

(No Model.)

2 Sheets—Sheet 1.

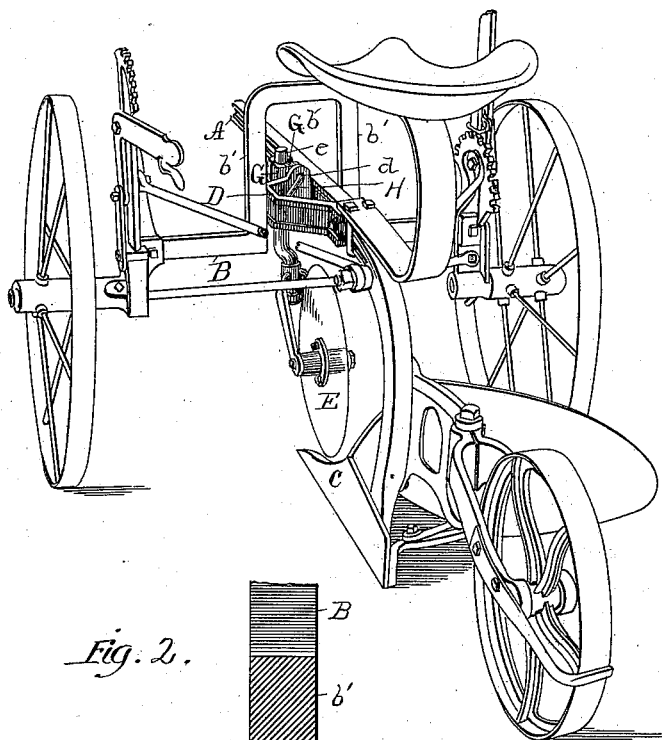
J. THOMPSON & S. B. SECRIST.

PLOW.

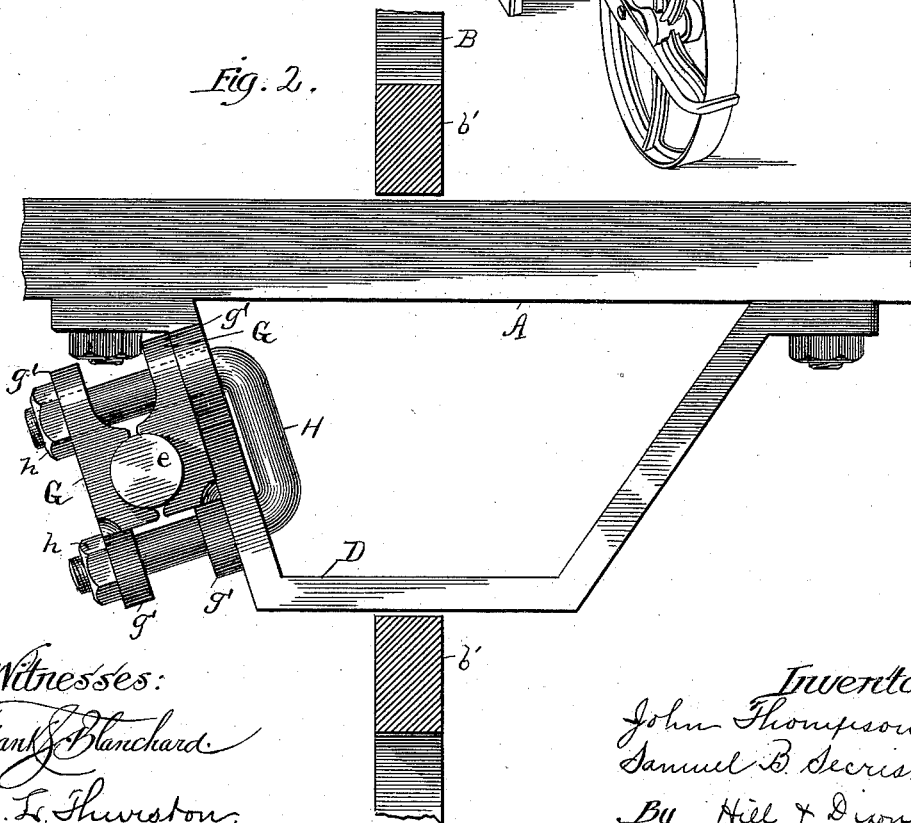
No. 385,216.

