(No Model.) 2 Sheets—Sheet 1.

W. S. THURLOW.

ATTACHMENT FOR PLOWS.

No. 349,264. Patented Sept. 14, 1886.

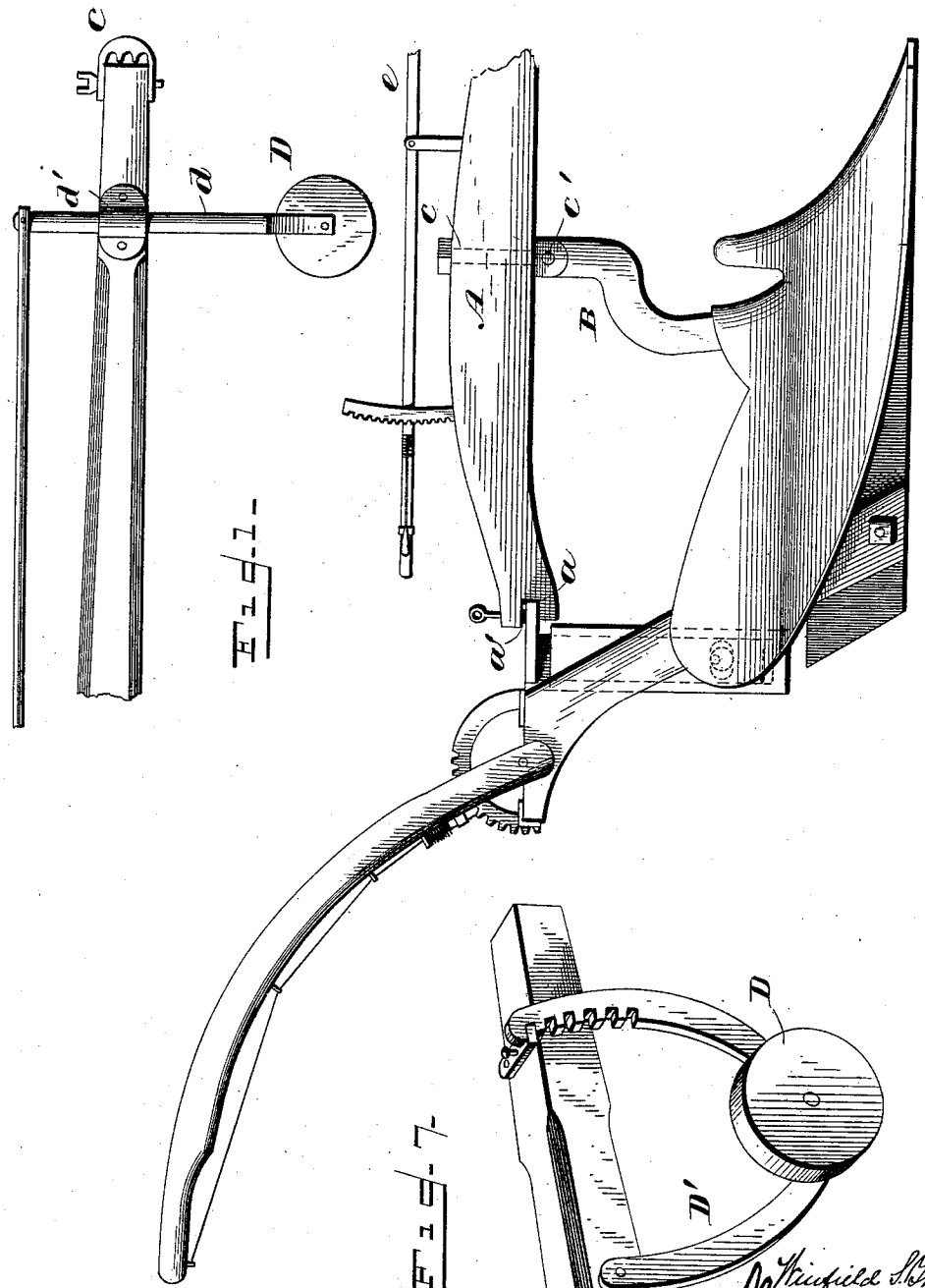


Fig. 1.

Fig. 2.

