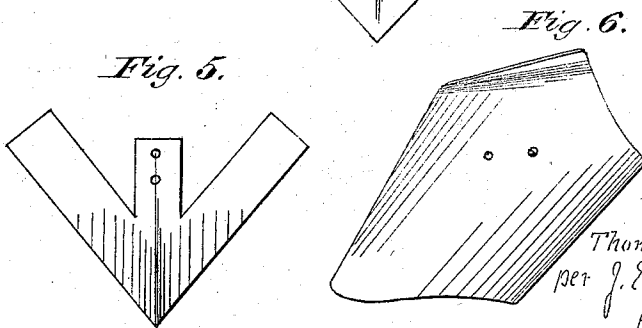
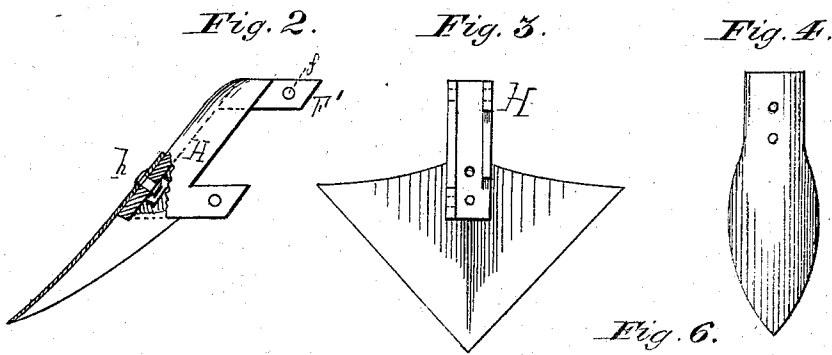
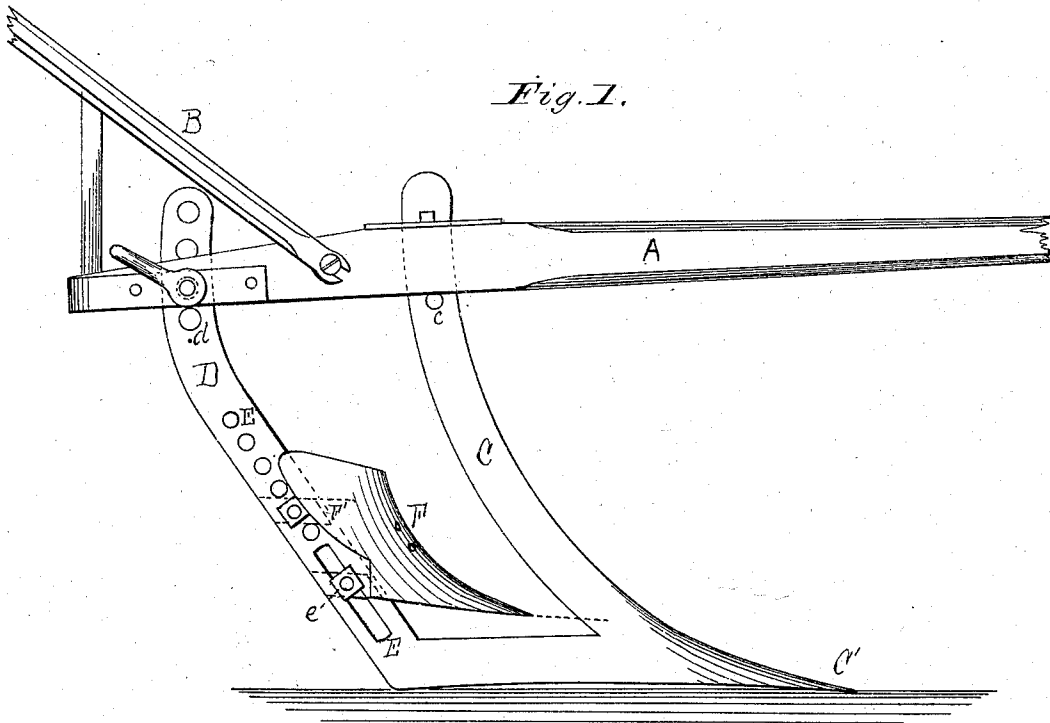


T. L. COTTEN.
Plows.

No. 137,894.

