

W. F. COCHRANE.
DOUBLETREE-SOCKET.

No. 174,351.

Patented March 7, 1876.

Fig. 1.

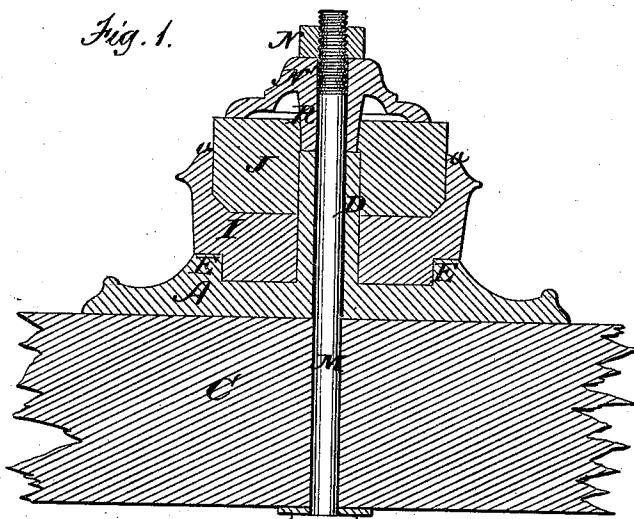


Fig. 2.

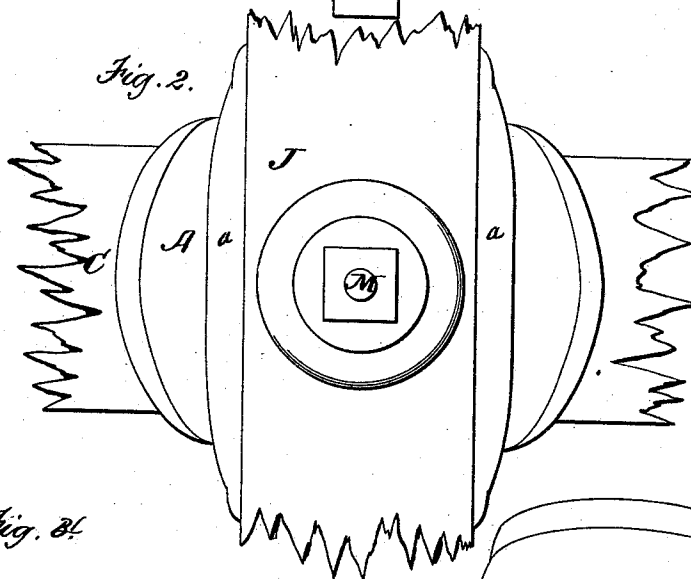


Fig. 3.

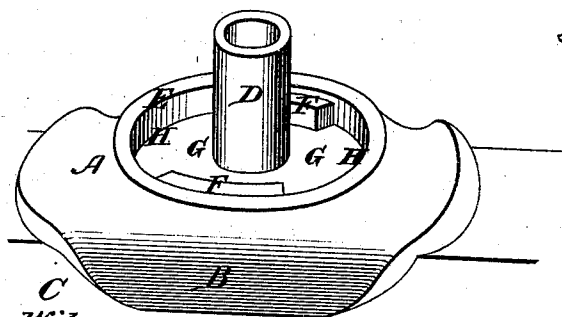
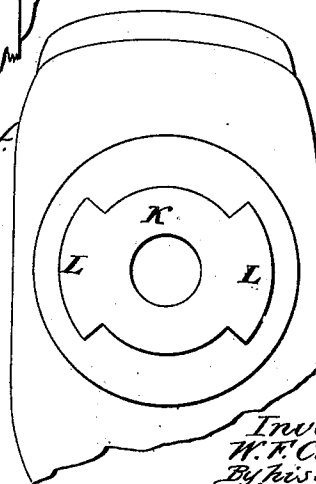


Fig. 4.



Witnesses.
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UNITED STATES PATENT OFFICE.

WILLIAM F. COCHRANE, OF LA FAYETTE, INDIANA.

IMPROVEMENT IN DOUBLE-TREE SOCKETS.

Specification forming part of Letters Patent No. **174,351**, dated March 7, 1876; application filed February 19, 1876.

To all whom it may concern:

Be it known that I, WILLIAM F. COCHRANE, of La Fayette, in the county of Tippecanoe and State of Indiana, have invented a new and Improved Double-Tree Socket for Reapers and Mowers; and I do hereby declare the following to be a full and exact description of the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a vertical section of the socket. Fig. 2 is a top plan view, showing it applied to a double-tree and draft-pole. Fig. 3 is a perspective view of the lower portion of the socket, and Fig. 4 is an inverted plan view of the upper portion.

Similar letters of reference in the accompanying drawings denote the same parts.

My invention has for its object to provide an improved socket for connecting the double-tree to the draft-pole of a reaper or mower, so as to dispense with the guide or holding chains, and at the same time afford the necessary leverage or support for turning the machine.

To this end the invention consists in constructing the socket in two parts, fitting the double-tree and draft-pole, respectively.

In the accompanying drawings, A is the lower portion of the socket, cast with side flanges B to fit over the sides of the draft-pole C, as shown, for the purpose of preventing the socket from turning thereon. The upper surface of the part A is cast with a central vertical thimble, D, a circular flange, E, concentric therewith, and with two segments, F F, within the flange upon opposite sides of the thimble. By this means a recess, G, is formed around the thimble, extending laterally to the segments, while between the ends of the latter, in front and rear of the thimble, it extends to the flange and forms the recesses H. The upper part I of the socket is also cast with side flanges *a a* to fit over the double-tree J at an angle with the part A, and with a central opening to receive the thimble D, which also extends into the double-tree. The under surface of this part I is cast in the form

of a flat circular plate to rest upon the circular flange of the part A, and with a central boss, K, from the front and rear sides of which project the abutments L. The boss and abutments fit within the recesses G H, and the two parts are pivoted together by a bolt, M, passing upward through the draft-pole, the thimble D, and the double-tree, its upper end receiving a large nut, N, which is set down firmly against a washer, N', upon the double-tree. The under side of this washer is formed with a short thimble, R, which enters the double-tree and bears upon the upper end of the thimble D to prevent the parts from binding. The recesses H are made somewhat larger than the abutments, so that the latter shall have considerable movement therein to permit the necessary oscillations of the double-tree. When the latter has turned upon the thimble D a sufficient distance the abutments strike against the ends of the segments F, and arrest its further movement. When, therefore, the direction of the machine is to be changed the double-tree is prevented from swinging back in contact with the wheels or other parts without the employment of guide or holding chains, which are clumsy and costly.

Having thus described my invention, what I claim as new is—

1. The part A, having flanges B B E, recesses G G H, segments F F, and sleeve D, in combination with the part I, having flanges *a a* on its upper face, and a central boss, K, having abutments L L on its under face, substantially as described, and for the purpose set forth.

2. The part A, having a sleeve, D, in combination with the part I, washer N', having the thimble R on its lower face, and screw-bolt M, substantially as and for the purposes set forth.

WM. F. COCHRANE.

Witnesses:

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