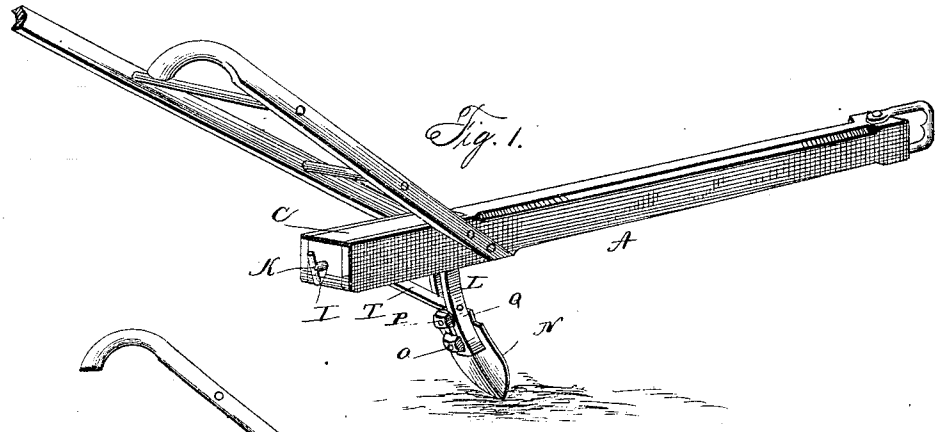
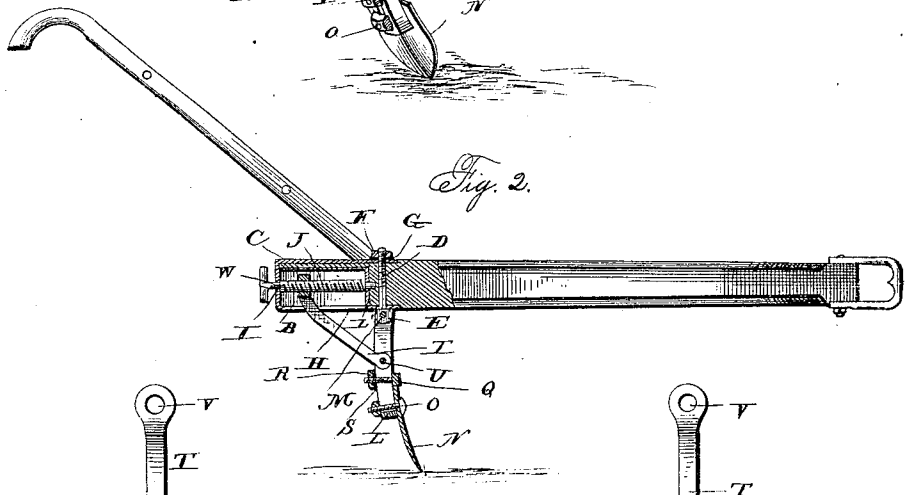
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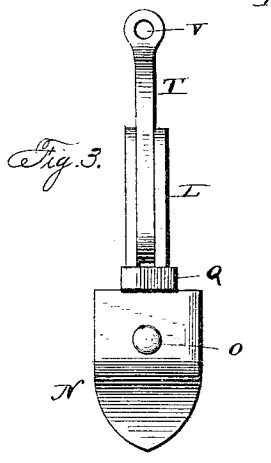
J. W. WEBSTER.

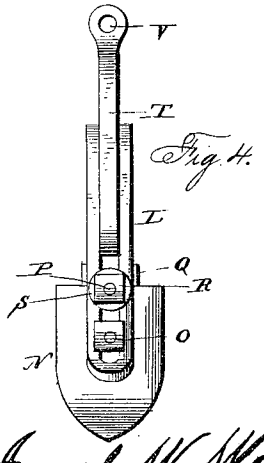
SHOVEL PLOW.

No. 348,436. Patented Aug. 31, 1886.









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UNITED STATES PATENT OFFICE.

JOSEPH WARREN WEBSTER, OF LITTLE ROCK, SOUTH CAROLINA.

SHOVEL-PLOW.

SPECIFICATION forming part of Letters Patent No. 348,436, dated August 31, 1886.

Application filed June 28, 1886. Serial No. 206,415. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH WARREN WEBSTER, a citizen of the United States, and a resident of Little Rock, in the county of Marion and State of South Carolina, 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 invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of my improved plow or cultivator. Fig. 2 is a longitudinal vertical sectional view of the same. Fig. 3 is a front view of the pivoted standard and of the shovel, and Fig. 4 is a rear view of the same.

