

No. 622,803.

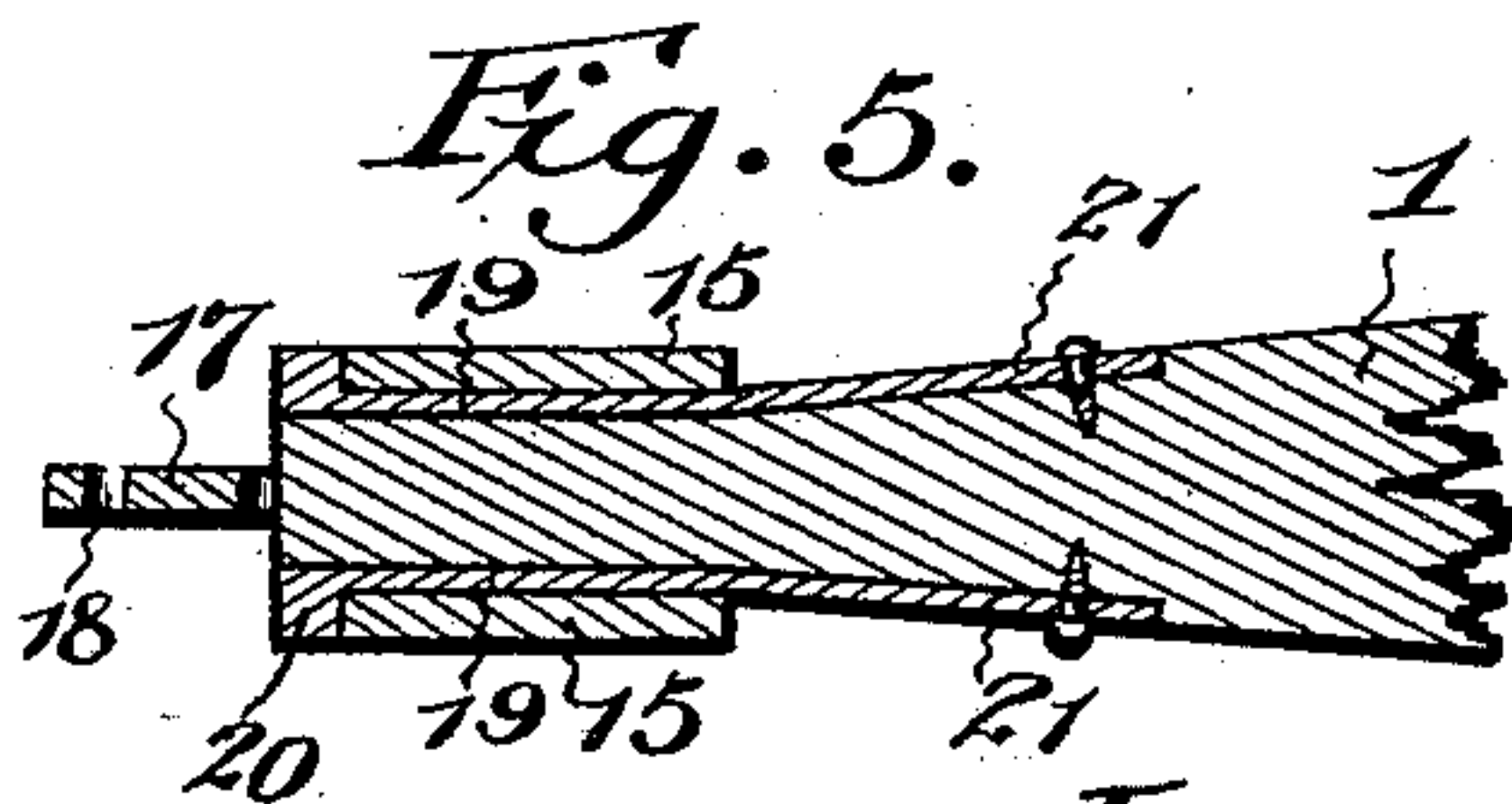
