

Nov. 24, 1942.

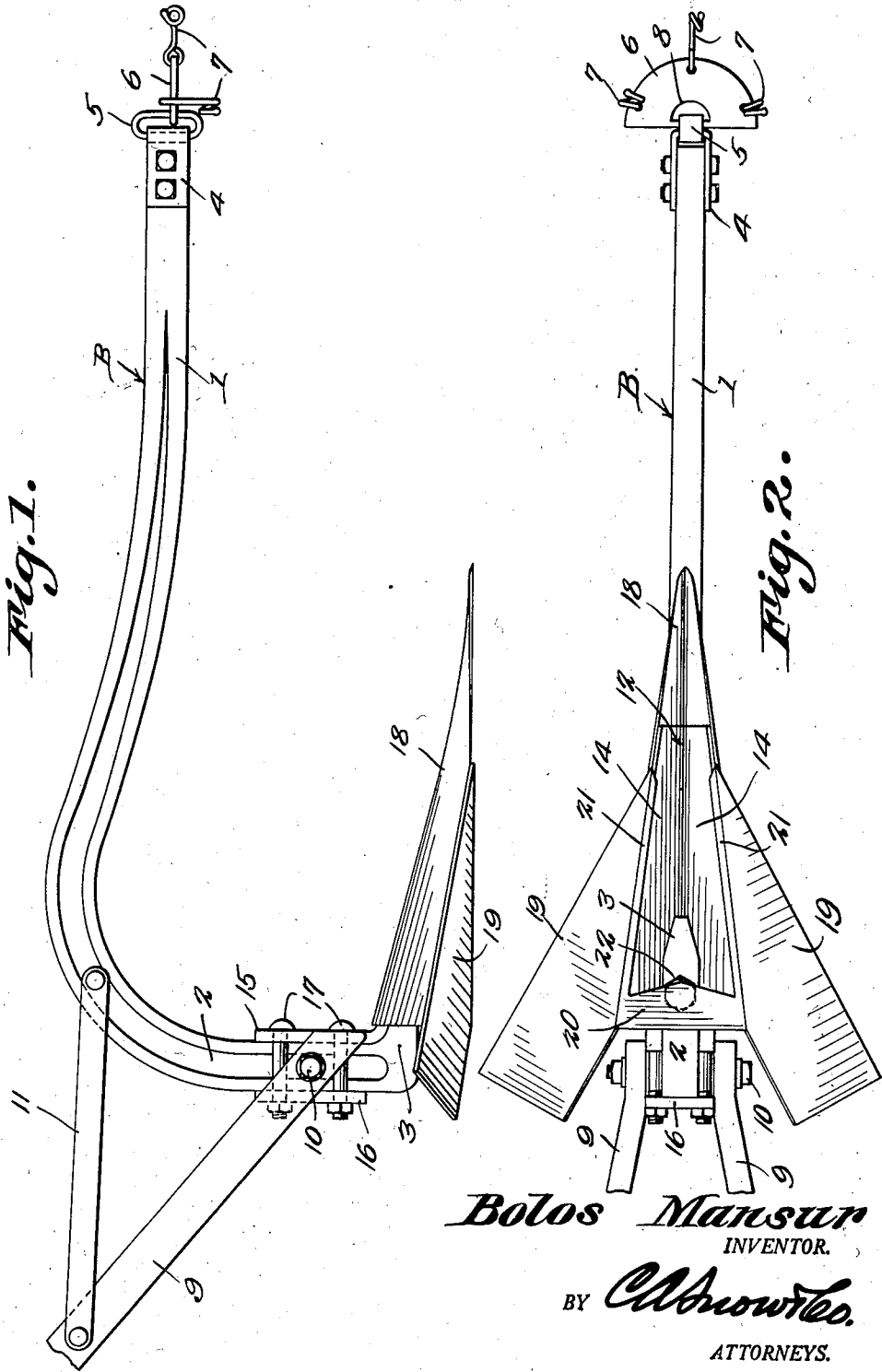
B. MANSUR

2,302,785

PLOW

Filed Sept. 16, 1940

2 Sheets-Sheet 1



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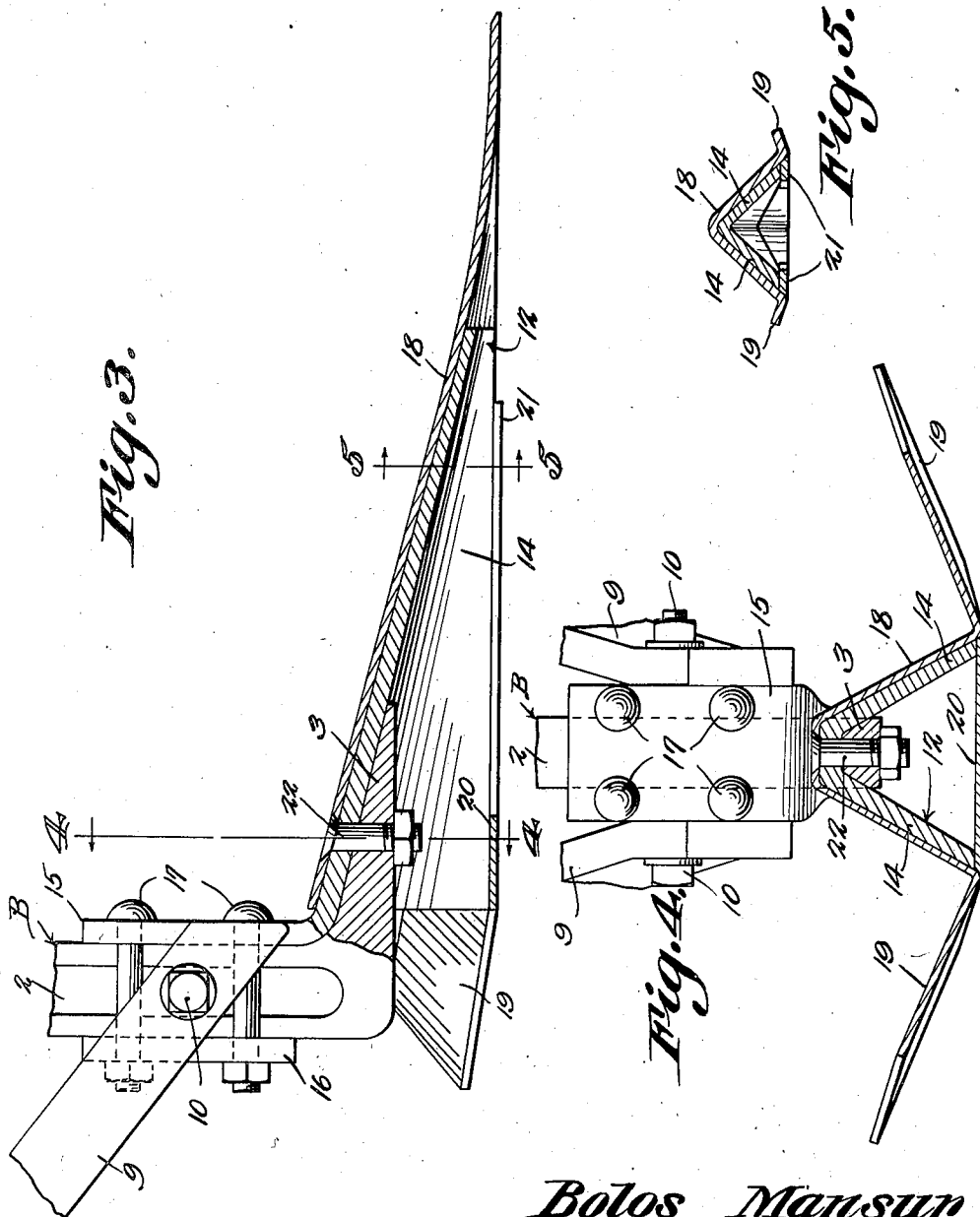
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UNITED STATES PATENT OFFICE

2,302,785

PLOW

Bolos Mansur, Baton Rouge, La.

Application September 16, 1940, Serial No. 357,046

1 Claim. (Cl. 97—197)

This invention aims to provide plow structure including a removable share which may be taken off for sharpening, novel means being supplied for supporting the share and carrying it from a plow stock and from a foot on the plow stock.

It is within the province of the disclosure to improve generally and to enhance the utility of devices of that type to which the present invention appertains.

