

No. 664,527.

Patented Dec. 25, 1900.

W. B. BRACEWELL.

PLOW ATTACHMENT.

(Application filed Aug. 4, 1900.)

(No Model.)

Fig. 1.

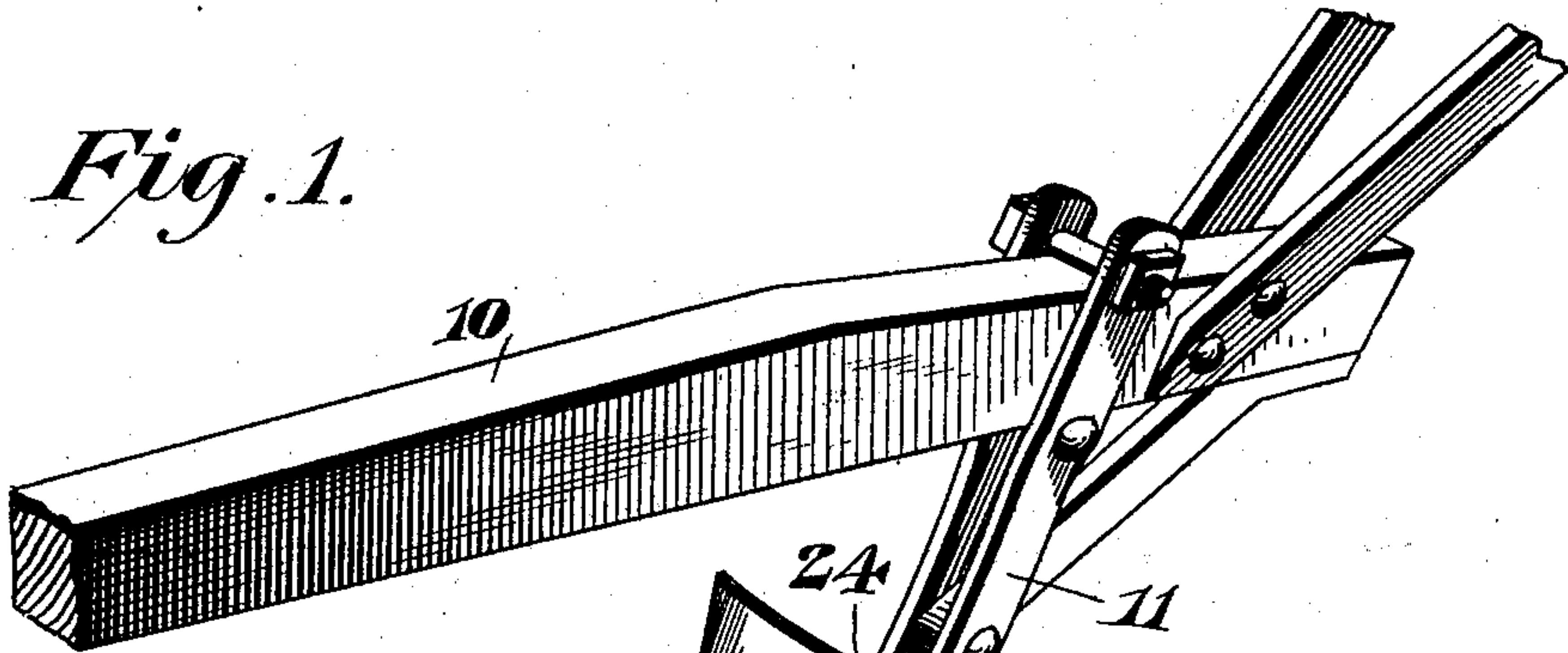


Fig. 5.

