

(No Model.)

C. A. ANDERSON.
CULTIVATOR SHOVEL.

No. 472,970.

Patented Apr. 19, 1892.

Fig. 1.

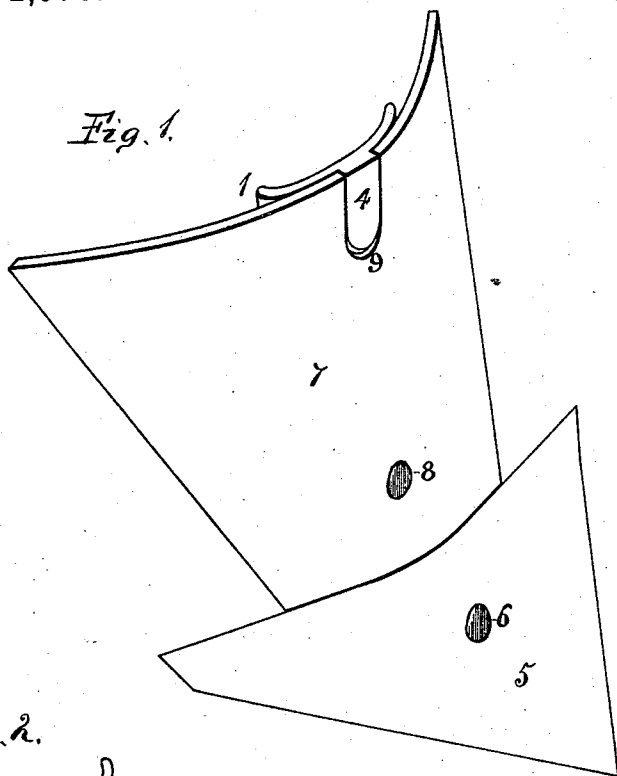


Fig. 2.

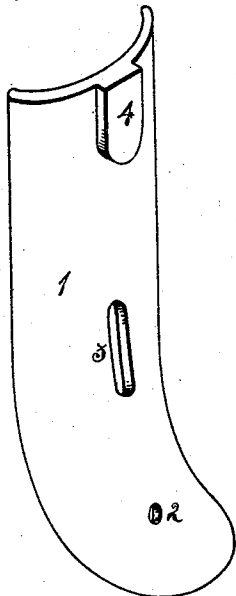
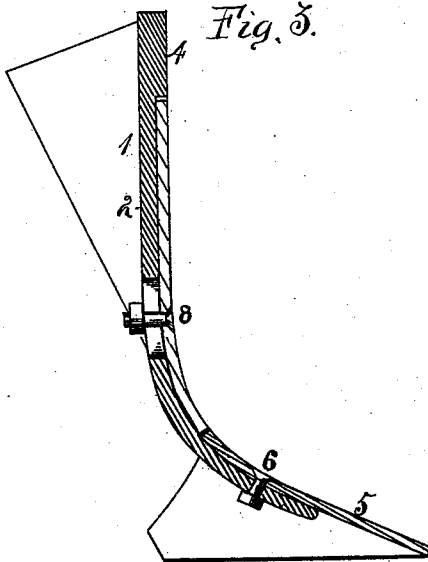


Fig. 3.



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UNITED STATES PATENT OFFICE.

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CULTIVATOR-SHOVEL.

SPECIFICATION forming part of Letters Patent No. 472,970, dated April 19, 1892.

Application filed December 18, 1891. Serial No. 415,531. (No model.)

To all whom it may concern:

Be it known that I, CHARLES A. ANDERSON, a citizen of the United States, residing at Rockford, county of Winnebago, and State of Illinois, have invented certain new and useful Improvements in Cultivator-Shovels, of which the following is a specification.

This invention relates to that class of shovels formed in two parts secured to a frog or standard; and my improvement lies in the means of securing the upper portion to the standard adjustably in reference to the lower portion.

In the drawings, Figure 1 is an isometrical representation of my shovel. Fig. 2 is an isometrical representation of the frog or standard, the point and mold-board being removed. Fig. 3 is a lenthwise vertical central section of the shovel.

In the construction of this shovel I employ the forwardly-curving standard 1, in the lower end of which is formed the hole 2. About midway of the length of the standard 1 I provide the longitudinally-slotted hole 3. At the upper end of the standard, on the face side thereof, I provide the lug 4, extending from the standard. The lower portion of the shovel (its point 5) is of substantially triangular outline, sharpened at its lower edges, and bent in the form usual in such shovels. A hole extending through the point receives the bolt 6, by which it is secured to the standard.

The mold-board 7 is provided with a hole, through which I place the bolt 8, and this bolt extends through the slotted hole 3 in the

standard and receives a nut to hold the mold-board in place. In the upper edge of the mold-board I form a notch 9 of such form and size as to accommodate the lug 4, the slot 3 allowing an adjustment of the mold-board in reference to the point 5.

In fitting the parts of my shovel together I attach the point 5 to the standard 1, and, holding the mold-board 7 in position, fit its lower edge to the upper edge of the point, and because of the slot 3 in the standard I have considerable latitude in the adjustment of the mold-board to overcome any inaccuracies in the making of the parts. When properly fitted, the bolt 8, with the lug 4, holds the mold-board in position, and its lower edge, bearing against the upper edge of the point 5, prevents the latter from turning on its attaching-bolt.

I claim as my invention—

A cultivator-shovel comprising a standard having a hole near its lower end, a slotted hole near its middle, and a projecting lug on its upper end, a point secured to the lower end of the standard, a mold-board, a hole near its center and a notch in one of its edges, and a bolt extending through the hole of the board and through the slotted hole of the standard, the notch in the edge of the mold-board engaging the lug on the standard.

CHARLES A. ANDERSON.

Witnesses:

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