

M. TURLEY,  
Plow.

No. 196,774.

Patented Nov. 6, 1877.

Fig. 1

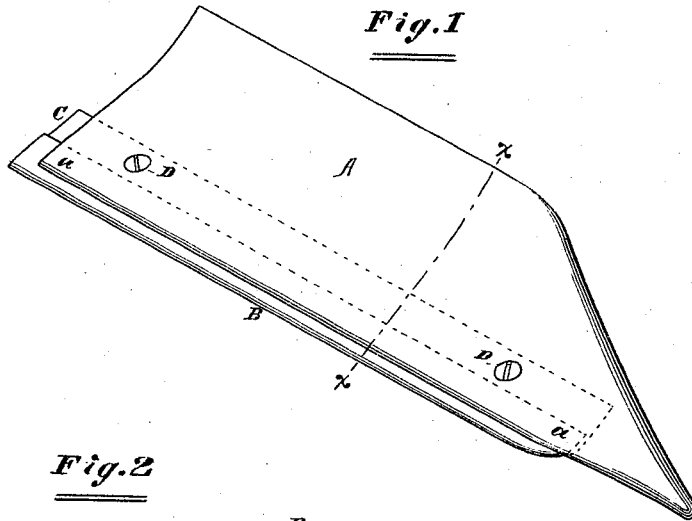


Fig. 2

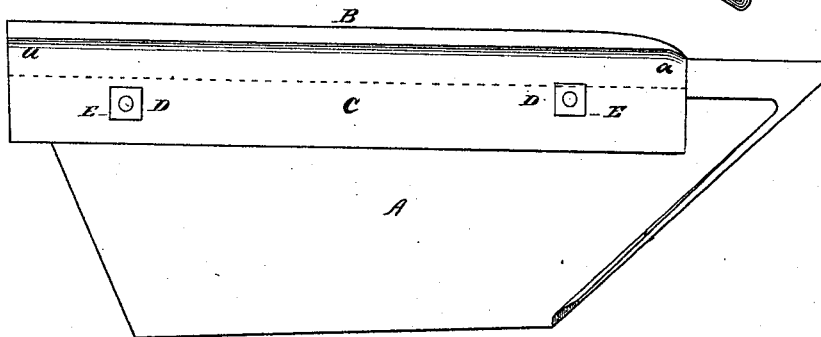
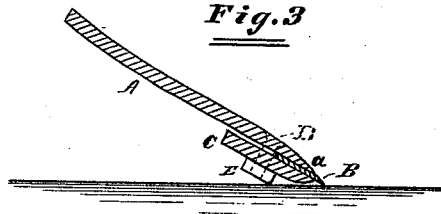


Fig. 3



Attest:

*Wm MacKellar*  
*Chas Bellows*

INVENTOR:

*Marshall Turley*

By *F. F. Warner, his*

Attorney.

# UNITED STATES PATENT OFFICE.

MARSHALL TURLEY, OF COUNCIL BLUFFS, IOWA, ASSIGNOR OF ONE-THIRD OF HIS RIGHT TO JOHN A. CHURCHILL, OF SAME PLACE.

## IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. **196,774**, dated November 6, 1877; application filed August 21, 1877.

*To all whom it may concern:*

Be it known that I, MARSHALL TURLEY, of Council Bluffs, in the county of Pottawattamie and State of Iowa, have invented a new and useful Improvement in Plows, which improvement is fully set forth in the following specification and accompanying drawings, in the latter of which—

Figure 1 is a perspective view of a plowshare to which my improvement is applied; Fig. 2, a rear view thereof, and Fig. 3 a cross-section in the plane of the line *x x*.

In the drawings, A is the plowshare, and *a a* that part which has heretofore served as the cutting-edge. B is a blade, made, by preference, of steel. This blade I arrange along the edge *a a*, the blade extending a little way beyond the said edge, as represented in the drawing. The blade B is removable, and may be rendered so in any suitable manner. A simple and effectual way of applying it to the share, so that it may be applied and removed therefrom with facility, is to clamp it thereto by means of the bar C, the bolts D D, and the nuts E E, all arranged substantially as shown with relation to each other, the share, and the blade B.

It will be perceived that the blade B may be readily removed for the purpose of being sharpened, and then replaced with facility. In this manner frequent removals of the share A will be unnecessary, and it will be much more lasting than heretofore.

The blade B is cheap and simple in construction. It is also durable and capable of bearing a very sharp edge. It may, in practice, be made so thin that it will only be necessary to move it laterally to compensate for wear, thereby causing it to present an edge sufficiently sharp for the purpose for which it is intended, and obviating the necessity of sharpening it.

The necessity of sharpening the cutting-edge of plows from time to time has led to the custom of making this part of the plow in a separate piece to facilitate the process of sharpening; in other words, the share has, for this purpose, as I am aware, been made separately from the mold-board, and I do not, therefore, here intend to claim that feature of construction. Neither do I intend to claim, broadly, a removable cutting-edge on the plowshare.

My cutting-blade B may be applied either to plows wherein the mold-board and share are made in one continuous piece, or separately.

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

The combination of the blade B, bar or clamp C, bolts D D, nuts E E, and share A, all substantially as and for the purposes specified.

MARSHALL TURLEY.

Witnesses:

F. F. WARNER,

JOHN A. CHURCHILL.