

(No Model.)

G. WATSON.
PLOW ATTACHMENT.

No. 481,215.

Patented Aug. 23, 1892.

FIG. 1.

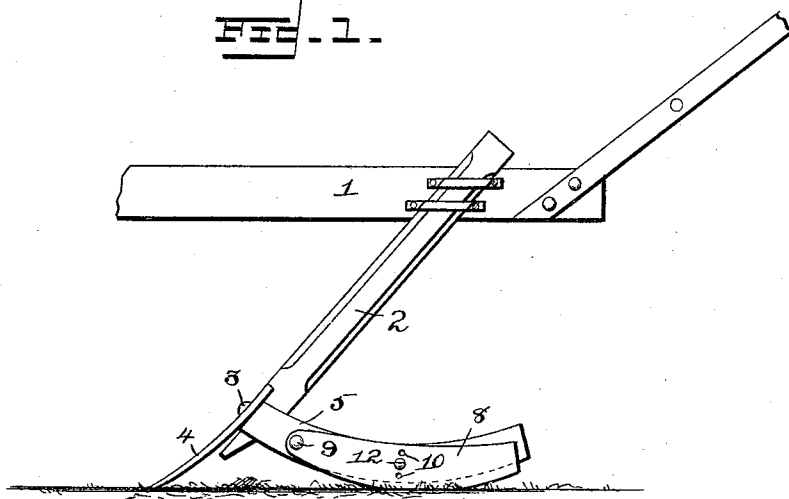


FIG. 2.

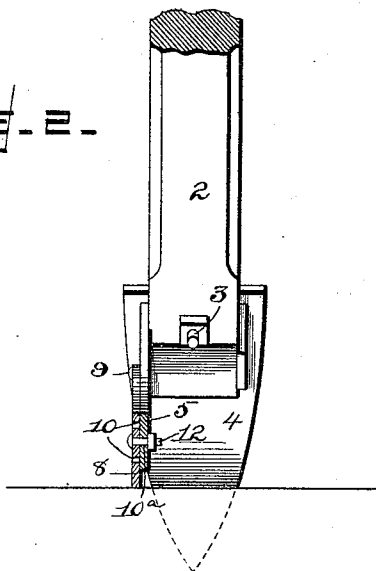
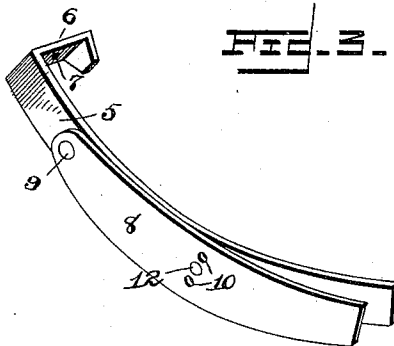


FIG. 3.



Witnesses:

E. S. Duval Jr.
W. S. Duval

By his Attorneys,

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UNITED STATES PATENT OFFICE.

GEORGE WATSON, OF CULPEPPER, ALABAMA.

PLOW ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 481,215, dated August 23, 1892.

Application filed August 20, 1891. Serial No. 403,232. (No model.)

To all whom it may concern:

Be it known that I, GEORGE WATSON, a citizen of the United States, residing at Culpepper, in the county of Wilcox and State of Alabama, have invented a new and useful Plow Attachment, of which the following is a specification.

This invention relates to an attachment for plows.

The objects in view are to provide an attachment to be used in connection with any ordinary plow—as, for instance, a subsoiler, shovel or half-shovel, bull-tongue, sweep, &c.—and by the use of such attachment to regulate the depth of the plow and steady the same, whereby it is of lighter draft and more easily handled. A further object in view is to provide for an adjustment whereby the wearing away of the gage may be compensated for.

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 claim.

Referring to the drawings, Figure 1 is a side elevation of a portion of a plow provided with an attachment constructed in accordance with my invention. Fig. 2 is a transverse section through the attachment. Fig. 3 is a detail, in perspective, of the attachment.

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

In the drawings, 1 designates a plow-beam, from which depends the usual plow-standard, and to the lower end of the same there is secured in position by the usual heel-bolt 3 the plow-shovel 4, of any ordinary shape.

5 designates the main member of the attachment, and the same is simply a curved bar, the front end of which is laterally and preferably rearwardly bent, as at 6, so as to embrace the front and opposite sides of the standard 2. In applying the attachment the member is located upon the standard and between it and the shovel, and at its laterally bent or disposed portion is provided with a bolt-opening 7, through which the heel-bolt is passed, so that the plow and the attachment are both snugly bound to the standard. By reason of the lateral and the rearward bend-

ing of the main member lateral movement either sidewise or vertically upon the part of the main member is avoided.

The above may constitute the attachment; but I have found by experience that the constant wear to which the edge of the bar is subjected by sliding over the soil soon renders the bar narrower, and thus its efficiency as a gage is constantly decreasing. I have therefore devised a supplemental member or bar, which may be adjustably attached to the main member or bar and at intervals adjusted, so as to constitute the surface for taking the wear from the bar and, being lower with relation to the same, constantly compensates for any wear that takes place.

8 designates the supplemental bar, which, like the member 5, is curved, and is pivoted at its front end to the member 5 near its front end, as at 9, by means of a pivot-bolt. Near its center the supplemental bar is provided with a laterally-disposed series of bolt-holes 10, which are concentrically arranged with relation to the bolt 9, and any one of the same may be thrown into alignment with a perforation 10, formed in the main member of bar 5, so that the two bars may be locked together and made rigid by means of a removable bolt 12.

In use the supplemental bar, if employed, is adjusted so that its lower edge is a slight distance below the corresponding edge of the main bar, and thus said supplemental bar takes the wear from the edge of the main bar and preserves the latter intact. As the supplemental bar becomes worn and its lower edge assumes a position nearly flush with the lower edge of the main bar, said supplemental bar is again adjusted, so as to extend at its lower edge below that of the main bar, and such adjustment may be continued from time to time, as may be found necessary by the wear upon the supplemental bar, until said supplemental bar becomes worn away and can be adjusted no longer. This supplemental bar may then be removed and a new one substituted, or the main bar may be used and be permitted to wear away. As before stated, it will be understood that the main bar may be employed alone; but I prefer, for

reasons hereinbefore stated, to employ the attachment or supplemental bar in connection therewith.

5 The many advantages arising from the employment of this attachment will be obvious to those skilled in the cultivation of the soil, and it will be found especially advantageous when employed in connection with covering-
10 shovels for uniformly covering seed and also in the cultivation of land where the same is loamy and the subsoil sandy, thus requiring shallow cultivation in order to prevent what is commonly termed "leaching."

15 Having described my invention, what I claim is—

The herein-described plow attachment, consisting of the main curved bar adapted at its front end for detachable engagement with the

lower end of the standard and the supplemental curved bar pivoted to the main bar and 20 disposed along the side of the same and provided with a series of perforations concentric with the pivot, any of which may be thrown into register with an opening in the main bar, and a removable bolt for passing through the per- 25 forations of the two bars and thus adjusting the bars with relation to each other, substantially as specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in 30 presence of two witnesses.

GEORGE WATSON.

Witnesses:

J. W. GIBSON,

W. A. WATSON.