No. 626,790. Patented June 13, 1899.

J. W. LOVLACE.

ATTACHMENT FOR PLOWS.

(Application filed Mar. 30, 1899.)

(No Model.) 2 Sheets—Sheet 1.

FIG. 1.

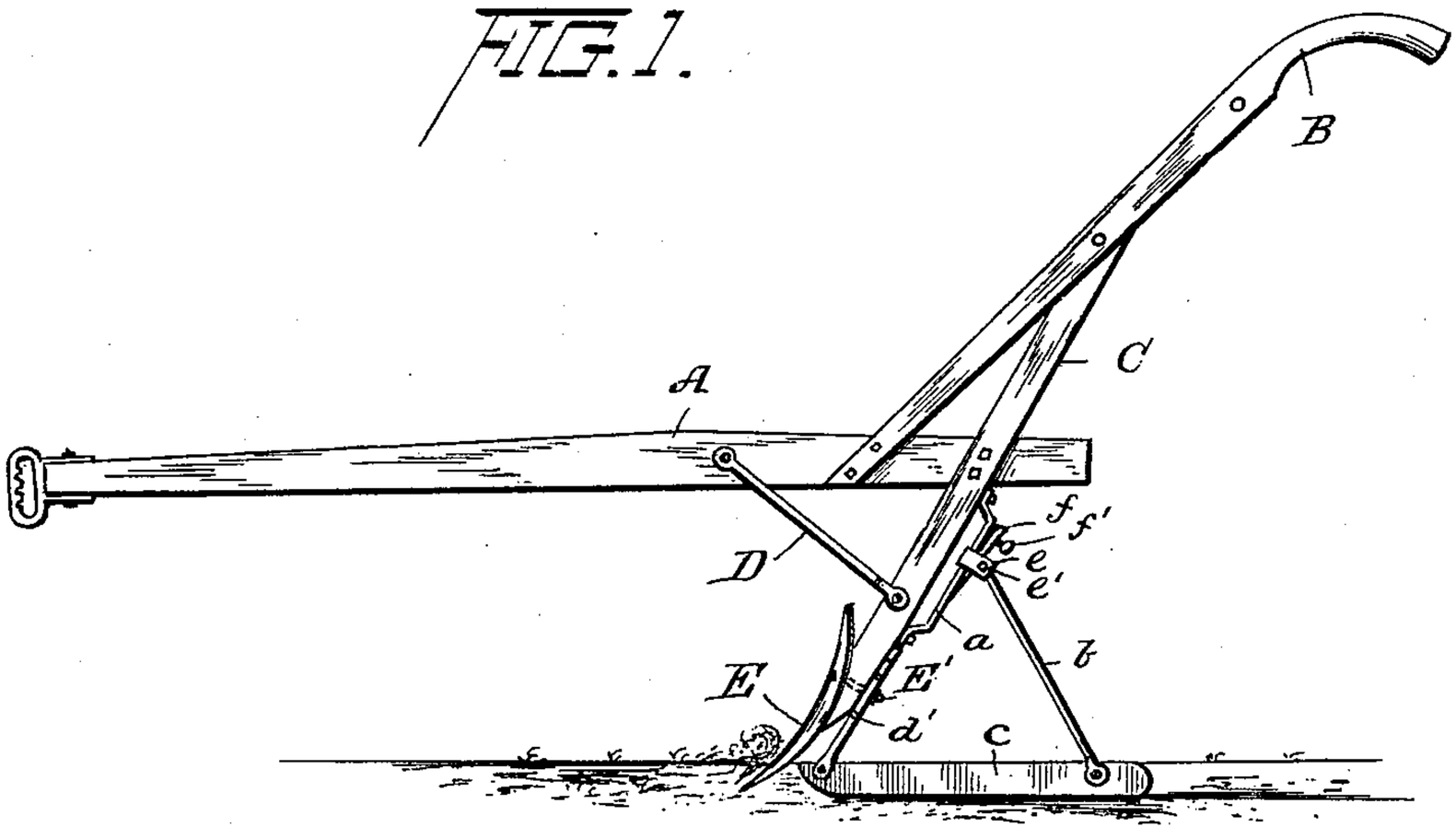
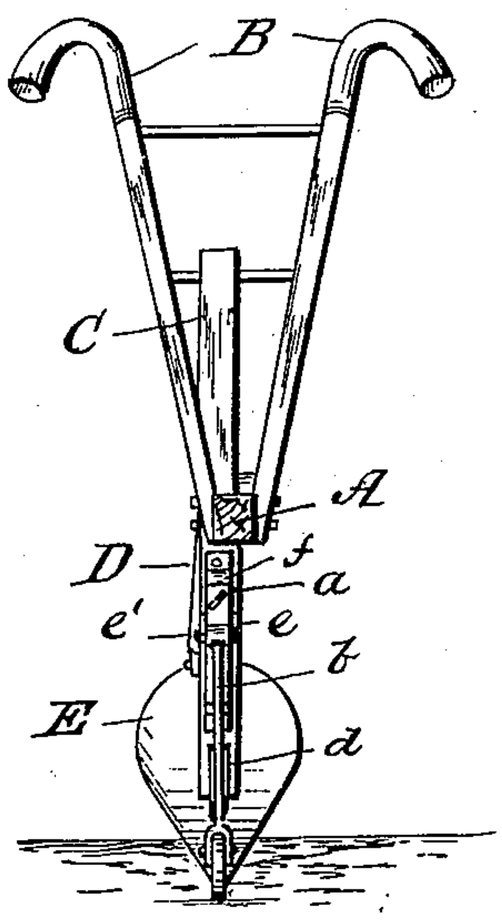