Patented June 26, 1888.

*Fig. 1.*



*Fig. 2.*



*Witnesses:*  
*Frank Blanchard*  
*E. L. Shurston.*

*Inventors:*  
*John Thompson, &*  
*Samuel B. Secrist.*  
*By Hill & Dixon.*  
*Attorneys.*

(No Model.)

2 Sheets—Sheet 2.

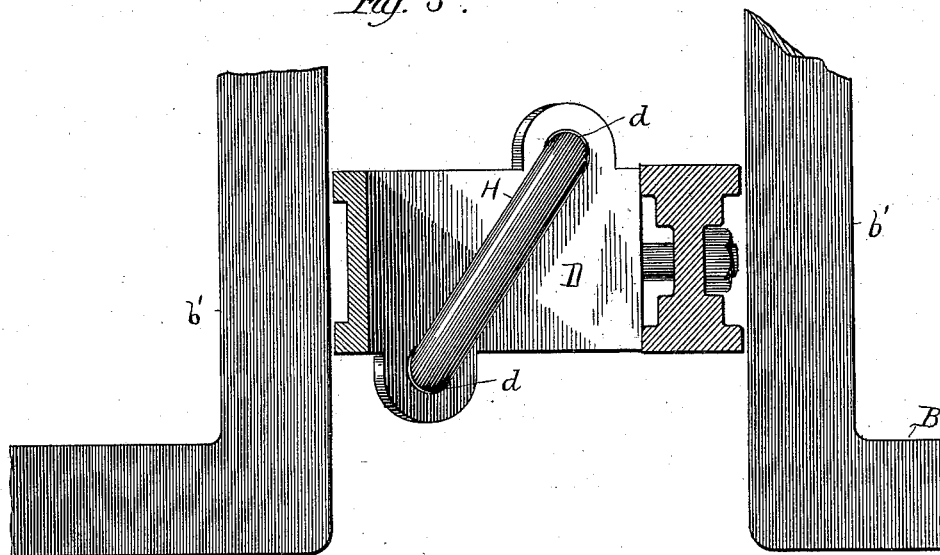
J. THOMPSON & S. B. SECRIST.

PLOW.

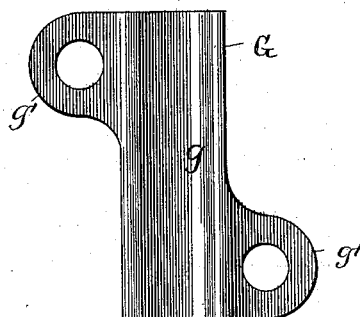
No. 385,216.

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*Fig. 3.*



*Fig. 4.*



*Witnesses:*  
*Frank Blanchard,*  
*E. L. Thurston,*

*Inventors:*  
*John Thompson, &*  
*Samuel B. Secrist,*  
*By Kiel & Dixon,*  
*Attorneys.*

# UNITED STATES PATENT OFFICE.

JOHN THOMPSON AND SAMUEL B. SECRIST, OF BELOIT, WISCONSIN; SAID SECRIST ASSIGNOR TO JOHN THOMPSON & SONS, (LIMITED,) OF SAME PLACE.

## PLOW.

SPECIFICATION forming part of Letters Patent No. 385,216, dated June 26, 1888.

Application filed September 26, 1887. Serial No. 250,656. (No model.)

*To all whom it may concern:*

Be it known that we, JOHN THOMPSON and SAMUEL B. SECRIST, of Beloit, in the county of Rock and State of Wisconsin, have invented certain new and useful Improvements in Plows, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings.

Our invention relates to sulky-plows, in which the plow is raised or lowered within the frame-work; and the object is to provide means for securing a colter to the plow-beam with its cutting-edge just over the point of the share, and so that the share may be lifted without obstruction to the simultaneous lifting of the colter.

