

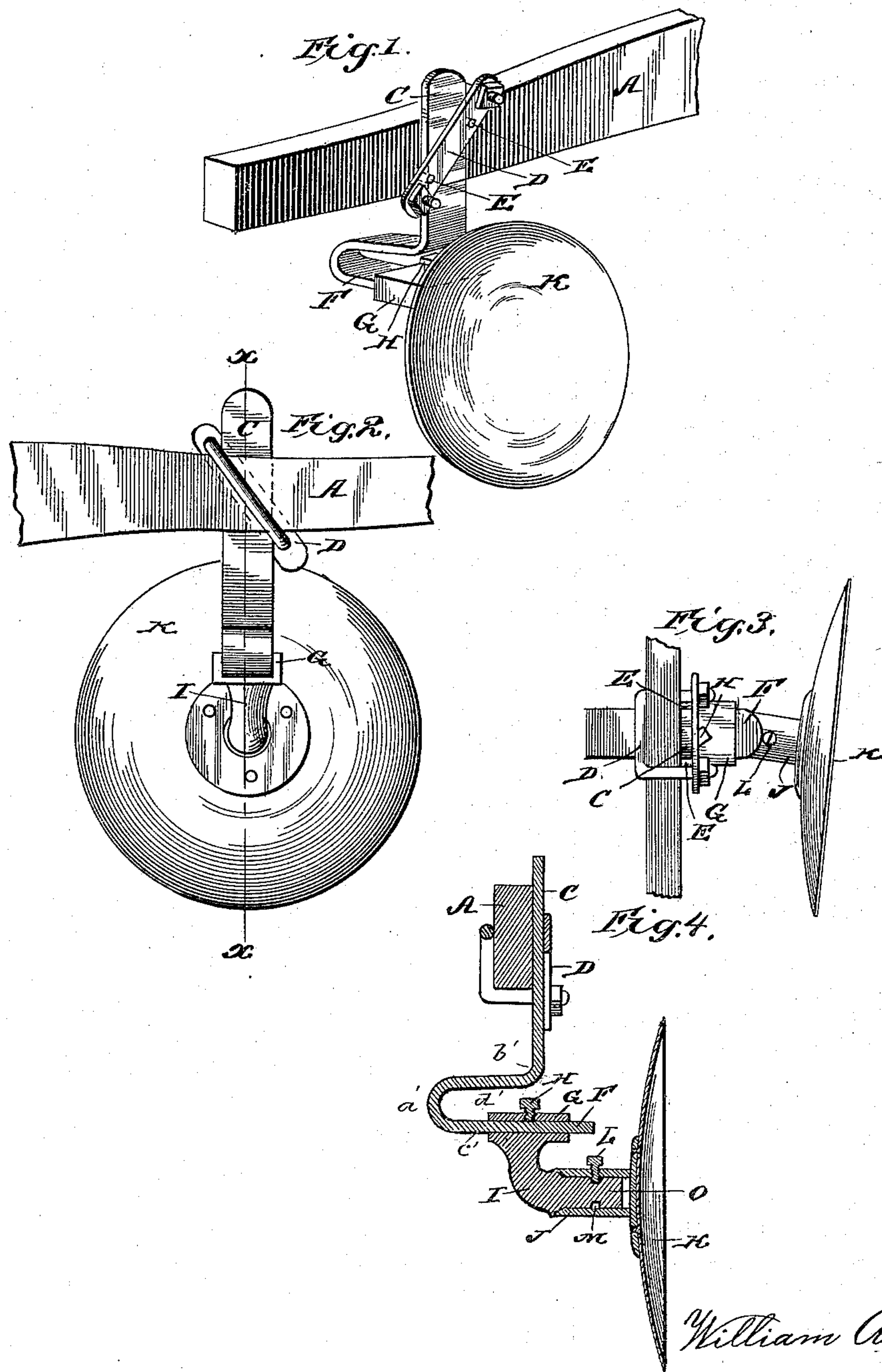
(No Model.)

W. A. WHITNEY.

COLTER AND JOINTER ATTACHMENT FOR PLOWS.

