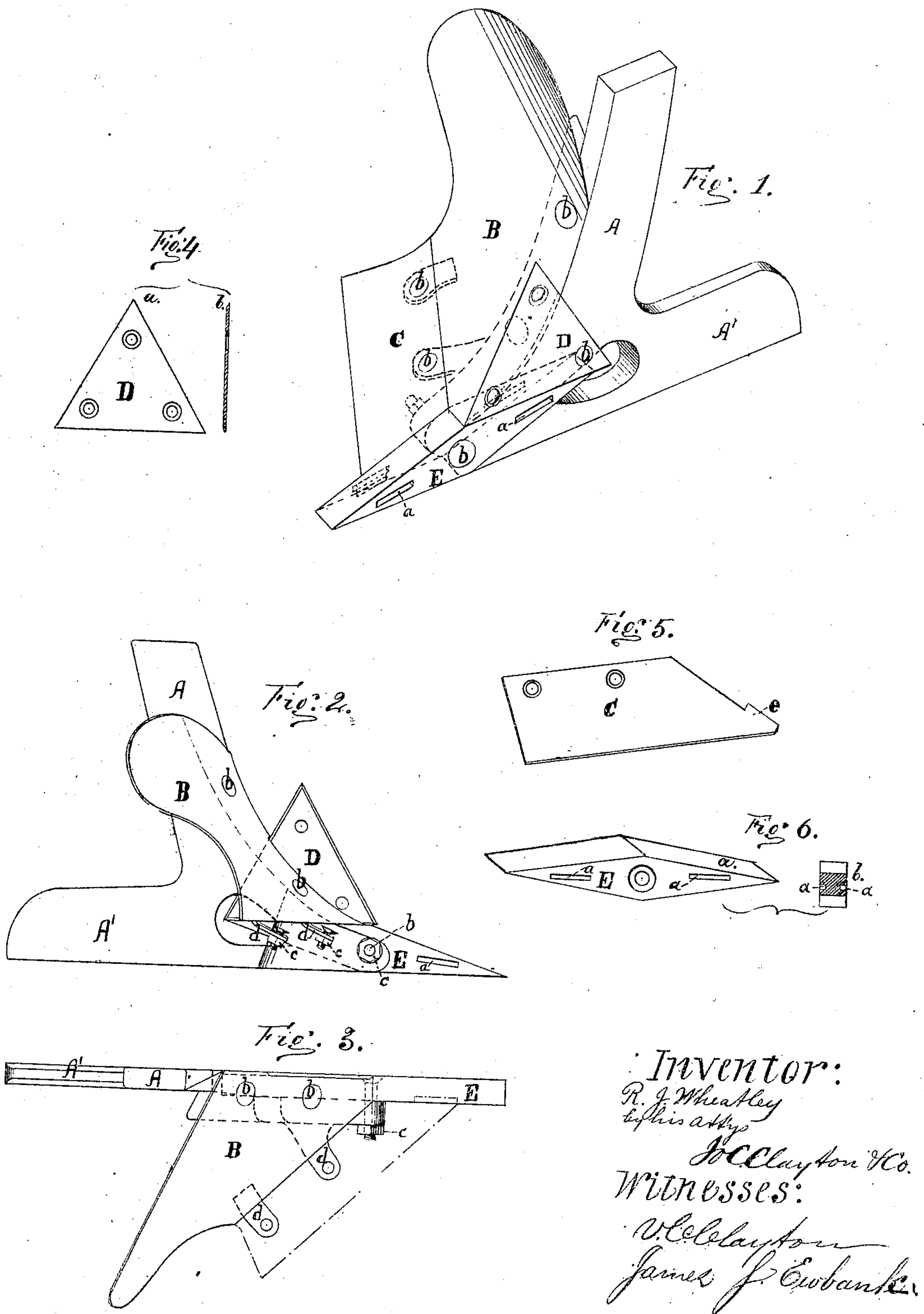


R. J. WHEATLEY.

Plow.

No. 100,957.

Patented March 15, 1870.



Inventor:
R. J. Wheatley
by his attys
McClellan & Co.
Witnesses:
McClellan
James F. Eubank

UNITED STATES PATENT OFFICE.

ROBERT J. WHEATLEY, OF DUQUOIN, ILLINOIS.

IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. 100,957, dated March 15, 1870.

