A. PANKEY.

PLOW.

APPLICATION FILED SEPT. 15, 1908.

921,730.

Patented May 18, 1909.

Fig. 1.

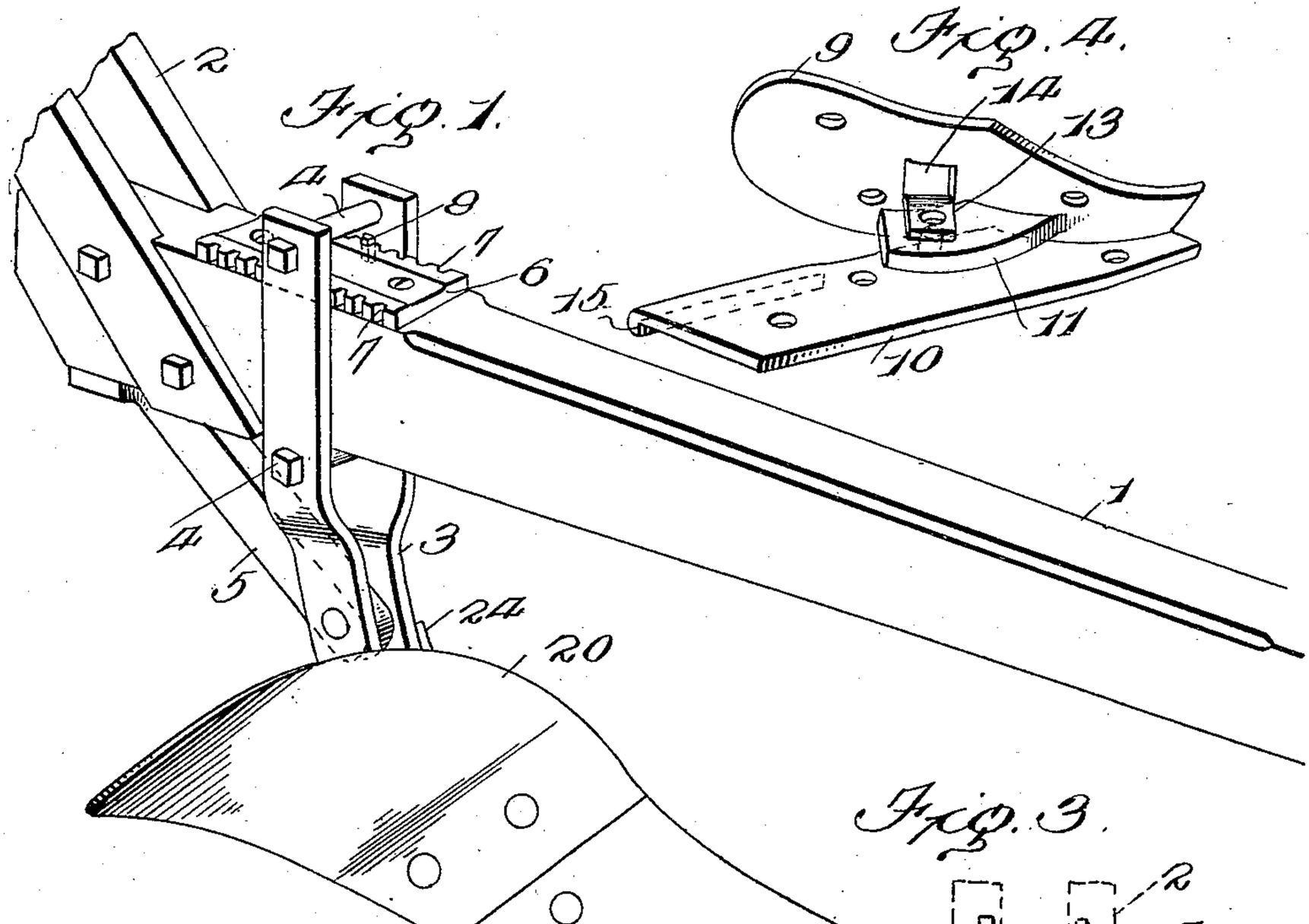


Fig. 4.