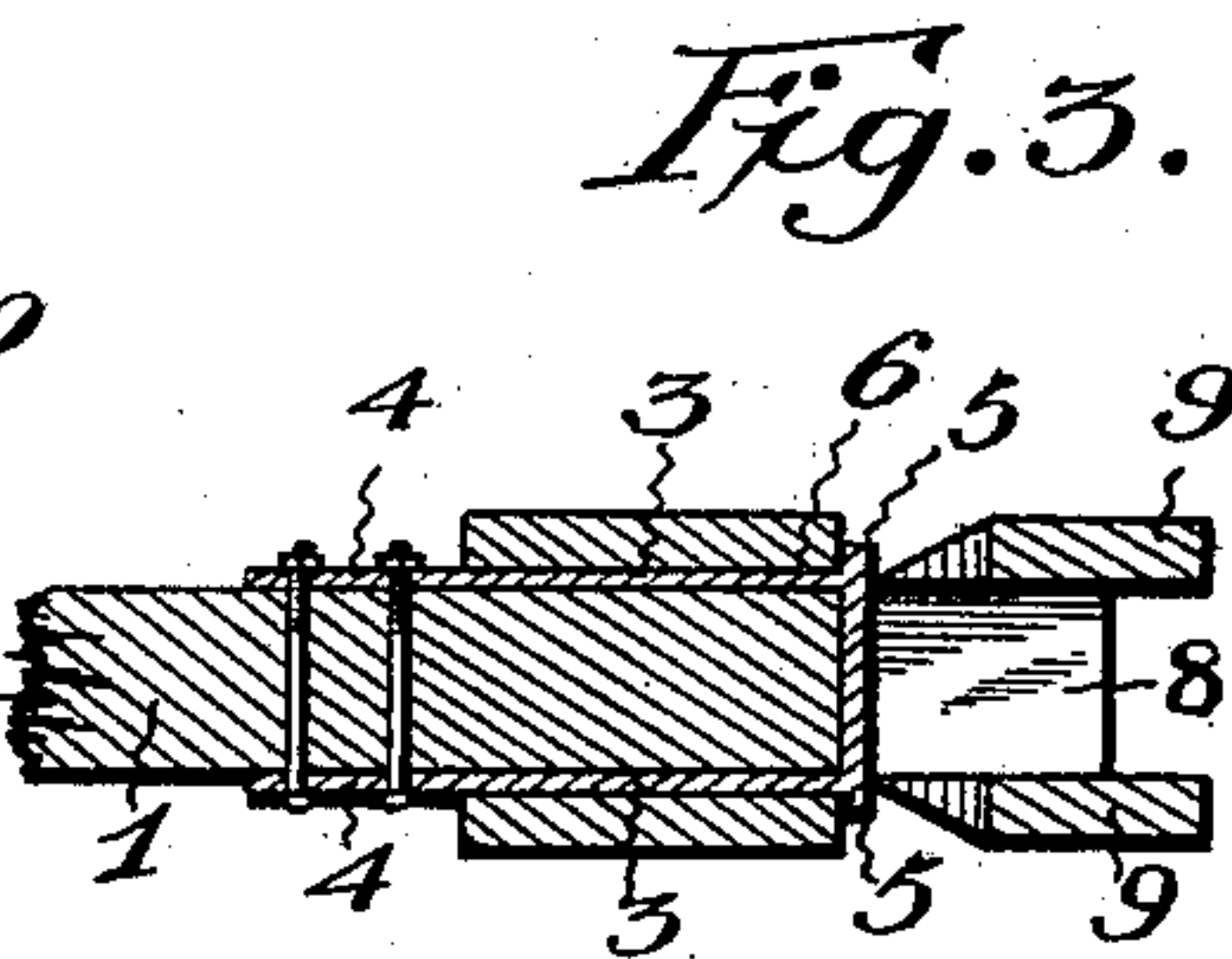
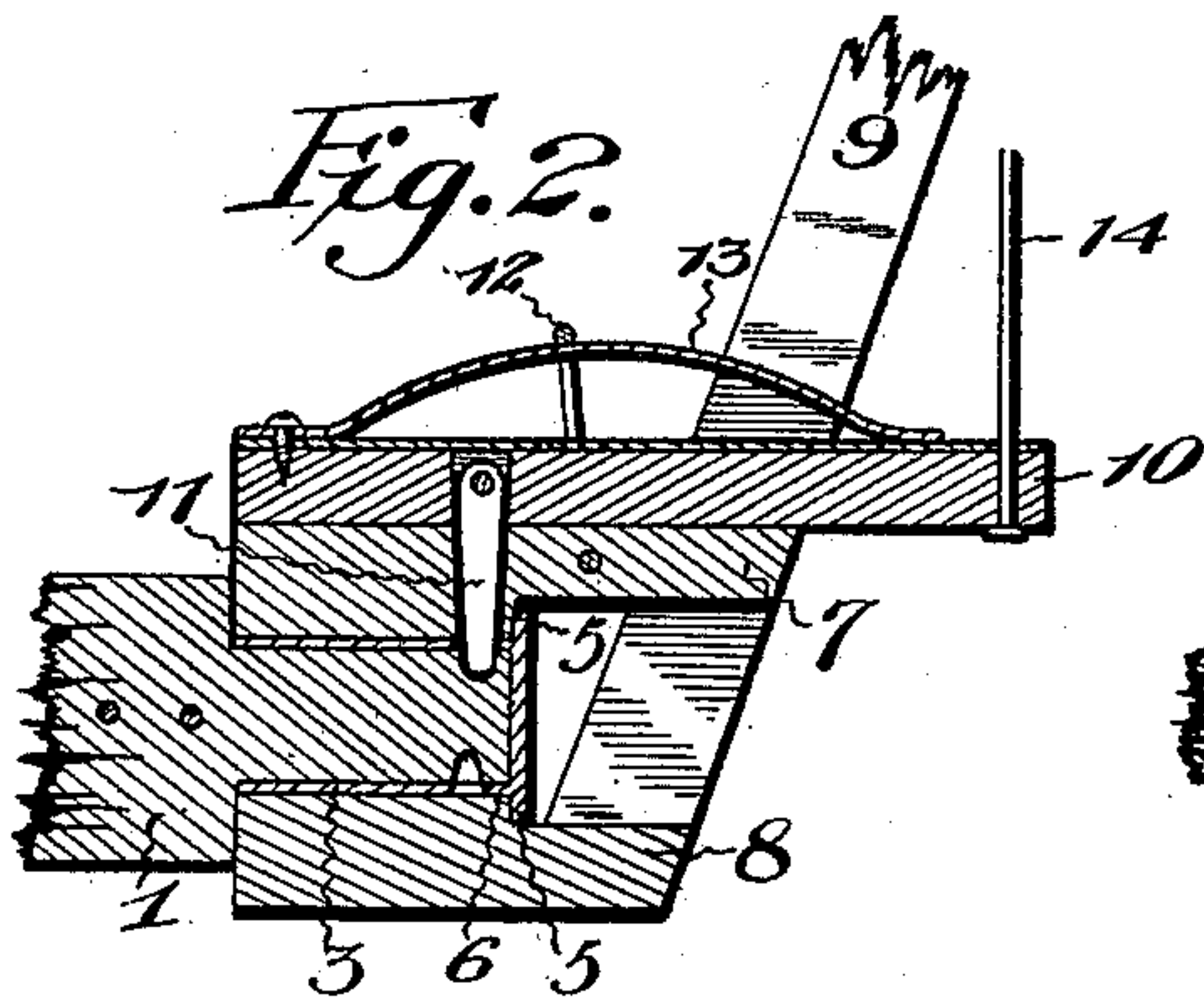