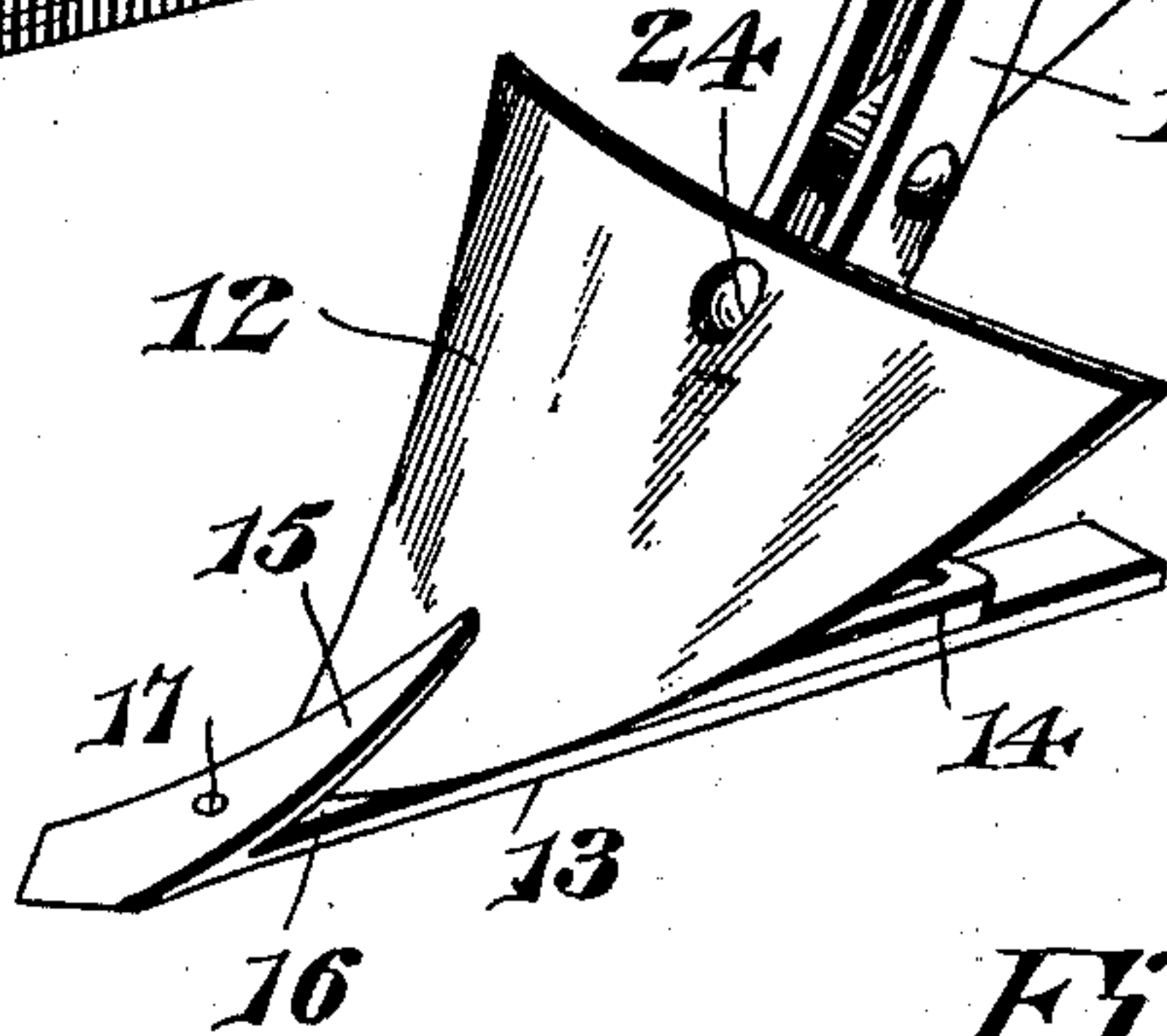
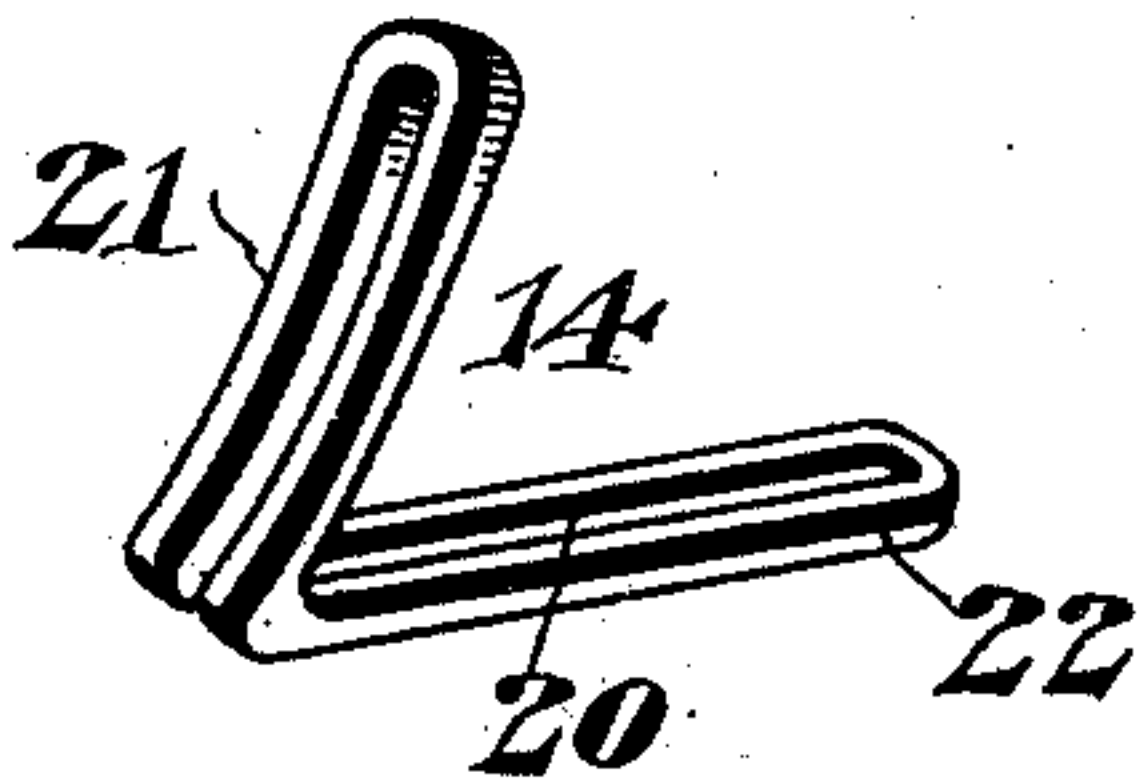


