(No Model.)

N. BURCH.

DEVICE FOR ATTACHING COLTERS TO PLOWS.

No. 367,697. Patented Aug. 2, 1887.

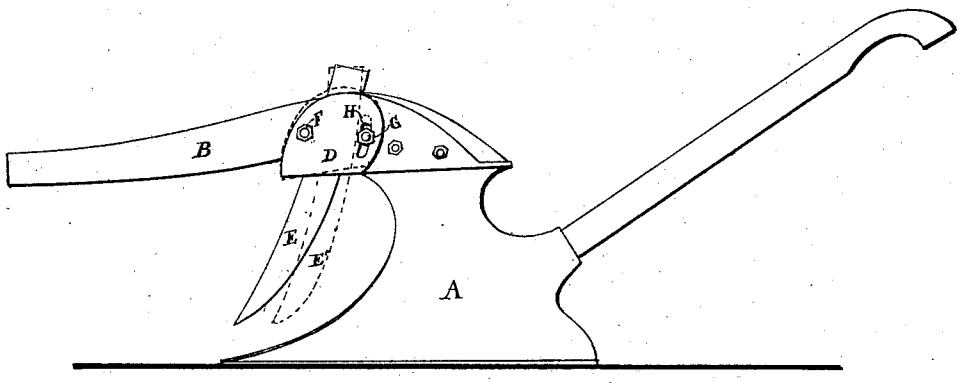

Fig. 1

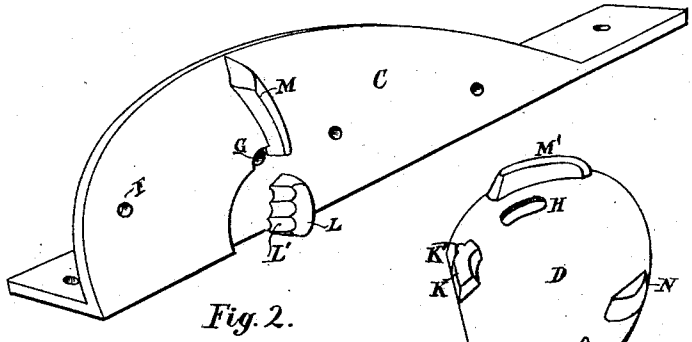

Fig. 2.

Fig. 3.

Witnesses.
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UNITED STATES PATENT OFFICE.

NICHOLAS BURCH, OF TOLEDO, OHIO.

DEVICE FOR ATTACHING COLTERS TO PLOWS.

SPECIFICATION forming part of Letters Patent No. 367,697, dated August 2, 1887.

Application filed May 5, 1887. Serial No. 237,286. (No model.)

To all whom it may concern:

Be it known that I, NICHOLAS BURCH, a citizen of the United States, residing at Toledo, in the county of Lucas and State of Ohio, have invented certain new and useful Improvements in a Device for Attaching Colters to 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 the letters of reference marked thereon, which form part of this specification.

My invention relates to a device for attaching colters to plows, and has for its object to provide means by which the strain from the colter shall be transferred from the beam or standard to a supplemental cap; also, to so arrange the parts that the colter can be given any desired inclination by simply moving the locking-cap and without removing the parts from the beam.

My invention consists in minor details of construction, that will be particularly described, and pointed out in the claims.

Figure 1 is a perspective view of a plow provided with my improvements, showing in full and dotted lines different adjustments of inclinations to the colter. Fig. 2 is an isometrical perspective of the outer face of the flanged portion of the plow-standard, the lower portion of the standard being omitted. Fig. 3 is a plan view of the inner face of the locking-cap.

Like letters of reference indicate like parts throughout the views.

A represents the plow, having beam B.

C is an upturned flange, preferably formed integral with the plow-standard and provided with bolt-holes F and G, also with lug L at its lower and a lug, M, at its upper side. Lug L is formed with serrations L′, for a purpose hereinafter stated.

D represents a pivoted locking-plate having a bolt-hole, O, and an elongated curved slot, H, registering with holes F and G, respectively, upon the flanged plate C. Cap D is provided with lugs N N upon its inner side, also a lug, K, having a V-shaped tooth, K′, upon its lower portion, and a lug, M′, upon its upper portion. Projection K′ upon lug K is adapted to fit into serrations L′ of plate C, and the inner side of lug M′ on cap D fits against the outer side of lug M on plate C, the bearings for the colter being lugs K M′ N N of plate D. It will be observed that the bearings for the colter being upon the cap D, which is preferably made of wrought or malleable iron, all danger of breakage to the beam or flanged plate is obviated.

The operation is as follows: Cap D is pivotally attached to the flanged plate C by bolts passing through perforations F and O G and slot H. These bolts may extend through the beam or simply through the two plates. In the latter case the heads should be countersunk into the rear side of the flanged plate C. The colter is now placed in position between plates C and D. If the greatest inclination to the colter is desired, tooth K′ is placed in the lowest serration of the flanged plate, the bolts are run firmly to place, and the plow is ready for use. To change the inclination of the colter, it is only necessary to unscrew the nuts from the bolts a sufficient distance to allow the cap to be moved upon the pivot, placing tooth L′ in any desired serration, and tighten the bolts, as previously described.

By the arrangement of K and M′ L and M the back-pressure of the colter upon lugs K and L results in a forward pressure upon lugs M and M′, thereby greatly equalizing the strain upon flanged plate C.

My device is durable, inexpensive, and readily attached.

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

1. In a device for attaching colters to plows, a pivoted locking-cap provided with bearings for the colter, a flanged plate having lugs adapted to receive the strain of the locking-plate upon the inner side of one lug and the outer side of the other lug, as and for the purpose set forth.

2. A flanged plate having a smooth-faced upper lug and a serrated lower lug, a pivoted

locking-cap having bearings for the colter, one of the bearings having a V-shaped tooth adapted to engage with any desired serration upon the inner face of the lower lug upon the flange-plate, and an upper bearing fitting upon the outer face of the upper lug, as and for the purpose set forth.

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

NICHOLAS BURCH.

Witnesses:

LUTHER G. RAYMER,

WILLIAM WEBSTER.