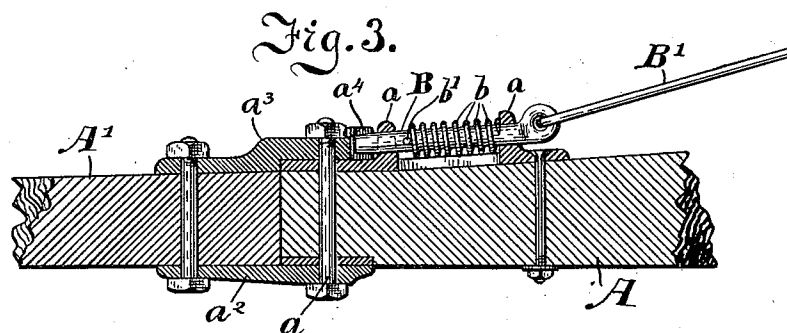
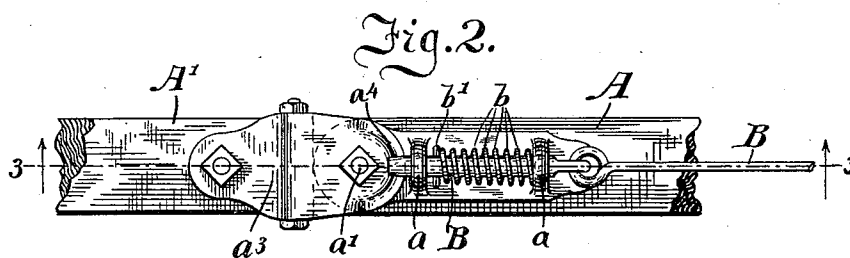
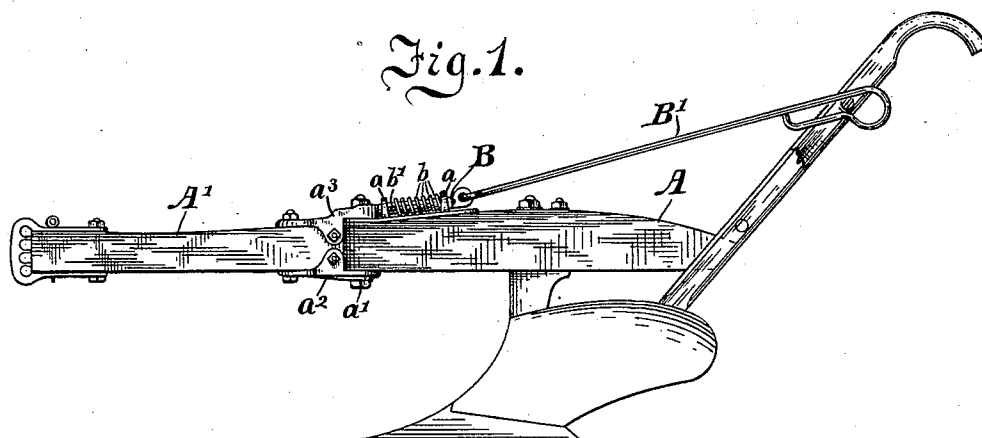


(No Model.)

A. ELLIS.
PLOW.

No. 464,095.

Patented Dec. 1, 1891.



WITNESSES.

Cha. N. Leonard.
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UNITED STATES PATENT OFFICE.

AUGUSTIN ELLIS, OF BEDFORD, INDIANA.

PLOW.

SPECIFICATION forming part of Letters Patent No. 464,095, dated December 1, 1891.

Application filed February 28, 1891. Serial No. 383,159. (No model.)

To all whom it may concern:

Be it known that I, AUGUSTIN ELLIS, a citizen of the United States, residing at Bedford, in the county of Lawrence and State of Indiana, have invented certain new and useful Improvements in Plows, of which the following is a specification.

Heretofore considerable difficulty has been experienced in plowing around the corners of "lands" to properly turn said corners by reason of the plow being twisted out of position in the turning of the team, necessitating that the plow be moved by hand and placed in proper position before the team is allowed to start forward after being turned. A leading cause of this difficulty has been that the point of the plow-beam to which the team is attached is so far in advance of the point of the plow that when the team is turning the pull has been in a direction to twist the plow over out of the ground instead of turning it in an upright position.

