

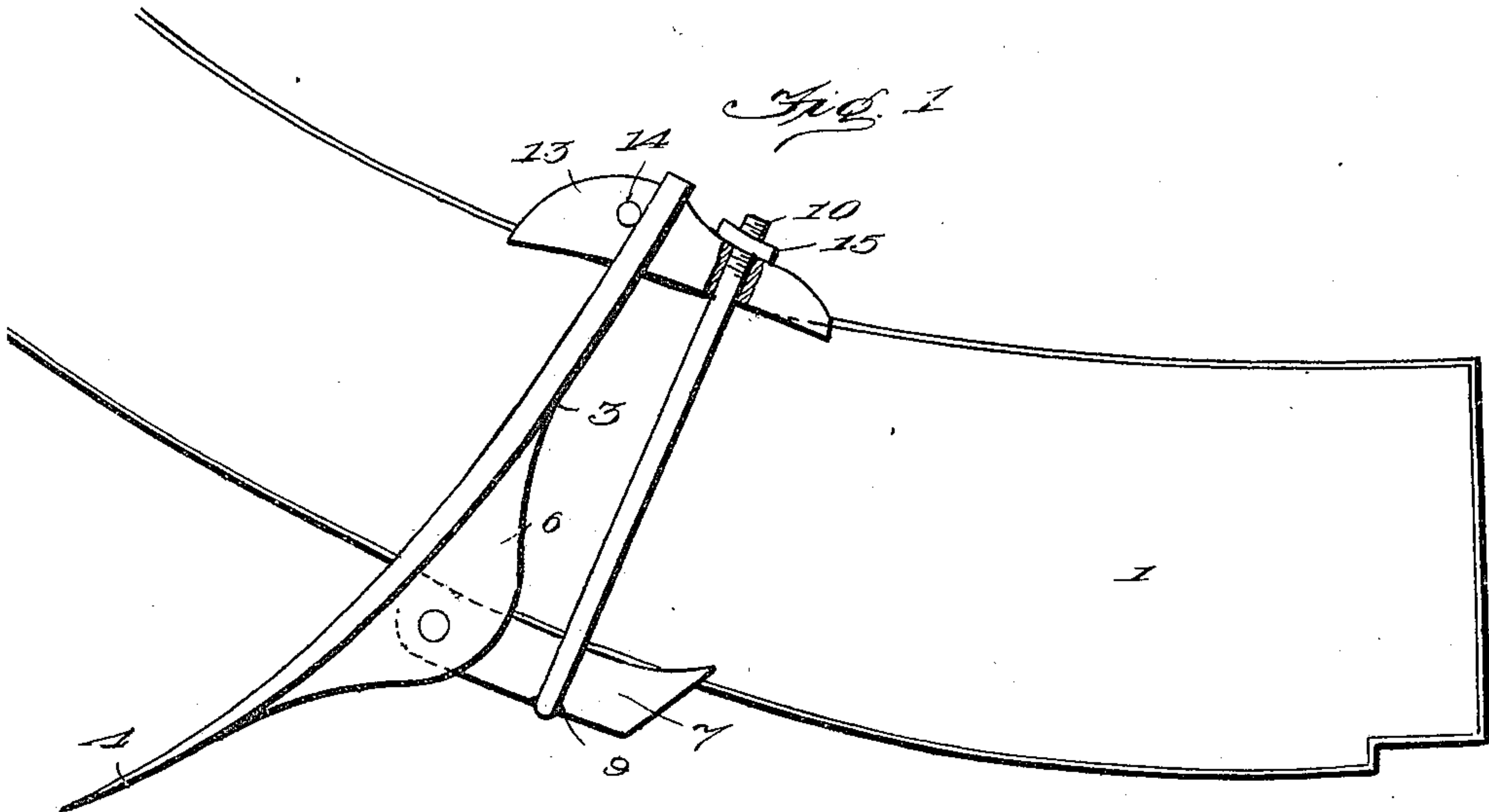
No. 670,302.

