

No. 772,367.

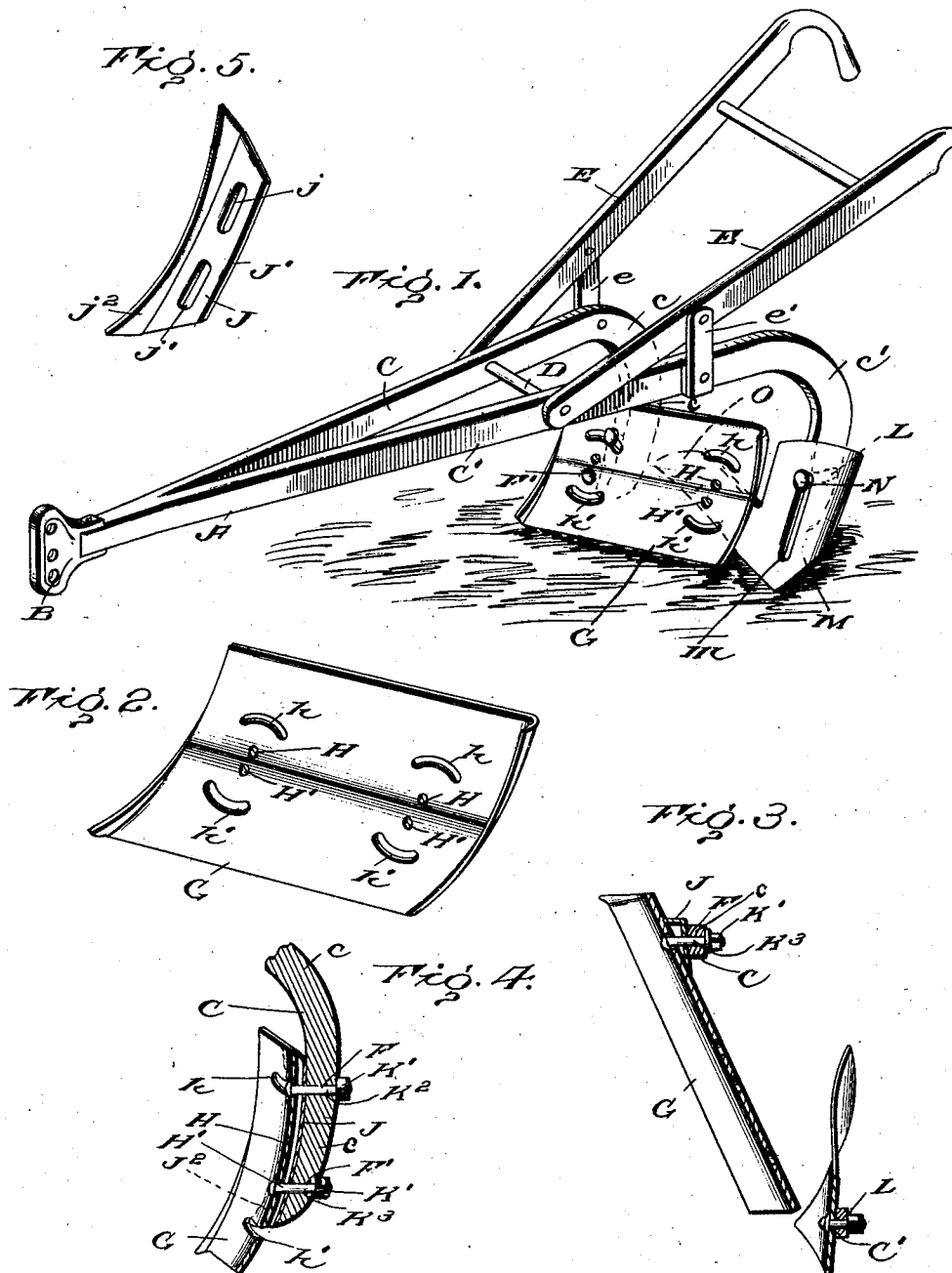
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N. McLAUGHLIN.

