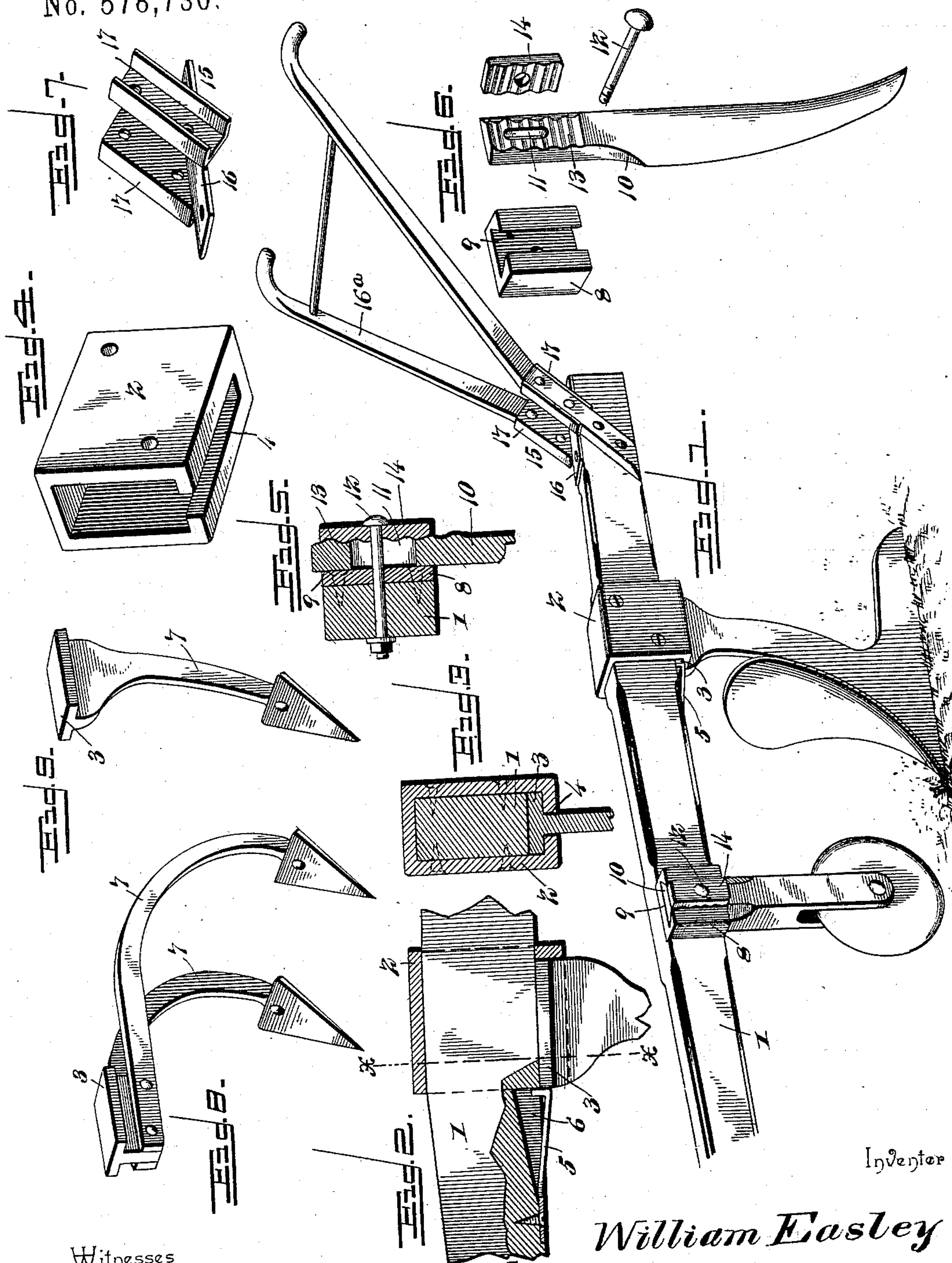


(No Model.)

W. EASLEY.  
PLOW.

Patented Mar. 16, 1897.

No. 578,730.



