(No Model.)

J. S. HUBER.

REVERSIBLE PLOW.

No. 412,091. Patented Oct. 1, 1889.

Fig. 1.

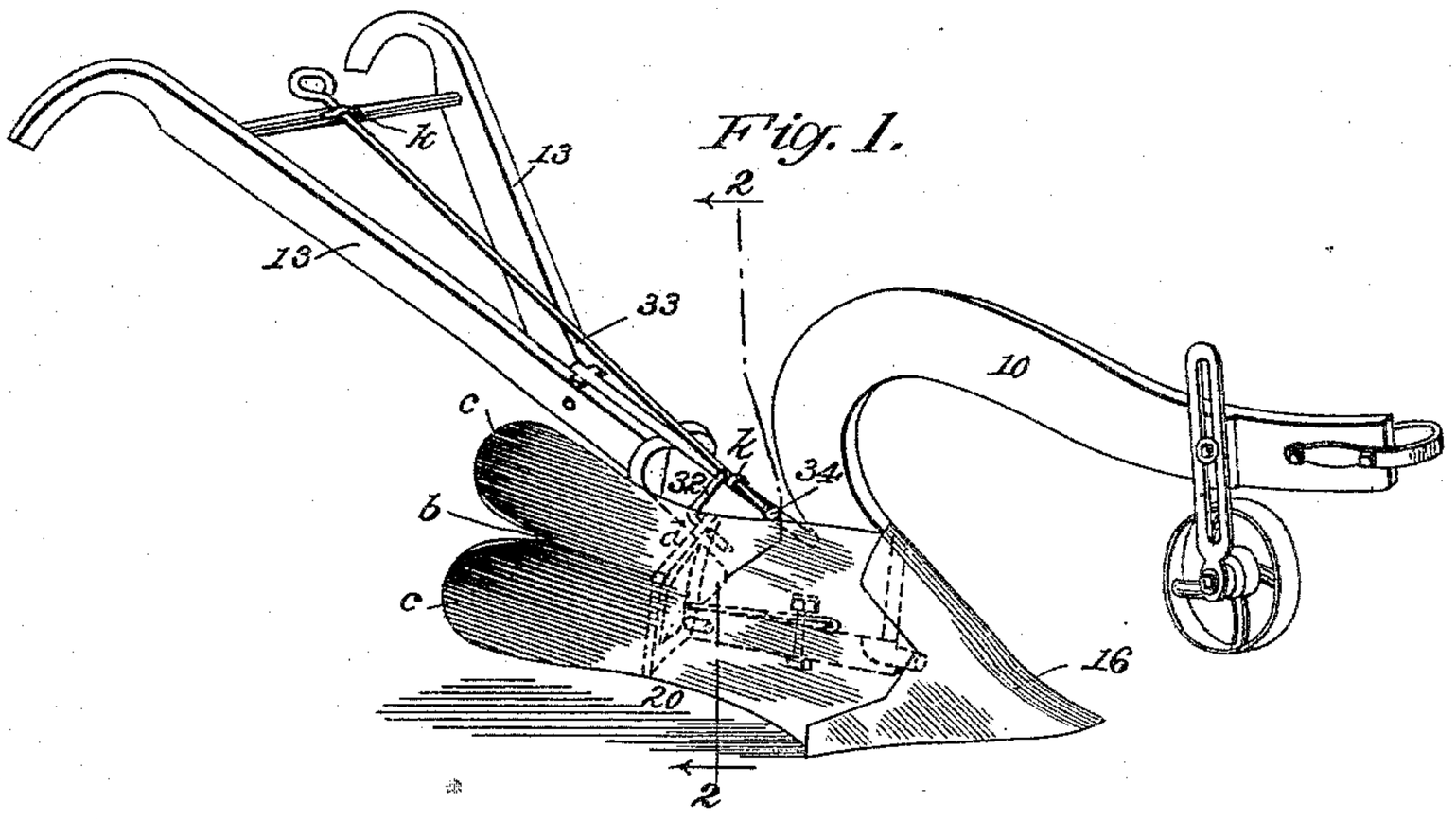
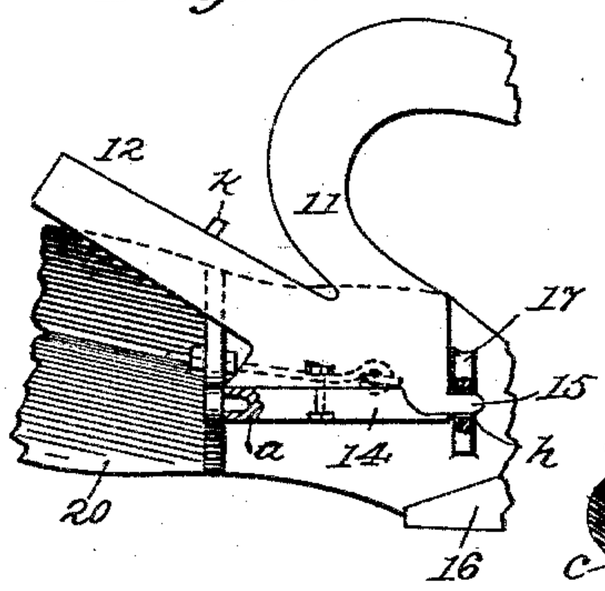


Fig. 2.