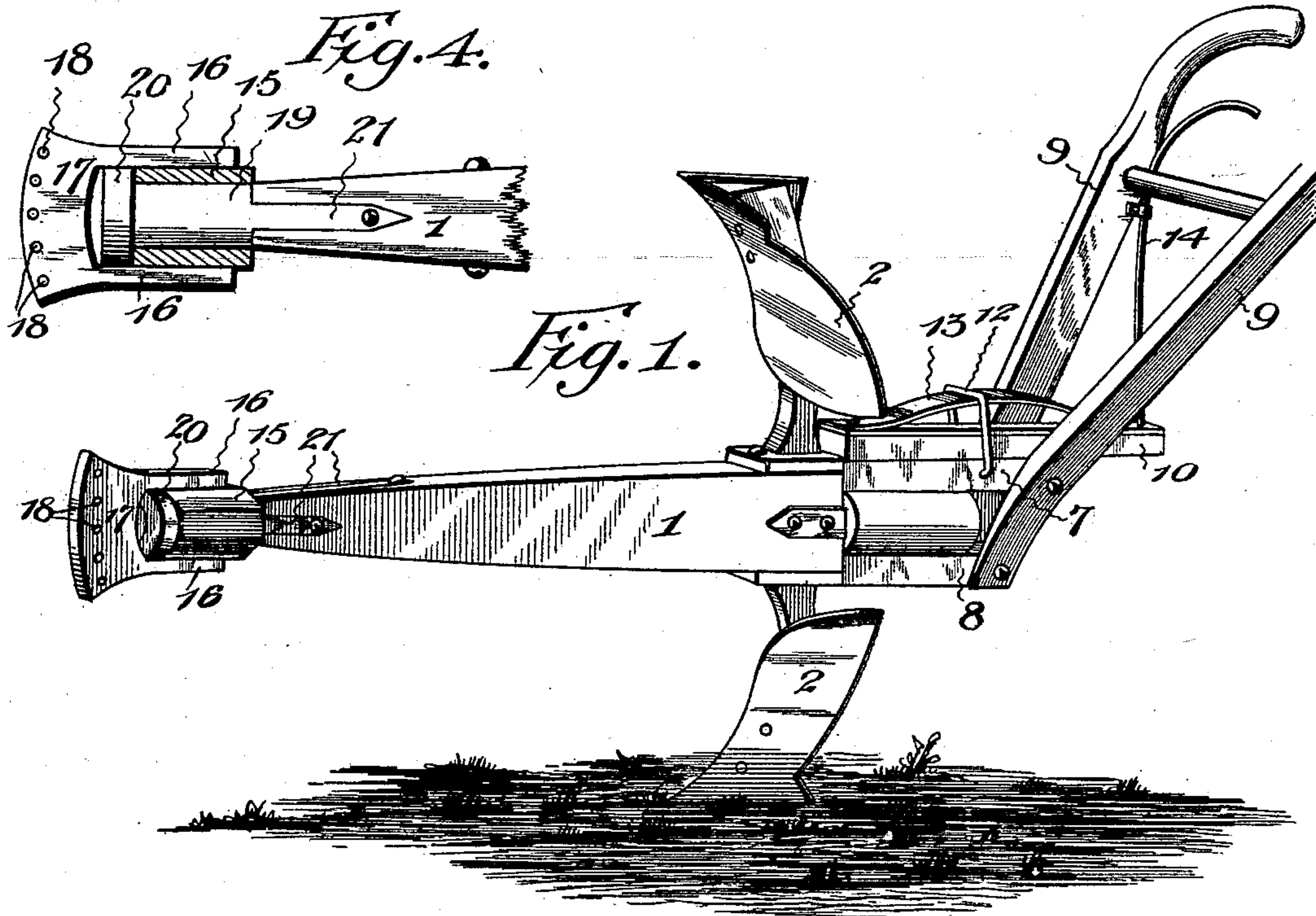
L. S. HORTON.

