(No Model.)

J. W. WEBSTER.

PLOW.

No. 401,615. Patented Apr. 16, 1889.

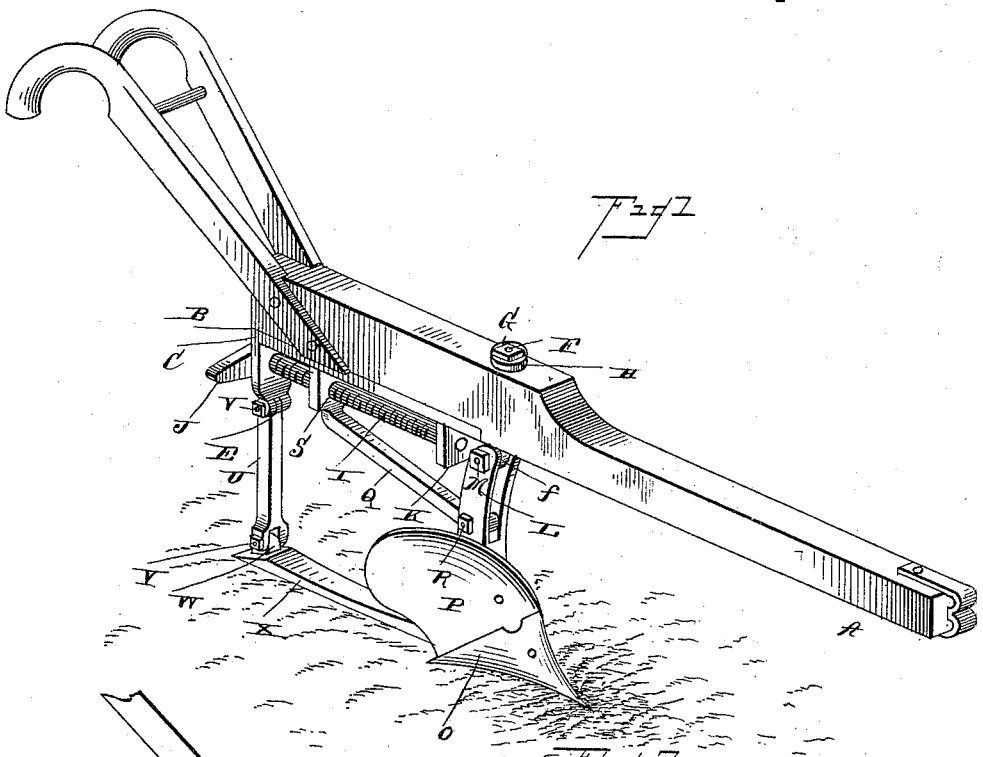

Fig 1

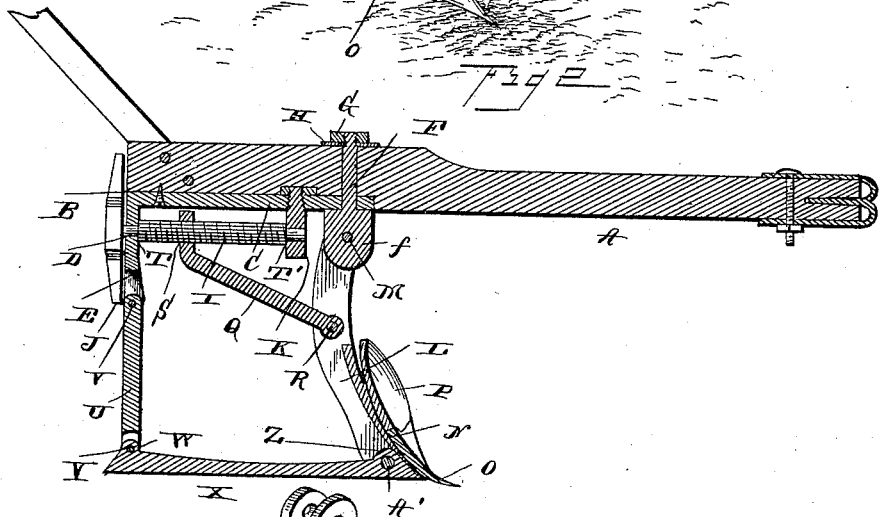

Fig 2

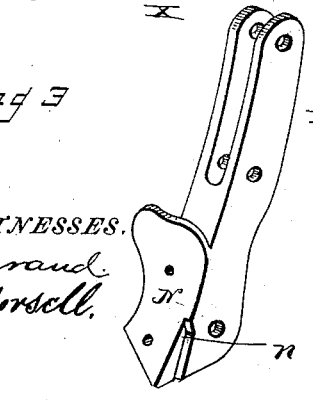

Fig 3

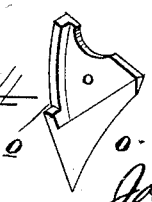

Fig 4

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UNITED STATES PATENT OFFICE.

JOSEPH WARREN WEBSTER, OF LITTLE ROCK, SOUTH CAROLINA.

PLOW.

SPECIFICATION forming part of Letters Patent No. 401,615, dated April 16, 1889.