Fig. 5.

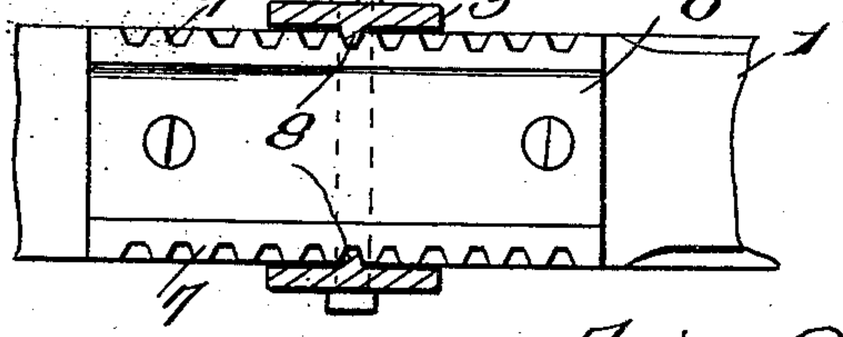


Fig. 3.

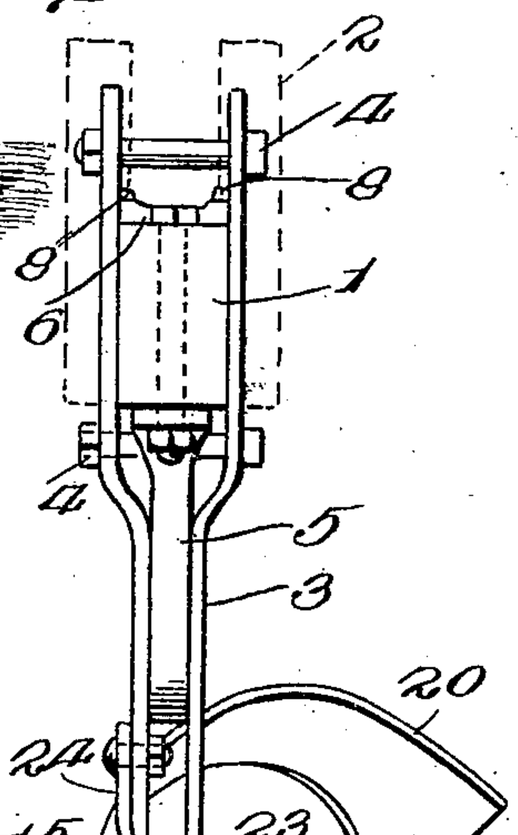
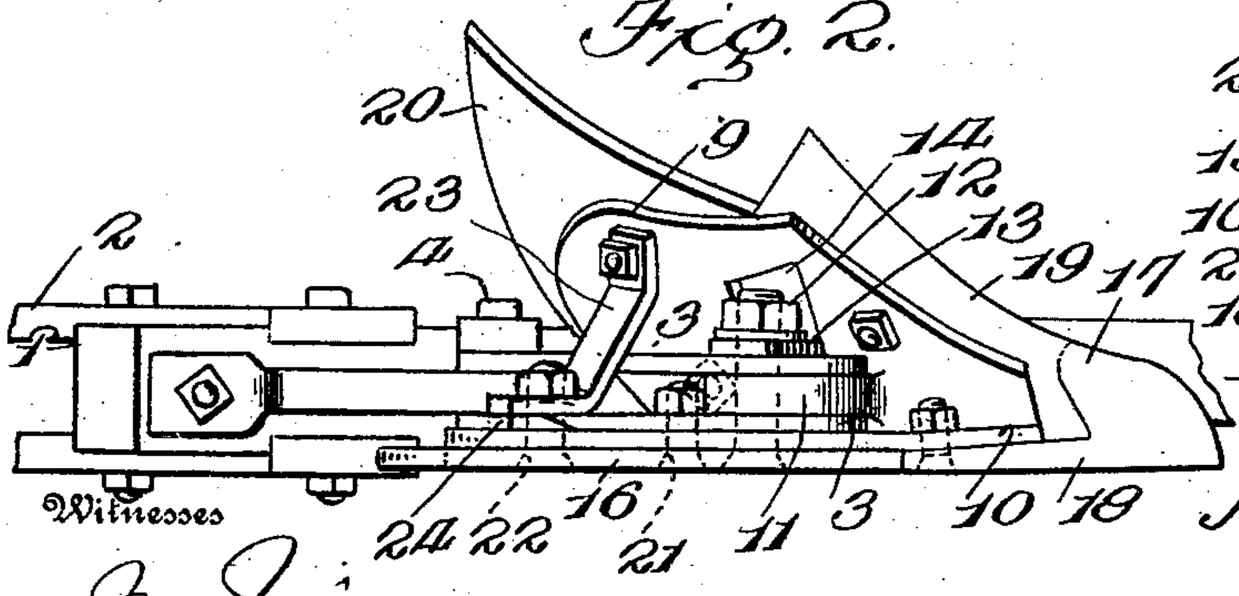


