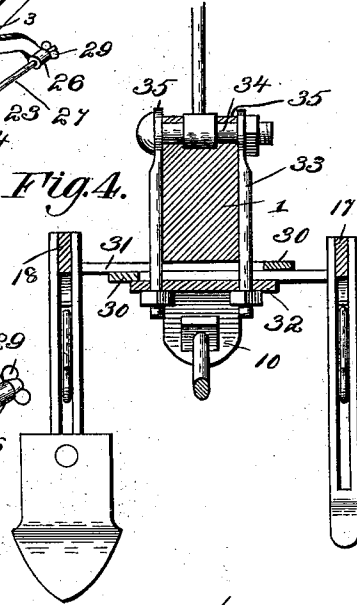
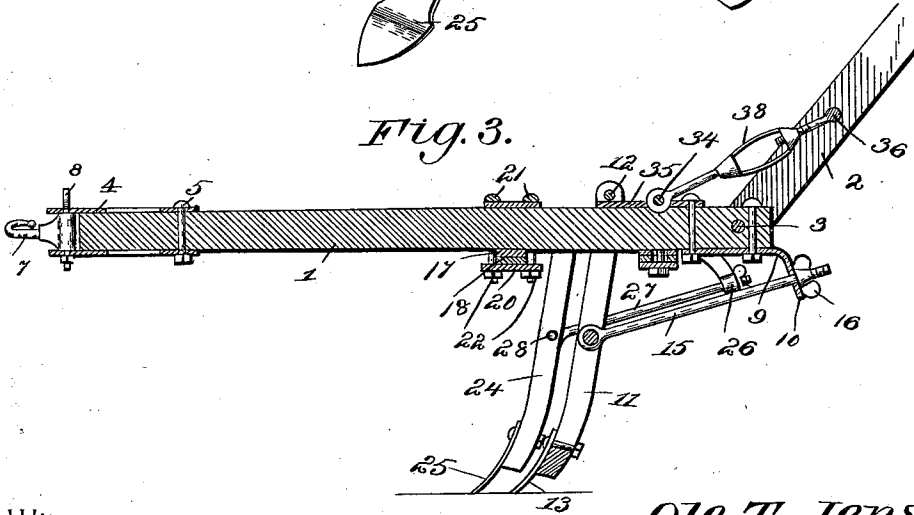


Fig. 3.



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UNITED STATES PATENT OFFICE.

OLE T. JENSEN, OF WEATHERFORD, TEXAS.

PLOW ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 521,117, dated June 5, 1894.

Application filed July 5, 1893. Serial No. 479,632. (No model.)

To all whom it may concern:

Be it known that I, OLE T. JENSEN, a citizen of the United States, residing at Weatherford, in the county of Parker and State of Texas, have invented a new and useful Plow Attachment, of which the following is a specification.

My invention relates to attachments for plows; the objects in view being to provide a cheap and simple attachment designed to be applied to the ordinary single foot plow stock, and thereby convert the same into a double shovel plow capable of performing all the functions of such, or into a gang plow; to provide means for adjusting the double shovels with relation to each other so as to straddle the rows to be cultivated; and finally, means for adjusting the standards of the plow whereby the same are adapted to run at any desired depth.

Other objects and advantages of the invention will appear in the following description and the novel features thereof will be particularly pointed out in the claims.

Referring to the drawings—Figure 1 is a perspective view of a plow provided with my attachment. Fig. 2 is a detail in perspective of the attachment. Fig. 3 is a vertical longitudinal sectional view through the stock and the attachment. Fig. 4 is a transverse vertical view thereof.

Like numerals of reference indicate like parts in all the figures of the drawings.

The plow stock 1 may be of any suitable design, but is preferably rounded from a point a short distance in advance of its butt end, and has bolted to said butt end a pair of pivoted handles 2 through the medium of a bolt 3 whereby, as will hereinafter appear, the said handles may be raised and lowered so as to accommodate themselves to the height of the operator.

A pair of heart-shaped clevis plates 4 are bolted by bolts 5 to the front end of the plow stock and project beyond said end, and they are provided in said projecting portions with pairs of vertically aligning perforations 6. Interposed between said projecting ends is a clevis hook 7, the same having a vertical bore at its inner end designed to align with the pairs of perforations 6 and to be pivotally

connected to any one of such pair by means of a vertical bolt 8. It is manifest that by a proper arrangement or location of the bolt in the pairs of perforations and a consequent location of the clevis hook the line of draft may be changed at will. At the opposite or butt end of the stock and to the under side there is bolted a metal plate 9 whose rear end is downwardly turned forming an ear 10, the same being perforated, as shown.

A bifurcated plow standard 11 embraces the stock in advance of the handles and above said stock has its terminals connected by a binding bolt 12. The lower end of the standard is provided with the usual shovel or plow 13 and between the bifurcations above said shovel there is pivoted by a bolt 14 an adjusting rod 15 whose rear end projects through and beyond the perforation in the ear 10, is threaded, and in front and in rear of said ear is provided with adjusting nuts 16, the rear nut being a tail nut and therefore readily manipulated. It will be obvious that through the manipulation of these nuts the inclination of the plow standard 11 may be regulated. It would, of course, require a loosening of the bolt 12 to secure the adjustment after which said bolt would necessarily have to be retightened. The rod 15 also acts as a brace and steadies the standard during operation.

