

No. 847,196.

PATENTED MAR. 12, 1907.

E. R. LOVELL.

PLOW.

APPLICATION FILED AUG. 21, 1906.

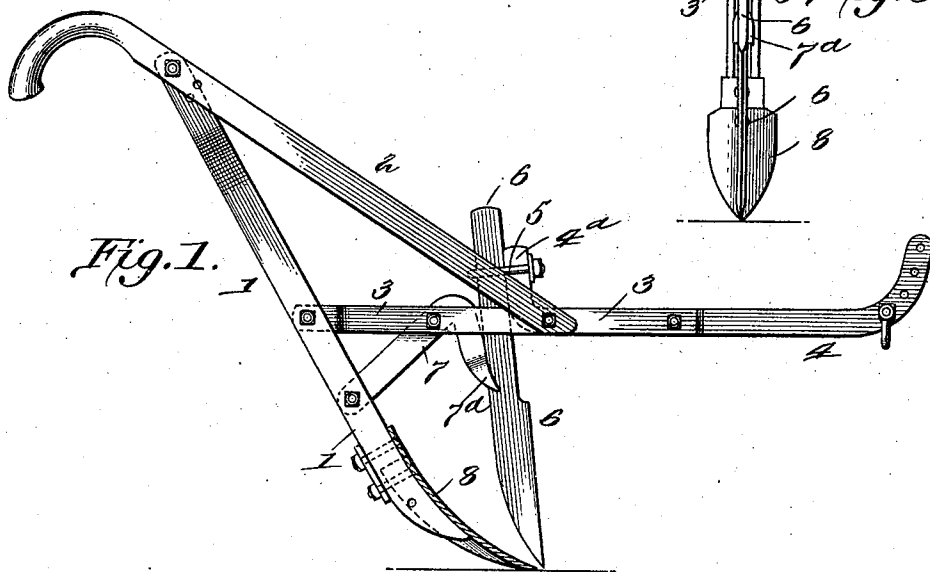
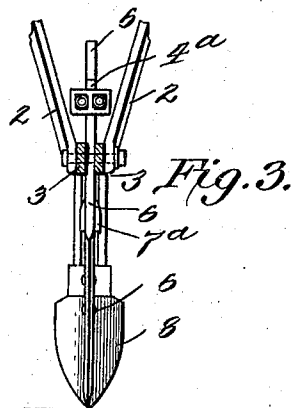
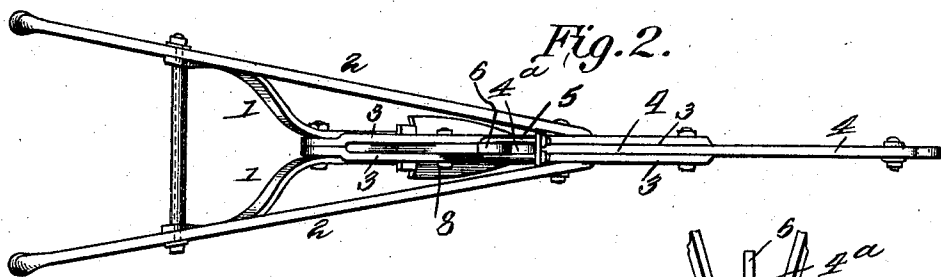
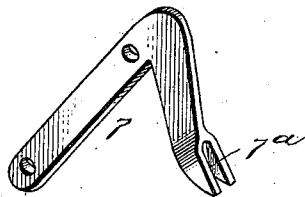


Fig. 4.



Witnesses:

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UNITED STATES PATENT OFFICE.

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PLOW.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ELBERT R. LOVELL, a citizen of the United States, and a resident of Brookhaven, in the county of Lincoln and State of Mississippi, have invented an Improved Plow, of which the following is a specification.

This invention relates particularly to the construction and arrangement of parts for the attachment and support of the colter.

The details of construction, arrangement, and combination of parts are as hereinafter described, and illustrated in the accompanying drawings, in which—

Figure 1 is a side view of my improved plow, the pointed shovel, forming part thereof, being shown in longitudinal section. Fig. 2 is a plan view. Fig. 3 is a transverse section of the plow-beam in front of the handles. Fig. 4 is a perspective view of the colter-brace.

The plow-stock 1 and handles 2 are secured to a beam 3, which is formed of two practically parallel bars, between whose front portions is arranged and secured a draft-bar 4, having its front end upturned and provided with holes for attachment of a clevis. Bolts secure the stock, handles, and draft-bar rigidly together; but provision is made for adjusting the rear ends of the handles higher or lower, as conditions may require. By such adjustment, as well as by the adjustment of the clevis up or down on the draft-bar, the plow may be made to run shallow or deeper, since the stock 1 will then be inclined more or less and the beam also inclined more or less to the horizontal. The rear end 4^a of the draft-bar 4 is bent upward, and the upwardly-extended shank of the colter 6 is detachably and adjustably secured to it by means of a U-shape screw-bolt 5, the same embracing the colter-shank and the part 4^a, as shown. The colter also requires to be supported or braced at a point below the beam, and for this purpose I employ the device 7. (See particularly Fig. 4.) The brace 7 is practically of right-angular form and is provided at the front end with a notch adapted to receive the rear edge of the colter, the other end being secured by a bolt be-

tween the bars constituting the stock 1. The apex or angle of the brace is similarly secured in rear of the colter between the bars constituting the beam. Thus constructed and arranged the device 7 not only firmly supports the lower portion of the colter, but its rear arm, which inclines downwardly, serves also as a grass rod or fender, as will be readily understood. It will also be seen that by provision of the notch in the front end of the brace 7 the colter may be adjusted higher or lower by simply loosening and again tightening the clamp 5. The construction and attachment of the brace are also such as to permit the adjustment of the cultivating devices up or down on the plow-stock. The cultivating devices proper are secured to the stock 1 by a bolt or bolts passing through them and between the two parts of said stock.

What is claimed is—

1. The combination, with a plow-stock, beam, and colter, of means for securing the shank of the colter, and the device for bracing and supporting the lower portion of the same, consisting of a bar whose front end engages the colter, its rear portion being rigidly secured to the rear portion of the plow-frame, as described.

2. The combination, with a plow-stock, beam, and draft-bar which is secured to the beam, and has its rear end upturned, of a colter arranged in rear of said upturned ends of the draft-bar, a device for clamping the colter thereto, and a colter-brace arranged in rear thereof and constructed in angular form, it being secured at its apex and rear end to the beam, and plow-stock, respectively, as described.

3. The combination, with a plow-stock and beam, of a colter connected with the beam, and a brace for said colter, the same being a bar constructed in angular form its front end engaging the colter and the apex and rear end thereof being secured to the beam and plow-stock, respectively, as described.

4. The combination, with a plow-stock, beam and an upwardly-projecting part attached to said beam, of a colter arranged in

rear of such upwardly-projecting part, a clamp for securing them together, and means for bracing and supporting the lower portion of the colter, as described.

- 5 5. The combination, with a plow-stock, beam, and a colter which is vertically adjustable, and means for clamping it in place, of a support for the blade, or lower portion, of

the colter, the same consisting of a bar provided at its front end with a slot to receive the colter, and devices securing it rigidly to the beam and plow-stock, as described.

ELBERT R. LOVELL.

Attest

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