To all whom it may concern:

Be it known that I, R. J. WHEATLEY, of Duquoin, in the county of Perry, and in the State of Illinois, have invented certain new and useful Improvements in Plows; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, in which—

Figure 1 is a perspective view of the invention. Fig. 2 is a side elevation with the share detached. Fig. 3 is a plan view. Fig. 4 is a section of the triangular and reversible cutter or colter. Fig. 5 shows the share in section. Fig. 6, *a*, shows the double adjustable and reversible point; *b*, a section showing the depth of the slots in said point to receive the tenon end of the share.

The nature of my invention consists in forming a complete plow with the reversible parts hereinafter named reversible and adjustable, as will be hereinafter more fully set forth.

To enable others skilled in the art to make and use my invention, I will describe its construction and operation.

In the construction of my invention, in Fig. 1, *A A'* are the standard and bar, which are made of one piece, and are cast in shape to fit the mold-board, or the whole three parts—viz., the standard, mold-board, and bar—may all be cast together and the adjustable parts fitted to the same. At the front end of the bar there is formed a slot, to admit the reversible point, and on the landside the bar and mold-board are cut away to admit the cutter, so as to make it flush with them on the landside; *B*, the mold-board; *C*, the share; *D*, the reversible cutter; *E*, the point, reversible and adjustable; *a a*, slots to insert the tenon of the share; *b b b b*, bolts for adjusting and securing the parts together by screw-nuts, as shown at *c c c* in Fig. 2. The dotted lines in said figure indicate the side brace of the standard, to which the mold-board is attached when cast separately; also, the lugs on the under side of the mold-board, to which the share is attached by bolts and screw-nuts.

In Fig 2 is shown *B*, the mold-board; *D*, the reversible cutter; *E*, the reversible point, with slot *a* to receive the tenon; *A A'*, the standard and bar; *b b b*, bolts, with nuts *c*, for secur-

ing them in their purpose of fastening the share and point.

In Fig. 3 like parts are designated by same letters as in Figs. 1 and 2. In this figure the lugs *d d* are shown, to which the share is attached, and the dotted line within the bar indicates the end or tenon of the share in its place in the point *E*.

Fig. 4, *a* is the reversible cutter *D*, which has three cutting-sides, of equal length, and can be adjusted at pleasure, so as to present either of the edges as a cutting-edge when one of the edges is worn away.

b is an edge view of the cutter *D*, of triangular shape.

Fig. 5 is a view of the share *C*, with holes, through which bolts *b b* pass to secure it to the lugs on mold-board; *e*, the tenon which is let into the slot *a* in the reversible point *E*; Fig. 6, the reversible point *E*, with hole for bolt to pass through for attaching the same to the bar *A*; *a a*, slots to receive the tenon *e* of the share.

Detail *b* indicates the depth of slots *a a* in point *E*, showing that they do not pass through the same. This point is made in the shape of a double wedge, with their bases joined together in the center where the hole is formed to admit the bolt, and when in place forms, by one of its faces, a part of the bar or landside, and a base, on which rests the lower edge of the triangular cutter. The beam and handles, as usual in plows, are attached to the standard, bar, and mold-board in the usual manner of attachment.

It will be seen from the construction of the parts, as described, that the cutter has three equal cutting sides, each of which can be adjusted so as to become the colter or the cutting-edge, as it has in it three holes; to admit of such adjustment. The point *E* has also the construction of adjustability. From its center outward each end is alike, and is of equal size and dimensions, so that either end fits into the slot in the bar. This point is capable of four changes: First, the two ends are reversible; and, second, the top may become the bottom of each end, just as the wear of the point indicates the needed change. The share with its tenon *e* fits into the slot in the point, and is secured by bolts through the lugs on the mold-board, as seen in Fig. 2. The share,

when cast separately, is attached to the standard by bolts passing through the standard and mold-board. When the parts are thus arranged, a complete plow is made and ready for use.

In the manufacture of my invention those parts will all be made to fit accurately in each class of plows, and the farmer can himself adjust all the parts or insert a new point, colter, or share without the necessity of going to a shop to have it done. Thus I form a complete plow, convenient and light, and easily repaired or adjusted as required. I am aware that adjustable points and cutters have been used in plows; therefore I do not broadly claim either as my invention.

Having thus described my invention, what

I claim as new, and desire to secure by Letters Patent, is—

The combination of the bar and standard A, the adjustable double-wedge-shaped and slotted point E, the triangular adjustable cutter D, the mold-board B, and share C, with tenon e, the parts constructed as described, and arranged as and for the purposes set forth.

In testimony that I claim the above-described certain new and useful improvements in plows, I have hereunto signed my name this 28th day of December, 1869.

R. J. WHEATLEY.

Witnesses:

R. A. WHEATLEY,
I. M. NEELY.