Patented Mar. 19, 1901.

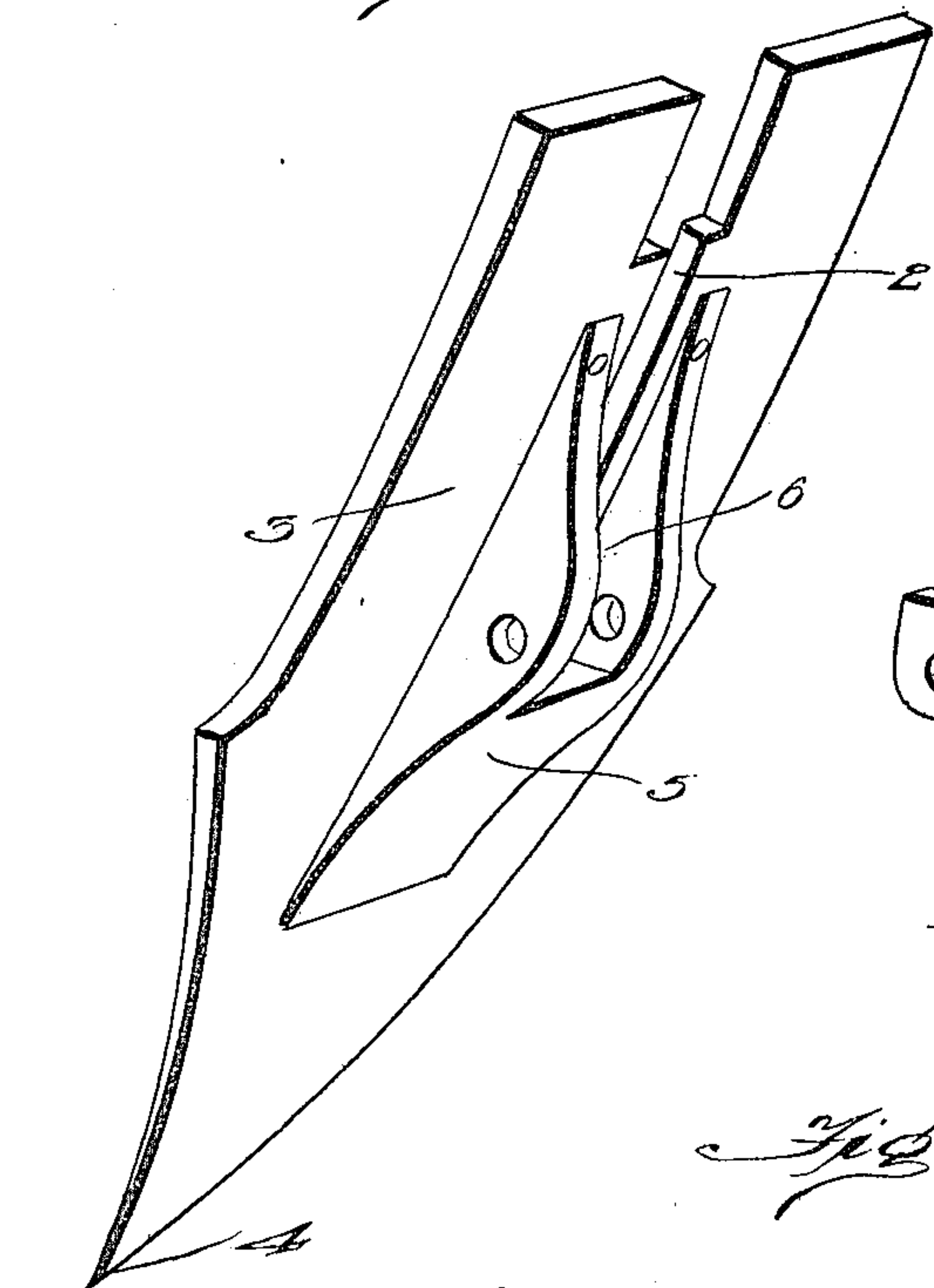
W. A. WARE.  
SHOVEL PLOW.

