

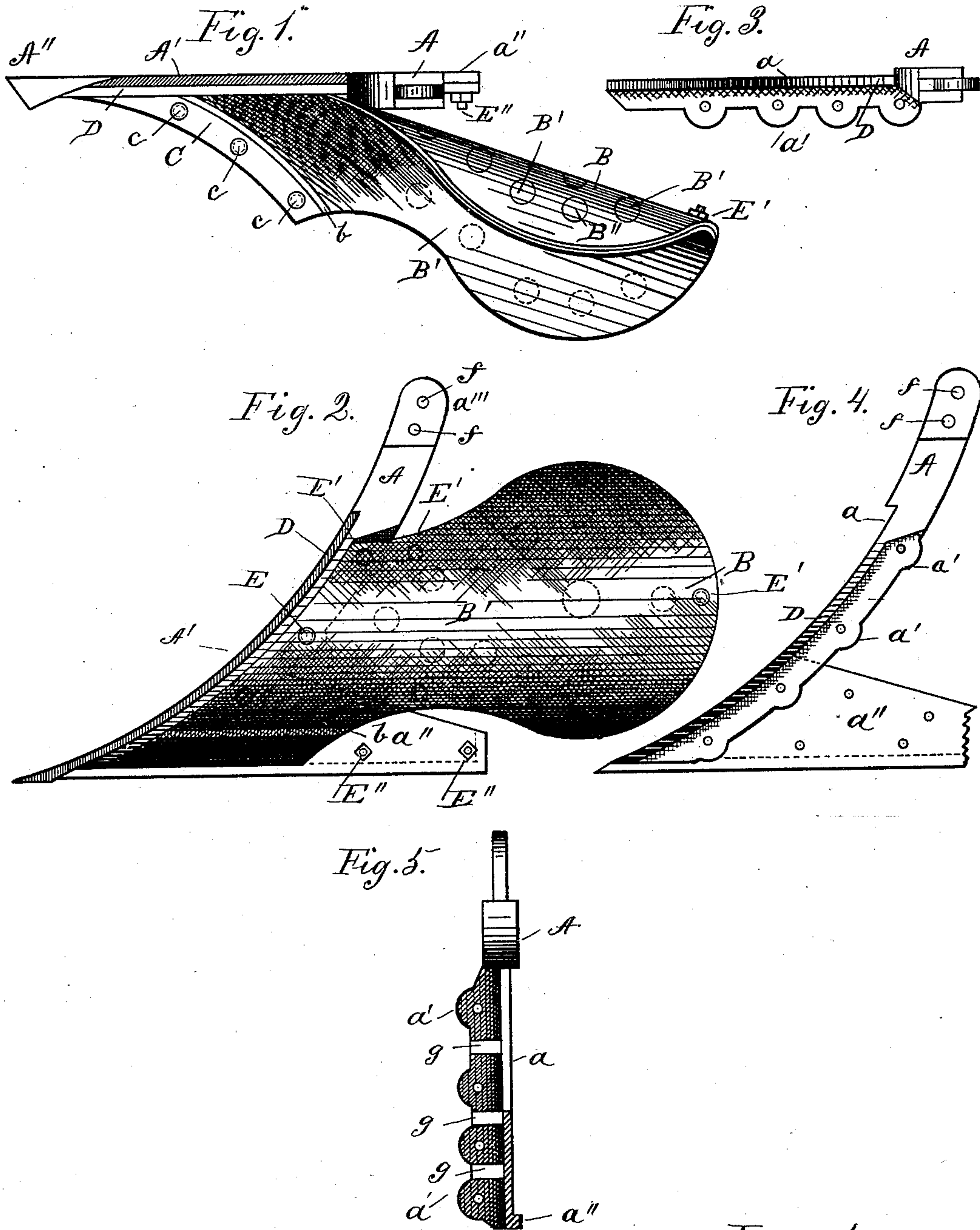
(No Model.)