Inventor

William Easley

By *W. S.* Attorneys,

*C. A. Snow & Co.*

Witnesses  
*E. H. Stewart*  
*V. B. Tillyard.*



# UNITED STATES PATENT OFFICE.

WILLIAM EASLEY, OF CALHOUN, KENTUCKY, ASSIGNOR OF ONE-HALF TO  
V. T. STATELER, OF SAME PLACE.

## PLOW.

SPECIFICATION forming part of Letters Patent No. 578,730, dated March 16, 1897.

Application filed October 24, 1896. Serial No. 609,949. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM EASLEY, a citizen of the United States, residing at Calhoun in the county of McLean and State of Kentucky, have invented a new and useful Plow, of which the following is a specification.

By this invention various forms of plows, cultivating devices, and shovels can be readily applied to a stock or beam, according to the nature of the work to be performed, without requiring bolting, the improvement consisting of a cuff or sleeve slipped upon and secured to the beam and having a longitudinal slot in its lower side opening through the front end and having a space between the slotted side and the lower side of the beam, a T-head formed with or secured to the upper end of the standards or bars of the differently-formed cultivating devices and fitting within the aforesaid space at the bottom side of the cuff, and a catch for holding the head in place.

The improvement further consists of a block secured to a side of the beam and having a vertical recess or depression in its outer face which is undercut, a colter adjustably fitted within the said recess and having corrugations on its outer face, a plate having corresponding corrugations to interlock with the corrugations of the colter, so as to form positive connection therewith, and a bolt for connecting the parts and securing the colter in an adjusted position.

For a full understanding of the merits and advantages of the invention reference is to be had to the accompanying drawings and the following description.

The improvement is susceptible of various changes in the form, proportion, and the minor details of construction without departing from the principle or sacrificing any of the advantages thereof, and to a full disclosure of the invention an adaptation thereof is shown in the accompanying drawings, in which—

Figure 1 is a perspective view of a plow, showing the application of the invention, the front portion of the beam being broken away. Fig. 2 is a detail view showing the relative disposition of the parts when the T-head is secured within the lower portion of the cuff. Fig. 3 is a transverse section on the line X X

of Fig. 2. Fig. 4 is a detail view in perspective of the cuff or sleeve. Fig. 5 is a detail view showing the means for adjustably connecting a colter to the beam. Fig. 6 is a detail view of a colter and the means for adjustably connecting it to the beam, the parts being disassociated and grouped together. Fig. 7 is a detail view of the bracket for connecting the handles to the beam. Fig. 8 shows a cultivator-gang having a T-head secured to the bars thereof. Fig. 9 shows a cultivator-standard having the T-head formed therewith.

Corresponding and like parts are referred to in the following description and indicated in the several views of the drawings by the same reference-characters.

The beam or stock 1 is of ordinary construction and is intended to receive and support the various plows and cultivating devices. A cuff or sleeve 2 is slipped upon the beam and is secured thereto in any substantial manner, a space being formed between the lower side of the cuff and the bottom side of the beam, so as to receive the T-head 3 of the several plows, cultivating and earth-treating devices, a longitudinal slot 4 being formed in the lower side of the cuff to receive the vertical portion forming the T-head. This slot is closed at its rear end and opens through the front end of the cuff to admit of the T-head being slipped into the said space from the front end of the cuff, the closed end of the slot limiting the backward movement of the head and sustaining the strain imposed thereon when the implement is in operation. A catch 5 is applied to the beam in front of the cuff and is adapted to engage with the front end of the T-head and hold the latter within the cuff when the parts are in position. This catch 5 is elastic and automatically springs in front of and locks the T-head after the latter has slipped to position within the cuff. A recess 6 is formed in the lower side of the beam in advance of the cuff, and the rear portion of the catch is adapted to be forced therein, so as to admit of the T-head being withdrawn from the cuff when it is required to remove a plow or cultivating device from the beam to be substituted by another of different form or for any special reason. The T-head 3 may be formed with



the standard of either a plow or cultivator shovel or may be separate from and applied to these parts, as indicated in Fig. 8. In the latter case the bars 7 are fitted against opposite sides of the vertical portion of the T-head and secured thereto by the same fastening means. In every instance the T-head will be the same, so as to admit of the various forms of plows and cultivating devices to be interchangeably fitted to the beam according to the character of the work for which the implement is to be equipped.