Patented April 15, 1873.



Witnesses:
Edwin James,
W. E. Gordon,

Inventor:
Thomas L. Cotten,
per J. E. J. Holmead
Attorney.

UNITED STATES PATENT OFFICE.

THOMAS L. COTTEN, OF WATER VALLEY, MISSISSIPPI, ASSIGNOR TO
MARTHA J. COTTEN, OF SAME PLACE.

IMPROVEMENT IN PLOWS.

Specification forming part of Letters Patent No. **137,894**, dated April 15, 1873; application filed
January 29, 1873.

To all whom it may concern:

Be it known that I, THOMAS L. COTTEN, of Water Valley, in the county of Yalabusha and State of Mississippi, have invented certain new and useful Improvements in Plows, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing and the letters of reference marked thereon making part of this specification, in which—

Figure 1 is a side view. Figs. 2, 3, 4, 5, and 6 are detached views of different forms of blades, which may be attached to the plow in lieu of the mold-board, Fig. 1.

My present invention is an improvement on the subsoil-plow patented to me July 19, 1870. In the present instance, as in the patent referred to, the colter and its brace-bar are so attached to the beam as to be independently adjustable through slots or a series of holes in their shanks, and whereby the colter and its brace can be adjusted to and held at such position as to give any desired angle or pitch to the colter point or shoe.

My present invention, in addition to this arrangement of colter and brace-bar, and their means of adjustment, consists in so constructing the brace-bar that there can be secured to its main arm, by means of an adjustable saddle, a mold-board or plow-blade of any desired pattern or other like attachment, and the whole being so combined and arranged that, by means of bolts and nuts, in connection with the slotted face of the standard and the openings or apertures in the bearing-arms of the saddle, the mold-board or shoe can be so adjusted as to open or turn a furrow of greater or less depth, as occasion requires.

The construction and operation of my invention are as follows:

A is the plow-beam, and B B the handles, all constructed in the usual form, and of any suitable material. C is the colter, and D its brace-bar, each of which is provided with a series of apertures or holes, *e e d d*, at the upper section of their shanks, and which permits of the colter and brace-bar being relatively so adjusted in connection with the plow-beam A as to give any desired pitch or angle to the arrow-head or shoe C' of the colter, all substantially arranged as described in my patent

above referred to. In addition to the holes or apertures *d d* on the upper section of the shank of the brace-bar, it is cast or otherwise formed with a slot or a series of holes, *E E*, or both, on the main section of the shank, and which permits of a mold-board, F, Fig. 1, a cotton-scraper blade, double-wing, diamond-shape, bull-tongue, or any other form of blade being attached. Some of the principal of these forms or patterns of blades, and to which my style of plow is admirably adapted to operate, are illustrated in Figs. 2, 3, 4, 5, and 6 of the drawing. The mold-board F or other plate, by means of bolts and nuts *h h*, is secured to the saddle H, and which means of connection permits of the ready detachment of one style of plate and the substitution of another. The bolts *h h* are entirely independent of the standard or brace-bar E, and simply serve to attach the mold-board, or either of the style of plates illustrated in the accompanying drawing, to the saddle H by passing the bolts *h h* through openings in the plate and in the face of the saddle, as clearly illustrated in Fig. 2, and in which are slots or apertures *f f*, and which permits of their ready attachment to or detachment from the brace-bar D by means of bolts and nuts *e e*, and allows of the mold-board F or other blade or plate to be so adjusted as to turn a furrow or to open or scrape the soil at any desired depth. If desired, this mold-board may be strengthened by means of a brace-rod extending from its point to the colter, as shown by dotted lines, Fig. 1.

What I claim as new, and desire to secure by Letters Patent of the United States, is—

In combination with the device embraced in my patent of July 19, 1870, the slot and openings E in the standard D, saddle H, and bolts and nuts *e e* and *h h*, the whole being so constructed as to permit of the mold-board or blade being secured and adjusted substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

THOS. L. COTTEN.

Witnesses:

J. H. MOMIS,
T. B. SIMPSON.