Similar letters of reference indicate corresponding parts in all the figures.

My invention has relation to that class of plows or cultivators in which the standard is pivoted at its upper end, and is provided with means for adjusting its pitch; and it consists in the improved construction and combination of parts of the same, as hereinafter more fully described and claimed.

In the accompanying drawings, the letter A indicates the beam, which is provided at its rear end with a longitudinal recess, B, opening at the rear end and at the under side of the beam, and this recess is covered by means of a metallic strip or plate, C, doubled to fit around the end of the beam and upon the upper and under sides of the beam, being secured upon the beam by means of a bolt, D, passing through the ends of the plate and through the beam, and having a flat perforated head, E, at its lower end and a suitable nut and washer, F and G, upon its upper end. The portion of the plate upon the under side of the beam is formed with a longitudinal slot, H, and the rear doubled portion of the plate is formed with a smooth bore, I, in which the smooth rear portion of a screw, J, fits and turns, the screw having a suitable head or handle, K, at its outer end, and bearing with its inner end against a plate, L', secured in the forward end of the recess in the beam. The standard consists of a bar, L, bent double, so as to form a longitudinal slot, and the free ends of the bar are perforated and fit and turn upon a screw-bolt, M, passing through the flat head of the nutted bolt securing the plate. The shovel N is secured by means of a nutted bolt, O, passing through the shovel and through the slot in the standard, the nut bearing against the rear side of the standard, and a bolt, P, having a flat cross-head, Q, passes through the slot in the standard, sliding adjustably in the same, and is provided with a nut and washer, R and S, by means of which the bolt may be adjusted in the slot. The lower edge of the cross-head upon the bolt bears against the upper edge of the shovel, preventing the said shovel from turning upon the bolt. An arm or brace, T, is pivoted with its forward end upon a bolt, U, in the slot of the standard above the cross-headed bolt, and the upper and rear end of this arm or brace is formed with a screw-threaded perforation, V, within which the screw fits and turns, and the screw is retained within the recess by a shoulder, W, bearing against the inner side of the perforated doubled end of the slotted plate, the portion of the screw outside of the recess being reduced, the screw remaining in the same position while being turned, on account of its bearing with the shoulder against the perforated portion of the plate, and with its forward end against the plate in the recess, so that when the screw is revolved the upper perforated end of the brace will be moved forward or back, adjusting the pitch of the standard, and consequently of the shovel. It will thus be seen that the pitch of the standard may be adjusted to suit the depth to which it is desired for the plow to enter by turning the screw, drawing the arm or brace rearward making the pitch steeper and causing the plow to enter the ground with the point of the shovel direct, while drawing the arm forward will make the pitch of the standard more inclined, and will cause the shovel to enter the soil and skim the same, the shovel entering with the point foremost and breaking up the soil, while the upright shovel will merely stir the soil. It will be seen that the cross-headed bolt will prevent the shovel from turning upon its bolt, and the shovel and the cross-headed bolt may both be adjusted at any desired distance from the lower end of the standard, according to the work desired to be done by the shovel.

This improvement may be applied to cultivator-beams having one or more standards with few changes, and it may be used with a beam or shovel of any construction.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

1. In a plow or cultivator, the combination of a beam having a longitudinal recess in its rear portion opening upon the under side, a standard pivoted at its upper end forward of the slot, an arm pivoted to the standard and having its upper end projecting through and sliding in the slot and recess, and a screw for drawing the upper end of the arm forward and back, as and for the purpose shown and set forth.

2. In a plow or cultivator, the combination of a beam having a longitudinal recess in the rear portion of the under side, a long plate doubled to fit around the end of the beam and having a perforation in its rear doubled end, and having a longitudinal slot in its lower portion, a flat-headed bolt passing through the ends of the plate and through the beam, a standard pivoted with its upper end upon the flat head of the bolt, an arm pivoted to the standard and having its upper end sliding in the recess of the beam and formed with a screw-threaded perforation, and a screw fitting with its reduced outer end in the perforation of the plate and turning in the threaded perforation of the arm, and provided with a handle at its outer end and bearing against a plate in the forward end of the recess with its forward end, as and for the purpose shown and set forth.

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

JOSEPH WARREN WEBSTER.

Witnesses:
S. S. ROZIER,
T. A. DILLON.