At opposite sides of the stock there are located the longitudinal beams 17 and 18, the former being longer than the latter. Each beam has its front end inwardly bent at a right angle, as indicated at 19, the said ends overlapping each other below the beam. A clip plate 20 is located under the overlapping ends of the beams 17, and a pair of clips 21 straddle the stock 1 and have their terminals extended through openings formed in the corners of the clip plate below which they are provided with nuts 22 whereby the bent ends of the beams are securely clamped against the under side of the stock. Each beam has pivoted thereto, as at 23, a bifurcated standard 24, the same being set diagonal with relation to each other and to the central standard, and these standards may be provided with the ordinary shovels 25, as shown, or with any desired character of plow, sweep,

or otherwise. The rear ends of the beams 17 are downwardly curved similar to the plate 9 and are provided with eyes 26, and brace rods 27 are pivoted, as at 28, between the bifurcations of the standards 24, extend upward and rearward and pass through the eyes 26 at opposite sides of which they are provided with nuts 29, the rear nuts being tail nuts, as in the previous instance.

Each of the beams 17 at an intermediate point is provided with inwardly-disposed horizontal brackets 30 which take under the stock in rear of the central standard 11, and said brackets are slotted, as at 31, and inasmuch as they overlap their slots register. A clip plate 32 is located under the brackets and provided with perforations, and a pair of eye bolts 33 extend through said perforations and are located at opposite sides of the stock. These eye bolts 33 above the stock are connected by a transverse bolt 34 which is held in place by means of a keeper plate 35 secured upon the upper side of the beam, the front end of said plate taking under the bolt 12 of the central standard.

A T-shaped bolt 36 has its transverse branches swiveled in the handle bars 2 and its lower or stem portion threaded. An eye bolt 37 is loosely mounted on the horizontal bolt 34 and extends through a slot in the keeper plate and has its upper or rear end threaded reversely to that of the T-shaped bolt, and the two are connected by means of a turn buckle 38. It is obvious that through the medium of this turn buckle the handles may be raised and lowered to suit the operator. By loosening the bolts on the under sides of the brackets 30, it will be seen that the beams 17 may be adjusted laterally with relation to each other so as to straddle rows of plants of various widths. Furthermore, through a manipulation of the nuts 29 affixed to the brace rods 27, the standards of the beams, like the central standard, may be set at any inclination and therefore adapted to run at a desired depth. Finally, it will be seen that the central standard may be removed when it is desired to operate the attachment simply as a double shovel plow.

As above stated, the entire device may be employed in connection with the plow stock to form a gang plow, and also the character or styles of plows applied to the standards may be varied in accordance with the kind of work to be performed.

Various changes in the details of my invention will readily suggest themselves to those skilled in this class of devices, and I therefore do not limit my invention to such precise details as I have herein illustrated and described, but hold that I may make such variations as may be considered within the scope of mechanical skill and taste.

Having described my invention, what I claim is—

1. The combination with the plow stock, of the opposite side beams having their front ends inwardly bent under the stock and adjustably connected therewith, the opposite standards secured to the side beams and depending therefrom, brackets laterally and inwardly extending from said side beams and taking under the beam and provided with slots, a clip plate arranged under the brackets, and bolts for securing the clip plate to the beam, said bolts also engaging the slots of the brackets, substantially as specified.

2. The combination with the plow stock, of the opposite side beams having their front ends inwardly or horizontally bent to take under the plow stock, means for securing the front ends adjustably to the stock, a pair of slotted overlapping brackets horizontally and inwardly disposed from and connected to the beams, a clip plate arranged under the slotted brackets and having an opening agreeing therewith, eye bolts at the sides of the stock and passing through the slots of the brackets and openings in the clip plate, a transverse connecting bolt passing through the upper ends of the eye bolts, a pair of handles pivoted to the rear end of the stock, a T-shaped threaded bolt pivoted in the handles, an eye bolt loosely mounted on the connecting bolt and reversely threaded to the T-shaped bolt, and an intermediate connecting turn buckle, substantially as specified.

3. The combination with the plow stock, the opposite beams having their front ends inwardly disposed, overlapped and arranged under the stock and their rear ends downwardly disposed and provided with eyes, of the clip plate arranged under the front ends, the pair of inverted U-shaped clips embracing the stocks and overlapped ends of the beams, passing through the plates and provided with nuts, the pair of bifurcated standards connected with the beams, the brace rods pivoted to the bifurcated standards, inclined rearwardly and passing through the eyes and provided at opposite sides thereof with nuts, substantially as specified.

4. The combination with the plow stock, of the opposite side beams having their front ends inwardly bent under the stock and adjustably connected therewith, the opposite standards secured to the side beams and depending therefrom, brackets laterally extending from said side beams and taking under the beam and provided with slots, and clamping devices for holding the front ends of the beams and also the brackets to the plow stock, substantially as specified.

5. The combination with the plow stock; of the opposite side beams having inwardly bent ends overlapped and adjustably clamped to the under side of the stock, said opposite side beams having downwardly curved rear ends terminating in integral eyes, the standards pivotally secured at their upper ends to said

side beams, the brace rods pivotally connect-
ed at one end to said standards and having
their other threaded ends project through the
rear eyes of said side beams, and the adjust-
5 ing nuts engaging the threaded ends of said
nuts at both sides of said eyes, substantially
as set forth.

In testimony that I claim the foregoing as
my own I have hereto affixed my signature in
the presence of two witnesses.

OLE T. JENSEN.

Witnesses:

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A. T. COLLIER.