

H. P. JORDAN.

WING SWEEP.

APPLICATION FILED MAY 25, 1908.

913,505.

Patented Feb. 23, 1909.

2 SHEETS—SHEET 1.

FIG. 4.

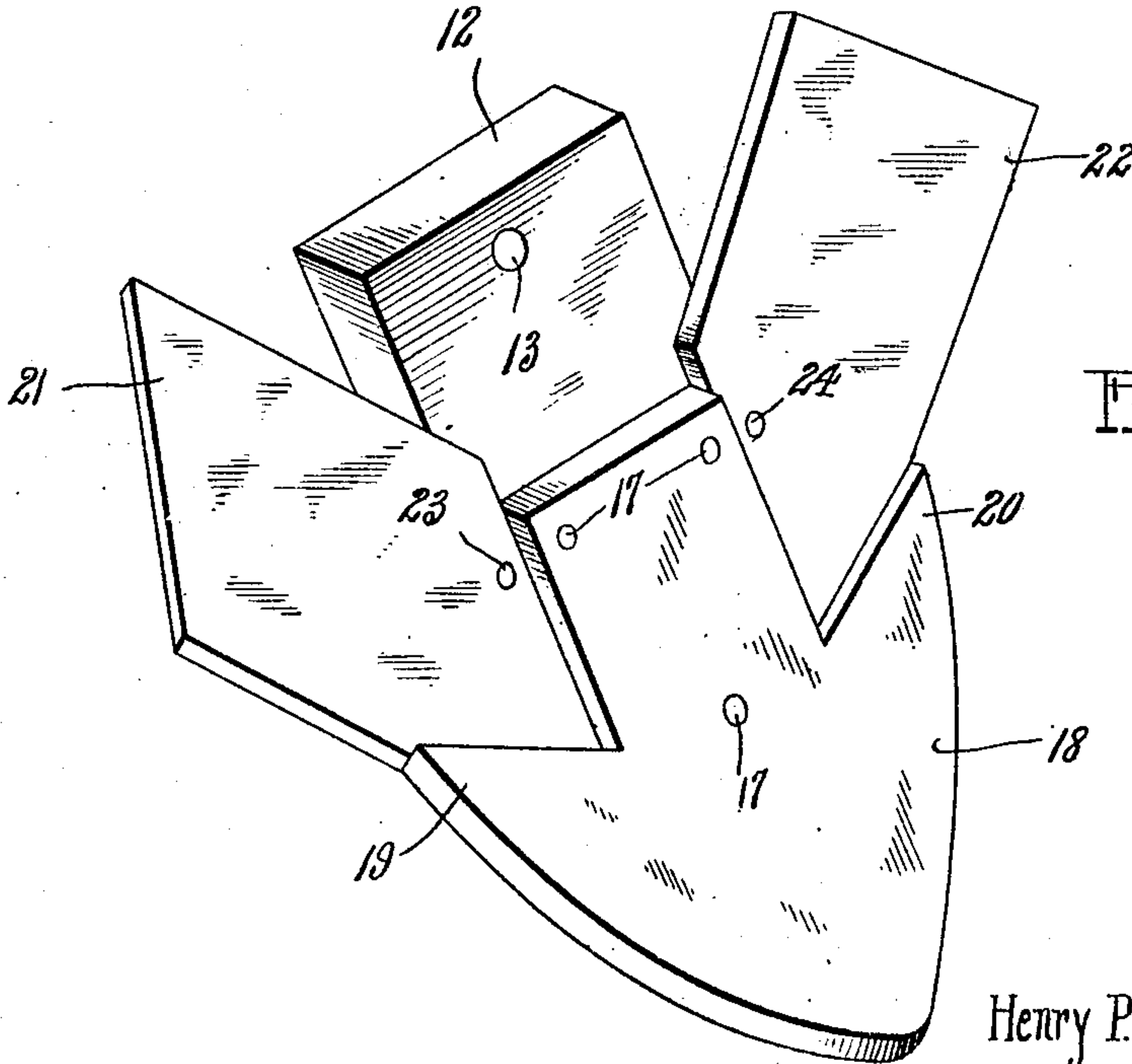
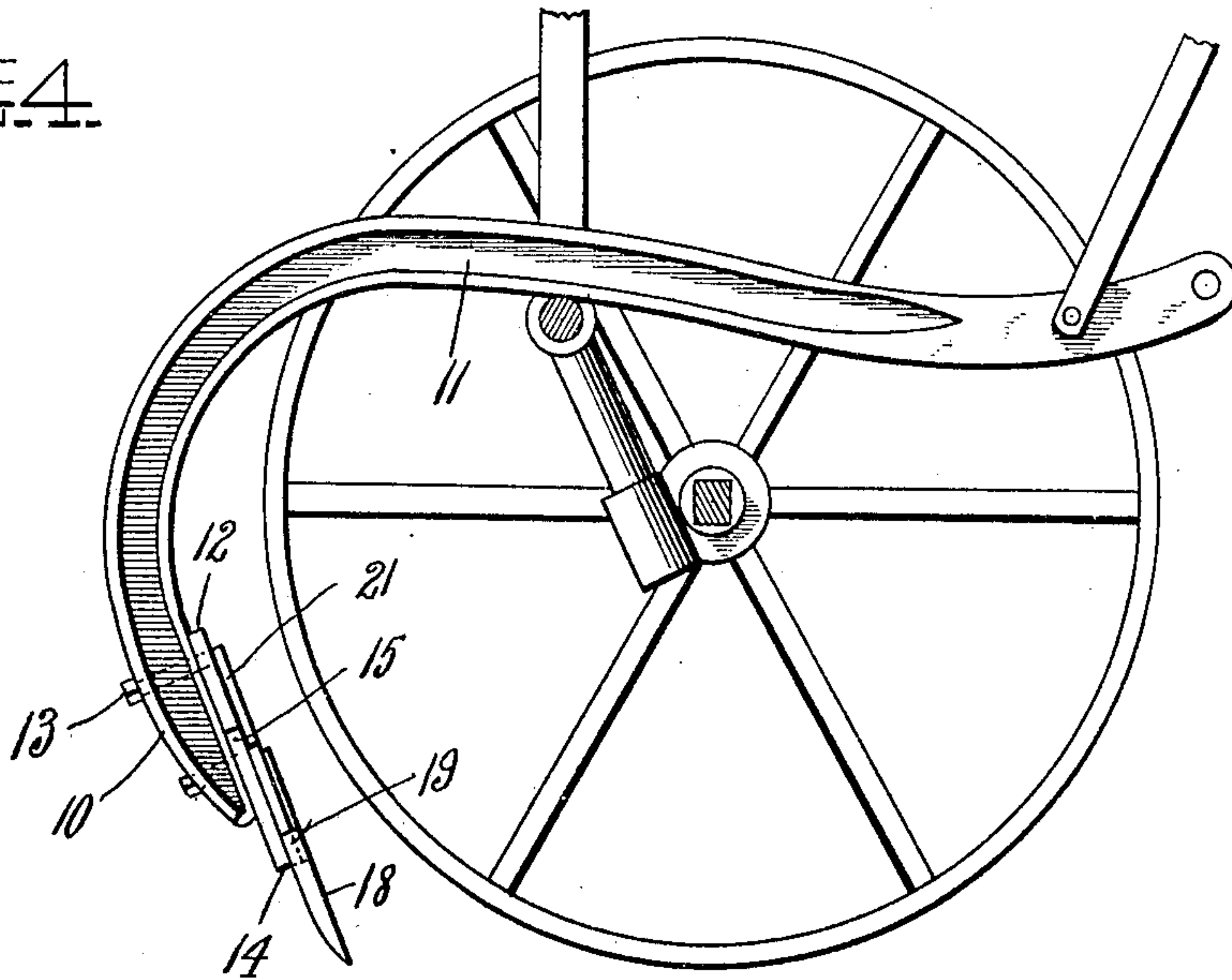