Fig. 3.



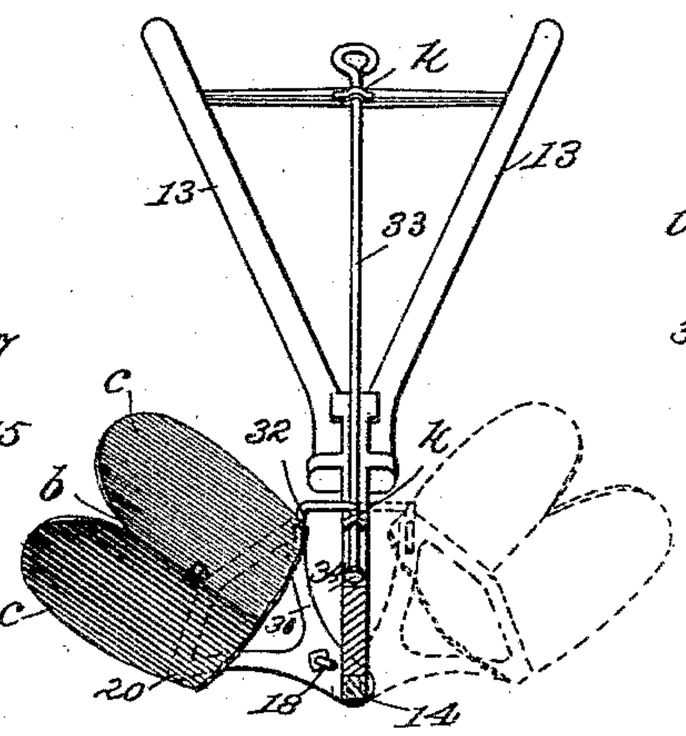


Fig. 4.

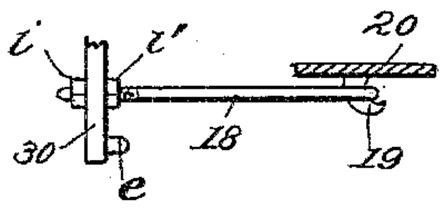
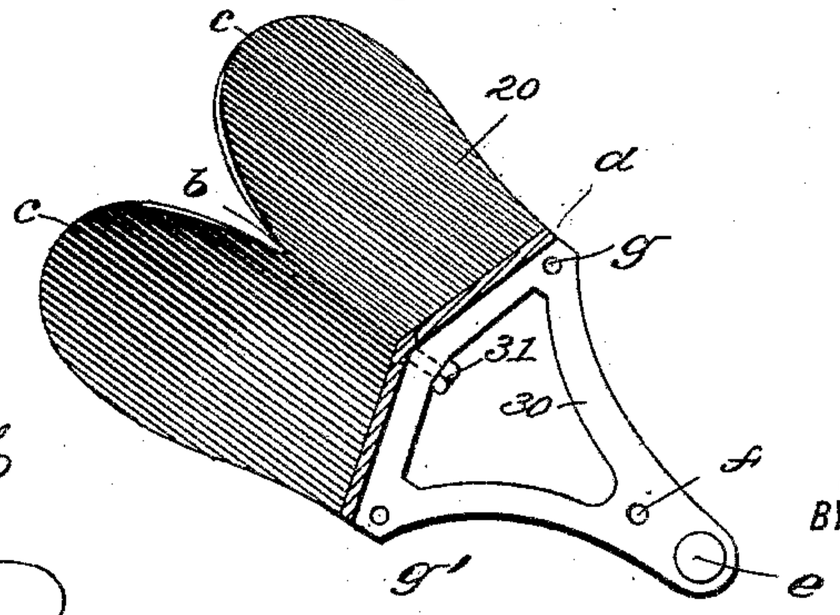


Fig. 5.



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JEREMIAH S. HUBER, OF PRICEBURG, PENNSYLVANIA.

REVERSIBLE PLOW.

SPECIFICATION forming part of Letters Patent No. 412,091, dated October 1, 1889.

Application filed May 28, 1889. Serial No. 312,409. (No model.)