WITNESSES

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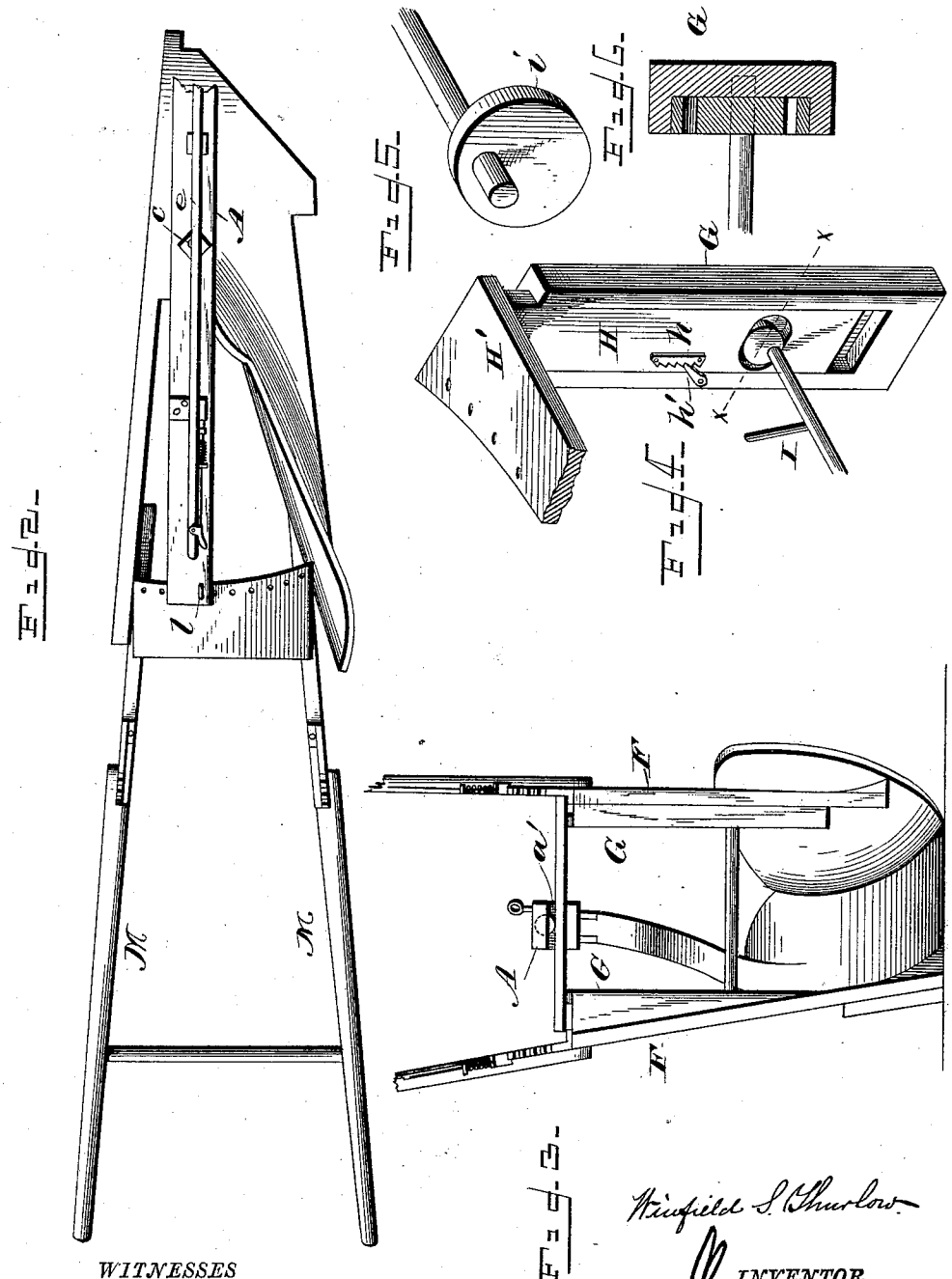


Fig. 2.

Fig. 5.

Fig. 4.

Fig. 3.

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UNITED STATES PATENT OFFICE.

WINFIELD S. THURLOW, OF NORWOOD, MASSACHUSETTS.

ATTACHMENT FOR PLOWS.

SPECIFICATION forming part of Letters Patent No. 349,264, dated September 14, 1886.

Application filed July 1, 1886. Serial No. 206,825. (No model.)

