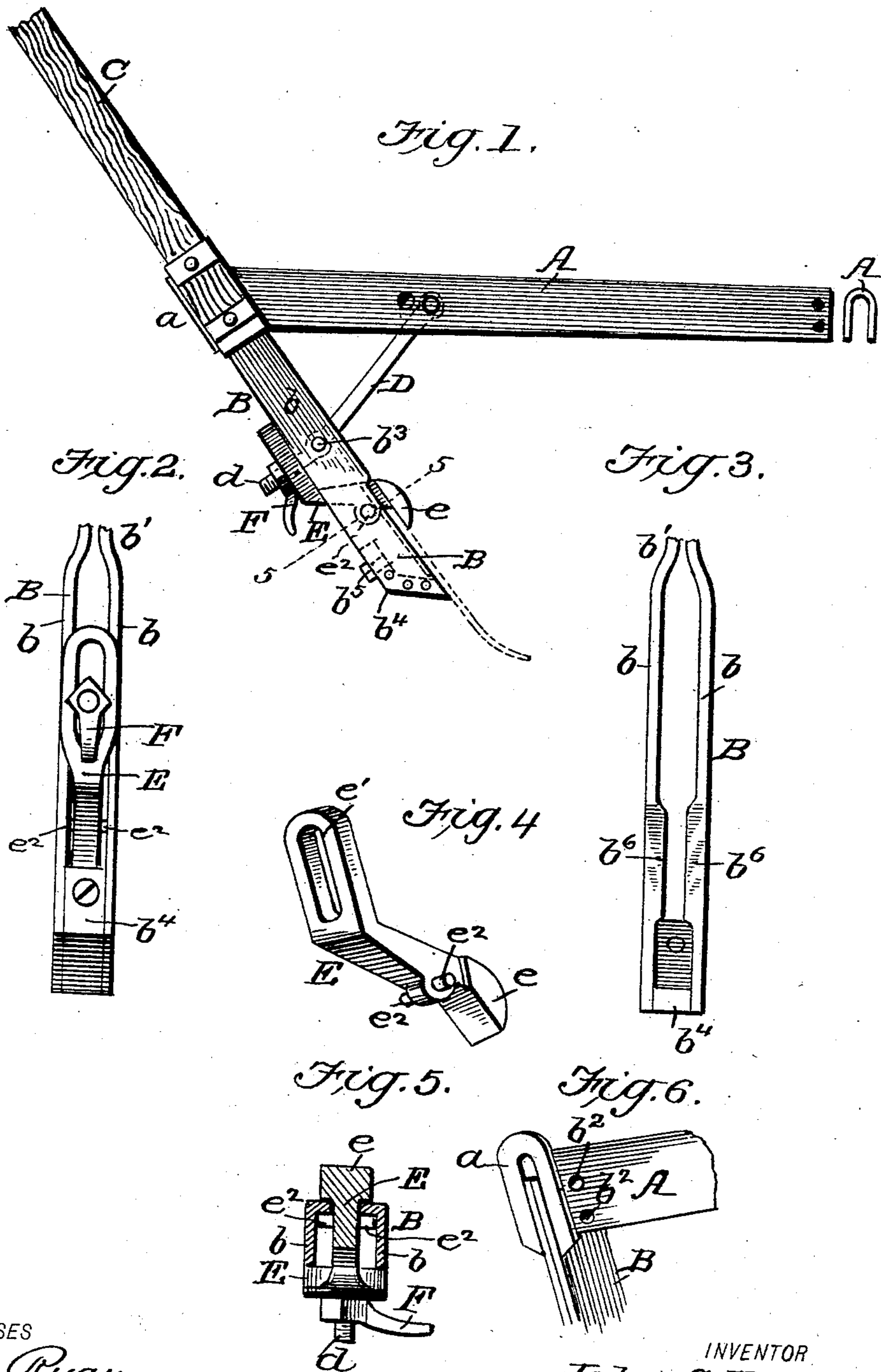


No. 824,633.

PATENTED JUNE 26, 1906.

J. G. EVANS.
PLOW FRAME AND ATTACHMENT.
APPLICATION FILED MAR 28, 1906.



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JOHN GRIFFIN EVANS, OF CALHOUN, SOUTH CAROLINA.

PLOW-FRAME AND ATTACHMENT.

No. 824,633.

Specification of Letters Patent.

Patented June 26, 1906.

Application filed March 28, 1906. Serial No. 308,458.

To all whom it may concern:

Be it known that I, JOHN GRIFFIN EVANS, a citizen of the United States, and a resident of Calhoun, in the county of Pickens and State of South Carolina, have invented an Improvement in Plow-Frames and Attachments, of which the following is a specification.

The object of my invention is to provide a cheap, but light, strong, and durable, form of plow-frame, the same including the beam and foot or stock proper, the latter having an attachment adapted for securing different forms and sizes of plow or cultivator shares or teeth whereby the latter may be easily changed as occasion requires.