To all whom it may concern:

Be it known that I, JEREMIAH S. HUBER, of Priceburg, in the county of Lackawanna and State of Pennsylvania, have invented a new and Improved Reversible Plow, of which the following is a full, clear, and exact description.

This invention relates to plows of the reversible or swivel class, the object of the invention being to provide for the easy adjustment of the mold-board, and at the same time to so form the parts as to obviate the formation of a "dead" furrow.

To the ends above named the invention consists, essentially, of a mold-board formed with two rearwardly-extending concave-faced wings, a yoke arranged for connection with the inner face of the mold-board and provided with a stud which rides in a socket formed in the heel of the standard, a bolt carried by the beam and arranged to engage apertures formed in the yoke, a hook extending forward from the yoke to engage with a projection on the mold-board, and a stud extending forward from the standard and entering an aperture formed in a projection which extends inward from the mold-board, all as will be hereinafter fully explained, and specifically pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar figures and letters of reference indicate corresponding parts in all the views.

Figure 1 is a perspective view of a plow embodying my invention. Fig. 2 is a cross-sectional view on line 2 2 in Fig. 1. Fig. 3 is a detail view, in partial section, of a portion of a plow, the mold-board being represented upon the left of the standard. Fig. 4 is a detail view illustrating the connection between the yoke and the mold-board; and Fig. 5 is an enlarged detail view of the yoke, the mold-board being shown in section.

In the drawings, 10 represents the beam; 11, the standard, which is formed with a rearwardly-extending projection 12, to which the handles 13 are bolted. To the under side of the standard 11 is bolted a wear plate or block 14, in the heel of which there is formed a recess *a*, and the standard is formed with a forwardly-extending stud 15. The outer face of the forward portion of the mold-board 20 is concave, and to this concave section there is bolted the share 16. The contour of the outer face of the mold-board changes toward the rear from a single concave to a double concave, such double concave being divided by a central ridge *b*, upon either side of which there are wings *c*, the mold-board being angular at the point *d*, such angle conforming with the angle of a yoke 30, which is secured to the inner face of the mold-board by a bolt 31. The yoke 30 is formed with a stud *e* and with apertures *f*, *g*, and *g'*, as best shown in Fig. 5, the stud *e* being arranged to enter the aperture *a* of the block or plate 14, the forward portion of the mold-board and the share carried thereby being supported by the stud 15, which enters an aperture *h* formed in a projection 17, which is integral with and extends inward from the mold-board.

In order that the lower end of the yoke 30 may be held from springing, I provide a hooked bolt 18, which passes through the yoke-aperture *f* and engages a hook or projection 19, that extends laterally from the inner face of the mold-board, a proper adjustment of the hooked bolt 18 being secured through the medium of nuts *i* and *i'*, the nut *i* being arranged in advance and the nut *i'* to the rear of the yoke 30, the arrangement being such that by properly adjusting the nuts the studs 15 and *e* will be held within their apertures, as will be readily understood.

In order that the mold-board may be held in rigid position at either side of the beam, I provide a locking-bolt 32, which is connected to a rod 33, said rod being held by eyes *k* and *k'*, that are arranged as shown in Figs. 1 and 2, all accidental displacement of the rod being prevented by providing a stop 34 at the lower end of the rod. The bolt 32 is arranged so that when the mold-board is upon the right of the standard it may be passed into the aperture *g* of the yoke 30, and to reverse the plow it is only necessary to draw up the rod to free the bolt from engagement with the yoke, and then swing the mold-board to the opposite side of the standard in the ordinary manner, after which the bolt is reversed and passed through the aperture *g'*.

By the peculiar formation of the mold-board, which approximates in shape a pair of locust-wings, I am able to turn a complete

furrow on either side, as is done by the ordinary flat-furrow swivel-plow.

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

1. In a reversible plow, the combination, with a mold-board provided with an apertured projection 17, of a yoke 30, bolted to the inner face of the mold-board, a stud formed upon the yoke and extending forward therefrom, a plow-standard in the heel of which there is an aperture, the plow-standard being provided with a forwardly-extending stud arranged to enter the aperture in the mold-board projection, the yoke-stud being arranged to enter the aperture in the plow-heel, a reversible supporting-bolt 32, said bolt being arranged to engage the yoke, and a hooked bolt 18, which engages the yoke and a hook formed upon the mold-board, substantially as described.

2. A standard 11, integral with the plow-beam and with a handle-plate 12 and a forwardly-projecting stud, and having an eye *k* upon said handle-extension, in combination with the reversible mold-board, the yoke, and the sliding and rotating locking-rod 33, having a stop 34, and a branch crank-bolt 32, adapted to enter either of the mold-board apertures *g g'*, substantially as set forth.

JEREMIAH S. HUBER.

Witnesses:
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