A. K. WALLA.

PLOW.

No. 308,813.

Patented Dec. 2, 1884.



Witnesses.
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UNITED STATES PATENT OFFICE.

ANTON KAREL WALLA, OF NORTH BEND, NEBRASKA.

PLOW.

SPECIFICATION forming part of Letters Patent No. 308,813, dated December 2, 1884.

Application filed March 28, 1884. (No model.)

To all whom it may concern:

Be it known that I, ANTON K. WALLA, a citizen of the United States, residing at North Bend, in the county of Dodge and State of Nebraska, have invented certain new and useful Improvements in Plows; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to plows; and it consists in the improved construction hereinafter set forth and claimed.

Figure 1 is a plan. Fig. 2 is a side elevation. Fig. 3 is a view of one of the parts detached. Fig. 4 is a side elevation of the same, partly in section. Fig. 5 is a rear elevation of the same, partly in section.

A represents the stock or draft-post, having curved lateral projection *a'*, provided with a series of bolt-holes for a purpose hereinafter set forth, and also with a recessed rear extension, *a''*, or landside-plate made integral with the stock, the same being provided with bolt-holes for securing the glass finishing-piece to the outside thereof. The curved lateral projection *a'* of the stock A is braced by ribs *g*, also made integral with the stock, which has a rear recess, as shown in Fig. 5.

B is a metal plate curved in the form of a mold-board, and provided with a number of bolts near the outer edge thereof, and also with a series of bolt-holes corresponding to those in the lateral projection of the stock, and also with a series of larger holes through the body thereof, which are to be beveled from the glass side, for a purpose hereinafter set forth.

B' is a glass plate or piece made in the form of a mold-board, and to correspond in shape to the plate B, and also provided with a series of projections inwardly, or shoulders to fit in the large holes in the body of the plate B, and be thereby held in position against the friction of the draft. The glass piece B' is also provided with a series of bolt-holes corresponding to those in the stock projection *a'*, and to those in the metal piece B, the same being countersunk for the reception of screw-headed bolts, by means of which it is secured to the plate B, as shown at E', Figs. 1, 2, and to the stock projection *a'* by the

bolts E, as shown in Fig. 2. The stock A is provided with a rib, D, which makes an even surface-finish with the mold-board B'. The plate B is provided with a rib, *b*, which makes an even surface-finish with the mold-board, and protects its front edge from contact with the ground or other objects. The plate B is extended forward of the rib *b* sufficiently for the attachment and support of the cutting-plate C, which is secured thereto by countersunk screw-headed bolts *c*, and forms an even surface-finish with the rib *b* and mold-board B'.

A' is a steel plate having a flared point, A'', and beveled to a sharp cutting-edge at the front, and secured to the side of the stock A by countersunk screw-headed bolts, and makes an even surface-finish with the glass landside, which is bolted to the landside-plate *a''*, as shown at E'', Figs. 1 and 2. The rear end of the landside is provided with a flange, which, with the bolt E'', holds the glass piece securely against the friction of the draft. The front edge of the landside-glass is protected by the steel cutting-plate A'.

The plow draft-beam and handles may be attached in the ordinary way.

No particular form of plow is necessary, but the improvement is applicable to and intended for all kinds of plows, the acute curves in the drawings being used principally for illustrating the construction suitable for use in this connection.

I am aware that previous to my invention it has been proposed to face mold-boards with glass, and hence I do not desire to be understood as making any broad claim thereto.

Having explained the features and operation of my improvement, what I claim as new, and desire to secure by Letters Patent, is—

The combination, in a plow, of the stock, the plates *a''* and B, secured thereto as described, the glass plates secured to face the plates *a''* B, and abutting against bearing-ribs formed on the stock, and on plates *a''* B, and steel cutting-plate C, substantially as set forth.

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

ANTON KAREL WALLA.

Witnesses:

J. P. SCOTT,

J. H. MATEJKA.