The details of construction, arrangement, and combination of parts are as hereinafter described and shown in the accompanying drawings, in which—

Figure 1 is a side view of my improved plow-frame with attachment. Fig. 2 is a rear view of the stock or foot. Fig. 3 is a front view of the same. Fig. 4 is a perspective view of the lever for clamping the shares or points to the foot or stock proper. Fig. 5 is an enlarged cross-section on the line 5 5 of Fig. 1. Fig. 6 is a perspective view illustrating the construction of the rear end of the plow-beam.

A indicates the beam, which is constructed of plate metal bent at its longitudinal middle, so that in cross-section it presents the inverted-U form indicated at the right of Fig. 1 and also in Fig. 6, where the rear end of the beam is shown provided with a lateral flange *a*. The plow-stock B is formed of two side bars or plates *b*, whose upper ends *b'* converge and lie flat together, the same being secured by rivets in the plow-beam A. The handles C are also secured by the same rivet and by another rivet *b³*, which passes above the ends *b'* of the plow-stock. It will be seen that the flange *a* of the beam A serves as a brace or support for the handles C. A brace D connects the beam A and the stock B, the same being arranged diagonally and lying between the flanges of the beam and the plates *b* of the foot, to which it is riveted at *b³*. (See Fig. 1.) Its lower end is prolonged beyond the foot and is also screw-threaded to adapt it for application of a hand-nut F. A metal block *b⁴*, having an obtuse-angle form, is riveted between the lower ends of the side bars of the foot B, and a screw *b⁵* is applied to

the rear side of said block to serve as a means for securing a heel-plate when required.

The means for securing plow points, shares, or teeth to the foot B are as follows: An obtuse-angle frame E is provided with an enlarged head *e* and its opposite end with a slot *e'*, while close to the said head pins *e²* project laterally, as shown in Fig. 4. These pins are preferably formed by means of a steel rod inserted through a transverse bore in the lever. The lower portions of the bars or plates *b* of the foot B are provided with inwardly-projecting portions or flanges *b⁶*. (See Figs. 3 and 4.) The shank of the lever E or that portion adjacent to the head *e* and pins *e²* is sufficiently narrower than the slot or flanges *b⁶* to enable it to work or slide freely between the latter. The clamping-lever E is shown in due position in Figs. 1, 2, 5, in which the head *e* is illustrated as projecting over a plow share or shovel, (indicated by dotted lines.) The share may have a longitudinal slot in its upper portion to receive the reduced portion or shank of the lever, as will be readily understood. The threaded end *d* of the brace D passes through the slot *e'* of the lever E, and the pins *e²* abut or bear against the under side of the flanges *b⁶* of the foot, and the nut F being screwed down on the lever it is obvious that the plow share or shovel will be clamped with the required force. It is apparent that in this operation the pins *e²* constitute fulcrum points of the lever, their bearing-points being the foot-flanges *b⁶*. It will be further seen that by provision of the slot *e'* the clamping-lever E may be adjusted upward or downward according to the length of the share or the distance at which it is desired it shall project below the foot B. It is obvious that this adjustment is only limited by the length of the slot *e'* and that of the foot-flanges *b⁶*. By this construction and combination of parts I provide a light, strong, and durable frame and an effective and easily-operated means for clamping different shares or shovels to the foot.

What I claim is—

1. The combination, with a plow beam and stock proper having a longitudinal slot and inwardly-projecting flanges, of a means for clamping plow points or shares, the same consisting of an obtuse-angle lever having a head for engaging the shares, lateral fulcrum-pins that bear against the said flanges, and a slotted shank, a brace connecting the beam

and stock and extended beyond the latter, and a nut applied to the projecting portion which is suitably threaded, substantially as described.

5 2. The combination, with a plow-stock proper having inwardly-projecting flanges, of a share-clamping lever having lateral projec-
tions near its head and its upper end or shank provided with an opening, a screw-threaded
10 rod projecting rearward from the stock, and a nut applied thereto for clamping the lever, as shown and described.

3. The combination, with a plow-stock proper formed of side bars which are spaced
15 apart and provided with inward projections near the lower end, of a share-clamping lever having an obtuse angle and provided with lateral projections adapted to engage the said flanges and slide in contact therewith,

the upper end of the lever having a length- 20
wise slot, a threaded projection on the stock which passes through said slot, and a hand-nut applied thereto, substantially as de-
scribed.

4. The improved plow-frame comprising a 25
plate-metal beam having in cross-section the form of an inverted U, a plow foot or stock proper formed of bars whose upper ends lie between the flanges or side portions of the
beam, a transverse fastening connecting the 30
parts, and a diagonal brace whose ends lie between the flanges of the beam and the bars of the stock and are secured thereto, substantially as described.

JOHN GRIFFIN EVANS.

Witnesses:

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