Fig. 4.

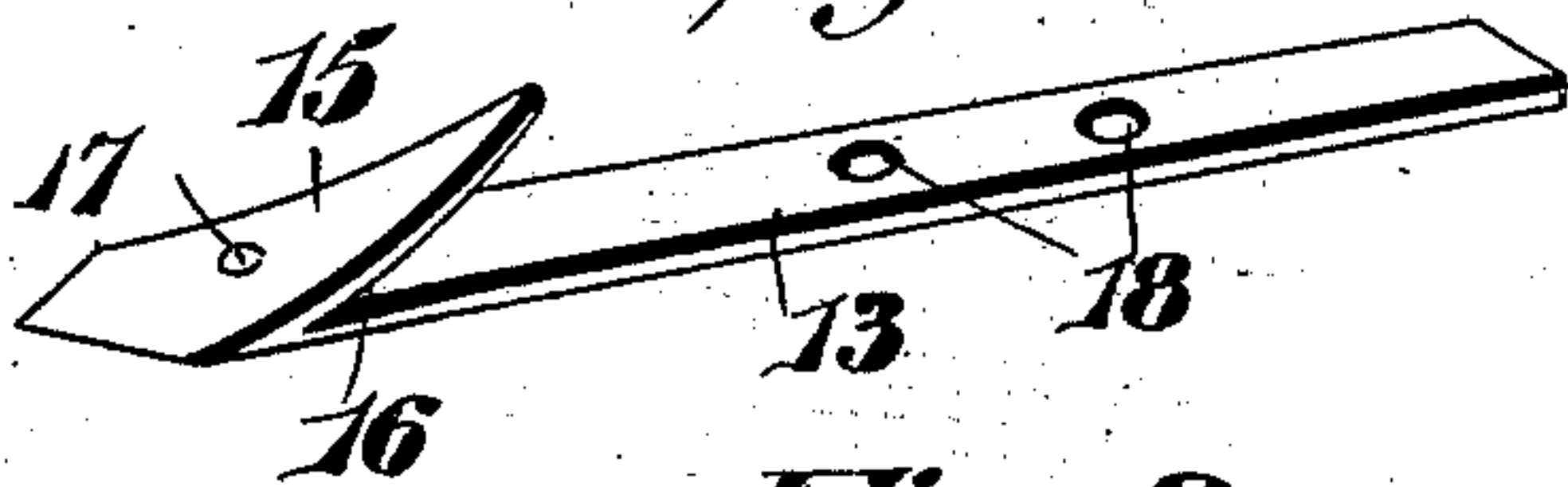