(Application filed Nov. 3, 1900.)

(No Model.)



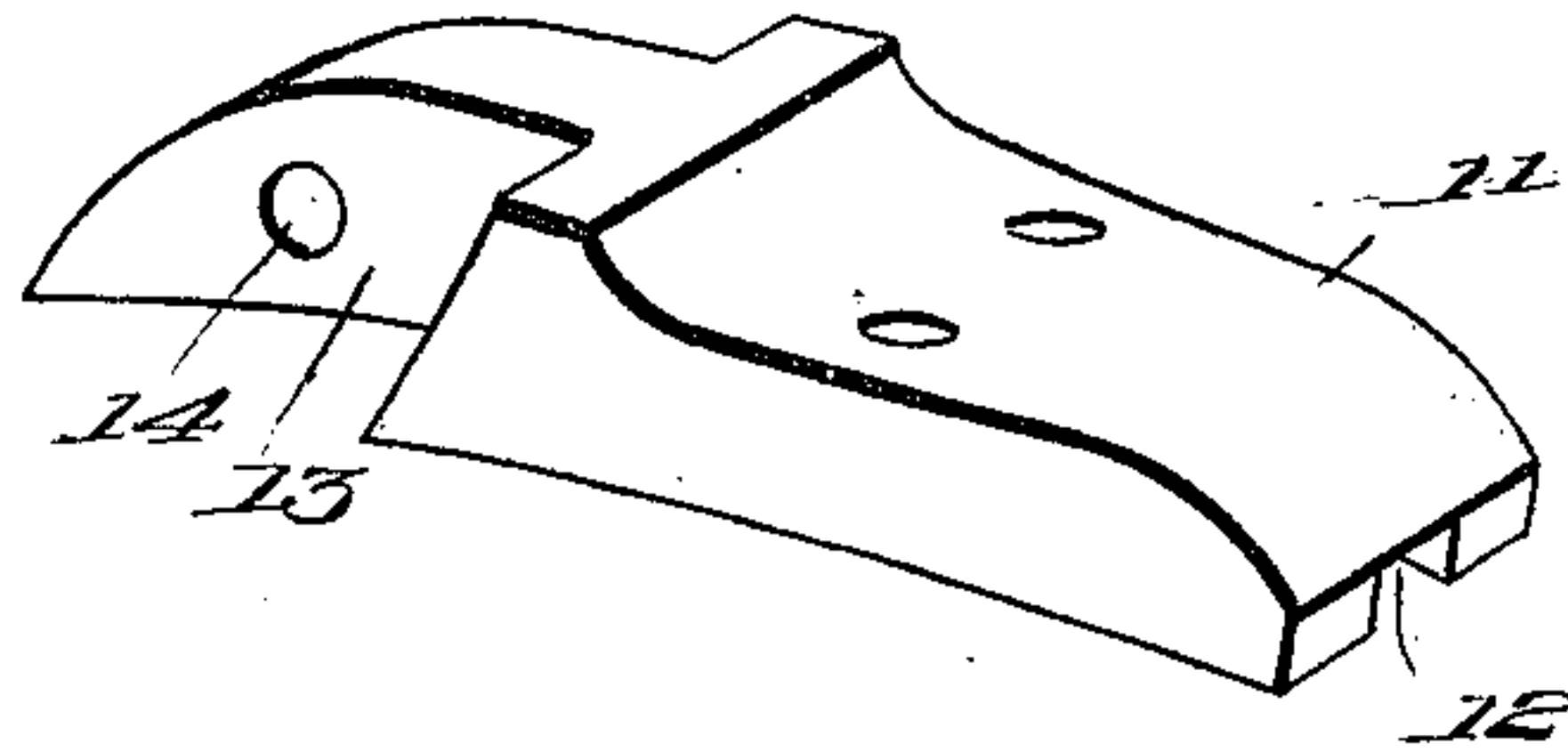
*Fig. 2.*



Witnesses

*Amos North*  
*Hubert D. Luson*

*Fig. 3.*



*Fig. 4.*



*Fig. 5.*

*10*  
Inventor  
*William A. Ware*

*Victor J. Evans.*  
Attorney

# UNITED STATES PATENT OFFICE.

WILLIAM A. WARE, OF WASHINGTON COURT-HOUSE, OHIO.

## SHOVEL-PLOW.

SPECIFICATION forming part of Letters Patent No. 670,302, dated March 19, 1901.

Application filed November 3, 1900. Serial No. 35,403. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM A. WARE, a citizen of the United States, residing at Washington Court-House, in the county of Fayette and State of Ohio, have invented new and useful Improvements in Shovel-Plows, of which the following is a specification.

This invention relates to new and useful improvements in shovel-plow attachments for corn-planters; and its primary object is to provide a device of simple construction which may be readily attached to the runner of a planter and which will cut away all weeds, &c., in the path of the runner and which will permit the seed to be planted deeper than is ordinarily done.

With this and other objects in view the invention consists in the novel construction and combination of parts hereinafter more fully described and claimed, and illustrated in the accompanying drawings, showing the preferred form of my invention, and in which—

Figure 1 is a view of the device in position. Fig. 2 is a perspective view of the plow-blade. Figs. 3 and 4 are detailed views of the clamping-blocks, and Fig. 5 is a similar view of the securing-yoke.

Referring to the drawings by numerals of reference, 1 is a runner of any ordinary construction adapted to extend through a slot 2, extending longitudinally within a plate 3, forming the plow. This plate is of any desired form and preferably pointed, as at 4. A block 5 is secured on the rear face of the blade and is provided with a slot 6, within which is pivoted one end of a clamping-block 7. This block is grooved along its upper edge, as at 8, for the reception of the lower edge of the runner. A recess 9 is formed within the bottom of said block and receives a