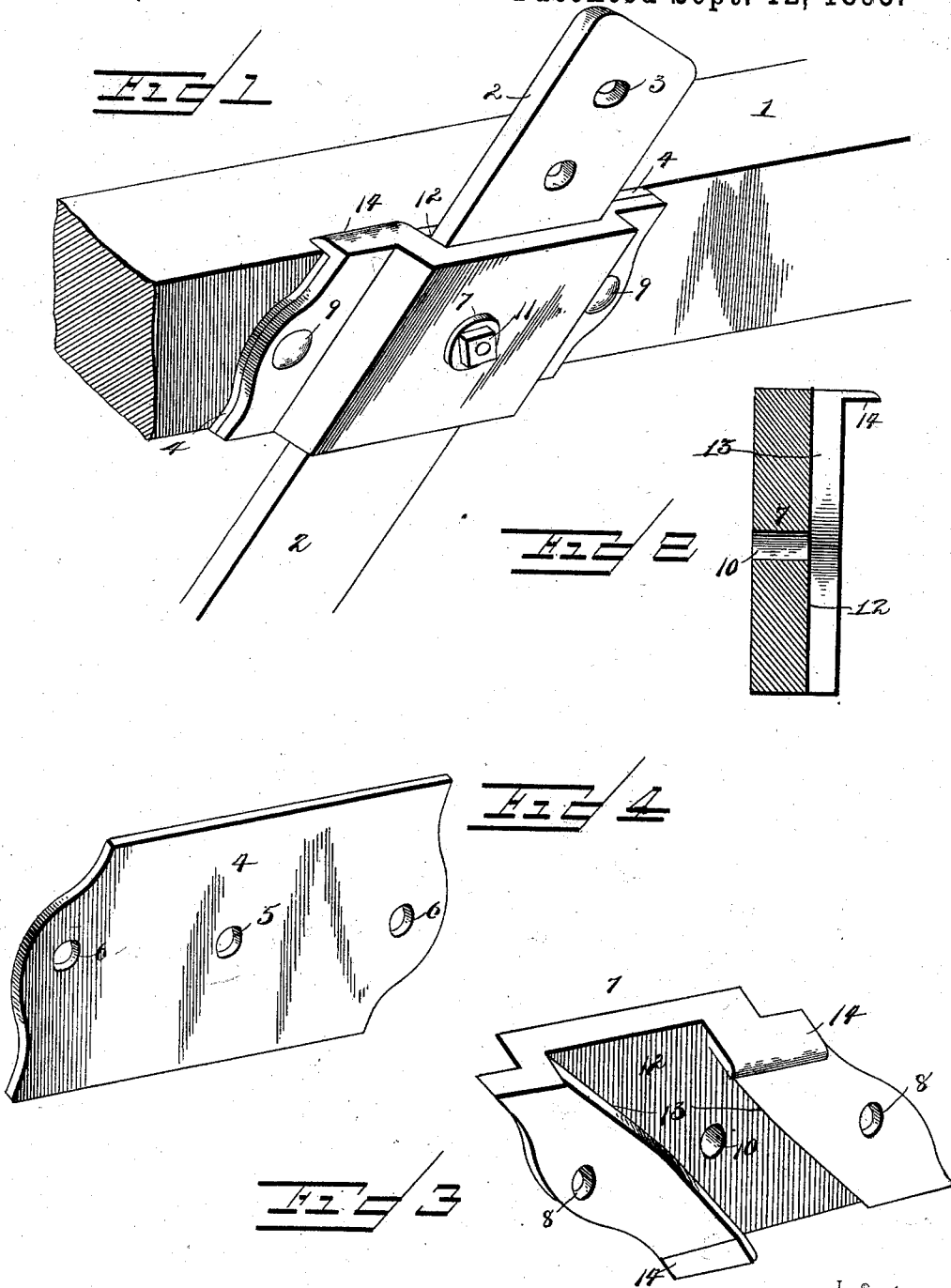


(No Model.)

L. S. BAILEY.
COLTER.

No. 505,018.

Patented Sept. 12, 1893.



Inventor:
Leonard S. Bailey.

Witnesses:

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UNITED STATES PATENT OFFICE.

LEONARD S. BAILEY, OF WEST POTSDAM, NEW YORK.

