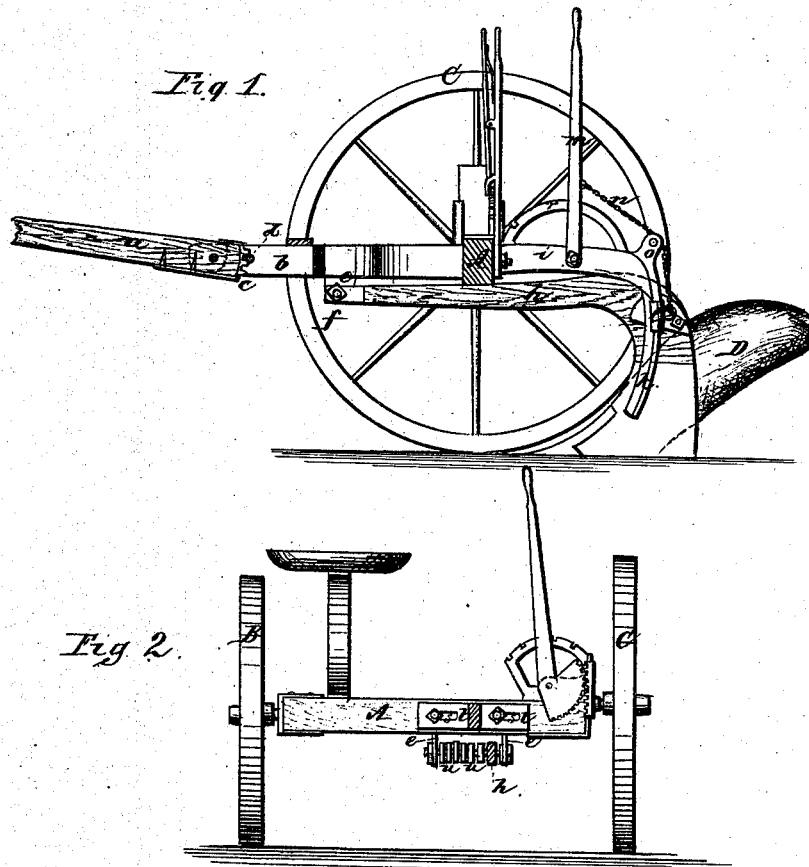


H. W. MASON.
SULKY PLOW.

No. 107,938.

Patented Oct. 4, 1870.



Witnesses.
Co. A. Pettis
Thos. D. D. Curand

Henry W. Mason Inventor.
by *Reuben L. Co.*
his Attorneys.

UNITED STATES PATENT OFFICE.

HENRY W. MASON, OF HAGERSTOWN, MARYLAND.

IMPROVEMENT IN SULKY-PLOWS.

Specification forming part of Letters Patent No. 107,938, dated October 4, 1870.

To all whom it may concern:

Be it known that I, HENRY W. MASON, of Hagerstown, in the county of Washington and State of Maryland, have invented a new and Improved Sulky-Plow; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing, making a part of this specification, in which—

Figure 1 is a sectional elevation, and Fig. 2 is a transverse vertical section.

The invention relates to improvements in sulky-plows; and consists in the arrangement of the plow and plow-beams for adjustment, as hereinafter described.

In the drawing, A is the axle, B the land-wheel, and C the furrow-wheel, of a sulky-plow, the axle being provided with certain well-known means for raising or lowering the ends next the furrow-wheel, so as to keep the axle always level, whatever be the depth of the furrow—the tongue *a*, pivoted at a point near its rear end between metal plates *b*, that project horizontally forward from the front side of the axle, to which their rear extremities are secured; a rack, *c*, attached to the hinder end of the tongue; a pin, *d*, passing horizontally through the plates *b* and through either one of the interstices in the rack *c*; lugs *e*, projecting downward from the plate *b*; a pin, *f*, passing horizontally through the lugs *e*; and the plow D, the forward end of whose beam *h* is pivoted upon the pin *f*.

If the tongue *a* be raised on its pivot, and fixed in that position by the pin *d*, when brought into its proper position between the draft-animals, it lowers the plates *b*, lugs *e*, and the forward end of the plow-beam *h*, which lowering allows the plow to cut a deeper furrow.

If the tongue *a* be lowered on its pivot, when brought into the nearly horizontal position it occupies between the draft-animals, it raises the front end of the plow-beam and causes the plow to cut a shallower furrow.

In moving to and from the place where the machine is to be used, the plow should be kept elevated. To accomplish this a bar, *i*, Fig. 1, attached at its front end to the axle, projects rearward therefrom, and bears at its hinder

end an arm, *k*, projecting downward, and curved on an arch whose center is the pivot of the plow-beam. A socket, *l*, loosely incloses the curved arm *k* and is secured to the adjacent side of the plow-beam. A lever, *m*, is jointed at its lower extremity to the bar *i* and connected by a chain, *n*, with the socket *l*. The chain *n* runs over a friction-pulley placed between lugs *o*, springing from the rear part of the bar *i*.

The lever *m* is combined with a spring-detent, which, when it catches in some one of the recesses in the semicircular rack *r*, which projects upward from the bar *i*, holds the lever *m* in place.

If the lever be moved forward it raises the plow, the socket *l* easily following the curved arm *k*. When the plow is elevated to the proper height, it is retained in that position by the detent of the lever *m*.

The width of the furrow is regulated by shifting the plow toward or from the wheel C, which runs in the furrow. To preserve the parallelism of the furrows, it is necessary that both ends of the plow-beam should be moved the same distance.

The flanges *t* of the bar *i* are provided with slots *s*, through which pass the set-screws which fasten the bar to the axle. This arrangement provides for shifting the rear end of the plow.

Upon the pin *f*, which is the pivot of the plow-beam, by the side of the latter, is placed a sufficient number of washers, *u*, to fill up the space between the plow-beam and lugs *e*. On removing the bolt *f* the front end of the beam *h* may be moved to the same distance from the wheel C as the plow, and the washers adjusted accordingly.

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

The bar *i*, provided with the slotted flanges *t*, the plow-beam *h*, the plates *b*, provided with the lugs *e*, and the pin *f*, arranged together as described.

H. W. MASON.

Witnesses:

SOLON C. KEMON,
CHAS. A. PETTIT.