

(No Model.)

M. J. HATCHER.

PLOW.

No. 344,656.

Patented June 29, 1886.

FIG. 1.

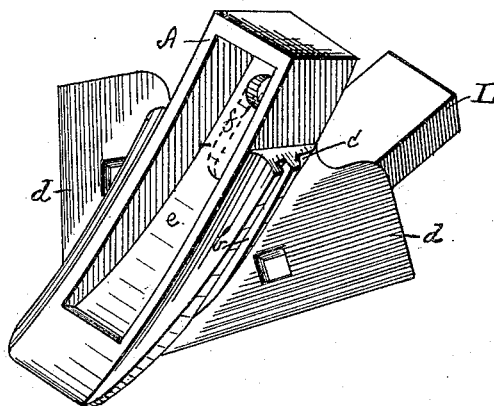


FIG. 2.

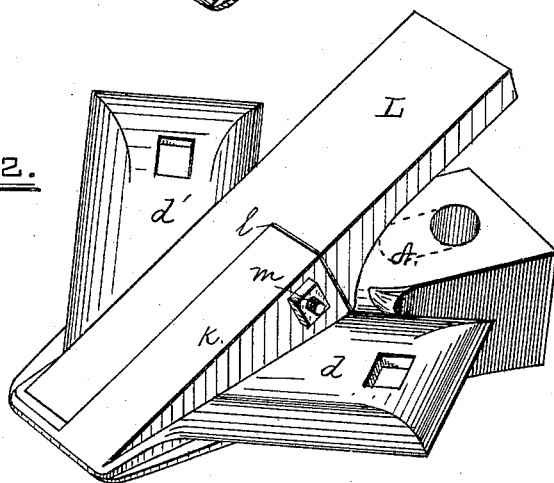


FIG. 3.

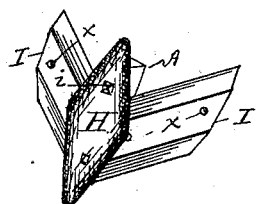


FIG. 4.

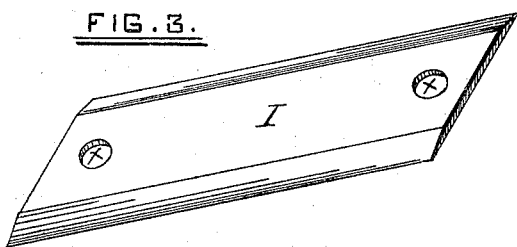
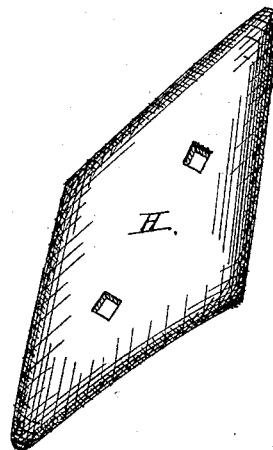


FIG. 5.



Witnesses

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# UNITED STATES PATENT OFFICE.

MARSHALL JAMES HATCHER, OF MACON, GEORGIA.

## PLOW.

SPECIFICATION forming part of Letters Patent No. 344,656, dated June 29, 1886.

Application filed April 28, 1886. Serial No. 200,460. (No model.)

*To all whom it may concern:*

Be it known that I, MARSHALL JAMES HATCHER, a citizen of the United States, and a resident of Macon, county of Bibb, State of Georgia, have invented new and useful Improvements in Plows, of which the following is a full and exact description, reference being had to the accompanying drawings, making part of this specification.

The invention consists in certain combinations of parts and in details of construction, hereinafter fully described and specifically claimed.

Figure 1 is a perspective view of the upper part of my plow-foot or share-holder. Fig. 2 is a similar view of the under side of same; Fig. 3, a like view of one of the side sweeps or wings. Fig. 4 represents the share or plow-point; and Fig. 5 is a perspective view, on a reduced scale, of my invention complete and ready for attachment to a plow-standard.

On the drawings, the letter A designates the plow-foot or share-holder, the sides of which are provided with grooves *b c* and lugs *d d'*. The center of the plow-foot or share-holder is provided with a recess, *e*, and in the bottom thereof with a bolt hole or slot, *f*, for the reception of a bolt, whereby the plow-point H is designed to be secured thereto. The plow-point H is made of a lozenge or diamond shape, with bolt-holes near the opposite points thereof, in order that it may readily be reversed when the operating-point becomes too much worn for use. The usual curvature is given the point to enable it to cut through and throw off the earth, as well as to provide for its fitting snugly against the plow-foot or share-holder, to which it is adapted to be rigidly secured by means of a bolt, as shown at *i* in Fig. 5.

The letters I I' designate a pair of side sweeps or wings, the front and rear edges of which are provided with cutting-edges, to permit of their being reversed as occasion may require. The opposite ends of these sweeps or wings are cut at such angle that when either of the said ends are inserted in the grooved sides of the plow-foot their outer ends shall be about parallel therewith, but inclined to the rear thereof, and each sweep shall have a rear inclination, the angle of which shall depend on

the groove employed. The said sweeps are rigidly held in either groove by means of bolts, which are adapted to fit holes made in the lugs *d d'*, and in suitable holes that are formed for said purpose near each end of the sweeps, as shown at *x* in Figs. 3 and 5. The under surface of the plow-foot is provided with a lug, *k*, having an even width but increasing depth as it extends rearward from its starting-point at the forward edge of the plow-foot. To this lug is fitted the landside L, the forward portion of which is of similar inclination to the lug, and provided with a side mortise, *l*, so as to fit snugly against same and in close contact with the adjacent surface of the plow-foot, in which position it is firmly held by a bolt, *m*, which is inserted in bolt-holes made in both landside and lug for the reception of same.

From the above description it will be seen that when the plow point or sweep becomes dull or in anywise injured it can be readily reversed, and thus new cutting-edges be arranged for action without having to leave the field, or to carry thereto additional or duplicate parts, as heretofore.

In the application of my invention, instead of connecting the parts together as shown in Fig. 5 of the drawings, the plow-standard should be shown between the share-holder and share, with the single fastening-bolt *i* passing through the three pieces, the share being secured to the front of the standard and the share-holder or plow-foot at the rear thereof; and the reversible side sweeps should be shown with their flat sides instead of beveled surfaces to the front.

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

1. A plow-foot or share-holder having a central hole or slot, *f*, a pair of outwardly-projecting lugs at the sides thereof, a series of grooves immediately above said lugs, each groove inclined toward the point of the holder, as described, and a landside-lug near the center of the under surface of the holder, substantially as described, and for the purpose set forth.

2. The combination of a plow-foot or share-holder provided with side lugs having bolt-holes therein, and a series of side grooves

above same, as described, with the reversible sweeps having bolt-holes near each end thereof, and the bolts whereby the sweeps are secured, substantially as and for the purpose specified.

3. The share-holder or plow-foot provided with a central bolt-hole, a series of grooves at each side thereof, the said grooves inclined toward the point of the holder, and a pair of outwardly-projecting lugs immediately below the grooves, for the support of a pair of sweeps,

as described, in combination with a diamond-shaped reversible share having bolt-holes in the opposite points thereof, and a bolt for securing the said share in front of the holder, substantially as and for the purpose set forth.

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

MARSHALL JAMES HATCHER.

Witnesses:

GEORGE T. HARRIS,

J. J. WILDER.