No. 800,256. PATENTED SEPT. 26, 1905.

J. A. WOOD.

COMBINED WHEEL AND COLTER ATTACHMENT.

APPLICATION FILED OCT. 5, 1904.

Fig. 1.

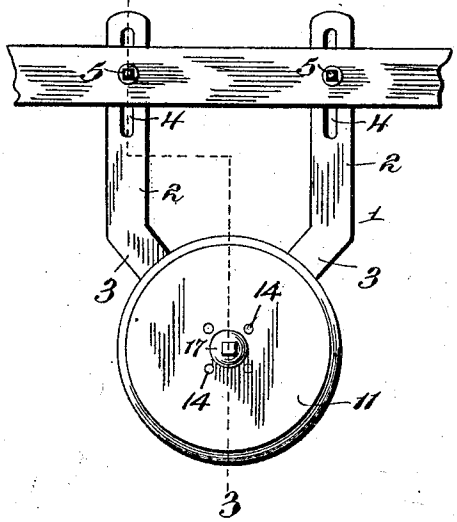


Fig. 2.

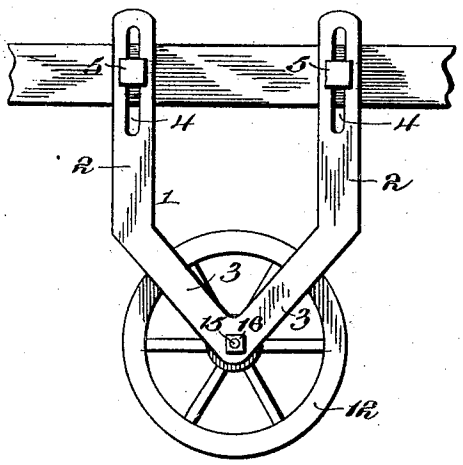


Fig. 3.

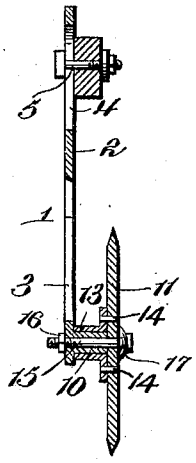


Fig. 5.



Fig. 4.

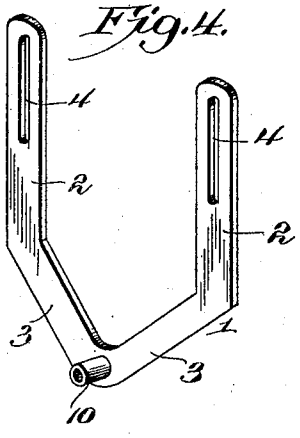
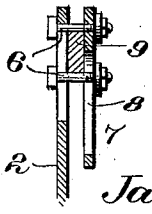


Fig. 6.



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COMBINED WHEEL AND COLTER ATTACHMENT.

No. 800,256. Specification of Letters Patent. Patented Sept. 26, 1905.

Application filed October 5, 1904. Serial No. 227,239.

To all whom it may concern:

Be it known that I, JAMES AARON WOOD, a citizen of the United States, residing at Portsmouth, in the county of Scioto and State of Ohio, have invented a new and useful Combined Wheel and Colter Attachment, of which the following is a specification.

The invention relates to a combined beam-wheel and colter attachment for plows.

The object of the present invention is to improve the construction of devices for attaching rolling colters and wheels to plow-beams and to provide a simple, inexpensive, and efficient device of great strength and durability adapted to be applied to either a wooden or metal plow-beam and capable of enabling a wheel or a rolling colter to be arranged at either side of the beam, thereby obviating the necessity of providing right and left hand attachments.

With these and other objects in view the invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claim hereto appended, it being understood that various changes in the form, proportion, size, and minor details of construction within the scope of the claims may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawings, Figure 1 is a side elevation of a device constructed in accordance with this invention and illustrating the manner of attaching a rolling colter to a wooden plow-beam. Fig. 2 is a similar view illustrating the manner of applying the wheel to a wooden plow-beam. Fig. 3 is a vertical sectional view on the line 3 3 of Fig. 1. Fig. 4 is a detail perspective view of the adjustable frame or bracket. Fig. 5 is a detail view illustrating the construction of the clip-plates for connecting the adjustable frame or bracket to a metal plow-beam. Fig. 6 is a detail sectional view illustrating the manner of securing the adjustable frame or bracket to a metal plow-beam.

