E. B. WHITMAN.

Colter-Holder for Plows.

No. 219,663. Patented Sept. 16, 1879.

Fig. 1.

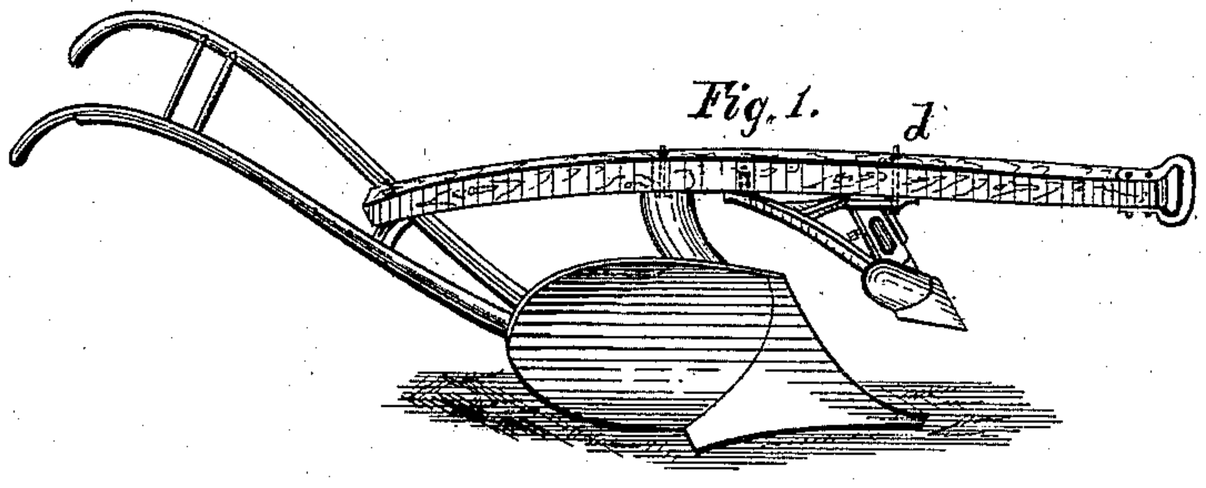


Fig. 2.

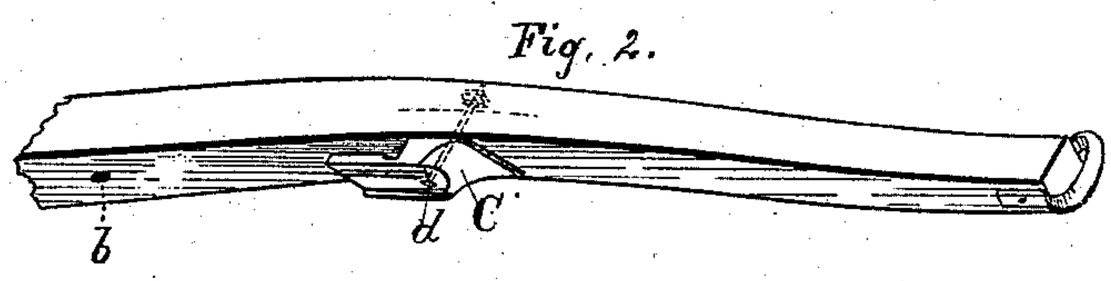


Fig. 3.

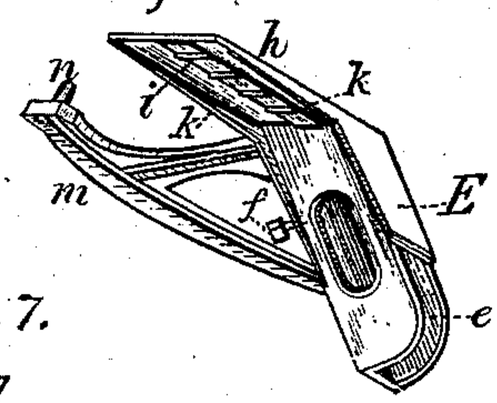


Fig. 4.

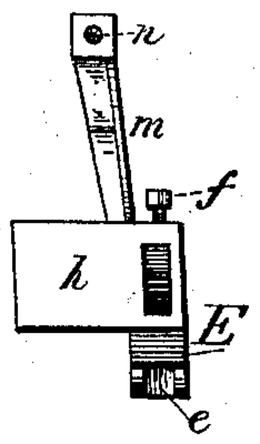


Fig. 7.

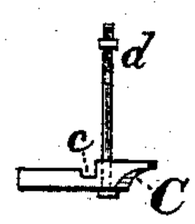


Fig. 8.

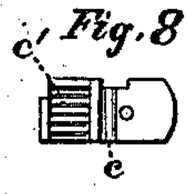


Fig. 6.