Patented Apr. 11, 1899.

PLOW.

(Application filed May 14, 1898.)

(No Model.)



Witnesses

A. Roy Appleman

V. B. Fillyard.

By *his* Attorneys,

Louis S. Horton, Inventor.

Chas Snow & Co

UNITED STATES PATENT OFFICE.

LOUIS SCOTT HORTON, OF FAIRVIEW, ARKANSAS.

PLOW.

SPECIFICATION forming part of Letters Patent No. 622,803, dated April 11, 1899.

Application filed May 14, 1898. Serial No. 680,708. (No model.)

To all whom it may concern:

Be it known that I, LOUIS SCOTT HORTON, a citizen of the United States, residing at Fairview, in the county of Dallas and State of Arkansas, have invented a new and useful Plow, of which the following is a specification.

This invention has relation to that variety of plows which are designed most especially for turning or breaking land on a hillside and which require the relation of the plow-point to be changed at the end of each row, so as to turn the furrow down the slope or incline of the hill.

The improvement relates more particularly to the means for connecting the plow-beam with the handles and the clevis with the plow-beam, whereby the latter can be turned without changing the relative position of the clevis and handle.

For a full understanding of the merits and advantages of the invention reference is to be had to the accompanying drawings and the following description.

The improvement is susceptible of various changes in the form, proportion, and the minor details of construction without departing from the principle or sacrificing any of the advantages thereof, and to a full disclosure of the invention an adaptation thereof is shown in the accompanying drawings, in which—

Figure 1 is a perspective view of a plow, showing the application of the invention. Fig. 2 is a longitudinal section of the inner end portion of the beam, showing the relation of the connections between it and the handle. Fig. 3 is a horizontal section of the parts illustrated in Fig. 2. Fig. 4 is a side view of the clevis and the front end portion of the beam, a portion of the clevis being broken away. Fig. 5 is a horizontal section of the parts shown in Fig. 4.

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

The beam 1 has its rear end portion reduced and provided with right and left hand plows 2, secured to the upper and lower sides of the beam. A thimble 3 is applied to the reduced end of the beam and is provided at its front end with straps 4, which embrace the sides of the beam and are secured thereto,

and having its rear end formed with an outer flange 5 to engage with the rear end of a socket 6 and prevent forward movement or displacement of the beam after the parts have been assembled.