COLTER.

SPECIFICATION forming part of Letters Patent No. 505,018, dated September 12, 1893.

Application filed July 15, 1893. Serial No. 480,629. (No model.)

To all whom it may concern:

Be it known that I, LEONARD S. BAILEY, a citizen of the United States, residing at West Potsdam, in the county of St. Lawrence and State of New York, have invented a new and useful Colter, of which the following is a specification.

My invention relates to improvements in plows, and more particularly to that class thereof employing colters which operate in advance of the plow point.

Heretofore in sections of the country where the soil abounds in stone, loose rock, &c., or where numerous roots are found, great difficulty has resulted from the presence thereof, by reason of the fact that the same would become wedged between the rigid colter and the plow point, thus necessitating the loss of time by causing the attendant to withdraw the plow from the furrow to come up to the side thereof and knock the obstruction from between the colter and the point, and subsequently to resume plowing.

The objects of my invention are to provide a colter and means for securing the same to the plow beam whereby, by reason of such means, the colter will be loosely held instead of rigidly secured to the beam so that a slight longitudinal vibration takes place, and hence the lodgment or wedging of stones, roots, and other undesirable obstructions between the back edge of the same and the plow point is effectually avoided.

With these objects in view the invention consists in a particular construction of fastening device hereinafter described, and in combination thereof with the colter and beam.

Referring to the drawings:—Figure 1 is a perspective view of a portion of the plow beam, the same being provided with a colter fastened in accordance with my invention. Fig. 2 is a cross-section of the fastening device. Fig. 3 is a perspective in detail thereof. Fig. 4 is a detail of the wear plate.

Like numerals of reference indicate like parts in all the figures of the drawings.

The numerals 1 and 2 designate the beam and colter, respectively, the same being of the ordinary construction with the exception that the colter has its shank provided with a series of bolt holes 3. A metal wear-plate 4, is applied to the face of the beam, and the same is provided with a central bolt-hole 5, and opposite end bolt-holes 6. The fastening-device or clip 7, is of general U-shape in cross-section, and has its terminals provided at their inner ends with perforated ears 8, which align with the end perforations of the wear-plate and the corresponding perforations in the beam. Through these perforations in the clip or fastening-device, and the beam and wear-plate, are passed bolts 9. The clip is further provided with a central perforation 10, which agrees with the central perforation in the wear-plate and with a corresponding perforation in the beam, and through the three perforations is passed a pivot-bolt 11. The inner side of the clip has a recess or chamber 12 which, as a whole, is inclined, as shown, and the opposite walls are, from points between their upper and lower ends, flared, as indicated at 13. The centers of the walls or where the same begin to flare form opposite bearing edges. The colter fits between the bearing edges and is therefore capable of a slight vibration back and forth, and through a convenient hole in the shank the pivot-bolt at the center is passed. The diagonal opposite corners of the clip are provided with ribs 14 which take under the beam and strengthen the connection between the same and the fasteners.

This completes the construction, and the operation thereof is as follows: As the plow moves along in the furrow it will be seen that the colter is constantly vibrating from front to rear, so that, as a result, the stones, roots, &c., are prevented from being wedged between the same and the plow-point, as is common in the case where the colter is rigid, and hence I obviate the loss of time and labor necessarily involved in withdrawing the plow from the furrow and removing such obstructions. By reason of the presence of the wear-plate the beam is preserved against wear by the movements of the colter, which latter, it will be seen, may be raised and lowered and held in any of its adjusted positions.

Having described my invention, what I claim is—

1. The combination with the beam and colter, of a U-shaped clip for receiving the colter and applied to the face of the beam, bolts passing through perforations in the clip at opposite sides of the colter, and a central pivot-bolt passed through the clip, colter and beam, the shank of the colter being of less width than the recess in the clip, substantially as specified.
2. The combination with the beam, the colter and the wear-plate applied to the face of the beam and having central and end-openings, a U-shaped clip applied to the wear-plate

and having central and end openings, the opposite walls of the clip being flared at opposite sides of their centers, and the colter having its shank fitting between the walls at their narrowest points and mounted pivotally on the central bolt, substantially as specified. 15

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses. 20

LEONARD S. BAILEY.

Witnesses:

FRANK N. CLEVELAND,
LEONARD S. FARMER.