(No Model.)

W. A. LEE.

PLOW.

No. 262,062. Patented Aug. 1, 1882.

Fig. 1.

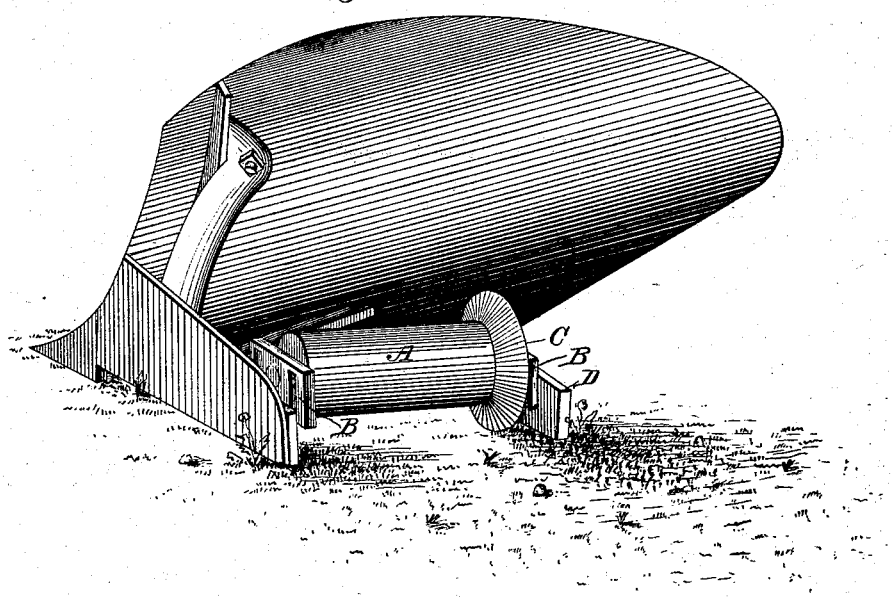
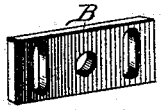


Fig. 2.



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UNITED STATES PATENT OFFICE.

WILLIAM A. LEE, OF WINFIELD, KANSAS.

PLOW.

SPECIFICATION forming part of Letters Patent No. 262,062, dated August 1, 1882.

Application filed May 18, 1882. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM A. LEE, a citizen of the United States, residing at Winfield, in the county of Cowley and State of Kansas, have invented a new and useful Improvement in Plows, of which the following is a full, clear, and exact description, such as will enable others skilled in the art to which it pertains to make and use the same.

The object of the invention is to provide a plow of improved construction, whereby the friction of the plow in operation will be reduced to the minimum.

The invention consists in the combinations of parts hereinafter set forth, and pointed out in the claims.

In the drawings, Figure 1 is a rear perspective view of a plow constructed in accordance with my invention. Fig. 2 is a detached view, illustrating one of the slotted plates which form the bearings for the roller.

A represents an anti-friction roller, provided at one end with a beveled flange, C. The roller may be either hollow or solid, and is of a length corresponding to the width of the plow. Its diameter will vary with the size of the wheels of sulky-plows with which it may be used, the object being to make the roller large enough to insure a sufficiently slow travel to prevent the heating of the journals. When used with a walking-plow the diameter of the roller is made to correspond thereto. The flange C is preferably formed integral with the roller A. When in operation the flange sinks into the ground until the roller comes in contact with the ground, and as the flange is beveled on the side nearest the landside of the plow said flange receives the friction which would otherwise come upon the landside.

B B represent bearing-plates secured adjustably on the inner sides respectively of the landside and the fallow landside or sole D. Each of said plates is provided centrally with a bearing to receive the journals of the roller, and with vertical elongated slots, by means of which the plates are secured, so that they may be adjusted to raise or lower the roller. Thus the plow may be thrown upwardly from the rear to lower the plow-point and the depth of the furrow regulated.

The fallow-landside D, in addition to serving as a support for the bearing-plate B, serves as a guard to prevent dirt from falling in front of the roller. It is secured in any suitable manner to the under side of the mold-board and adjacent parts of the plow.

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

1. The combination, with a plow, of a roller placed horizontally in the rear of the mold-board, and provided at one end with a beveled flange, and journaled in plates adapted to be adjustably bolted to the plow, substantially as set forth.

2. The combination, with a plow having a fallow landside or sole D secured opposite the landside of the plow, and the slotted bearing-plates B, adjustably bolted to the inner sides of said landside and fallow-landside, of a roller provided at one end with a beveled flange and journaled in said bearing-plates, substantially as set forth.

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