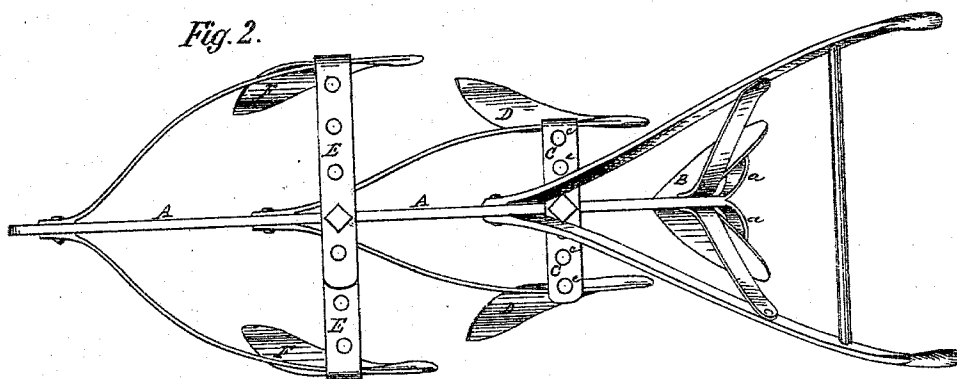
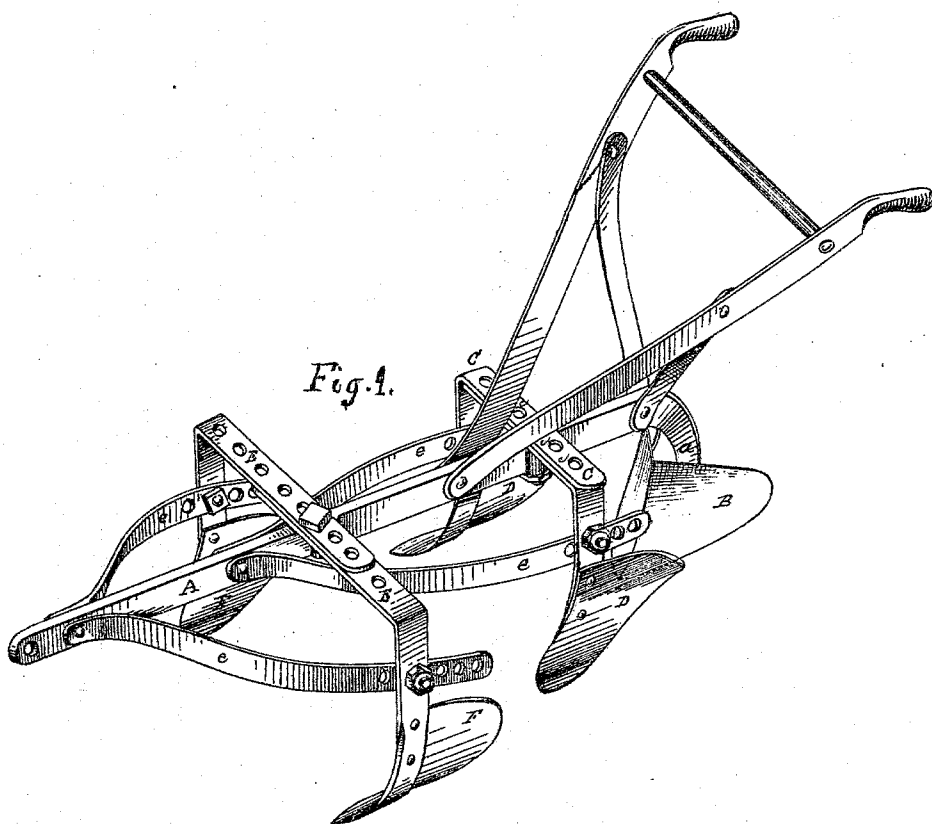


Beard & Evans,
Cultivator.

No. 113,960,

Patented Apr. 18, 1871.



Witnesses:

Fred. Arbores-

J. C. Evans

Inventors:

C. A. Beard & Ezra E. Evans

by their Attorneys

A. H. & R. R. Evans.

UNITED STATES PATENT OFFICE.

CHARLES A. BEARD AND EZRA E. EVANS, OF ZANESVILLE, OHIO.

IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. 113,960, dated April 18, 1871.

To all whom it may concern:

Be it known that we, CHARLES A. BEARD and EZRA E. EVANS, of Zanesville, Muskingum county, and State of Ohio, have invented a new and useful Improvement in Plows, of which the following is a clear, full, and exact description, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a perspective view of the plow. Fig. 2 is a plan or top view.

Our invention relates more particularly to the class of plows used in the cultivation of corn; and it consists in so multiplying and distributing the mold-boards and securing their adjustability that the surface between two rows of corn or other vegetable matter can be thoroughly plowed by passing over it but once, thus securing a great saving in time and labor.

In order that others skilled in the art may understand and use our invention, we will proceed to describe the manner in which we have carried it out.

In the annexed drawings, A represents an iron beam with a downward curve at its rear end, where it is bifurcated or split, and to the forked shank *a a* is secured by proper bolts the double mold-board B or shovel-plow, of any desired size. Through the iron beam A, and at a proper distance in advance of the top of the curve, is a vertical hole, to admit a bolt which secures to the beam the arms C C. These arms are placed on the beam with their flat sides down, and they are perforated with the adjusting-holes *c c*, and are placed the one on the top of the other to be fastened to the beam, the bolt passing through each and then through the beam, where it is properly secured with a nut. The arms C C extend horizontally and at right angles to the beam A a proper distance, and then turn down, each one forming an elbow and shank, to which are attached the mold-boards D D, with or without a share, as may be required, and so arranged that they will throw the earth outward or toward the two rows between which the plow is being worked. Through the beam A, and at a proper distance in advance of the arms C C, is another vertical hole, at which are secured another similar pair of arms, E E, and another pair of mold-boards, F F. The arms E E ex-

tend farther on each side of the beam A than those in the rear. The mold-boards F F are so arranged that they will turn the earth toward each other or away from the rows; or they may be reversed and made to turn the earth toward the rows. These horizontal arms are secured by the braces *e e e e*, fastened at one end in front of the arms by bolts passing horizontally through the beam A, and allowing the braces a little play at these points; and at the opposite ends these braces are perforated with adjusting-holes, through which the bolts pass to secure them to the shanks at a proper distance below the elbows to afford the necessary strength and support to the shanks.

It is evident from this description of our improved plow that while we have a sufficient number of mold-boards attached to do all the required work by once passing over the ground, we have secured an adjustability which will enable a person using our plow to accommodate it to any width of row by simply lengthening or shortening the horizontal arms and adjusting the side braces. By the arrangement of our mold-boards the front pair turns the earth from the young corn, while the rear ones throw it back toward, but not on the corn, thus saving the usual expense of an extra hand to uncover it. When the corn is of sufficient size to require the earth to be thrown around it, the front and rear mold-boards may be reversed to accomplish the desired end. The rear arms may be left off and the plow be readily used as a three-shoveled plow, the mold-boards throwing the earth to or from the rows, as may be desired. By removing the front arms and substituting the rear ones, a plow is formed for plowing between very narrow rows.

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

A plow consisting of the beam A, arms C C and E E, braces *e e e e*, and mold-boards B, D, and F, all constructed and arranged substantially as and for the purpose set forth.

CHARLES A. BEARD.
E. E. EVANS.

Witnesses:

M. S. SOUTHERD,
ALBERT ALLEN.