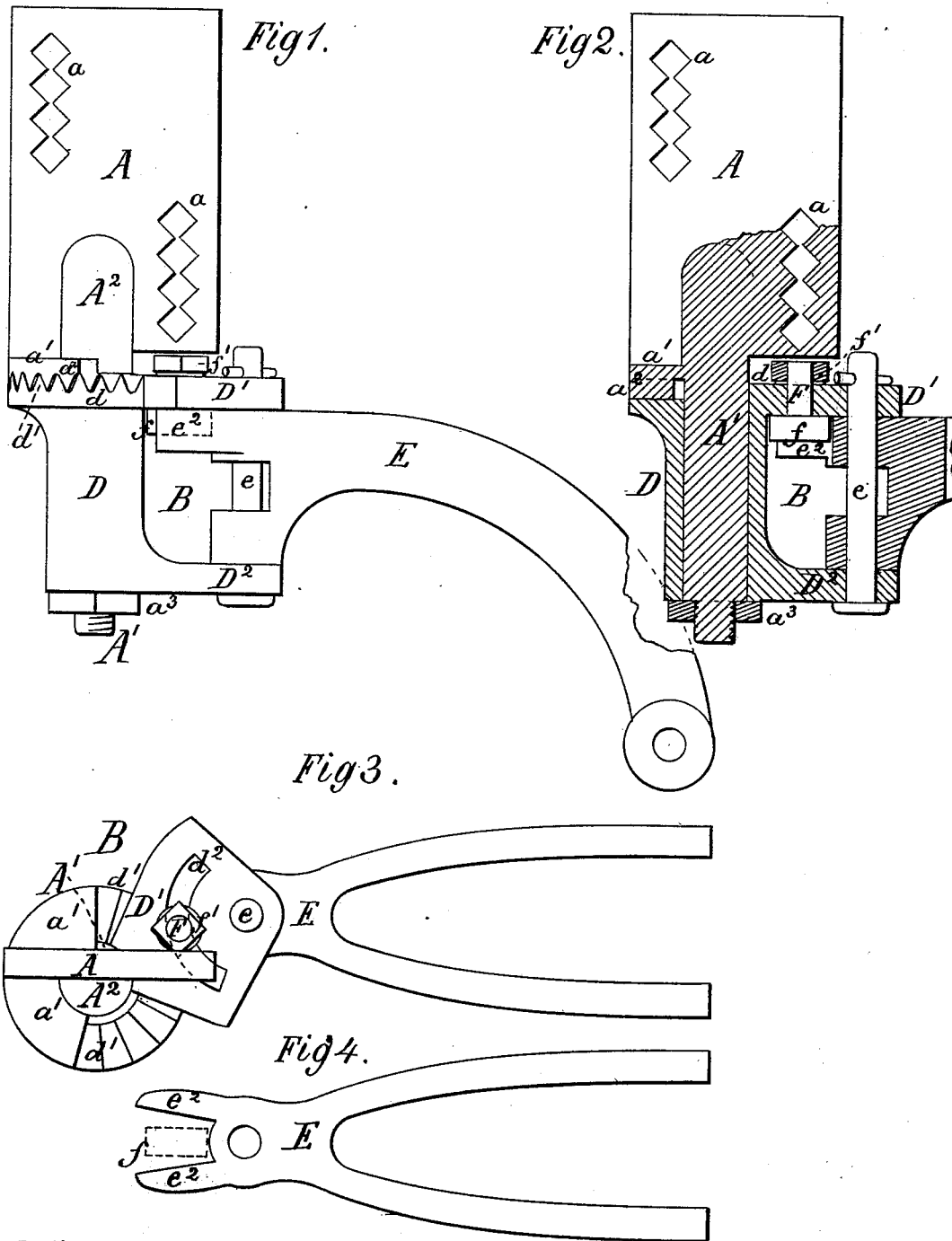


A. H. BURLINGAME.
Hanger for Plow-Colter.

No. 218,617.

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Witnesses:
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UNITED STATES PATENT OFFICE

ALBERT H. BURLINGAME, OF SPARTA, ILLINOIS.

IMPROVEMENT IN HANGERS FOR PLOW-COLTERS.

Specification forming part of Letters Patent No. 218,617, dated August 19, 1879; application filed March 24, 1879.

To all whom it may concern:

Be it known that I, ALBERT H. BURLINGAME, of Sparta, in the county of Randolph and State of Illinois, have invented a new and useful Improvement in Colter-Hangers; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a side elevation of my improved colter-hanger; Fig. 2, a vertical section and partial elevation of the same, a portion of the arm which swivels with the wheel-colter which it is intended to support being broken away. Fig. 3 is a top view of the colter-hanger complete. Fig. 4 is a top view of the arm which supports the wheel-colter, the check bolt or stop which prevents it swiveling beyond a given extent either to the right or left being shown by dotted lines.