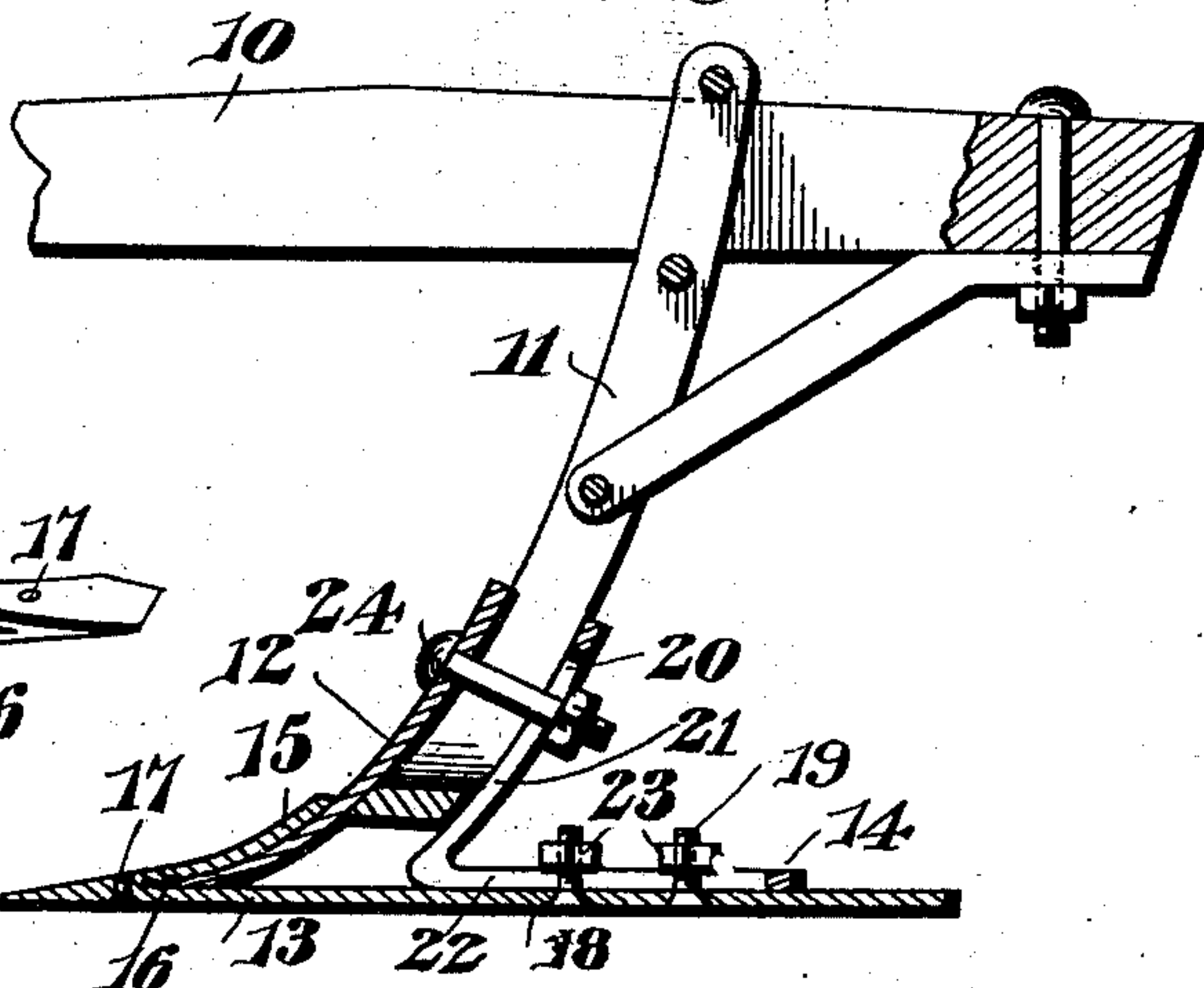
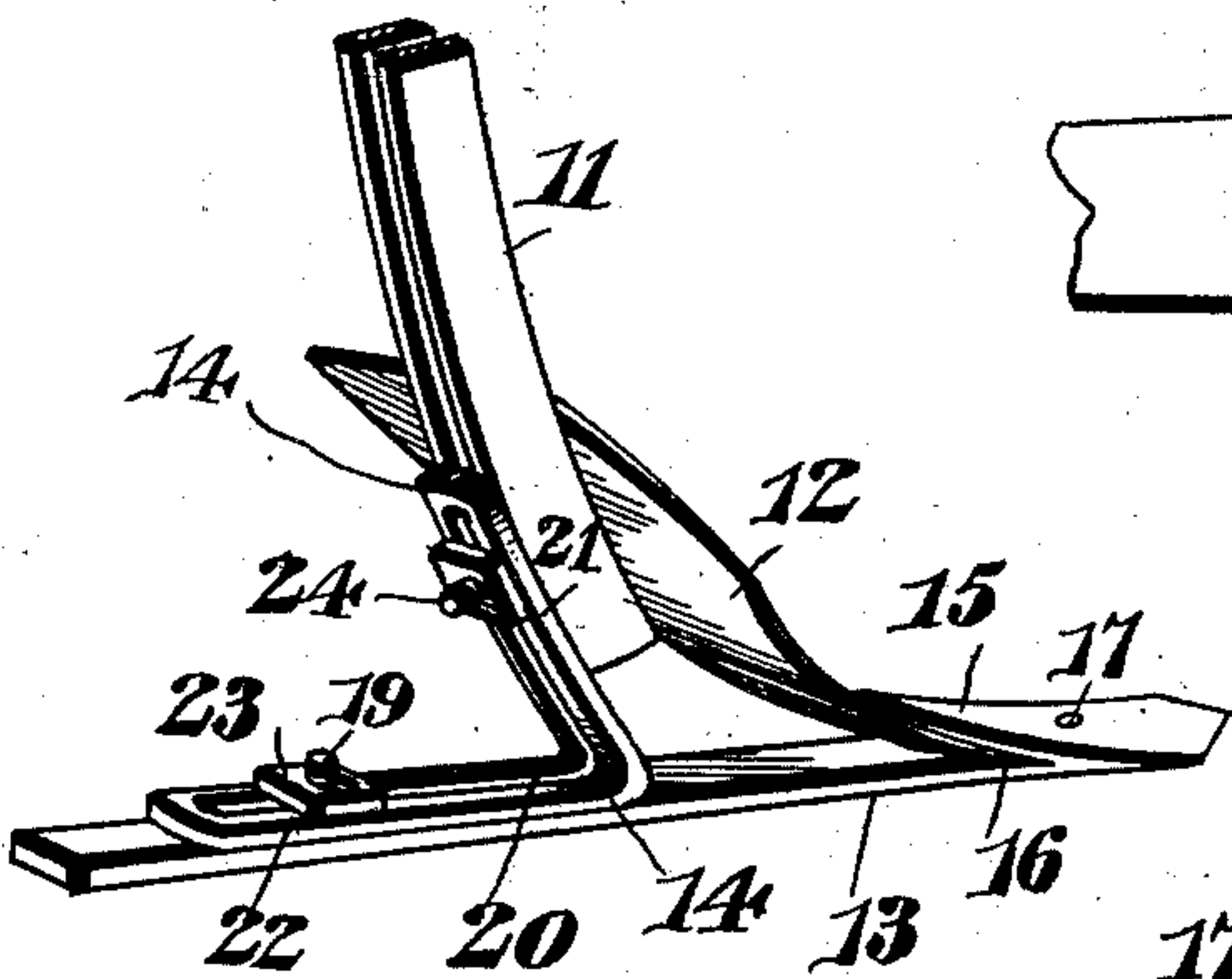