Like numerals of reference designate corresponding parts in all the figures of the drawings.

1 designates an adjustable frame or bracket composed of two sides having parallel upper portions 2 and lower inclined portions 3, connected at their adjacent ends. The upper portions 2 of the adjustable frame or bracket are provided with vertical slots 4 for the reception of bolts 5 for securing the frame or bracket to a wooden plow-beam. The bolts pierce the beam, as shown in Figs. 1 and 2, and are adapted to clamp the frame or bracket at any desired adjustment. When the frame or bracket is mounted on a metal beam, the sides are clipped to the beam by means of bolts 6, arranged in pairs and passing through the sides of the frame or bracket and through clip-plates 7. The clip-plate 7 is provided at its upper end with a perforation to receive the upper bolt, and it is provided with a longitudinal slot 8 to receive the lower bolt, the slot being provided to permit the adjustment of the lower bolt. By this construction the bolts 6 are adapted to be arranged at the upper and lower edges of the plow-beam 9, as clearly shown in Fig. 6.

The adjustable frame or bracket is provided at the apex formed by the lower inclined portions 3 with a horizontal tubular spindle 10, adapted to receive the hub of either a rolling colter 11 or a wheel 12. The inclined sides or portions 3 taper to a point, which is located directly beneath the center of the frame or bracket and to which the colter or wheel is secured. By this particular construction the frame or bracket is rendered reversible and is adapted to be changed from one side of a plow-beam to the other without altering the position of the colter or wheel with relation to the sides of the frame or bracket. Also the tapered lower portion of the bracket will not interfere with the vegetation under cultivation. Furthermore, the reversal of the frame or bracket will not move the colter or wheel backward or forward on the plow-beam and will not necessitate any adjustment of the said frame or bracket to correct such a change of position of the colter or wheel. The rolling colter or cutter is provided with a hub 13, riveted or otherwise secured to the colter and arranged on the tubular spindle 10. The hub is provided at its inner end with an attachment-flange, which is fitted against the colter or cutter and which is secured to the same by rivets 14. The rolling colter or cutter is retained on the tubular spindle by a bolt 15, provided with a nut 16 for engaging the frame or bracket. The hub fits against the adjacent face of the reversible bracket or frame, and the outer end of the spindle fits against the rotary element 11, the rotary element being provided with a bolt-opening of less diameter than the bearing-opening of the hub. By this construction and arrangement the ro-

tary element is firmly mounted on the reversible bracket or frame. A washer 17 is interposed between the head of the bolt and the outer face of the colter or cutter, as clearly shown in Fig. 2.

The device is adapted to be used on either side of a plow-beam and is capable of being readily attached to either a wooden or metal beam and is adapted to permit either a rolling colter or a beam-wheel to be employed. It obviates the necessity of providing right and left hand brackets for plows, and it will enable a colter or cutter to be readily substituted for a beam, and vice versa.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The combination with a plow-beam, of a reversible frame or bracket adapted to be arranged at either side of the plow-beam and formed of two sides having parallel upper portions presenting opposite flat faces to fit against the side faces of the plow-beam, the lower portions of the sides being inclined and meeting at the bottom of an angle, a horizontally-disposed hollow spindle rigid with and projecting from one of the side faces of the frame or bracket at the angle or apex, a rotary element having a hub arranged on the spindle and fitting against the adjacent face of the frame or bracket, the outer end of the spindle being fitted against the inner side face of the rotary element, and the latter being provided with an opening of less diameter than the bearing-opening of the hub, and a fastening device passing through the opening of the rotary element and through the hollow spindle and provided with means for engaging the said rotary element and the frame or bracket.

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

JAMES AARON WOOD.

Witnesses:
H. H. POETKER,
CHAS. L. STORCK.