Application filed September 22, 1888. Serial No. 286,066. (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 sectional view of the same. Fig. 3 is a detail view, in perspective, of the standard-bar; and Fig. 4 is a perspective detail view of the under side of the plowshare or colter.

Like letters of reference denote corresponding parts throughout the several views.

My invention has relation to improvements in plows; and it consists in the construction and combination of parts, as hereinafter more fully described, whereby the shovel or blade may be set at different angles, and, furthermore, in the improved construction of plow-standard, in combination with the improved form of plow-point or colter and mold-board, as hereinafter more fully set forth.

In the accompanying drawings, the letter A indicates the beam, which is provided at its rear end with an under-cut, B, into which fits a metallic plate, C, having its rear portion bent downward, said rear portion being provided with a smooth bore, D, gradually terminating in a reduced bifurcated portion, E. This plate is secured at its rear end to the under side of the beam by means of screws or other suitable fastening devices, and at its forward end by means of a bolt, F, passing through the end of the plate and through the beam, said bolt having a flat perforated head, *f*, at its lower end and a suitable nut and washer, G and H, upon its upper end. Through the smooth bore of the turn-down portion of the plate passes a screw, I, provided with a suitable head or handle, J, at its outer end and turning with its inner end within a perforated lug, K, depending from the inner end of the plate.

The standard L consists of the upper bifurcated portion, said upper portion being adapted to turn upon a screw, M, passing through the flat head of the bolt F, and is provided with a lower curved or concaved breast portion or bearing-surface, N, upon which is secured, by a bolt or other means, the plowshare O. This plowshare is concaved or curved, so as to conform to the shape of the breast or bearing-surface, said bearing-surface having secured to its upper portion, by means of a bolt, the usual mold-board, P. The broad bearing-surface afforded by the lower portion of the standard dispenses with the necessity of braces or other means of support for the mold-board, as is usually found necessary in order to withstand the strain by reason of the severe pressure exerted by the earth against the same. The lower inner edge of the breast-piece is also formed with a triangular-shaped notch, *n*, in which the shoulder or offset *o*, formed by the plow-point or colter, fits.

An arm or brace, Q, is pivoted with its forward end upon a bolt, R, passing transversely through the bifurcated portion of the standard-bar, and the upper and rear end of this arm or brace is formed with a screw-threaded perforation, S, within which the screw I fits and turns, said screw being provided on each end with shoulders T T′, bearing, respectively, against the inner side of the turn-down portion of the plate and the side of the depending perforated lug, 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 plowshare. 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 the ground by turning the screw, drawing the arm or brace rearward, making the pitch steeper, and causing the plow to enter the ground with a point of the share direct, while drawing the arm forward will make the pitch of the standard more inclined and will cause the share to enter the soil and skim the same, the share entering with the point foremost and breaking up the soil, while the upright will merely stir the soil.

An arm, U, is pivoted upon a transverse bolt, V, passing through the bifurcated por

tion of the plate C, the lower end of said arm being in turn bifurcated and adapted to receive an upper and forward extending perforated shoulder, W, of a shoe, X, a transverse bolt, Y, serving to pivotally connect the same. The forward end or nose of the shoe is provided with an upwardly and rearwardly extending perforated lug or shoulder, Z, pivotally connected to the lower end of the standard-bar by a bolt, A'. By this improved construction it will be seen that the depth of the furrow may be regulated in a simple and expeditious manner by merely turning the screw which passes through the arm or brace P, and whenever it is desired to clean the operative parts this may be readily and easily accomplished.

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

1. The combination of the plow-beam having upon its rear end an under-cut, the metallic plate having downwardly-bent rear portion, said portion being provided with a smooth bore and terminating in a reduced bifurcated part, the perforated lug or shoulder depending from said metallic plate, the adjusting-screw having reduced smooth ends, the rear end thereof being provided with a handle, the bolt having flat lower end, the standard-bar pivotally secured to the flat-headed bolt, the arm pivoted to the standard and having a screw-threaded perforation in its upper end, through which the adjusting-screw passes, the pivoted rear arm, the shoe pivotally secured at each of its ends to the rear arm and lower end of the standard-bar, respectively, and the plowshare, substantially as set forth.

2. The combination, with the standard provided with a series of perforations and having an upper bifurcated portion and formed or provided with a lower bearing-surface or breast-piece, said bearing-surface having its inner edge provided with a triangular-shaped notch, of the plowshare secured to said bearing-surface or breast-piece and formed or provided on its inner edge with a shoulder adapted to fit in said triangular-shaped notch, and the mold-board, substantially as set forth.

3. The combination, with the plow, of the standard provided with a series of perforations and having upper bifurcated portion and formed or provided with a lower bearing-surface or breast-piece, said bearing-surface having its lower inner edge provided with a triangular-shaped notch, the plowshare formed or provided on its inner edge with a notch and on its upper edge with a recess, and the mold-board provided on its lower edge with a curved lug or projection adapted to fit in the recess of the plowshare, substantially as 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,
GEO. M. STUART.