COMBINED SCRAPER AND SHOVEL PLOW.

APPLICATION FILED AUG. 24, 1903.

NO MODEL.



Witnesses

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UNITED STATES PATENT OFFICE.

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SCRAPER AND SHOVEL-PLOW.

SPECIFICATION forming part of Letters Patent No. 772,367, dated October 18, 1904.

Application filed August 24, 1903. Serial No. 170,603. (No model.)

To all whom it may concern:

Be it known that I, NEAL McLAUGHLIN, a citizen of the United States, residing at Jethro, in the county of Franklin and State of Arkansas, have invented new and useful Improvements in a Combined Scraper and Dirter, of which the following is a specification.

My invention relates to improvements in combined scraper and shovel-plow, and pertains more particularly to that class used in the cultivation of cotton.

The object of my invention is to provide a reversible scraper which in either of its positions can be readily horizontally or vertically adjusted and also adapted to be adjusted at an angle, the one holding means serving to hold the scraper in any and all of the adjusted or reversed positions.

Another object of my invention is to provide a scraper of this character in which the shovel-plow is correspondingly vertically adjustable and also adapted to be adjusted at any desired angle.

In the accompanying drawings, Figure 1 is a perspective view of my improved combined scraper and shovel-plow. Fig. 2 is an enlarged perspective view of my improved scraper removed. Fig. 3 is a transverse horizontal sectional view of Fig. 1. Fig. 4 is a vertical sectional view, partly broken away, of Fig. 1. Fig. 5 is a perspective view of the holding-plate.

Referring now to the drawings, A represents the draft-beam of my improved machine and which is provided at its outer end with the ordinary clevis B, by means of which the scraper is drawn along. The said draft-beam is formed of two flat bars C and C', which are welded together at their forward end, and passing through the said beams C and C' adjacent the rear end is a bolt D, which extends a slight distance beyond the beams and has secured thereto the upwardly-extending handles E and E', which have the downwardly-extending braces e and e', which are secured to the bars C and C'.

The rear end of the beam C is curved downwardly in the arc of a circle at c and is provided adjacent its lower end with two openings F and F', which extend horizontally there-through and by means of which the scraper

is secured thereon, as hereinafter more fully described. The scraper G consists of a rectangular piece of sheet metal, which is preferably of an elongated form and in cross-section is also curved in an arc of a circle to correspond with the curved portion of the bar C. The scraper, as before stated, is of rectangular form, having its two diagonal opposite corners obtuse angles, and the other two diagonal opposite corners acute angles. Thus it will be seen that the lower edge is in a horizontal plane as the said scraper extends in a line oblique to the plow-beam. The said scraper adjacent each end is provided with two openings H and H', which are arranged in a vertical plane one above the other, and above and below said openings are segmental slots h and h'. The bar C being flat on its forward face it is necessary to hold the scraper thereon at an angle, and thus I provide a member J. The said member J is curved to correspond with the curvature of the lower end c of the member C and is provided with the vertical elongated slots j and j', and the edge thereof is provided with a laterally-extending flange j², which is also of a curved form corresponding to that of the curve of the scraper G.

The member J rests against the forward edge of the curved portion of the bar C, with the flange J' on the outside, and the scraper is then placed thereon and is adapted to bear against the flange J' and the opposite edge j² of said member. The bolt K³ passes through the lower opening H' in the scraper, through the lower elongated slot j', and through the lower opening F' in the member c. A second bolt passes through the upper segmental slot h, through the slot j in the plate J, and through the upper opening in the member c. Thus it will be seen that when the nuts K' on the ends of the bolts are drawn tight the said scraper is clamped to the member C at an angle to the flange J'. The upper bolt K² being in the segmental opening, it will be readily seen that by loosening said bolts the lower bolt serves as a pivot for the scraper, and it is adapted to be turned thereon at any angle, and the upper bolt is then tightened, and it is held firmly in its adjusted position. When it is desired to raise the scraper, the

lower bolt K³ is passed through the lower segmental slot H', and the upper bolt passes through the upper opening H of the pair, and it will be clearly seen that the adjustment is precisely the same. Having the two series of openings, one at each end, allows of the reversal of the scraper when one end has become worn, and it also allows of the precise arrangement and adjustment, as both ends are constructed precisely alike. This construction also allows of the scraper being placed to either side of the bar C.

