

(Model.)

C. HANSON.

PLOW.

No. 271,844.

Patented Feb. 6, 1883.

Fig. 1.

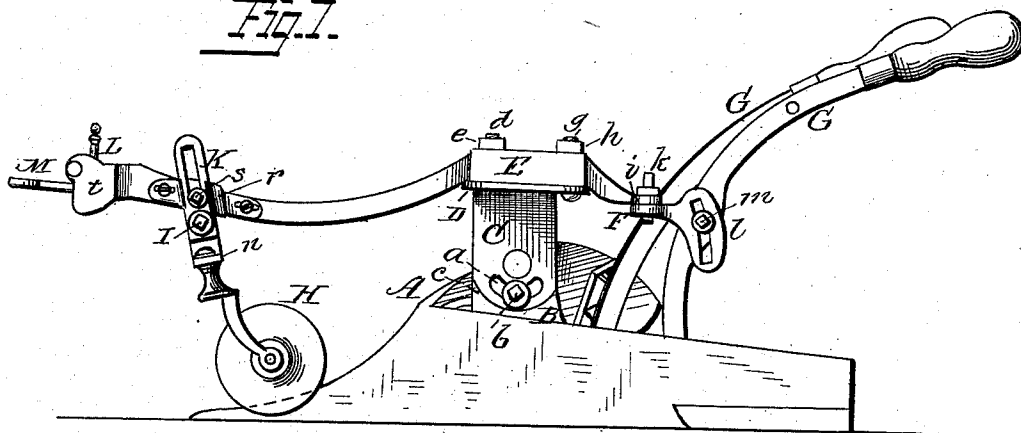


Fig. 2.

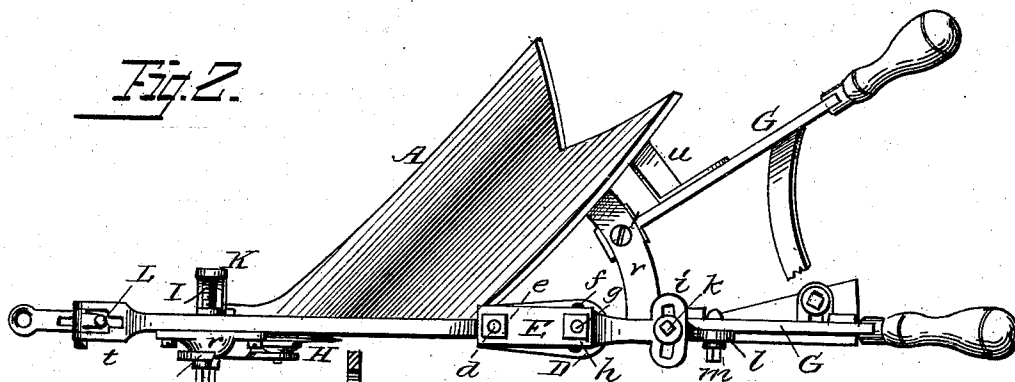


Fig. 3.

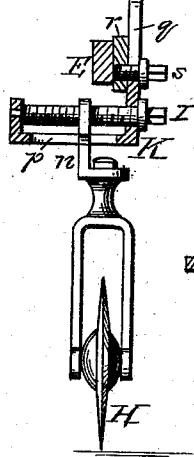
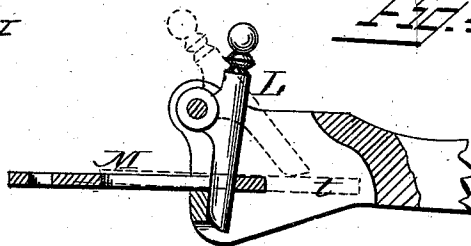


Fig. 4.



WITNESSES
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UNITED STATES PATENT OFFICE.

CHARLES HANSON, OF ROCK ISLAND, ILLINOIS, ASSIGNOR OF ONE-HALF
TO FREDERICK APPELQUIST, OF SAME PLACE.

PLOW.

SPECIFICATION forming part of Letters Patent No. 271,844, dated February 6, 1883.

Application filed October 19, 1882. (Model.)

To all whom it may concern:

Be it known that I, CHARLES HANSON, a citizen of the United States, residing at Rock Island, in the county of Rock Island and State of Illinois, have invented certain new and useful Improvements in Plows; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a side elevation of a plow constructed in accordance with my invention; Fig. 2, a top plan view thereof; Fig. 3, a detail view, on an enlarged scale, of the wheel-colter and attachments; and Fig. 4, a detail view, partly in section, of the coupling pin and link.