The socket 6 is preferably a casting and is formed with upper and lower ribs 7 and 8, respectively, which project in the rear of the socket and have the handles 9 secured to the sides thereof. A bar 10 is placed upon the upper rib 7 and has a pin 11 loosely connected therewith and adapted to operate through a vertical opening in the rib 7 and adapted to have its inner end project into the socket and enter one of two openings formed in the thimble 3, so as to secure the latter and the beam in an adjusted position. A bail 12 has loose connection at its lower end with the rear extension of the rib 7 and embraces the sides of the bar 10, so as to hold the latter in place and direct it in its vertical movements. A flat spring 13, of bow form, is secured at one end to the bar 10, and its middle portion engages with the upper end of the bail 12 and exerts a downward pressure upon the bar 10, so as to hold the pin 11 in engagement with the thimble, whereby the beam 1 is prevented from accidental turning when moved to the required position. A rod 14 has connection at its lower end with the rear end portion of the bar 10, and its upper end is curved and extends within convenient reach of the grip portion of one of the handles, so as to be pulled upon when it is required to disengage the pin 11 from the thimble to admit of the handle and socket being turned when it is required to change the relation of the beam.

The clevis comprises a sleeve 15, upper and lower arms 16, and a connecting portion 17, uniting the outer or forward ends of the arm 16 and having a series of openings 18 for adjustable connection therewith of the draft. The parts 15, 16, and 17 are preferably a single casting, thereby obviating the necessity for the provision of joints and resulting in a simple and durable construction. The front end of the beam is reduced and receives a sleeve 19, having an outer flange 20 at its front end and provided at its inner end with a series of straps 21 to embrace the sides of the beam 1, to which they are secured in any substantial manner. The clevis is mounted upon the

sleeve 19 so as to turn freely thereon, and the outer flange 20 of the sleeve 19 overlaps and engages with the front end of the sleeve 15 of the clevis and prevents outward displacement of the clevis when the draft is applied thereto.

When it is required to change the relation of the plow, as when at the end of a row and prior to recrossing a field, the rod 14 is pulled upon, thereby disengaging the pin 11 from the thimble 3, after which the beam 1 can be turned with reference to the handle so as to admit of the desired result being attained. The beam turning independently of the clevis avoids the necessity for disconnecting the draft from the beam and again hitching after the beam has been turned.

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

1. In a reversible plow, the combination with a beam having upper and lower plows and having its rear end reduced, of a socket having the handles applied thereto, a thimble secured to the reduced end portion of the plow-beam and rotatably mounted in the socket and having an outer flange at its rear end to come in contact with the rear end of the socket, and means for securing the plow-beam and socket in proper relation substantially as set forth.

2. In a reversible plow, the combination with a beam having its rear end reduced and provided with upper and lower plows, and a thimble secured to the reduced end of the beam and having an outer flange at its rear end, of a socket having upper and lower ribs extending in the rear thereof, and adapted to receive the aforesaid reduced end and thimble of the plow-beam, and having the flanged end of the thimble abutting against the rear end of said socket, handles secured to the rear extensions of the ribs, and a bar resting against the upper rib and having a pin passing through an opening of the rib and socket and adapted to enter an opening in the thimble to hold the plow-beam in the required position, substantially as set forth.

3. In a reversible plow, the combination with a plow-beam having its rear end reduced

and provided with upper and lower shovels or plow-points, a thimble fitted upon the reduced end of the beam and having side straps at its front end to embrace the sides of the beam to which they are secured, and having its rear end outwardly flanged, of a socket provided with upper and lower ribs which are extended in the rear of the socket, handles applied to the rear extensions of the ribs, a bar placed upon the upper rib and having a pin to interlock with the thimble and secure the beam in its adjusted position, a bail applied to the upper rib of the socket and embracing the sides of the bar, a spring confined between the upper end of the bail and the said bar, and a rod having connection with the bar and adapted to be pulled upon so as to release the beam, substantially as and for the purpose set forth.

4. In a reversible plow, the combination with the beam having its front end reduced, and a sleeve fitted upon the reduced end of the beam and having an outer flange at its front end and straps at its rear end which embrace the sides of and are secured to the said beam, of a clevis comprising a sleeve rotatably mounted upon the first-mentioned sleeve and having upper and lower arms and a portion connecting the front ends of the arms and formed with a series of openings to admit of the draft having adjustable connection with the plow, substantially as set forth.

5. In a reversible plow, the combination with the beam and a sleeve fitted upon the end of the beam and having an outer flange at its front end and straps at its rear end which embrace the sides of and are secured to the said beam, of a clevis having a sleeve rotatably mounted upon the first-mentioned sleeve and formed with a series of openings to admit of the draft having adjustable connection with the plow, substantially as set forth.

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

LOUIS SCOTT HORTON.

Witnesses:

W. S. HORTON,

BELVA PAGE.