Fig. 2.



Witnesses

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UNITED STATES PATENT OFFICE.

ALEXANDER PANKEY, OF MINDEN, MISSISSIPPI.

PLOW.

No. 921,730. Specification of Letters Patent. Patented May 18, 1909.

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To all whom it may concern:

Be it known that I, ALEXANDER PANKEY, citizen of the United States, residing at Minden, in the county of Kemper and State of Mississippi, have invented certain new and useful Improvements in Plows, of which the following is a specification.

The present invention appertains to implements for tilling the soil being particularly designed to supply a plow of novel formation which will admit of adjustment to change the pitch of the shovel to meet varying conditions of soil and work, said plow embodying a substantial construction and admitting of the several parts being replaced when worn or otherwise disabled at a comparatively small cost.

The improvement consists essentially of the novel features, details of construction and combination of parts which hereinafter will be more fully set forth illustrated in the accompanying drawings and defined in the subjoined claims.

For a full understanding of the invention and the merits thereof and also to acquire a knowledge of the details of construction and the means for effecting the result, reference is to be had to the following description and accompanying drawings in which:

Figure 1 is a perspective view of the plow embodying the invention; Fig. 2 is a view of the plow as seen from the bottom; Fig. 3 is a rear view; Fig. 4 is a perspective view of the frame or tree to which the joint share mold board and land side are attached; and Fig. 5 is a top plan view of a portion of the beam and the toothed plate showing the members of the standard in section.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

The plow beam 1 may be of any construction and is supplied with handle bars 2 of any approved form and secured to the beam in any substantial way. The standard 3 is formed of companion bars which are transversely spaced and spread at their upper ends to embrace opposite sides of the beam 1 to which they are clamped by bolts 4. A brace 5 is pivotally connected at its lower end to the members of the standard 3 and is firmly attached at its upper end to the rear portion of the beam 1. The standard is adapted to be provided with a shovel of any kind suitable to the work in hand. In order that the pitch or inclination of the shovel may be varied the standard 3 is adjustable at its upper end along the beam 1 and is adapted to be secured in an adjusted position by means of the bolts 4 and the toothed plate 6, the latter being secured by suitable fastenings to the upper side of the beam 1 and having opposite longitudinal edge portions formed with teeth 7. Teeth 8 projecting inward from the members of the standard 3 are adapted to engage with the teeth 7 of the plate 6 and prevent possible slipping or movement of the standard when adjusted and the bolts 4 properly tightened. When it is required to change the inclination of the standard 3 to regulate the pitch of the shovel, the bolts 4 are loosened a distance to admit of the members of the standard being spread or moved apart to cause the teeth 8 to clear the teeth 7 after which the standard may be turned about its pivoted connection with the brace 5 and when properly positioned it may be secured by retightening the bolts 4 thereby holding the teeth 8 in positive engagement with the teeth 7.