To all whom it may concern:

Be it known that I, WINFIELD S. THURLOW, a citizen of the United States of America, residing at Norwood, in the county of Norfolk and State of Massachusetts, have invented certain new and useful Improvements in Attachments for Plows; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

My invention relates to certain new and useful improvements in plows, the object of the same being to provide a plow the parts of which may be readily adjusted to suit different requirements; and my invention consists in the special construction and combination of the parts, as will be hereinafter fully set forth, and specifically pointed out in the claims.

In the accompanying drawings, which illustrate my invention, Figure 1 is a side view of a plow constructed in accordance with my invention. Fig. 2 is a plan view. Fig. 3 is a rear view. Fig. 4 is a detail perspective view of the means for adjusting the rear end of the plow-beam. Fig. 5 is a detail perspective view of the adjusting-cam detached. Fig. 6 is a sectional view taken through the line *x x* of Fig. 4, and Fig. 7 is a detail perspective view of a modification of the guide-roller.

A refers to the plow-beam, which is provided at its rear end with a transverse recess, *a*, within the upper side of which is recessed an anti-friction roller, *a'*. At the point where the beam A is attached to the plow-standard B the beam is provided with a bolt, *c*, which is provided with a bifurcated head, *c'*, within which head the upper end of the standard B is pivotally secured. The forward end of the beam is also provided with a clevis, C, of ordinary construction, and rear of the same a guide-roller, D, is secured, so that it can be adjusted vertically, when desired.

d refers to a vertical bar, to which the guide-roller D is attached, said bar being secured within a plate or bearing, *d'*, which is attached to one side of the plow-beam. The bar *d* may be adjusted vertically by raising or depressing the pivoted lever *e*, the rear end of said lever having attached thereto a spring locking-bar, which engages with a serrated bar, which extends upwardly from the plow-beam. If desirable, the guide-roller D may be attached to a pivoted bar, D', one end of which is provided with notches which will engage with the latch attached to the plow-beam for holding the same after being adjusted, such modified construction being fully shown in Fig. 7.

The mold-board and landside of the plow, which are of ordinary construction, have rigidly secured thereto rearwardly-inclined bars or standards F F, to the inner side of which are securely attached vertical guide-plates G, which are provided with central recesses, within which lie the downwardly-projecting members H of the cross-bar H', which is curved at its forward end, and provided with a series of perforations, as shown. The guide-plates G are provided at opposite points with perforations, within which the projecting ends of a shaft, I, will lie, said shaft having rigidly attached thereto cams *i*, which lie within transverse slots in the depending portions H, so that when said shaft I is turned said depending portions H will be moved vertically. The depending portions H, which slide within the guide-plate, are provided with rack-bars *h*, with which engage the ends of spring-bolts *h'*, attached to the edges of the guide-plate, so as to hold them in position after being adjusted. The transverse bar or shaft I is also provided with a handle or other means for turning the same. The end beam, A, which is provided with a recess, will embrace the curved edge of the plate H', and the beam may be adjusted laterally thereon by removing the pin *l* and swinging said beam to one side. When it is desired to adjust the beam vertically, it can be done by turning the bar I, after first throwing the locking-bolts thereof out of position. The handles M M are pivotally attached to the upper ends of the inclined standards F F, and said handles carry suitably-constructed spring-bolts, which engage with curved rack-bars for holding them at a proper inclination.

It will be noted that by employing the means hereinbefore described the plow-beam can be

adjusted either vertically or laterally, and also that the handles can be adjusted to suit the requirements of the plowman.

I claim—

1. In a plow having a beam pivotally attached to the forward standard thereof, said beam having its rear portion recessed, as shown, a vertically-adjustable plate, H′, secured to the rear standard of the plow, the beam being adapted to adjust laterally thereon, substantially as shown, and for the purpose set forth.

2. In a plow, the combination, with the beam A, pivotally attached to the front standard, and provided with a transverse recess, *a*, at its rear end, of the recessed guide-plates G, attached vertically to the rear standards of the plow, a plate, H′, having the front portion curved, said portion being adapted to lie within the recesses in the plow-beam, depending plates H, with transverse recesses, and cams for adjusting the same, substantially as shown, and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

WINFIELD S. THURLOW.

Witnesses:
WM. A. MORRELL,
C. M. OLFENE.