The main part of my invention consists in a vertical bolting-plate which is adapted for being bolted to the side of a plow-beam and having a horizontal segmental extension-plate with adjusting-teeth and a pendent screw-pin below the beam, in combination with a tubular sleeve adapted to be fitted around the pendent pin, and having a nearly-circular head with adjusting-teeth on its upper side, which fit into the teeth of the segmental plate, and also having two lateral brackets, to which the swiveling arm of the colter-wheel is pivoted, one of said brackets being nearly in form of a quadrant, and provided with a segmental slot in which a check bolt or stop is applied and made adjustable horizontally to the extent required for the purpose of bringing the arm of the colter-wheel parallel with the beam or land-side of the plow. By this part of my invention the brackets of the colter-hanger, together with the swiveling arm and wheel-colter, can be swung around beneath the beam in either an almost complete circle or a very small part of such circle, and the wheel-colter, with its swiveling arm separate from the brackets of the hanger, can then be readjusted from an oblique position with respect to the side of the beam to a position parallel with the side of the beam, and then, when thus adjusted, the

arm and colter can swivel to a limited extent either to the right or left.

My invention further consists in certain details of construction and minor combinations of parts, as will be presently described and specifically claimed herein.

In the accompanying drawings, A represents a vertical bolting-plate provided with two or more series of diamond-shaped bolt-holes, a , whereby the improved colter-hanger B is adapted for being bolted to the side of a plow-beam, one inch to three and a half inches thick. This plate is provided at its bottom just below the plow-beam with a horizontal segmental extension-plate, a^1 , and with a vertical pendent pin, A^1 , which extends from a half-round thickened portion, A^2 , on the outer side of the plate above the segmental extension a^1 , and just below the plate it takes a cylindrical form. The segmental extension a^1 is provided with V-shaped adjusting and locking teeth a^2 , and the pin A^1 at its lower end is reduced in diameter and provided with a clamping screw-nut, a^3 .

D is a tubular sleeve having an enlarged head, d , of nearly circular form, and with V-shaped teeth d^1 on its upper side, matching the teeth a^2 of the segmental plate a^1 . This tube is fitted on the pin A^1 , and when its teeth fit snugly between the teeth a^2 it is confined by the nut a^3 .

On the upper and lower ends of the tube D lateral extensions or brackets D^1 D^2 are provided, and in the same pivot-holes for a pivot, e , are formed. Between these brackets a forked swivel-arm, E, intended for carrying an ordinary rolling-colter, is pivoted by the pin e , so as to be adjusted to a considerable extent, and, after being adjusted, have a limited swiveling motion. The bracket or extension D^1 is in form of a quadrant, and its top surface is horizontal, and through it a slot of segmental form is provided, as shown by the letter d^2 . In this slot a check bolt or stop, F, is arranged, so that its large oblong head f will stand beneath the plate, and its fastening-nut f' come on top of the plate D^1 . With reference to the head f of the bolt F, the swivel-arm E is formed with short prongs e^2 e^2 at its rear end, and these prongs stand on opposite sides of the head f ,

far enough from one another to allow the arm E a limited swivel movement either to the right or left.

From the foregoing description it may be seen that the tubular sleeve D, with the other movable parts below the plate A $a^1 a^2$, can be swung around in a horizontal plane beneath the plow-beam, this being accomplished by simply loosening the nut a^3 and lowering the tube until its teeth d^1 are below the teeth a^2 of the segmental extension a , and swinging the tube around as far as desired, and then raising it on the pin A' and setting up the nut a^3 . This adjustment having been made, the colter and its swiveling arm E stand oblique or diagonal to the beam or land-side of the plow, and it is necessary to readjust the arm E, so as to bring the colter parallel with the beam and land-side of the plow; and to accomplish this the nut f' is loosened and the check or stop bolt F moved around in the segmental slot d^2 until the colter stands in line with the beam, and then the nut f' is set up, so as to secure the bolt in its adjusted position, and thereby hold the colter and its arm E from swinging around too far.

It will be understood that the arm E and the colter attached to it are allowed, together, a slight amount of swiveling movement between the prongs $e^2 e^2$, and that this movement is limited by the stop-bolt F being struck either by the right or left hand prong e^2 . This limited swivel movement is permitted in order to have the colter accommodate itself to the plow while turning to go back over the field.

With my improved hanger for colters the very nicest, as well as the greatest, necessary adjustments can be effected without separating the parts, and in the most expeditious manner,

and besides this the main parts can all be cast and the hanger furnished at small cost.

What I claim is—

1. The combination of the plate A, segment a^1 , pin A', sleeve D, extension D', bolt F, and colter-arm E, all in the manner and for the purpose herein described.

2. The tubular sleeve D, formed with the toothed head $d d^1$ and perforated brackets or extensions D' D', substantially as and for the purpose described.

3. The tubular sleeve D, provided with teeth d^1 , whereby the colter can be locked in any position to which it may be adjusted, and also provided with the segmental slot d^2 , in combination with the bolt F and colter-arm E, whereby the colter, with its arm, can be adjusted after it is swung around and locked by the teeth of the sleeve D, substantially as described.

4. The colter-arm provided with a forked end, e^2 , in rear of its pivot e , in combination with the tubular sleeve D, provided with the extension D', having the slot d^2 and the adjustable stop-bolt F, substantially as described.

5. The colter-arm forked, as at e^2 , on its rear end, said forked end being in rear of the pivot e , and serving for interlocking the colter, in combination with the device F, which adjusts it to a position parallel with the plow-beam, and also limits its vibration, substantially as described.

Witness my hand this 21st day of March, A. D. 1879, in the matter of my improved hanger for colters.

ALBERT H. BURLINGAME.

Witnesses:

W. J. BURNETT,
L. D. BURGESS.