

T. E. C. BRINLY.

Improvement in Subsoil-Plows.

No. 131,391.

Patented Sep. 17, 1872.

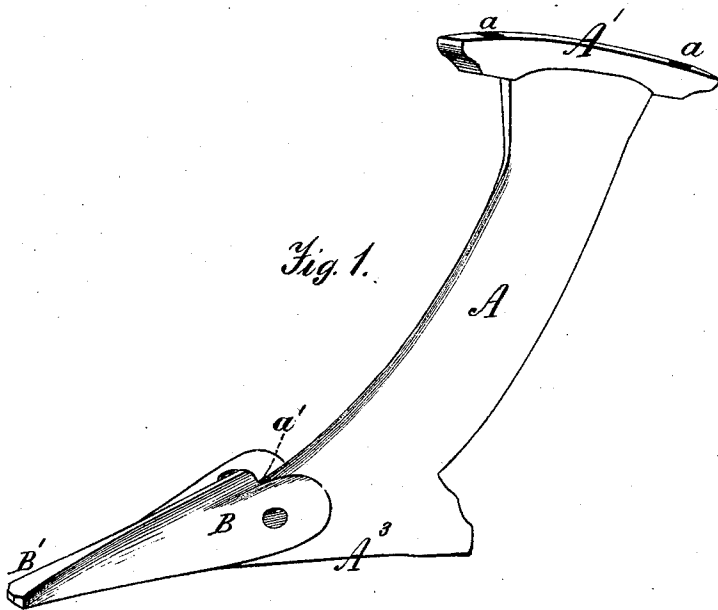


Fig. 2.

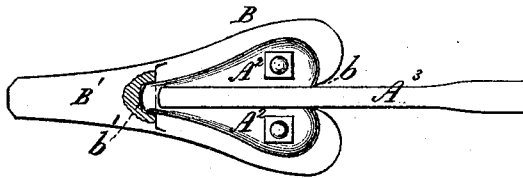


Fig. 3.

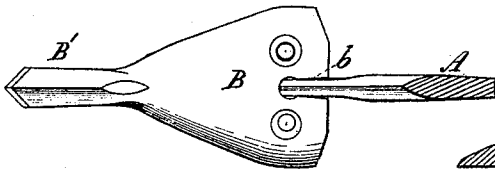
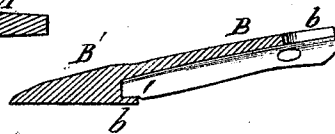


Fig. 4.



Witnesses.  
A. Ruppert.  
C. E. Gils

T. E. C. Brinly  
Inventor.  
D. P. Holloway & Co  
Attys

# UNITED STATES PATENT OFFICE.

THOMAS E. C. BRINLY, OF LOUISVILLE, KENTUCKY.

## IMPROVEMENT IN SUBSOIL-PLOWS.

Specification forming part of Letters Patent No. 131,391, dated September 17, 1872.

*To all whom it may concern:*

Be it known that I, THOMAS E. C. BRINLY, of Louisville, in the county of Jefferson and State of Kentucky, have invented a certain Improvement in Subsoil-Plows, of which the following is a specification:

This invention relates to the construction of the share and standard of a subsoil-plow, and to the manner of connecting the two together; all of which is so fully explained in the ensuing description and precisely pointed out in the claim as not to need a preliminary statement more specific than given.

Figure 1 is a perspective view representing my improved subsoil-plow. Fig. 2 is a bottom view of the same, showing a portion of the point of the share in section to bring to view the socket therein. Fig. 3 is a sectional plan view, showing a different form of a share. Fig. 4 is a longitudinal section of the share shown in Fig. 3.

The same letters of reference are employed in all the figures in the designation of identical parts.

The top of the standard A terminates in a bar, A<sup>1</sup>, which is fitted to the lower side of a plow-beam, and firmly secured thereto by bolts passing through the holes *a* in the ends of the bar, as shown in Fig. 1. The standard is made wedge-shaped in transverse section, so that it may readily pass through the ground, and allow the trench made in the earth by its passage to close again in rear of it. The pointed front edge of the standard has a uniform forward declination to a point, *a'*, where it is

turned abruptly downward, forming a nearly-vertical shoulder, with which it enters a slot, *b*, formed in the rear edge of the share B. The latter rests upon the top edge of the standard from this shoulder forward to its point, and upon lateral flanges A<sup>2</sup> A<sup>2</sup> upon either side thereof, to which it is bolted. The terminal end of the standard projects into a socket, *b'*, formed underneath the upper surface of the share in the rear end of its point B', as clearly illustrated in Figs. 2 and 4. The sole A<sup>3</sup> of the standard will be flush with the under side of the point of the share when the two are united, and the share will have a slight inclination from the point to its rear edge. The share, to properly crumble the earth, should be made with a convexity upon its upper side, either in the form shown in Fig. 1, or that indicated in Fig. 3.

What I claim as my invention, and desire to secure by Letters Patent, is—

The combination of the wedge-shaped standard A A<sup>1</sup>, having a forward declination, shoulder at *a'*, flanges A<sup>2</sup>, and sole A<sup>3</sup>, and the share B, having a slot, *b*, in its rear edge, and a socket, *b'*, in its point B', all substantially as specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

T. E. C. BRINLY.

Witnesses:

JOHN WOLPERT,  
JAMES M. WELLS.