The present invention has relation to certain new and useful improvements in plows, and refers more particularly to that class for which a patent was granted to me September 19, 1882, No. 264,828.

The invention consists in the details of construction, substantially as shown in the drawings and hereinafter described and claimed.

In the accompanying drawings, A represents the plow constructed substantially in the manner described and claimed in my former patent. To the standard B is pivoted an extension, C, having near its lower end a curved slot, *a*, through which passes a clamping-screw, *b*, and also through a screw-threaded hole in the standard.

The extension C, which I shall term a "support," has its lower edge curved to conform to the segmental shoulder *c* upon the standard B, and at its upper end has secured to it or formed with a wide bearing-plate, D, for supporting the plow-beam E. This plate D has rigidly connected to it an upwardly-projecting bolt, *d*, for fastening to the plate the plow-beam by a nut, *e*, engaging with the screw-threaded end of the bolt, said bolt passing up through a hole in the plow-beam. The plate D is formed at its rear end with a curved slot, *f*, through which passes a headed screw-bolt, *g*, said bolt also passing up through a hole in the plow-beam E, and has upon its end a nut, *h*. The plow-beam E, at its extreme rear end, terminates in

a transverse slotted plate, *i*, which is held to a plate, F, by a suitable clamping-screw, *k*, passing through said plates. The plate F has a slotted extension, *l*, by which it is connected by clamping-screw *m* to the side of one of the plow-handles G.

By the above-described manner of supporting and attaching the plow-beam its height can be regulated by loosening the clamping-screws *b m*, which will admit of the support C being moved on its pivot in a direction either to the right or left, describing the arc of a circle. The plow-beam can be also moved and adjusted laterally in either direction by loosening the clamping-screw *k* and the nuts *e h* upon the bolts *d g*. When the plow-beam is adjusted to the proper position it is firmly held stationary by tightening the clamping-screws and nuts against their bearings.

The wheel-colter H is swiveled to an arm, *n*, which has a screw-threaded hole for the passage of a screw-rod, I. This screw-rod has its bearings in a right-angle plate, K, in such manner as to admit of its freely turning therein and causing the arm *n* to travel upon the screw-threaded portion of the rod. The angle-plate K has a horizontal slot, *p*, and upright or vertical slot *q*, the former serving as a guide to the arm *n*, the arm passing through the slot and moving horizontally therein by turning the screw-rod. The upright portion of the angle-plate K is held to a bracket, *r*, by clamping-screw *s*, the angle-plate having flaring sides to correspond in form to a dovetail slot in said bracket, and in which the upright portion of the plate rests. The bracket *r*, if desired, may have elongated slots at its ends to admit of its adjustment on the plow-beam by the usual clamping-screws passing through the slots and beam.

The construction as above described admits of the colter H being set to the right or left, raised or lowered, as found desirable.

To the slotted end *t* of the plow-beam E is pivoted a weighted coupling-pin, L, for holding in engagement therewith a suitable link, M, to which the draft-chain is connected.

The manner of coupling is entirely automatic, dispensing with the usual clevis. The link, as it is forced in the slotted end of the

beam, raises the weighted pin as it enters to the position indicated in dotted lines, Fig. 4, when it will fall back to its normal position, and in doing so enter the link and couple it to the plow-beam.

The handle G at the right-hand side of the plow is bolted to the mold-board of the plow by the brace *u*, and to the under side of a lateral brace, *v*, while the handle at the left-hand side of the plow is bolted to the land-side-plate, forming a very strong and durable connection between the handles and plow.

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

1. The combination, with a plow-beam and a wheel-coltar swiveled to a laterally-adjustable standard-plate, of the angle-plate K, having slots *p q*, the traveling screw I, and a fastening device for holding the angle-plate adjusted to the plow-beam, substantially as and for the purpose set forth.

2. The plow-beam E, having at its rear end

a transverse slot, *i*, in combination with the slotted standard-extension C, formed with bearing-plate D, and adjustably connected to the standard B, and the plate F, having the slotted extension *l*, substantially as and for the purpose specified.

3. The plow-beam E, having the slotted rear extension, *i*, and the vertically-slotted clevis end *t*, in combination with the draft-link M and weighted coupling-pin L, substantially as and for the purpose set forth.

4. The colter H, swiveled to the arm *n*, in combination with the vertically-adjustable angle-plate K and screw-rod I, constructed to operate substantially as and for the purpose described.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

CHARLES HANSON.

Witnesses:

OLIVER OLSEN,
EDW. LIEBUECKE.