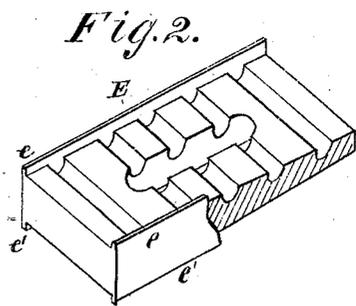
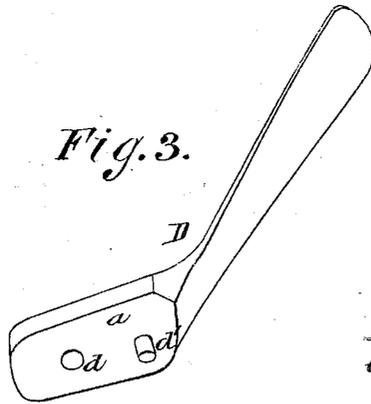
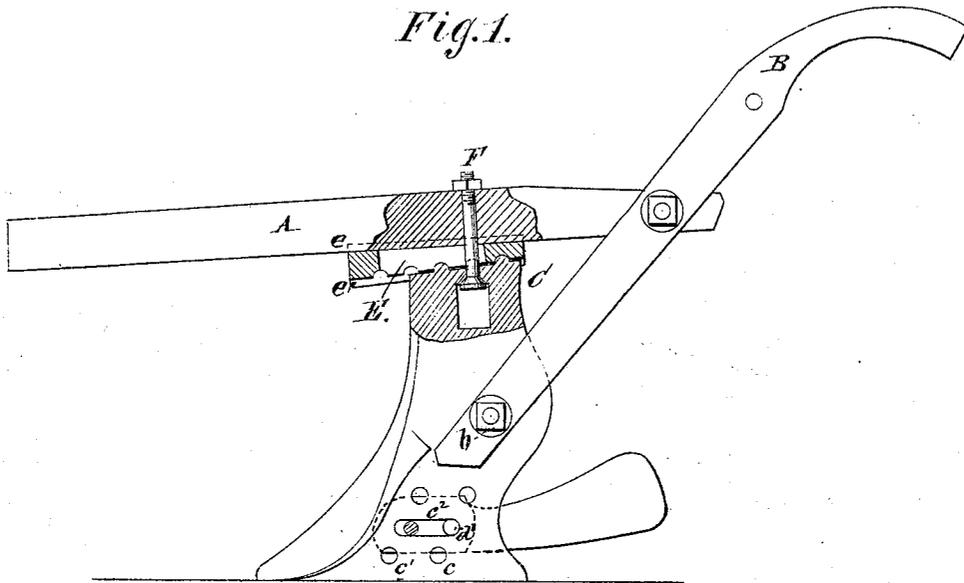


C. BILLUPS.  
Cultivators.

No. 135,070.

Patented Jan. 21, 1873.



Witnesses:  
*W. Matthews*  
*John K. Emou*

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# UNITED STATES PATENT OFFICE.

CEALY BILLUPS, OF NORFOLK, VIRGINIA.

## IMPROVEMENT IN CULTIVATORS.

Specification forming part of Letters Patent No. 135,070, dated January 21, 1873.

*To all whom it may concern:*

Be it known that I, CEALY BILLUPS, of Norfolk, in the county of Norfolk and State of Virginia, have invented certain Improvements in Cultivators, of which the following is a specification:

The invention relates to cultivator-plows, upon which are made certain improvements that will be first fully described in connection with all that is necessary to a full understanding thereof, and then clearly pointed out in the claims.

Figure 1 is a side elevation. Fig. 2 is a perspective view of the wedge, and Fig. 3 is a detail view of the sweeps.

In the drawing, A represents the beam; B B, the handles; and C, the standard, the latter being provided in front with wings, to which mold-boards or shovels are to be attached in the usual manner, and having made transversely through it, in rear of the wings, perforations *c c'*, with an intermediate slot, *c''*, by means of which and clamp-bolt a ready means is provided for the attachment to and adjustment upon the standards of sweeps D. These sweeps have stout shanks *a*, formed at an obtuse angle at their inner ends, and are perforated at *d*, and provided with a stud, *d'*. The two sweeps are placed opposite to the same pair of holes *c c'*, into the first of which is entered the stud of each wing, while a clamp-screw or bolt passes through the other hole *c'*, and holds the sweeps securely to the standard. The object of the slot in the standard is to permit the adjustment of the sweeps to a greater angle vertically, and this is done by placing the studs thereof in the slot while the clamp-

screw remains in the front hole of the lower two. E is a slotted wedge working over a screw, F, and having the edge flanges *e e'* placed at right angles thereto, and employed to embrace the beam and upper surface of standard, thus preventing lateral displacement of either. By loosening the nut that holds the screw F the wedge may be moved in either direction, according to the pitch desired. The handles B B have their ends *b b* clamped to standard by a screw passing through it about midway between the bottom and top of standard. This brings the handles in an oblique plane, corresponding nearly or quite with the average pitch or inclination of plow-point, whereby they form a perfect brace to the rear end of the beam, and give a complete leverage control of the plow.

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

1. A slotted wedge, E, having the flanges *e e* and *e' e'* upon its opposite sides, applicable as and for the purpose described.

2. A cultivator-plow sweep having the shank *a* with hole *d* and stud *d'*, constructed substantially as and for the purpose described.

3. The standard C, having parallel pairs of holes *c c'* and intermediate slots *c''*, as described, to enable the sweeps to be either raised or depressed, and also allow their pitch to be changed.

C. BILLUPS.

Witnesses:

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