FIG. 1.

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2 SHEETS—SHEET 2.

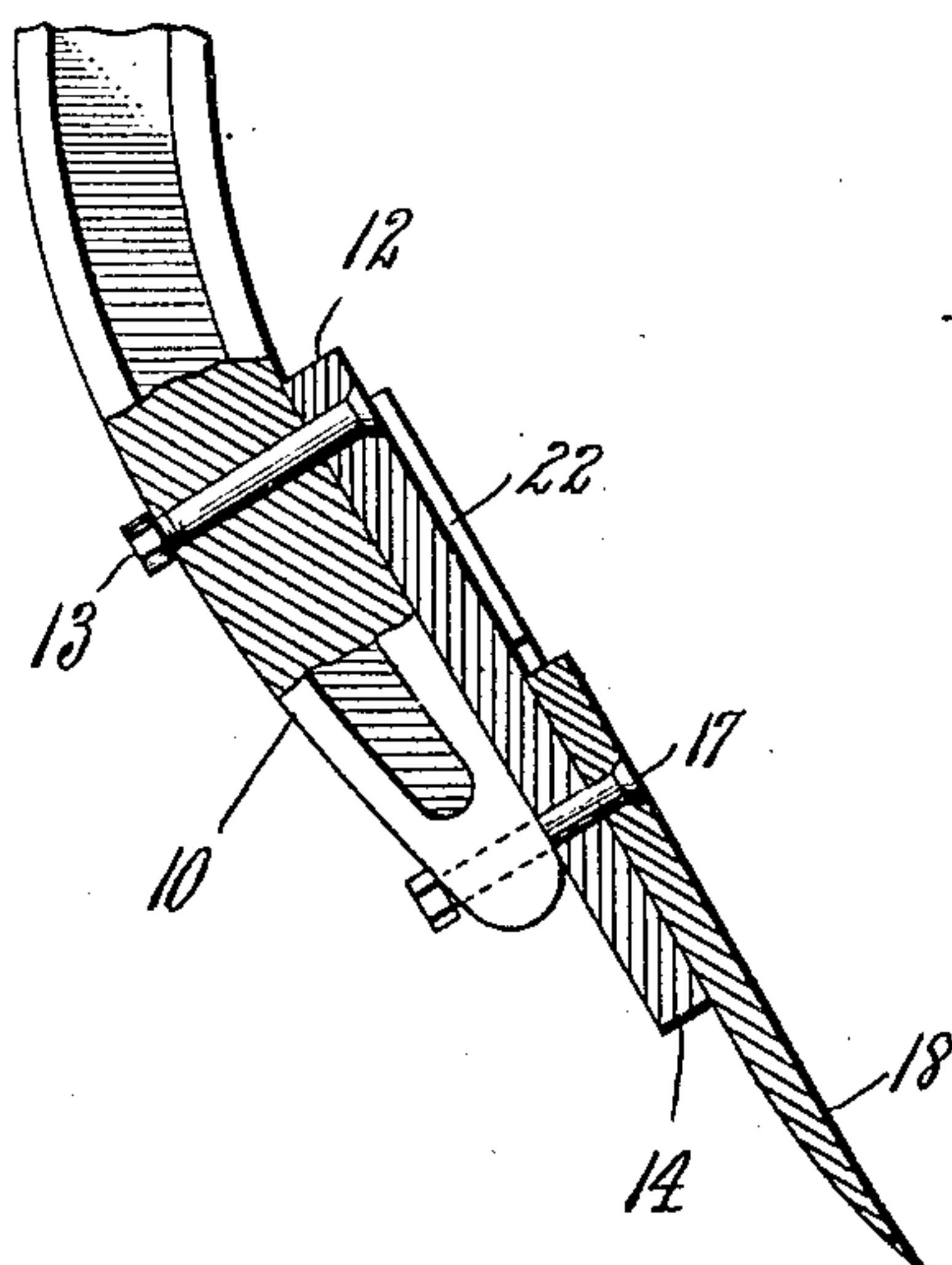


FIG. 3.