FIG. 2.



Witnesses
Sam'l R. Turner
J. Lacy T. Bright

Inventor
James W. Lovlace.
by Fredk Benjamin.
Attorney

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FIG. 3.

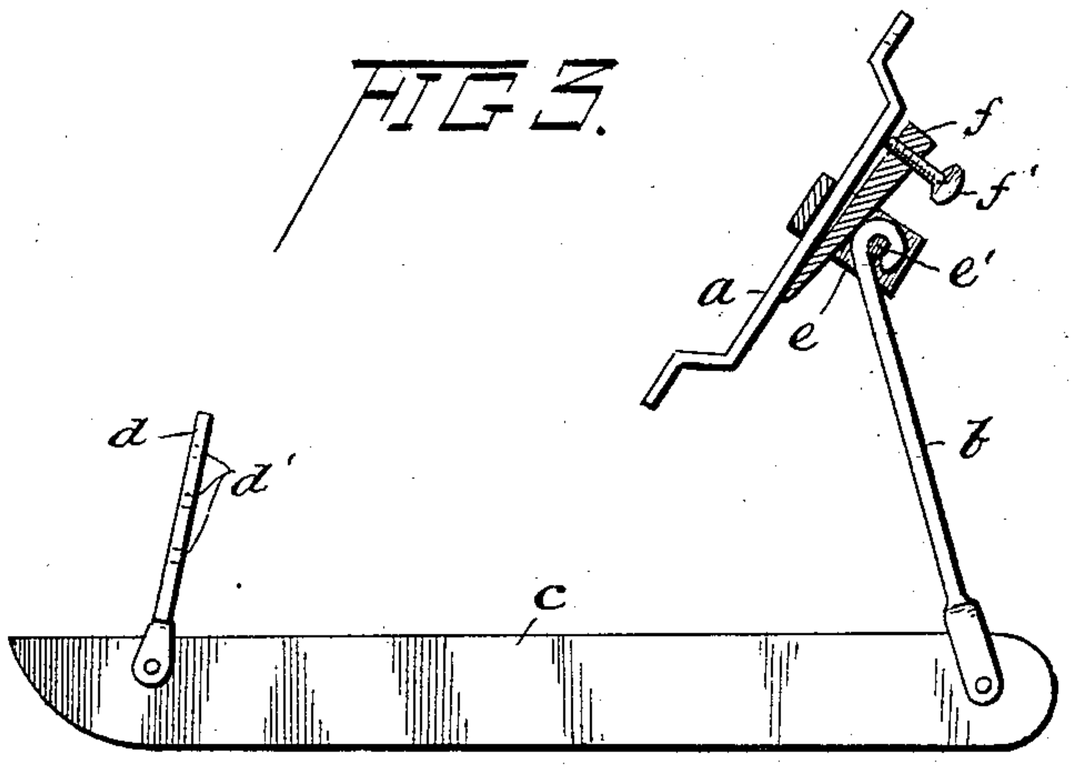


FIG. 4.

