(No Model.)

A. W. POTTS.

MOLD BOARD FOR CULTIVATORS.

No. 346,064. Patented July 20, 1886.

Fig. 1.

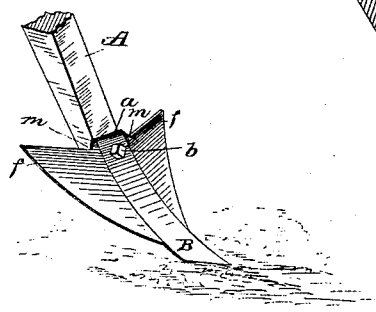


Fig. 2.

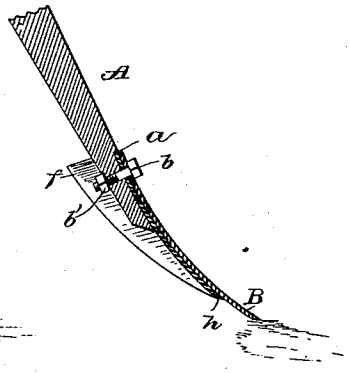


Fig. 3.

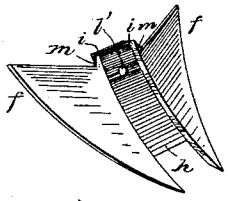
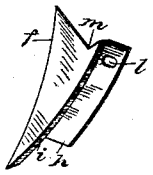


Fig. 5.



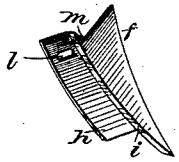


Fig. 4.

WITNESSES

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ANTHONY W. POTTS, OF APPLE VALLEY, GEORGIA.

MOLD-BOARD FOR CULTIVATORS.

SPECIFICATION forming part of Letters Patent No. 346,064, dated July 20, 1886.

Application filed October 28, 1885. Serial No. 181,179. (No model.)

To all whom it may concern:

Be it known that I, ANTHONY W. POTTS, a citizen of the United States, residing at Apple Valley, in the county of Jackson and State of Georgia, have invented a new and useful Improvement in Mold-Boards for Cultivators, of which the following is a specification, reference being had to the accompanying drawings.

My invention has relation to improvements in mold-boards for cultivators; and the novelty consists in the peculiar construction, combination, arrangement, and adaptation of the various parts for service, substantially as hereinafter fully set forth, and specifically pointed out in the claims.

My invention has for its object to provide interchangeable mold-boards to convert the blades of cotton-scrapers into right or left hand plows or into a furrow-opening plow, and to combine simplicity, strength, and durability of construction with thorough effectiveness of operation, ease and facility of removal, attachment, and adjustment, and comparative cheapness of manufacture.

In the annexed drawings, Figure 1 is a perspective view of a standard of a cotton-scraper having one of my improved mold-boards applied thereto. Fig. 2 is a vertical sectional view taken through the middle of the supporting-standard and the securing-bolt thereof. Figs. 3, 4, and 5, are detail perspective views of various forms of the interchangeable mold-boards.

Like letters of reference in the several figures of the accompanying drawings denote corresponding parts, referring to which A designates the supporting-standard of a cultivator of the "cotton-scraper" class, having the usual plow or shovel, B, seated in a cut-away or recessed portion, *a*, of the standard, and secured thereto by means of a through-bolt and nut, *b b'*. (See Fig. 2.)

In Figs. 3, 4, and 5 I illustrate interchangeable mold-boards of various classes. In Fig. 3 a right-hand mold-board is shown, in Fig. 4 a left-hand mold-board, and in Fig. 5 a mold-board having two wings projecting at each side of the standard when secured thereon and adapted for furrow-opening.

Each of the molds have a feature common to all—namely, the mold-board or wing *f* proper, and a tongue, *h*, secured thereto or formed therewith and on a plane below the upper outer surface of the wing *f*, so as to leave a projecting ledge or shoulder, *i*. The tongues of the mold-boards terminate a short distance above the lower point thereof, and in securing the mold-board to the standard A the tongue thereof is fitted beneath the blade B, so that said blade will fit flush with the upper outer surface of the wing *f* and snugly against the shoulder *i* of said mold-board.

The mold-board shown in Figs. 3 and 4 have their tongues provided with a transverse slot, *l*, near their upper ends, through which the securing-bolt *b* passes, to secure the same in place to the standard, and by means of the transverse slot said mold-boards can be adjusted laterally to fit or accommodate themselves to scraper or cultivator blades of varying sizes.

The double mold-board or furrow-opener shown in Fig. 5 has two shoulders, *i*, one at each side to each wing *f* thereof, and spaced apart a distance equal to the width of the scraper blade or tooth, which fits snugly against the same, when it is in proper position thereon, and flush with the outer face of the wings *f*, to present an unbroken surface. The upper end of the tongue *h* of the double mold-board has a bolt-hole, *l'*, for the passage of the securing-bolt *b*, and each of the mold-boards is provided with a notch, *m*, in its upper edge, at the point where the wing *f* joins or connects with the tongue *h*.

From the foregoing description, taken in connection with the drawings, it is obvious that a cotton-scraper can be easily and readily converted into a right or left hand plow or with a furrow-opening mold-board, according as the circumstances of the case may require; that a smooth and unbroken surface is presented to the action of the soil, which will turn the furrow slices or earth off smoothly and evenly; that a firm and secure connection is provided; that the adjustment or interchange of mold-boards and the conversion of the cotton-scraper into a plow can be easily, quickly, and readily accomplished, and that the devices can be manufactured very cheaply, and require but a small outlay of cost to secure, practically, two machines.

I am aware that heretofore it has been proposed to provide the lower end of a shovel-plow standard with a groove or channel, and

to secure a blade or shovel therein by means of a single through-bolt; also, that a removable wing has been provided with an angular tongue that fits beneath a shovel-blade.

My invention differs from the first-named device above from the fact that I provide a detachable mold-board with a tongue that is depressed below the plane of the inner edges of the wing or wings of said mold-board, and from the latter-named device in that the wing of said device is on the inner edge of the lateral wing, at an angle thereto, while in my device the tongue is depressed below the plane of the inner edge of said wing.

The generic feature of my invention lies in the fact that I provide a removable mold-board to be secured to various forms of plows, the mold-board consisting, essentially, of a wing or wings and a depressed tongue located on a plane beneath the inner edges of the said wing or wings. The depressed tongue of the mold-board lies beneath the shovel-blade, and the blade fits closely and snugly against the shoulder between the wing and tongue, which is thereby prevented from moving, and provides a close joint and an unbroken surface.

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

1. The combination of a standard, a detachable mold-board having a wing or wings, and a lateral depressed tongue lying on a plane beneath the inner edges of the wing or wings, and a shovel-blade bolted to the standard and bearing on the outer face of the depressed tongue and against the shoulder between the wing and tongue, substantially as described.

2. The combination of a standard having a recessed seat, *a*, in its lower end, a shovel-blade, B, and a detachable mold-board comprising a lateral wing, *f*, an abutment or shoulder, *i*, and a depressed tongue, *h*, lying on a plane beneath the inner edges of the lateral wing *f*, and having a transverse slot, *l*, at its upper end, said tongue being interposed between the blade and standard and laterally adjustable thereon, and a single through-bolt passing through an opening in the blade, the slot of the tongue, and the standard to connect the parts together, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

ANTHONY W. POTTS.

Witnesses:
H. W. BELL,
A. J. BELL.