Fig. 3.

Fig. 2.



W. B. Bracewell, Inventor

By

E. G. Siggers

Attorney

Witnesses
Jas. E. McClathran
B. G. Foster

UNITED STATES PATENT OFFICE.

WILLIAM B. BRACEWELL, OF COTTON, TEXAS.

PLOW ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 664,527, dated December 25, 1900.

Application filed August 4, 1900. Serial No. 25,902. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM B. BRACEWELL, a citizen of the United States, residing at Cotton, in the county of Grimes and State of Texas, have invented a new and useful Plow Attachment, of which the following is a specification.

The present invention relates to improvements in plows, the object being to provide an attachment in the form of a shoe that may be applied to any ordinary plow and which is adapted to run longitudinally in the furrow, loosening the earth in front of the sweep and forming a bearing-surface, with a resulting steadiness in the movement of the plow, and whereby the draft strain is greatly decreased.

One of the particular objects is the provision of novel means for securing the shoe in place, said securing means being adjustable in order that the attachment may be applied to different styles of plows and the position of the shoe on the plow changed as desired to meet the different kinds of work.

In order that the invention may be readily understood by those skilled in the art, the preferred form is illustrated in the accompanying drawings and described in the following specification, of which the said drawings form a part.

In the drawings, Figure 1 is a perspective view of an ordinary shovel-plow, showing the improved attachment placed thereon. Fig. 2 is a perspective view of the same looking in an opposite direction. Fig. 3 is a longitudinal section. Fig. 4 is a detail perspective of the shoe. Fig. 5 is a detail perspective of the angle-bracket.