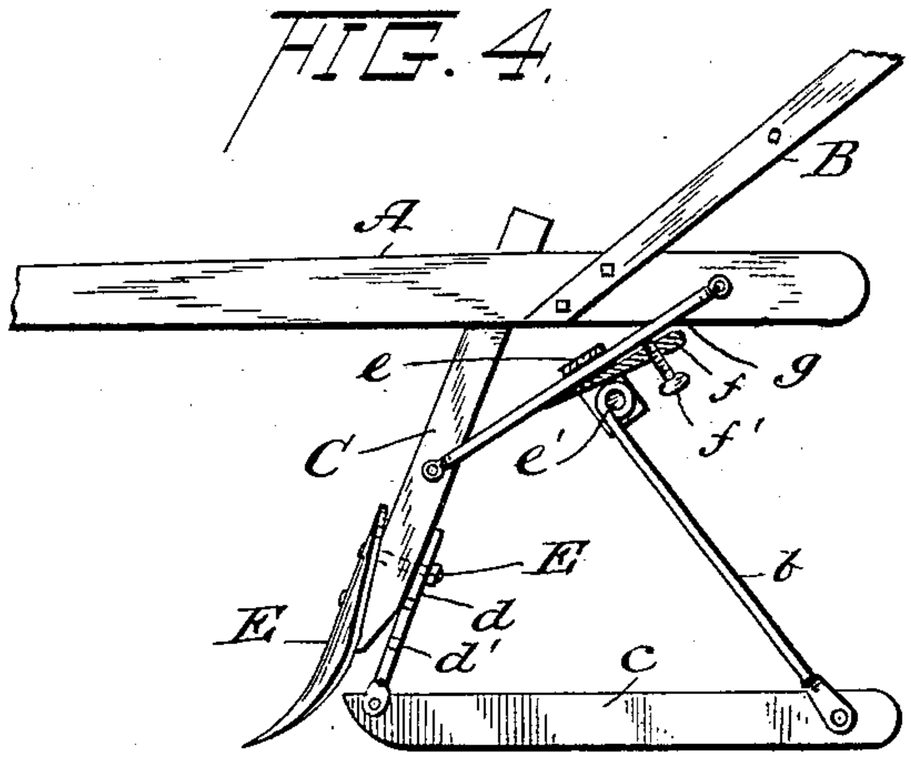
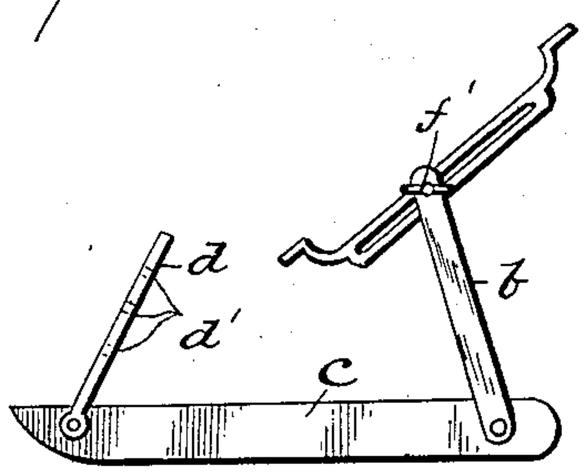


FIG. 5.



Witnesses
Saml R Turner
Henry T. Bright

Inventor
James W. Lovlace.
by Fredk Benjamin
Attorney

UNITED STATES PATENT OFFICE.

JAMES WILLIS LOVLACE, OF BURNSVILLE, MISSISSIPPI.

ATTACHMENT FOR PLOWS.

SPECIFICATION forming part of Letters Patent No. 626,790, dated June 13, 1899.

Application filed March 30, 1899. Serial No. 711,146. (No model.)

