

No. 842,728.

PATENTED JAN. 29, 1907.

S. H. TUCKER.
PLOW.

APPLICATION FILED SEPT. 19, 1906.

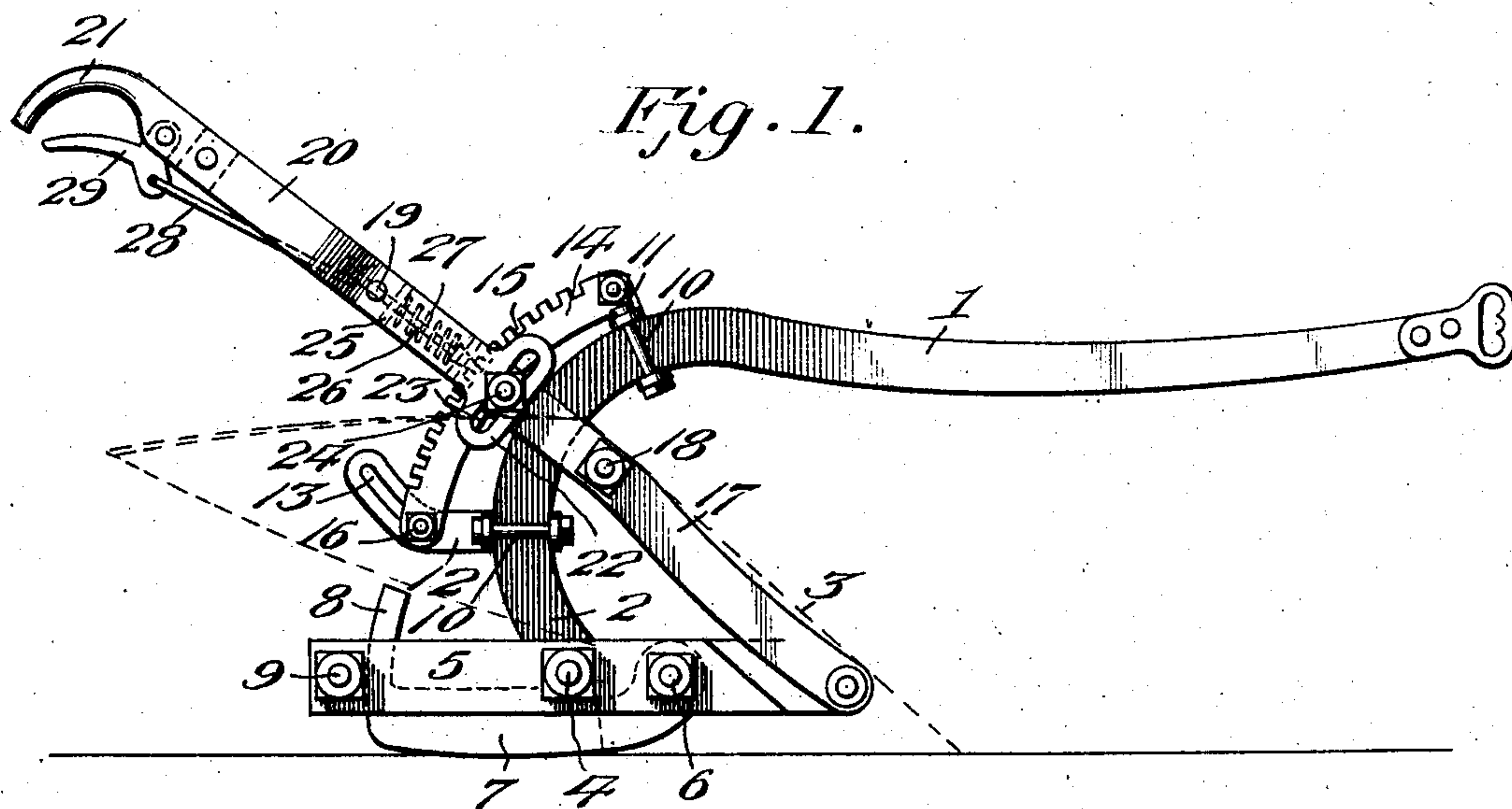
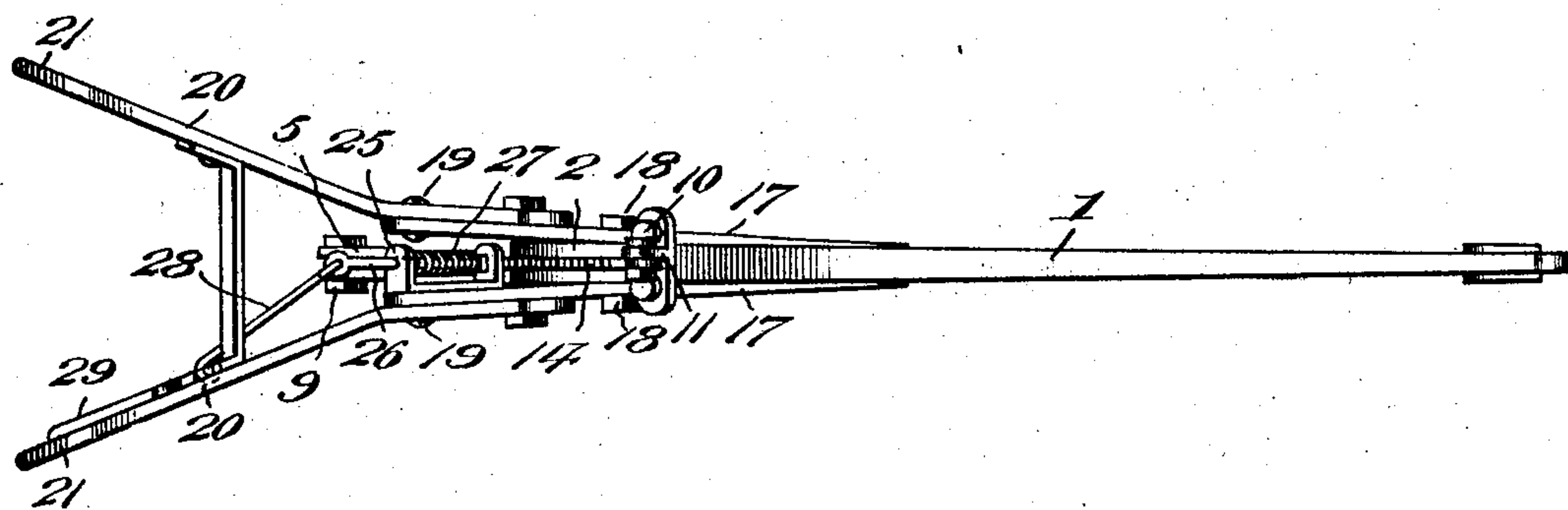