With the above and other objects in view, which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed, may be made within the scope of what is claimed, without departing from the spirit of the invention.

In the accompanying drawings:

Fig. 1 shows, in side elevation, a plow constructed in accordance with the invention, parts being broken away;

Fig. 2 is a bottom plan, wherein parts are broken away;

Fig. 3 is a longitudinal section of the share and adjacent parts;

Figs. 4 and 5 are sections taken, respectively, on the lines 4—4 and 5—5 of Fig. 3.

In carrying out the invention, there is provided a plow beam B, including a forwardly extended body 1, provided at its rear end with a depending stock 2, terminating in a forwardly presented foot 3. The side walls of the foot 3 diverge downwardly, and the foot may be pointed bluntly, as disclosed in Fig. 2 of the drawings.

A U-shaped bracket 4 is secured to the forward end of the body 1 of the plow beam B, and through the bracket, ahead of the body 1, extends a vertically elongated link 5, which is flattened in cross section. The numeral 6 marks a semicircular clevis plate, the straight edge of which is disposed at right angles to the line of advance of the plow. Draft connections 7 are assembled with the forward portion of the clevis plate 6, and are spaced apart circumferentially, so that the draft may be applied straight ahead, or laterally, as desired. In the rear part of the clevis plate 6 there is a semicircular opening 8, the straight edge of which is disposed parallel to the rear edge of the plate, the link 5 being engaged with the clevis plate 6, through the opening 8. The construction is such that the clevis plate 6 can have a limited vertical movement on the forward portion of the link 5.

The plow handles 9 may be of any desired con-

struction, and are connected to the lower part of the stock 2 by a securing element 10, the handles being sustained from the plow beam B by braces 11.

The numeral 12 designates a forwardly-extended support, saddled across the foot 3, the support including side walls 14 which slant downwardly and outwardly, to conform to the cross section of the foot 3, the side walls converging as they extend forwardly. The support 12 is considerably longer than the foot 3, the upper edge or ridge having a downwardly and forwardly disposed slant, corresponding to the downward and forward slant of the upper edge of the foot 3.

At its top and at its rear end, the support 12 is supplied with an upwardly projecting arm 15, disposed against the forward edge of the stock 2, and fitting closely between the forward ends of the plow handles 9. A clamp plate 16 is disposed against the rear edge of the stock 2 and is connected detachably to the arm 15 by securing devices 17, in contact with the sides of the stock 2.

Over the support 12 is placed a plow share 18 of inverted V-shape, to fit closely on the side walls 14 of the support. The plow share 18 is somewhat longer than the support 12, and carries laterally extended and upwardly inclined wings 19, which diverge as they extend rearwardly.

The lower edges of the side walls of the plow share 18 are connected, at the rear end of the plow share, by a transverse brace or cross piece 20, engaged beneath the lower edges of the side walls 14 of the support 12. Along their lower, longitudinal edges, the side walls of the plow share 18 have inwardly extended flanges 21, extended backwardly to the cross piece 20 and engaged with the lower edges of the side walls 14 of the support 12.

The plow share 18, the support 12 and the foot 3 of the standard 2 are joined together by a securing member 22, such as a bolt located midway between the lateral edges of the plow share.

It will be observed that, by removing the securing member 22, the plow share 18 may be taken out readily for sharpening. The securing member 22 and the bolts 17 afford a means whereby the entire device may be taken apart readily and with equal facility be assembled with the stock 2.

Having thus described the invention, what is claimed is:

Plow structure comprising a stock having a forwardly presented foot, a support seated on top of the foot and provided at its rear end with an upstanding arm, the support having downward-

ly diverging walls engaging the foot, means for securing the arm to the stock, a share seated on top of the support and having downwardly diverging walls conforming to those of the support, a releasable securing element connecting the foot and the upper portions of the support and the share, a substantially horizontal brace connecting the lower edges of the walls of the share at the rear ends thereof, and engaging the low-

er edges of the support, the brace extending underneath the securing element, to serve as a guard therefor, the walls of the share being provided with transversely spaced, inwardly projecting, longitudinal flanges, extended from points closely adjacent to the forward end of the support, backwardly to the brace, the flanges engaging the lower edges of the walls of the support.

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