To all whom it may concern:

Be it known that I, JAMES WILLIS LOVLACE, a citizen of the United States, and a resident of Burnsville, in the county of Tishomingo, State of Mississippi, have invented certain new and useful Improvements in Attachments for Plows, of which the following is a specification.

My invention relates to improvements in attachments for shovel plows or cultivators, the objects of which are to gage the depth at which the shovel shall run and to prevent, as far as possible, side or lateral motion.

My invention consists of a device which is attachable to the common forms of implements of the class named, requiring for its application little or no change in the form or construction of the implement itself.

It has been my aim in this invention to produce an attachment which will combine the qualities of effective operativeness with simplicity and economy of construction, so that it may be quickly attached and readily adjusted and so that should any part get broken or lost the missing or defective part could be easily replaced by any blacksmith.

In order that my invention may be fully understood, attention is invited to the accompanying drawings, which form a part of this application, and in which—

Figure 1 is a side elevation of a single-shovel plow, showing my attachment applied thereto. Fig. 2 is a rear elevation of Fig. 1. Fig. 3 is a detail of my attachment alone. Fig. 4 shows in elevation the manner of attaching the device to a plow having an iron standard. Fig. 5 shows a modification of the attaching-bracket.

Referring to the drawings, A represents the beam, B the handles, C the standard, D the brace-rod, and E the shovel, of the well-known form of one-horse cultivator or single-shovel plow.

At the rear side of the standard, below the beam, is an iron bracket *a*, the ends of which are secured to the standard by screws or bolts, so that the middle portion of the bracket stands out from the standard, as shown in Fig. 1. Fitting loosely over the bracket *a* is a ∩-shaped link *e*, in the ends of which is a pin *e'*. Hinged on this pin is a bar *b*, to the lower end of which is pivoted the lower or heel end of a shoe *c*, which is adapted to run in the bottom of the furrow or track made by the plow-shovel. The front or toe end of this shoe is pivotally connected with a short link or bar *d*, which is adjustably secured to the lower end of the standard by means of the bolt E', which is used to secure the shovel to the standard, said bolt passing through one of the holes *d'* formed in the link *d*.

In order to secure the bar *b* adjustably on the bracket *a*, I provide a wedge *f*, the upper end of which is perforated and threaded for the reception of a thumb-screw *f'*. The wedge is inserted between the pin *e'* of the link *e* and the bracket *a*, with the end of the screw *f'* impinging against the bracket. By screwing up the thumb-screw the upper end of the wedge will be forced outwardly, thus increasing the pressure of its lower end against the bracket and so firmly wedging the adjacent parts.

Where the device is applied to a plow having an iron standard and the usual brace or grass-rod, as *g*, Fig. 4, the bracket is not required, as the link *e* is placed around the rod *g* and the wedge applied in the same manner as with the bracket *a*.

Where the attachment is applied to new plows as they are manufactured, I may adopt the form of bracket shown in Fig. 5, where instead of a plain bar I longitudinally slot the bracket, as at *a'*. In using this form of bracket I am able to dispense with the sleeve *e* and wedge *f* and simply perforate the upper end of the bar *b* and insert therethrough the screw-bolt *f'*, on the threaded end of which is a lock or jam nut, by which the parts are locked on the bracket by frictional contact.

It will be noted that in this invention I have provided not only for adjustment at the heel of the gage *c*, but also at its front end, thus enabling the plowman to keep the gage or shoe in an approximately horizontal position during all required adjustments for different depths of plowing.

It will be apparent that by forming holes through the shoe I may attach thereto wooden strips to give a broader bearing on the ground for the shoe.

It will also be apparent that my device is capable of attachment to double-shovel as well as single-shovel plows.

Having thus described my invention, what

I claim as new, and desire to secure by Letters Patent, is—

An attachment for plows of the character described, consisting of a slotted bracket secured to the standard, a bar depending from said bracket, a shoe carried by said bar, an adjustable link secured to said shoe and to the standard of the plow, and means for adjustably securing the depending bar to the slotted bracket, substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

JAMES WILLIS LOVLACE.

Witnesses:

S. T. HUTTON,

J. M. WOODRUFF.