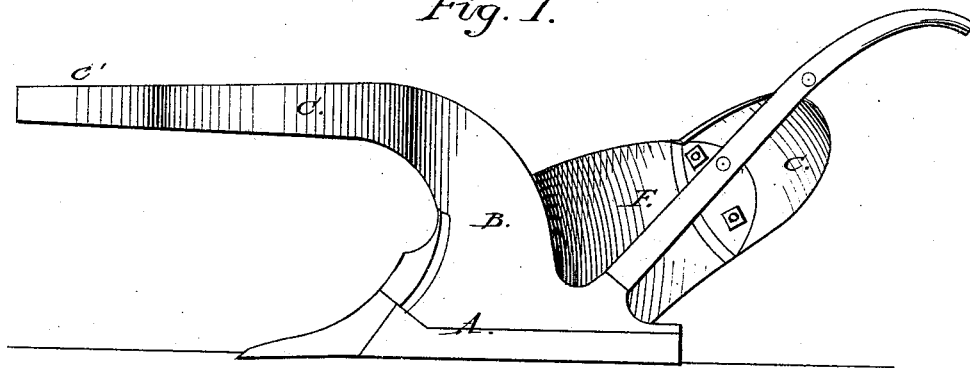


E. O. BEACH.  
Plow.

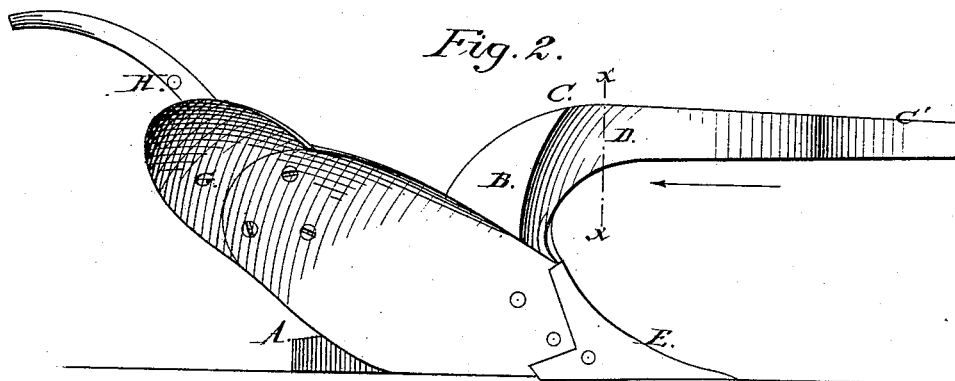
**No. 215,715.**

Patented May 27, 1879.

*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



# UNITED STATES PATENT OFFICE.

ERASTUS O. BEACH, OF NORTH DANSVILLE, NEW YORK.

## IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. **215,715**, dated May 27, 1879; application filed March 20, 1879.

*To all whom it may concern:*

Be it known that I, ERASTUS O. BEACH, of North Dansville, in the county of Livingston and State of New York, have invented certain new and useful Improvements in Plows; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

My invention is an improvement in plows.

It consists, first, in a standard formed of metal or other suitable material, which rises from the land-side of a plow with a broad curved base, which is continued and extended into a beam curved out of its direct line, and splayed on the inside outwardly toward the land, said curvature and splay of beam forming a clear space above the plowshare to allow of the escape of fibrous accumulations that gather in front when the plow is at work.

In my drawings, Figure 1 is a side elevation of the plow as seen from the land side. Fig. 2 is an elevation of the same as seen from the mold-board side. Fig. 3 is a plan view of same. Fig. 4 is a vertical section of the beam on line *x x'* of Fig. 2.

Similar reference-letters indicate like parts in all of the figures.

Referring to the drawings, A is the land-side of the plow, which forms the base of the standard B. C is the plow-beam, formed with and in continuation of the curved standard B. The beam C has a curvature, D, near the standard portion, and immediately over the plowshare and colter, and at this curvature said beam is splayed downward and inward toward the land at an angle of about ten degrees from a vertical line, as seen in Fig. 4 of the drawings.

The end of the beam C' returns beyond the curvature D to form a true line with the general direction of the plow-beam C.

In turning up lands it is frequently the case that the plow encounters fibrous matter, such

as straw, corn-stalks, or grass matted together, which is pushed forward and formed into a mass, which becomes wedged in between the turning furrow and the plow-beam, retarding the movement so much as to render it necessary to stop the work and push it away. The curvature and splay in my plow-beam are intended to obviate this difficulty by allowing the matted mass to escape by its natural upward movement and pass from the beam.

E is the plowshare; F, the mold-board, curved in the usual way, with a warped surface to throw off the furrow. G is a piece of metal attached to the mold-board by bolts, (the nuts of which are on the inside,) and fitted with a rabbet-joint, which follows the rear outline of the said mold-board at its edge. This piece or extension G of the mold-board is braced against the handle H of the plow by a bar or bolt, I, which is screw-threaded to receive nuts *a b*, which clamp said brace to the said extension G and handle H. The plow-handles are fixed to the land-side and mold-board with bolts and nuts in the usual manner.

I am aware of the Patent No. 207,497, in which is shown a metal casting or piece connecting two sections of a plow-beam, which is bent out of the line of direction of said beam to form a space above the plow for grass and other accumulations to escape through; and to this construction I make no claim.

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

The beam C, curved laterally and splayed outwardly from its top downward in the direction of the land, and returning in a line forming the true direction of the plow, as and for the purpose set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

ERASTUS O. BEACH.

Witnesses:

EDW. W. DONN,  
J. N. KALB.