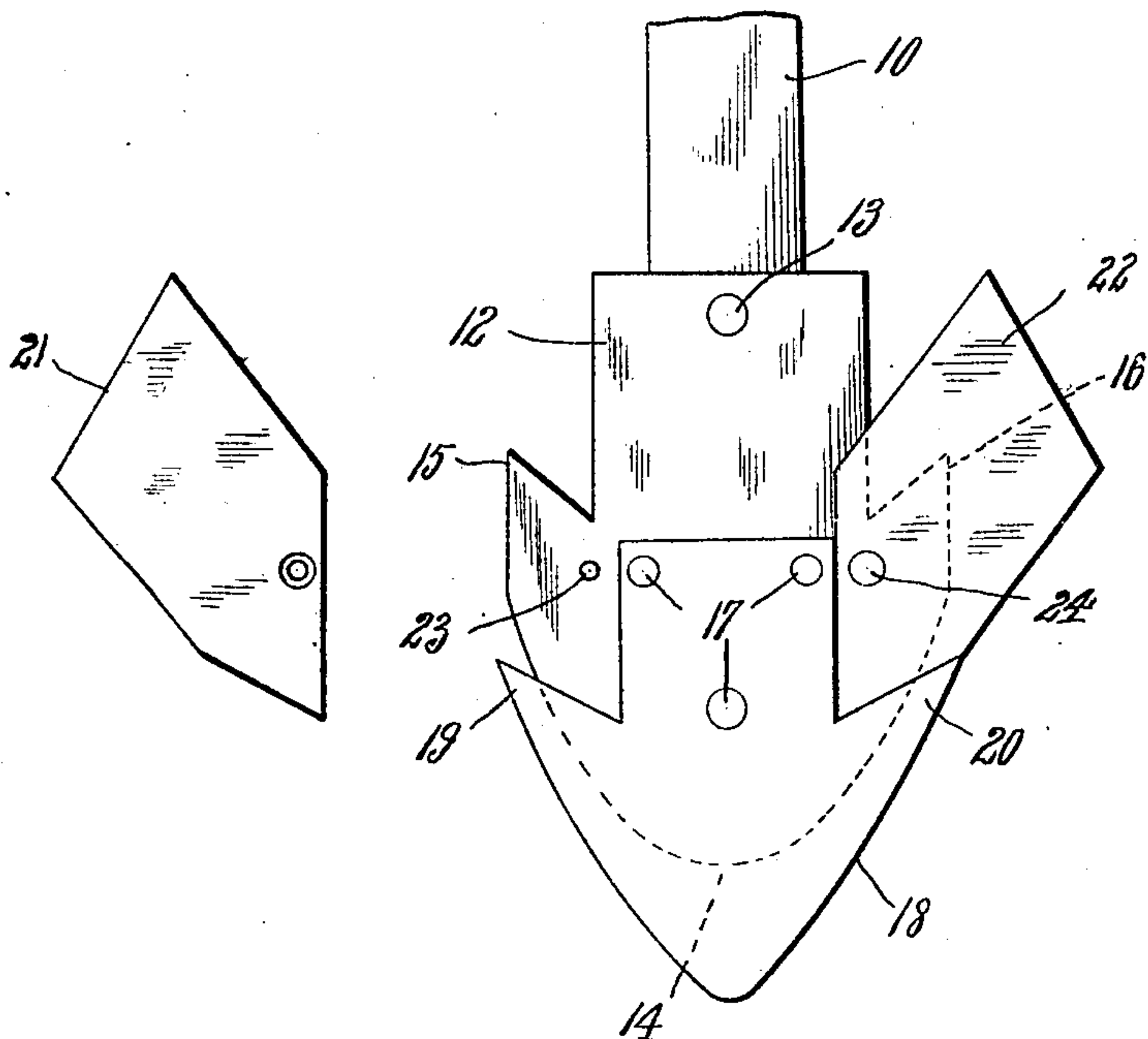


FIG. 2.

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UNITED STATES PATENT OFFICE.

HENRY P. JORDAN, OF HARTSVILLE, SOUTH CAROLINA.

WING-SWEEP.

No. 913,505.

Specification of Letters Patent.

Patented Feb. 23, 1909.

Application filed May 25, 1908. Serial No. 434,933.

To all whom it may concern:

Be it known that I, HENRY P. JORDAN, a citizen of the United States, residing at Hartsville, in the county of Darlington, State of South Carolina, have invented certain new and useful Improvements in Wing-Sweeps; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to plows, more particularly to shovel plows, and has for one of its objects to simplify and improve the construction and increase the efficiency and utility of devices of this character.

Another object of the invention is to provide a simply constructed device of this character having lateral extensions whereby an increased width of action may be secured.

Another object of the invention is to provide a simply constructed device of this character having lateral extensions arranged to be partly protected from the wear and friction of the earth through which the implement is operated.