The object of my said invention is to provide a plow which will overcome these difficulties. I accomplish the object by forming a hinge in the plow-beam at a point substantially above the point of the plow, whereby when the team is swung around that portion of the beam in front of the point of the plow is also permitted to swing, and any pull on the plow is exerted at a point substantially above its point, which operates to turn said plow in the ground instead of twisting it out, all as will be hereinafter more particularly described and claimed.

Referring to the accompanying drawings, which are made a part hereof and on which similar letters of reference indicate similar parts, Figure 1 is a view in elevation of a plow constructed in accordance with my said invention; Fig. 2, a top or plan view of that portion of the beam the construction of which constitutes the leading feature of said invention, and Fig. 3 a central vertical section through the same on the dotted line 3 3.

In said drawings the portions marked A represent the rear part of the plow-beam and the plow portions secured thereto; A', the swinging portion of the plow-beam, and B a spring latch or pawl for holding said swinging portion rigid when in line with the rear portion of the beam.

In general construction the plow is not dissimilar from many in common use, and, except in the feature of the hinge, is or may be of any construction desired.

The forward end of the portion A of the beam is preferably rounded, as shown, and its top and lower sides are faced with metal, (except when formed wholly of metal,) the upper metal plate being provided with lugs *a*, with central perforations in line with each other, in which the spring latch or pawl is mounted, as will be presently described.

The forward portion A' of the plow-beam is of the usual form, provided with the clevis for attaching the doubletrees, and is joined to the portion A by a pivot or hinge-bolt *a'*, which passes through a perforation in the forward end of said part A and perforations in the metal plates *a*² and *a*³, secured to the lower and upper sides of the portion A', respectively, and projecting beyond its end to embrace the forward end of said part A, as shown. In the rear edge of the top plate *a*³ is formed a notch *a*⁴, with which the forward end of the spring-pawl B engages.

The pawl B consists of a plain bar or bolt mounted to slide in the perforations in the lugs *a* on the portion A of the beam, a spring *b* being interposed between the rear lug and the pin *b'*, projecting through said pawl, by which it is normally forced forward into the notch *a*⁴ of the plate *a*³. A rod or cord B' is attached to the rear end of said pawl and extends back to a position within convenient reach of the operator, as shown, whereby said pawl may be disengaged from the notch in the plate *a*³ when desired.

The particular construction shown contemplates a wooden beam; but, as will be readily seen, it may be cast of metal, if desired, and the several metal parts necessary all cast in piece therewith.

The operation of my said invention is as follows: When the corner of the land is reached, the plowman stops the team at the desired point and through the connection B' disengages the pawl B from the plate *a*³, which leaves the forward part of the beam A' free to swing. The team then being swung around, said forward part is permitted to swing with them, and the pull upon the plow-beam is exerted from a point substantially above the

point of the plow, which operates to swing
said plow squarely around and turn a neat
square corner with but little care and trouble
on the part of the operator. The team being
5 started forward, the two portions of the beam
again come in line and the latch or pawl B
automatically engages with the notch in the
plate *a*³, locking the two parts in line with
each other and securing the advantages of
10 the long beam until it is again desired to
turn, when the operation above described is
repeated.

Having thus fully described my said inven-
tion, what I claim as new, and desire to secure
15 by Letters Patent, is--

A plow having a beam formed in two parts
A and A', the part A' being hinged to the
main part A by means of a vertical pivot-bolt
passing through a perforation in one and pro-
jecting parts formed with or secured to the 20
other, and a spring-latch and lever adapted
to lock said two parts in line with each other
when desired, substantially as set forth.

In witness whereof I have hereunto set my
hand and seal, at Bedford, Indiana, this 23d 25
day of February, A. D. 1891.

AUGUSTIN ELLIS. [L. S.]

Witnesses:

FRED. T. DUNIHUE,
HENRY HOARD.