Fig. 2.



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PLOW.

No. 842,728.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, SAMUEL HOUSTON TUCKER, a citizen of the United States, residing at Gatesville, in the county of Coryell and State of Texas, have invented new and useful Improvements in Plows, of which the following is a specification.

This invention relates to plows, being especially directed to an attachment therefor, and has for its objects to provide a comparatively simple inexpensive device of this character whereby the depth of entrance of the plow into the ground may be readily controlled, one whereby the plow will be guided in its advance movement, and one which insures the formation of straight even furrows.

A further object of the invention is to provide a device of this character wherein the handle-bars may be readily adjusted to accord with the height of the operator, one in which the bars will be securely locked in adjusted positions, and one wherein the rack may be conveniently adjusted to accord with the adjustments of the handles.

With these and other objects in view the invention comprises the novel features of construction and combination of parts more fully hereinafter described.

In the accompanying drawings, Figure 1 is a side elevation of a plow equipped with an attachment embodying the invention. Fig. 2 is a top plan view of the same.

Referring to the drawings, 1 designates the plow-beam, bent, as usual, at its rear end to form a standard 2, to which is connected the plow-blade 3, (shown by dotted lines in Fig. 1,) these parts, which are of ordinary form and material, being designed in practice to perform their ordinary functions.

Fixed to the lower end of the standard 2 by means of a fastening member or bolt 4 is a shoe comprising a pair of relatively spaced horizontal plates 5, between which there is pivoted at its forward end, by means of a transverse pivoting member or bolt 6, a runner 7, having at its rear end an uprising portion or arm 8, adapted for vertical movement with the runner-blade between the plates 5, the rear ends of which are connected by means of a transverse clamping member or bolt 9, disposed immediately in rear of the arm 8.

Secured to the upper portion of the stand-

ard 2 by means of clip-bolts 10 is a pair of bearing-heads 11 12, of which the latter has a rearwardly-inclined portion provided with a longitudinal guide opening or slot 13, there being pivoted to the bearing member 11 one end of an arcuate rack 14, provided with teeth 15, and having its other end adjustably connected with the bearing member 12 by means of a bolt 16, which works in the slot 13, whereby the lower end of the rack may be adjusted toward and from the standard.

Attached at their lower ends to the forward end of the shoe 5 is a pair of upwardly and rearwardly inclined arms 17, maintained in frictional engagement with the standard by means of a transverse clamping-bolt 18, there being pivoted between their ends, as at 19, to the upper ends of the arms 17 a pair of handle-bars 20, provided at their upper ends with hand-grips 21 and at their lower ends with transverse heads 22, provided with slots 23, designed to receive fastening-bolts 24, through the medium of which the lower ends of the bars are attached to the arms 17, while slidably engaged with a bearing-bracket 25, attached to the inner face of one of the arms, is a pawl 26, acted upon by a spring 27 for maintaining its forward end in engagement with the rack-teeth 15 and having its rear end connected by a rod 28 with the lever 29, pivoted to one of the handle-bars adjacent the grip portion 21 thereof.

In practice as the plow advances through the ground the runner 7 will become embedded in the soil and serve for properly guiding the plow in its movements, thus to prevent lateral movement of the plow and form straight even furrows, it being apparent that the runner-blade may be adjusted vertically for varying its depth of entrance into the soil and be fixed in its adjusted positions through the medium of the bolt 9.

In the use of the plow the rear ends of the handle-bars 20 may by manipulating the lever 29 to free the pawl from the teeth 15 be swung upward or downward in a vertical plane to accord with the height of the operator, the movements of the bars being limited through the slot-and-bolt connection 23 24, it being understood that after the proper adjustment has been attained the bars may be fixed against further movement through engagement of the pawl 26 with the rack, and, fur-

ther, that the lower end of the rack may be moved toward and from the standard to accord with the inclination of the handle-bars, whereby the pawl may properly engage the teeth.

Having thus described my invention, what I claim is—

1. In a device of the class described, a plow-standard, a pair of upwardly and rearwardly inclined arms fixedly connected therewith, a segmental rack attached to the standard at a point between the arms, handle-bars pivoted between their ends respectively to said arms and provided at their forward ends with transversely-extended slotted heads, fastening members entered through the slotted heads and engaged with the arms for movably connecting the forward ends of the handle-bars to the latter, the rear ends of the bars being adjustable in a vertical plane, a locking-pawl movably mounted on one of the handle-bars for engagement with the rack to fix the bars in adjusted position, and means for operating the pawl.

2. In a device of the class described, a plow-standard, a pair of rearwardly and upwardly inclined arms fixedly connected therewith, a pair of bearing-heads attached to the standard, a segmental toothed rack pivotally connected to one of the heads and having slot-and-bolt connection with the other for adjustment toward and from the standard, a pair of handle-bars pivoted between their ends respectively to the arms and having their forward ends adjustably engaged by slot-and-bolt connections with the arms to permit vertical adjustment of the rear ends of the bars, a movable locking member carried by one of the bars for engagement with the rack to fix the bars in adjusted positions, and means for operating the locking member.

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

SAMUEL HOUSTON TUCKER.

Witnesses:

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W. L. RIDENS.