

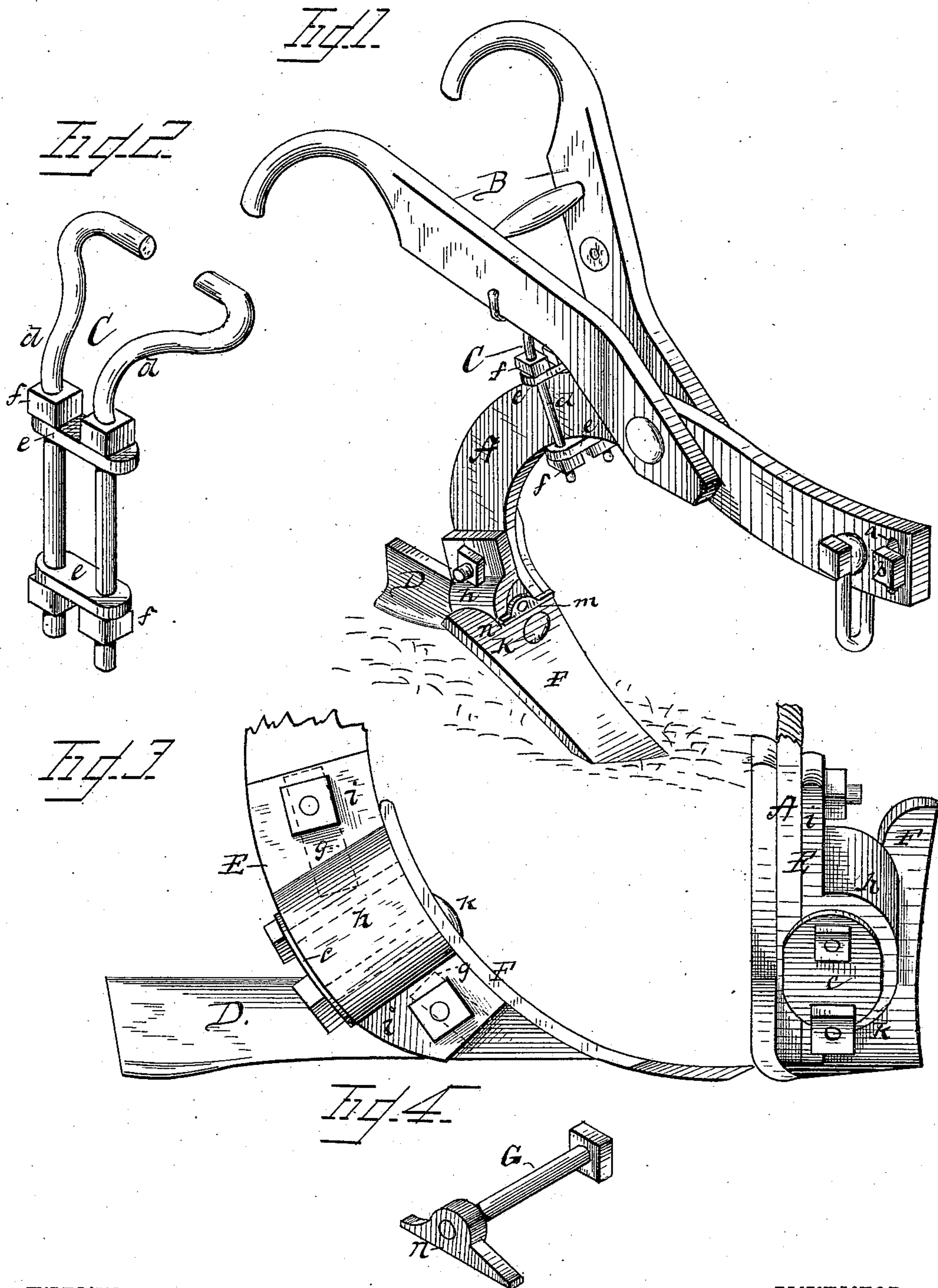
(No Model.)

D. A. C. & J. L. FUNDERBURK.

PLOW.

No. 294,986.

Patented Mar. 11, 1884.



WITNESSES

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# UNITED STATES PATENT OFFICE.

DAVID A. C. FUNDERBURK AND JEFFERSON L. FUNDERBURK, OF  
BAINBRIDGE, GEORGIA.

## PLOW.

SPECIFICATION forming part of Letters Patent No. 294,986, dated March 11, 1884.

Application filed September 4, 1883. (No model.)

*To all whom it may concern:*

Be it known that we, D. A. C. FUNDERBURK and JEFFERSON L. FUNDERBURK, citizens of the United States of America, residing at Bainbridge, in the county of Decatur, in the State of Georgia, have invented a new and useful Improvement in Plows, of which the following is a specification.

Our invention relates to improvements in plows; and the objects are, first, to provide means by which the mold-board of the plow is prevented from displacement in any direction; second, to provide improved means for adjusting the handles to any desired position; and, third, to provide an improved check-bolt for the clevis to rest against, whereby the run of the plow may be controlled as to depth; fourth, to provide an improved removable and adjustable side frame or loop and an adjustable land-side, as hereinafter more fully stated.

Our invention consists in the novel construction and combination of parts, as will be hereinafter more fully set forth, and specifically pointed out in the claims.

In the accompanying drawings, Figure 1 is a perspective view of a plow having our improvements attached. Fig. 2 is a view of the adjustable stirrup and handle braces. Fig. 3 is a view of the lower end of the beam and side frame, with shoulder-cuff and bolt and mold-board bolt in position; and Fig 4 is a view of the cuff and bolt and washer.