yoke 10, which extends on opposite sides of the runner and the threaded ends of which project through a clamping-block 11 on the top of the runner 1. A groove 12 is formed within the bottom of the block for the reception of the edge of the runner. A tongue 13 extends forward from the block through the slot 2 and is provided with laterally-extending pins 14. These pins are formed of such material that

they will break when the point of the plow-blade contacts with an immovable obstruction, thereby preventing injury thereto. It will be seen that by screwing the nuts 15 upon the ends of the yoke the blocks 7 and 11 will be firmly clamped in position.

In the foregoing description I have shown the preferred form of my invention; but I do not limit myself thereto, as I am aware that modifications may be made therein without departing from the spirit or sacrificing the advantages thereof, and I therefore reserve the right to make all such changes as fairly fall within the scope of my invention.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination with a runner for corn-planters; of a slotted blade, a block pivoted thereto; a second block; and means for adjusting said blocks from and toward each other.

2. The combination with a runner for corn-planters, of a blade, a block secured thereto, a second block and means for adjusting said blocks from or toward each other.

3. The combination with a runner for corn-planters; of a slotted blade, a block hinged thereto; a second block; a yoke connecting said blocks; a tongue in the second block adapted to extend through the slot in the blade; and a pin to said tongue for limiting the movement of the blade.

4. The combination with a runner for corn-planters; of a slotted blade, a grooved block pivoted thereto; a second grooved block; a yoke engaging one of said blocks and extending through the remaining block; means for adjusting the blocks; a tongue to the second block adapted to extend through the slot in the blade; and a pin to said tongue for limiting the movement of the blade.

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

WILLIAM A. WARE.

Witnesses:

W. H. DIAL,

CHAS. SPRINGER.