Similar numerals of reference designate corresponding parts in the several figures of the drawings.

In order that the application of the device may be clearly understood, an ordinary shovel-plow is illustrated, of which 10 designates the beam; 11, the standard, which comprises a pair of spaced arms whose upper ends embrace the beam, and 12 the shovel-sweep or moldboard, secured to the lower end of the standard 11.

The improvement comprises a furrow shoe or slide 13, secured to the lower end of the plow by means of the angle-bracket 14. The

shoe 13 consists of a metallic bar rectangular in cross-section and having at one end the backwardly-extending upturned lip 15, that is slightly curved and forms a notch 16, in which the point of the plow is secured. This end of the shoe is broadened slightly and is pointed, forming a nose which works in advance of the shovel and loosens the earth and roots. In order to strengthen the point of the shoe, a rivet 17 is arranged vertically through the shoe and lip at their points of intersection, thus obviating any liability of breaking at this point. The shoe is also provided with a pair of bolt-holes 18, which pass vertically through the same and receive bolts 19, by means of which the shoe is secured to the angular bracket 14. The angular bracket 14 comprises a metallic bar having a longitudinal slot 20 and bent to form a pair of arms 21 and 22, which are adapted to conform to and rest against the back of the standard and the upper surface of the shoe 13, respectively. The bolts 19 pass through the slot of the arm 22, and nuts 23, arranged upon said bolts, engage the upper surface of the arm, and thereby clamp the shoe rigidly to the same. A bolt 24 is arranged to pass through the slot of the arm 21 and through the standard 11. Preferably the same bolt that fastens the shovel is used for clamping the arm to the standard.

In applying the device the point of the plow is arranged in the notch 16 and the angle-bracket is adjusted upon the shoe until the arm 21 rests against the standard. The nuts 23 are then tightened. By this means it will be seen that the shoe may be applied to different sizes and styles of plows. In order that the depth of penetration of the plow may be regulated, the angle of inclination of the shoe may be readily changed by adjusting the arm 21 upon the standard. This is done by loosening the nut of the bolt 24, whereupon the slot 20 will allow the arm to be raised or lowered, as desired.

From the foregoing it is thought that the construction, operation, and many advantages of the herein-described plow attachment will be readily apparent to those skilled in the art without further description, and it will be understood that various changes in the form, proportion, and minor details of

construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

Having now described the invention, what is claimed as new, and desired to be secured by Letters Patent, is—

1. In a plow attachment, the combination with the standard and plow-point, of a furrow-shoe interlocked at one end with the plow-point and extended rearwardly therefrom, and a brace interposed between the standard and the rearwardly-extended portion of the shoe and rigidly connected to both.

2. In a plow attachment, the combination with the standard and plow-point, of a furrow-shoe interlocked at one end with the plow-point and extended rearwardly therefrom, and a brace interposed between the standard and the rearwardly-extended portion of the shoe and adjustably connected to the standard.

3. In a plow attachment, the combination with the standard and plow-point, of a furrow-shoe interlocked at one end with the plow-point and extended rearwardly therefrom and a brace interposed between the standard and the rearwardly-extended portion of the shoe and adjustably connected to the standard at one end and having a longitudinal adjustable engagement with the shoe at its opposite ends.

4. A plow attachment comprising a shoe adapted to interlock with the point of a plow,

and a brace having a longitudinal adjustable connection with the shoe, and means for securing said bracket to the plow-standard.

5. A plow attachment comprising a shoe adapted to interlock with the point of a plow and have its front end project beyond the front portion of the same, and a brace having a longitudinal adjustable connection with the shoe, means for securing said brace in fixed position on the shoe, and means for adjustably securing said bracket to a plow-standard.

6. In a plow attachment, the combination with the standard and plow-point, of a furrow-shoe having a detachable interlocking engagement at one end with the point and extending rearwardly beyond the standard, and an angular brace arranged in the angle formed by said standard and rearwardly-extending portion of the shoe, the arms of said brace resting flat upon the standard and shoe respectively and provided with slots, and bolts passing through the standard and shoe respectively so that the shoe is longitudinally adjustable upon the brace and the brace is longitudinally adjustable upon the standard.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

WILLIAM B. BRACEWELL.

Witnesses:

W. S. STAMPLEY,

G. C. HALL.