A block 8 is secured to a side of the beam and has a recess 9 in its outer face, the vertical walls of the recess being undercut, so as to prevent lateral displacement of the colter, gage-wheel, or other part fitted therein. The shank 10 of either the colter, gage-wheel, or other part to be fitted to the block is of corresponding shape to the recess 9, so as to snugly fit therein, its edges being beveled to coincide with the undercut of the vertical walls of the recess, so as to prevent lateral displacement after the shank has been slipped into the said recess. This shank is formed with a longitudinal slot 11, through which the fastening-bolt 12 passes, thereby admitting of the colter or its equivalent part having a vertical adjustment. The outer face of the shank is corrugated, as shown at 13, and a plate 14, having its inner face formed with corresponding corrugations, is mounted upon the bolt 12, and the corrugations of the plate 14 are adapted to interlock with the corrugations 13, so as to positively secure the colter or the stem of the gage-wheel in the adjusted position. The bolt 12 passes through an opening in the plate 14 and through coincident openings in the block 8 and beam 1, and when it is required to adjust the colter the bolt is loosened sufficiently to admit of the corrugations of the parts 10 and 14 passing by one another, and after the required adjustment is had the colter is secured by retightening the bolt 12.

The bracket 15 for rigidly connecting the handles 16<sup>a</sup> with the beam 1 is composed of a plate 16 and obliquely-extending arms 17, which are grooved in their outer sides to receive and form seats for the lower end portions of the handles. The plate 16 rests upon the beam and is secured thereto, whereas the lower end portions of the handles are seated in the arms 17 and secured thereto and have their lower terminals projecting below the said arms 17 and secured to the sides of the beam by bolts passing transversely through coincident openings in the lower terminals of the handles and beam.

The means specified for connecting variously-formed plows and cultivating devices with a beam admit of the substitution of one form of plow or cultivator for another being readily effected and without requiring the application of any tool or the loosening or tightening of any fastenings, as to remove a plow

it is only necessary to compress the catch 6, so as to withdraw it from the path of the T-head 3, when by drawing the latter forward the part to which the T-head is connected is readily separated from the beam, and to apply another part the head is pressed against the catch and is slipped into the recess in the lower portion of the cuff, and after the head is seated the catch will automatically spring outward and secure the part in position.

Having thus described the invention, what is claimed as new is—

1. In an agricultural implement, the combination with a plow beam or stock, of a cuff secured to the said beam and having a space between the bottom side of the beam and the lower side of the cuff, and having a longitudinal slot extending through the front end of the cuff, an earth-treating device having a T-head to pass into the said slot and recess and interlock with the lower portion of the cuff, and means for securing the T-head in place, substantially as set forth.

2. In an agricultural implement, the combination of a beam or stock, a cuff secured thereto and having a longitudinal slot in its lower side extending through the front end, and having a space between the bottom side of the beam and the said lower side of the cuff, an earth-treating device having a head of approximately T form to slip into the said space and slot and interlock with the cuff, and a catch for holding the said head in engagement with the cuff, substantially as and for the purpose set forth.

3. In combination, a beam, a cuff secured to the beam and having a recess between its lower side and the bottom of the beam, and having a longitudinal slot in its lower side opening through the front end, an earth-treating device having an approximately T-head to enter the said recess, and a catch secured to the beam in front of the cuff and engaging with the front end of the T-head to hold it in engagement with the cuff, and adapted to have its rear portion pressed into a recess formed in the beam, substantially as and for the purpose set forth.

4. In combination, a beam, a block secured to a side of the beam and having a vertical recess in its outer face, the vertical walls of the recess being undercut, a colter or stem having a shank to snugly fit within the recess of the block and having a longitudinal slot and its outer face corrugated, a plate having its inner face corrugated to fit the outer face of the said shank, and a fastening for securing the parts in an adjusted position, substantially as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

WM. EASLEY.

Witnesses:

J. P. JOHNSON,  
R. G. CARY.