The bar C' extends considerably farther backward than the bar C and is turned downwardly at c' in a manner precisely like the bar C and has an opening L extending there-through. The shovel-plow M consists of a vertical plate having a vertical elongated slot m therein, through which passes the clamping-bolt N and by means of which the said shovel-plow M is vertically and obliquely adjusted on the bar C'. The said vertical portion of the scraper is provided with an obliquely-arranged upwardly-extending scraper proper, O.

The operation of my device is as follows: The scraper is first adjusted in its proper position, and the shovel-plow is adjusted accordingly—that is, it is adjusted in about a horizontal plane therewith. The scraper being in advance of the shovel-plow it will thoroughly scrape all the grass, weeds, and lumps of dirt away from the cotton, and the shovel-plow being at an angle exactly opposite to the scraper it will throw the fine dirt up around the cotton.

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

1. A scraper comprising a draft-beam, a downwardly - extending curved member, a blade having a vertical movement on a fulcrum-point which is adapted to allow the free end of the blade to be swung up or down.

2. A scraper, comprising a draft-beam having a downwardly-extending member, a blade having two openings one above the other, segmental slots above and below the said openings, and bolts passing through one of said openings and one of said slots.

3. A scraper, comprising a draft-beam, a downwardly - extending curved member, a curved rectangular blade having two openings one above the other, segmental slots above and below the said openings, and bolts passing through one of said openings and slots and through the downwardly-curved member.

4. A scraper, comprising a draft-beam, a downwardly-curved member, a curved angular-shaped plate resting against the forward part of said curved member, a curved rectangular blade resting against said curved angular-shaped plate and having two openings one above the other, segmental slots above and below said openings, and bolts passing through one of said openings and slots, and through

the wedge-shaped block and the downwardly-curved member.

5. A scraper comprising a draft-beam, divided adjacent its rear end, one end of said divided portion turned downwardly, a reversible and adjustable blade carried by said downwardly-extending member, the other end of said divided portion of the beam extending rearward and turned downwardly and an adjustable shovel-plow carried by said downwardly-turned member.

6. A scraper comprising a draft-beam, a downwardly - extending curved member, a curved plate resting against said downwardly-extending member, and having an elongated slot therein, an outwardly-extending flange carried by said plate and having a curved edge, a curved rectangular blade resting against said flange and plate, said blade having adjacent each two openings one above the other and segmental slots above and below said openings at each end of the blade, a bolt passing through one of said openings, and a second bolt passing through the segmental slot in the blade and said bolts passing through the slots in the plate and through the curved member.

7. A scraper, comprising a draft-beam, a downwardly-extending curved member, carried by the beam, a curved angle-plate resting against said curved member, and having elongated vertically-disposed slots therein, a blade resting against said plate, and bolts passing through said blade, the slots in the curved angular plate, and the downwardly-extending curved member.

8. A scraper, comprising a draft-beam, a downwardly-curved member carried thereby, a curved angular plate resting against said curved member and having elongated vertical slots therein, a blade resting against said plate and having openings and segmental slots so arranged that the blade may be vertically adjusted together with the plate, or may be swung on said plate.

9. A scraper, comprising a draft-beam, a downwardly-curved member carried thereby, a curved angular plate resting against said curved member, and vertically adjustable thereon, a blade carried by said plate and means for oscillating said blade on said plate.

10. A scraper, comprising a draft-beam, a downwardly-curved member carried thereby, a curved angular plate resting against said curved member, a blade resting against said curved plate, and means for vertically adjustably holding said blade on said curved member and said means constructed to allow of an oscillating movement of said blade.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

NEAL McLAUGHLIN.

Witnesses:

J. R. McLAUGHLIN,
E. B. MILTON.