No. 331,175.

Patented Nov. 24, 1885.



WITNESSES:

*Ad. S. Dietrich*  
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ATTORNEYS.



# UNITED STATES PATENT OFFICE.

WILLIAM A. WHITNEY, OF STILLMAN VALLEY, ILLINOIS.

## COLTER AND JOINTER ATTACHMENT FOR PLOWS.

SPECIFICATION forming part of Letters Patent No. 331,175, dated November 24, 1885.

Application filed March 18, 1885. Serial No. 159,254. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM A. WHITNEY, a citizen of the United States, and a resident of Stillman Valley, in the county of Ogle and State of Illinois, have invented certain new and useful Improvements in Colter and Jointer Attachments for Plows; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of my improved colter and jointer, showing the same attached to a plow-beam in position for operation. Fig. 2 is a side view of the same. Fig. 3 is a top view, and Fig. 4 is a vertical transverse sectional view taken on the line *x x* in Fig. 2.

The same letters refer to the same parts in all the figures.

This invention relates to an improved combined colter and jointer attachment for plows; and it has for its object to provide a device of this class which shall possess superior advantages in point of simplicity, durability, and general efficiency.

With these ends in view it consists in the improved construction, arrangement, and combination of parts, which will be hereinafter fully described, and particularly pointed out in the claim.

In the drawings hereto annexed, A designates a plow-beam, which is of ordinary construction, and to which the plow is attached in the usual manner.

C is a vertically-adjustable strap or bracket, which is attached, by means of a clip, D, to the side of a plow-beam, which is provided with laterally-extending studs or lugs E E in front and in rear of the said strap or bracket, to prevent it from tilting in a forward or in a rearward direction. The lower end of the strap or bracket C is bent horizontally under the plow-beam, and thence again in an opposite direction, forming a double horizontal arm, F. This double bend of the arm F accomplishes the double purpose of giving room for the lateral adjustment of the projecting

arm I and also a sufficient amount of spring to enable the colter to pass smoothly over hard and unyielding substances without the liability of breaking.

G is a flat sleeve adjustable upon the arm F by means of a set-screw, H, whereby it may be retained securely in any position to which it may be adjusted. The said sleeve G is provided with a downwardly-extending curved arm, I, the lower end of which is bent in an outward and forward direction, as shown, and forms a spindle or axle for the hub J of the revolving colter K. The latter consists of a concavo-convex disk, to the inner convex side of which the hub J is bolted or otherwise suitably attached. The said hub is provided with a radial set-screw, L, the point of which is adapted to enter an annular groove, M, in the spindle or axle O at the termination of the arm I. In this manner the colter-disk is securely attached to the spindle or axle in such a manner as to give it perfect freedom of revolution and prevent the entrance into the bearing of dirt, whereby the operation might be obstructed.

The operation and advantages of this invention will be readily understood from the foregoing description, taken in connection with the drawings hereto annexed. The arm I, which forms or carries the spindle of the colter-hub, is curved in such a direction as to hold the colter about parallel to the mold-board of the plow. As the latter passes over the soil, the front edge of the colter will cut into the soil, while its rear edge will turn a furrow. The colter may be adjusted laterally with relation to the plow by moving the sleeve G upon the arm F, and vertically by adjusting the strap C in the clip D.

The construction of the device is simple and inexpensive, its operation is efficient, and it can be readily attached to any ordinary plow-beam.

I am aware that it is not broadly new to construct revolving and concave colters for plows, and I do not claim such construction; but

I claim and desire to secure by Letters Patent—

In a connecting device for attaching a colter to a plow-beam, the combination, with the

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curved arm I, provided with annular grooved  
axle M, flat rectangular sleeve G, and set-  
screw H, of the arm F, having a lower U-  
shaped portion and a vertical or shank por-  
5 tion, and the clip D, for securing said arm to  
the plow-beam, substantially as and for the  
purpose set forth.

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

WILLIAM A. WHITNEY.

Witnesses:

SARAH D. WELD,  
HENRY WELD.