The letter A represents the beam of the plow, formed or provided with the requisite bolt-holes at the land end, substantially as shown, for the purpose of admitting the passage of the bolts wherewith the land-side and side stirrup are secured in place. In the draft end of the beam is formed the vertical slot *a*, and fitted therein is the bolt *b*, having proper head, and provided on the free end with screw-threads to receive the nut *c*. This bolt and nut clamp the beam firmly, and then pivotally attaching the clevis back of the bolt, and arranging it to draw up against the head and nut of the bolt, the run of the plow as to depth is regulated by raising or lowering the bolt in the slot and securing it in the desired place.

The letter B represents the handles of the plow, pivotally secured to the beam by a bolt, substantially as shown; and C represents the

adjustable stirrup for setting the handles in any desired position as to height. This stirrup consists of the side bars, *d d*, the plates *e e*, and adjustable nuts *f* and *f*. The side bars are formed with screw-threads, which extend upon them for such a distance as to reach well above the upper face of the beam, or for such distance as will meet every exigency of the purpose intended. The side bars are extended and fixed to the handles, substantially as shown. This stirrup being in place, the operation of adjusting it is simple and well known. It is readily perceived that its construction and adaptability to the purpose admit of vertical adjustment, and at the same time it may be moved backward or forward.

The letter D represents the land-side, formed to suit the shape of the lower end of the beam, and provided with slotted bolt-holes *g g*, adapted to receive the heads of the bolts, which secure it to the beam for the purpose of drawing it against the beam. The walls of the slots are beveled, and the heads of the bolts correspondingly formed, and the slots are so disposed that the land-side will follow the form of the beam at these points, and register therewith wherever fixed.

The letter E represents a side frame formed with the raised central portion, *h*, and ends *i*, provided with transversely elongated bolt-holes *x x*, registering with the bolt-holes in the beam, through which the bolts from the land-side project, and by which this frame and the land-side are secured to the beam. The raised part *h*, when the frame is fixed in position, forms, in connection with the face of the beam, a slot or chamber in which the bolts of the shoulder-cuff and mold-board pass, as hereinafter stated. By means of the elongated bolt-holes this frame may be adjusted to meet the adjustments of the land-side and the mold-board or shovel.

The letter F represents the mold-board, secured in position by a single bolt, *k*, which passes through the mold-board, thence through the slot or chamber between the side frame, E, and the beam, and is firmly held by means of the nut on the bolt. Notwithstanding the means here stated employed to secure and maintain the mold-board in position, it happens that the strain on the mold-board is such



as to twist it sidewise, and thus cause bad work and much trouble. To obviate this difficulty and afford ready and sufficient means to secure the mold-board in a fixed position, I form it with a straight shoulder, *m*, to provide a seat for the cuff, now about to be described.

The letter *G* represents a bolt, having formed thereon or otherwise provided with and rigidly secured thereto the head-piece or shoulder-cuff *n*, having the under face formed a plane, and in length equal to the length of the shoulder *m* in the mold-board, upon which it is intended to rest, and the purpose of which contact is that when the bolt is in place, with the cuff on its seat on the mold-board, the latter is held against sidewise displacement. This bolt *G* is provided with screw-threads and screw-nut on the rear end, and, as shown, passes through the slot or chamber between the side frame, *E*, and the beam, and is provided with a washer, *c*, which washer also serves a like purpose for the bolt *k*, and operates to hold the two bolts accurately in their relative positions. Not only does this cuff *n* and bolt serve the purpose, when clamped in place, to secure the mold-board against twisting or side displacement, but it serves as a means of readily and accurately adjusting the mold-board vertically, as well as otherwise, since the mold-board may be thus set in any desired position, and then the cuff being placed on its seat on the shoulder of the mold-board and screwed tight, it is held there against all probable strains occurring in ordinary use.

We are aware that a device for the same purpose has heretofore been made, consisting of a bolt with a head grooved to correspond with grooves in the plow-foot, and rabbeted to fit over the upper edge of the face of the mold-

board or shovel; but such a device is not adapted to be applied to the plow herein described; and our improvement consists in dispensing with the grooves on the foot and bolt-head and the rabbet, and in forming the bolt-head an elongated cuff extending the length of the shoulder in the mold-board or shovel.

It is obvious that our improvements are specially adapted to plows principally made of metal, but may be applied to wooden beams with metal adjuncts, and their application to either straight or crooked beams is readily perceived.

What we claim as our invention, and desire to secure by Letters Patent, is—

1. In combination with the plow-beam, the removable and adjustable side frame, *E*, the mold-board secured by the bolt *k*, and the washer *c*, the bolt *G*, formed with the head or cuff *n*, substantially as described.

2. In combination, the plow-beam, the landside, formed with elongated bolt-holes, and the side frame, *E*, having elongated bolt-holes, the said landside and frame being removably and adjustably secured to the beam, substantially as and for the purpose set forth.

3. In combination with the beam-handles of a plow, said handles being pivotally secured to the beam, the stirrup *C*, consisting of the two side bars, *d d*, pivotally attached to the handles, the upper or lower plates or washers *e e*, and the adjusting-nuts *f f*, said plate and adjusting-nuts, with the side bars, being adapted to embrace the plow-beam, substantially as and for the purpose set forth.

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Witnesses:

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