To this end it consists in the construction and combinations of parts herein fully described, and pointed out definitely in the claims.

In the drawings, Figure 1 is a perspective view of a sulky-plow fitted with our improvements. Fig. 2 is a top view of a portion of the plow-beam and connections between it and the colter-shank. Fig. 3 is a sectional view on the line 3 3 in Fig. 2, and Fig. 4 is a detail of one of the colter-clasps.

Referring to the parts by letter, A represents the plow-beam, and B a bar connecting the two sides of the frame work, having an arch, B', near the center thereof.

C represents the plowshare, which is secured to the rear end of the plow-beam A so that its point lies substantially in the same vertical plane as the arch B'. This arch is provided with a wide vertical slot, *b*, formed by the arms *b'* *b'*. The plow-beam lies in said slot and moves up and down in it as the beam is raised and lowered.

D represents a bow-brace, made, preferably, of the form shown, which is bolted to the plow-beam at such points thereon that its middle point shall lie within the slot *b*.

E represents the colter, and *e* its shank, by which it is connected to the plow-beam. The colter-shank is secured to the beam in such a position that the cutting-edge of the colter shall be just above the plow-point, in which case the colter will be directly beneath the slot *b* in the arch. This makes the plow run much easier than when the colter is placed

farther forward, where in prior constructions it has been necessarily placed, because otherwise in lifting the plow the upward movement of the colter would be obstructed by striking against some part of the plow-frame. With the construction herein described the colter goes up in the slot *b*, which is made wide enough to permit this when the plow is raised.

The best means which we have contemplated for securing the colter-shank *e* to the plow-beam is that illustrated in the drawings, wherein the front side of the bow-brace D is provided with the holes *d d*, one near the upper edge thereof and the other to one side and near the lower edge thereof.

G G represent clasps, which are provided each with a recess, *g*, which serve as sockets for the colter-shank. These clasps are provided also with the ears *g' g'* on diagonal corners. These clasps are secured to the brace D and to each other, with the shank *e* between them, by the U-shaped rod H, which passes through the holes *d d* and through holes in the ears *g' g'* and the nuts *h*, which screw onto the end of said rod H.

When the plow is raised from the ground, the beam A moves up in the slot *b* in the arch, the brace D on the one side and the side of the beam on the other acting as guides in the slot to insure the vertical movement of the plow and beam. The upper part of the colter also enters the slot *b*, which has been widened for its reception, because its position relative to the plow would not permit it to enter a slot of the ordinary width to fit the plow-beam. The brace D is applied to the beam to act as a guide on one side of this widened slot, and, in this instance, also as a part of the instrumentalities through which the colter is attached to the beam.

The colter-shank is attached to the bow-brace instead of to the beam directly, because it permits the attachment to be made in a simple and economical manner, and because thereby the cutting-edge of the colter may be secured at the proper place above the plow-point without bending the shank *e* transversely. As an inferior construction the shank may be bolted directly to the beam A, with a

suitable block between them to hold the colter at the proper point.

The improvements herein described may be employed in connection with sulky-plows differing considerably from the precise form shown in the drawings, and changes in details may be made without departing from the spirit of the invention. We do not therefore desire to be limited further than indicated by the language of the claims.

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

1. In a sulky-plow, the combination, with a widened slotted arch in the frame-work, of a plow-beam provided with a brace fitting within said slotted arch and guided thereby, and a colter secured to said plow-beam; and with its body underneath said slotted arch,

whereby the colter can run with its cutting-edge over the plow-point and at one side of the vertical plane of the plow-beam, and can also be raised without obstruction from the frame-work, substantially as described.

2. In a sulky-plow, the combination, with a widened slotted arch in the frame-work, of a plow-beam provided with a brace fitting within said slotted arch and guided thereby, and a colter and its shank, clasps for embracing said shank, and a U-shaped rod for securing said clasps together and to the plow-brace, substantially as described.

JOHN THOMPSON.  
SAMUEL B. SECRIST.

Witnesses:

OSCAR THOMPSON,  
OLAF FLACK.