With these and other objects in view the invention consists generally in a foot member having a plow point attached thereto and provided with integral upwardly directed central lateral wings connected to the foot member and bearing at their side edges and lower ends respectively against the upper edge of the plow point and the side edges of the tongue, the wings being of less thickness than the plow point whereby the wings are partly protected from the friction of the earth through which the plow passes.

The invention consists in certain novel features of construction as hereafter shown and described and then specifically pointed out in the claim, and in the drawings illustrating the preferred embodiment of the invention.

Figure 1 is a perspective view of the improved device detached from the beam. Fig. 2 is a front elevation of the same with one of the wings detached. Fig. 3 is a vertical sectional elevation. Fig. 4 is a side elevation of a cultivator frame with one of the improved devices applied.

The improved device may be applied to any of the various forms of plow standards, but for the purpose of illustration is shown applied to a conventional device of this character represented at 10 and connected in the

usual manner to a plow beam represented at 11. Attached to the forward face of the standard 10 is a foot member 12 bolted at 13 to the standard and with the lower portion converging at the sides toward the lower end 14 and with laterally extending wings 15—16. The foot member comprises the supporting element of the improved device and will generally be constructed of cast iron and of sufficient weight to withstand the strains to which it will be subjected. Connected by bolts or other fastening means 17 to the lower portion of the foot member 12 is a plow point 18 of the usual "shovel" plow form and with laterally extending portions 19—20 converging to points at their outer ends and provided with angular sockets between the body of the plow point and the pointed projections, the portions 19—20 extending rearwardly and upwardly from the plow point. The two members 12—18 thus form a complete plow point attachment to the plow, and in event of the breakage or wearing of the point it can be removed for repairs or a new point substituted without the necessity for discarding the foot member 12, as will be obvious.

Connected to the projecting portions 15—16 of the foot member are laterally extending wings 21—22, the wings bolted or otherwise secured at 23—24 and fitting into the angular sockets between the points 19—20 and the body of the member 18, as shown. The wings 21—22 are thinner than the point 19, so that the latter projects beyond the wings and thus protects them from the direct wear of the earth displaced by the shovel. The wings 19—20 bear firmly upon the projecting portions 15—16 of the foot member and are firmly supported thereby. The wings 21—22 thus extend the plow point laterally, and this extension may be increased or decreased by simply substituting larger or smaller wings, which may be readily done by detaching the holding bolts 23—24 and substituting larger or smaller wings, and by furnishing a plurality of the wings of varying sizes, the width of the "action" may be easily controlled, as may be obvious. Then again, if it is desired to operate with a larger or longer wing upon one side than upon the other, a short wing may be substituted for one of the longer wings.

The point 18 will preferably be pressed from plow steel while the wings 21—22 will preferably be from sheet steel of the usual

form employed in connection with cultivators, list plows, and the like.

The device is simple in construction, can be inexpensively manufactured and applied to plows of various forms, or in place of the ordinary shovels or mold-boards heretofore employed.

In event of the wear of the wings they may be readily renewed without discarding the remaining portions of the device.

The foot portion 12 is protected from wear by the plow point and the wings, and will therefore outlast many of the plow points and wings so that the "life" of the implement is indefinitely prolonged.

The point 18 and the wings 21—22 may be of any required size, and as before stated, by furnishing a plurality of wings of different sizes, plows adapted to operate to any required width may be produced so that a farmer possessing one of the improved implements may operate to any required width, these widths being generally 12—14—16—18—20—22—24 inches but these dimensions may be varied if preferred.

What is claimed, is:—

In a device of the class described, a foot-

member with its sides converging toward the lower end and with an integral portion extending above the upper end, a plow point of relatively thick material and bearing upon the foot-member and having an upwardly directed integral tongue of less width than the projecting portion of the foot-member and bearing upon the same, means for connecting said plow point and its tongue to said foot-member, lateral wings of less thickness than the plow point and bearing upon the portion of the foot-member not covered by the plow point, said wings arranged with their side edges bearing against the side edges of said tongue and their lower edges bearing against the upper edges of said plow point, whereby the wings are protected partly from the friction of the earth through which the plow passes, and means for connecting said wings to said foot-member.

In testimony whereof, I affix my signature, in presence of two witnesses.

HENRY P. JORDAN.

Witnesses:

J. W. HARRINGTON,
MARION GANDY.