The frame or tree comprises a frog 9 and a bar 10, the two members being of integral formation. A lug 11 projects rearward from the frog 9 and the bar 10 and is adapted to fit between the lower ends of the members comprising the standard 3, a bolt 12 passing through registering openings formed in the bar 10, lug 11 and members of the standard 3 and serving to secure all together. The lug 11 is practically an integral part of the frog 9 or may be welded or otherwise firmly jointed thereto. A rear extension 13 projects from the frog 9 parallel with the lug 11 and is apertured to receive the bolt or fastening 12. To this rear extension 13 is an integral part of the frog 9 and is formed by partly cutting a portion from the frog 9 and pressing the same rearward as clearly indicated in Fig. 4. The opening 14 thus formed by pressing the part 13 outward from the frog provides clearance for the nut of the bolt or fastening 12 and admits of the same being readily manipulated. A flange 15 is formed at the upper edge of the bar 10 and projects outward so as to overhang the land side 16.

The plow point 17 is formed with a rear extension 18. The plow share 19 is welded to the point 17 and to the upper edge of the rear extension 18 whereby the several parts 17, 18 and 19 are in effect of unitary struc-

ture. When the parts are assembled the joint of the frame or tree enters the integral space formed between the share 19 and the rear extension 18 and is bolted to each. The rear portion of the share 19 overlaps the lower portion of the frog 9 and is bolted thereto. The mold board 20 is placed upon the upper portion of the frog 9 and is bolted thereto. The lower edge of the mold board fits close against the rear edge of the share 19 thereby admitting of the slice passing freely over the parts 19 and 20 when the plow is in operation. The land side 16 is placed against the outer side of the bar 10 with its front end abutting against the rear edge of the extension 18 and with its upper edge coming beneath the flange 15. A bolt 21 connects the land side 16, bar 10 and the adjacent member of the standard 3. A bolt 22 connects the land side 16 and bar 10. A brace 23 is interposed between the frog 9 and bar 10 and its upper end is bent and attached to the frog 9 by a bolt or fastening employed for connecting the mold board to the said frog. A brace 24 is interposed between the standard and bar 10 and its upper end is bolted to the member of the standard adjacent to the land side. The lower ends of the braces 23 and 24 are connected to the parts 10 and 16 by the bolt or fastening 22.

Having thus described the invention, what is claimed as new is:

1. In an implement of the character specified, the combination of a standard having lower spaced portions, a frame comprising a frog and a bar having a lug extended rearwardly from the frog parallel with said bar and having said lug fitted between the lower spaced portions of the standard, one of said spaced portions of the standard fitting between the said bar and lug, and a fastening passed through openings of the bar, lug and spaced portions of the standard and connecting all together.

2. In an implement of the character specified, the combination of a standard, comprising lower spaced portions, a frame comprising a bar and a frog and having a lug projected rearwardly from the frog, and having a portion partly cut from the frog and pressed therefrom to form a rear extension, said lug fitting between the spaced portions of the standard, and a fastening passed through openings of the bar, the lug, the rear extension and the spaced portions of the standard and connecting all together.

3. A frame substantially as herein described for the purposes specified, the same comprising a land side, bar and a frog and having a lug extending rearwardly from the frog parallel with the land side bar, and having a portion partly cut from the frog and pressed therefrom to form a rear extension parallel with said lug and land side bar.

4. An implement constructed substantially as herein set forth and comprising a tree consisting of a frog and a land side bar, the latter having an outer flange at its upper edge and the frog formed with a rearwardly extending lug and a rear extension, a plow point having a rear extension and plow share jointed to the said point and rear extension, said plow share and rear extension of the point being secured to the frog and land side bar of the frame, a mold board secured to the frog of the frame and land side attached to the rear portion of the land side bar with its front end abutting against the rear extension of the point at its upper edge coming beneath the outer flange of the land side bar, a standard comprising spaced portions between which the lug of the frame is secured, a brace between the land side bar and the frog of the frame and another brace between the standard and the land side bar.

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

ALEXANDER PANKEY. [L. S.]

Witnesses:

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S. K. GULLY.