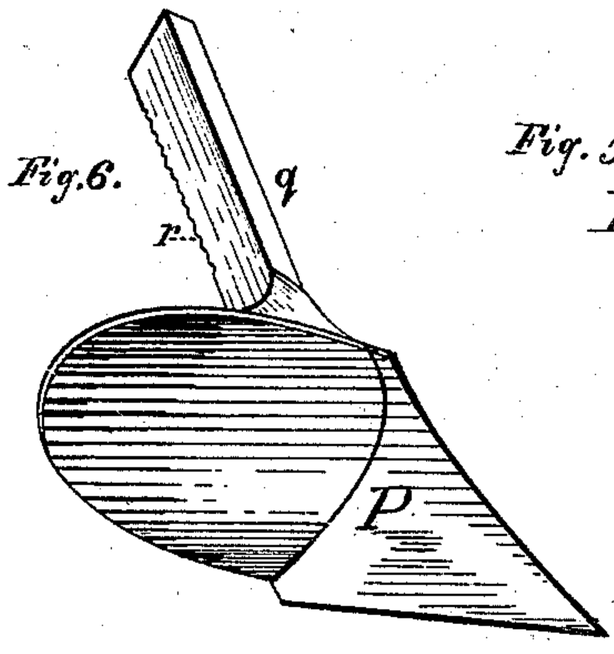
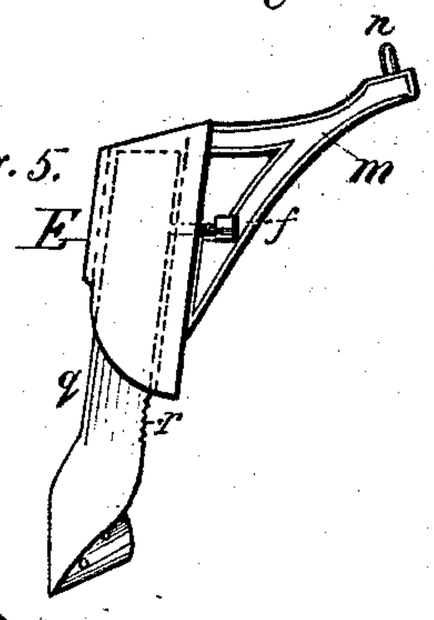


Fig. 5.



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UNITED STATES PATENT OFFICE.

EZRA B. WHITMAN, OF BALTIMORE, MARYLAND.

IMPROVEMENT IN COLTER-HOLDERS FOR PLOWS.

Specification forming part of Letters Patent No. **219,663,** dated September 16, 1879; application filed July 31, 1879.

To all whom it may concern:

Be it known that I, EZRA B. WHITMAN, of the city of Baltimore and State of Maryland, have invented certain new and useful Improvements in Colter Holders and Supporters for Plows, of which the following is a specification.

The object of this invention is to provide an adjustable colter-holder for plows which shall be of such construction as will adapt them for attachment to ordinary plows.

The invention will first be described, and then specifically designated in the claim.

In the drawings hereto annexed and forming part of this specification, Figure 1 is a view of a plow with my improvement attached. Fig. 2, like all the remaining figures, is on a larger scale, and is a view of the lower side of the plow-beam. Fig. 3 is a perspective of the colter-holder. Fig. 4 is a top or plan view of same. Fig. 5 is a side view of same. Fig. 6 is a view of the colter. Fig. 7 is a side view of the plate attached to the plow-beam. Fig. 8 shows the top of same.

The letter A represents the beam, upon the under side of which a hole, *b*, is made near the plow-standard, and a plate, C, having upon its upper side a transverse groove, *c*, and serrations *c'*, is attached by a bolt, *d*, forward of said hole. Only the bolt end of this plate is in contact with the beam.

E is the colter-holder, having a socket, *e*, in which the shank of the colter is adjusted vertically and held in any desired position by the set-screw *f*, which enters the rear part of the socket. From one side of the upper part of the socket an adjusting-plate, *h*, projects, which is provided on its lower side with teeth or serrations *i* and two ribs, *k*. A brace, *m*, projects from the rear side of the socket, and at its extremity is provided with an upward-projecting pin or teat, *n*, which enters the hole *b* in the beam.

P designates the colter, and *q* its shank, the back edge of which is provided with serrations *r*, which prevent it from slipping past the set-screw *f*.

When the plate C is attached to the beam a space is left over the serrations, and between them and the beam, through which the adjusting-plate *h* of the colter-holder passes. One of the ribs *k* rests in the groove *c*, and the teeth *i* engage with the serrations *c'*.

It will be seen this construction permits of the lateral or side adjustment of the colter-holder by simply loosening the nut of the bolt *d*, as then the plate *h* may be readily shifted.

By this means the colter may be kept in a position in line with the plowshare, and independently of the changes that may be made in the position of the beam.

The vertical adjustment of the colter may be effected by simply turning the set-screw *f*, whereby the shank is held in the socket.

By my construction the colter may be adjusted not only independently of the plow-beam, but likewise without regard to the cutting-line of the plowshare.

I am aware that colter-holders capable of adjusting the colter laterally and vertically have been used before, and I do not claim, broadly, a combination of devices to effect such results.

Having described my invention, I claim—

In combination, a plate, C, having through one end a bolt for attachment to the plow-beam, and provided on the upper side with serrations, and arranged so as to leave a space over the serrations and between them and the beam, and a colter-holder having at its rear side a brace, *m*, the extremity of which is adapted to be pivoted to the beam near the standard, and having at its forward part a plate, *h*, provided on the lower side with serrations adapted to engage with those on the plate attached to the beam, as set forth.

EZRA B. WHITMAN.

Witnesses:

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