

No. 636,140.

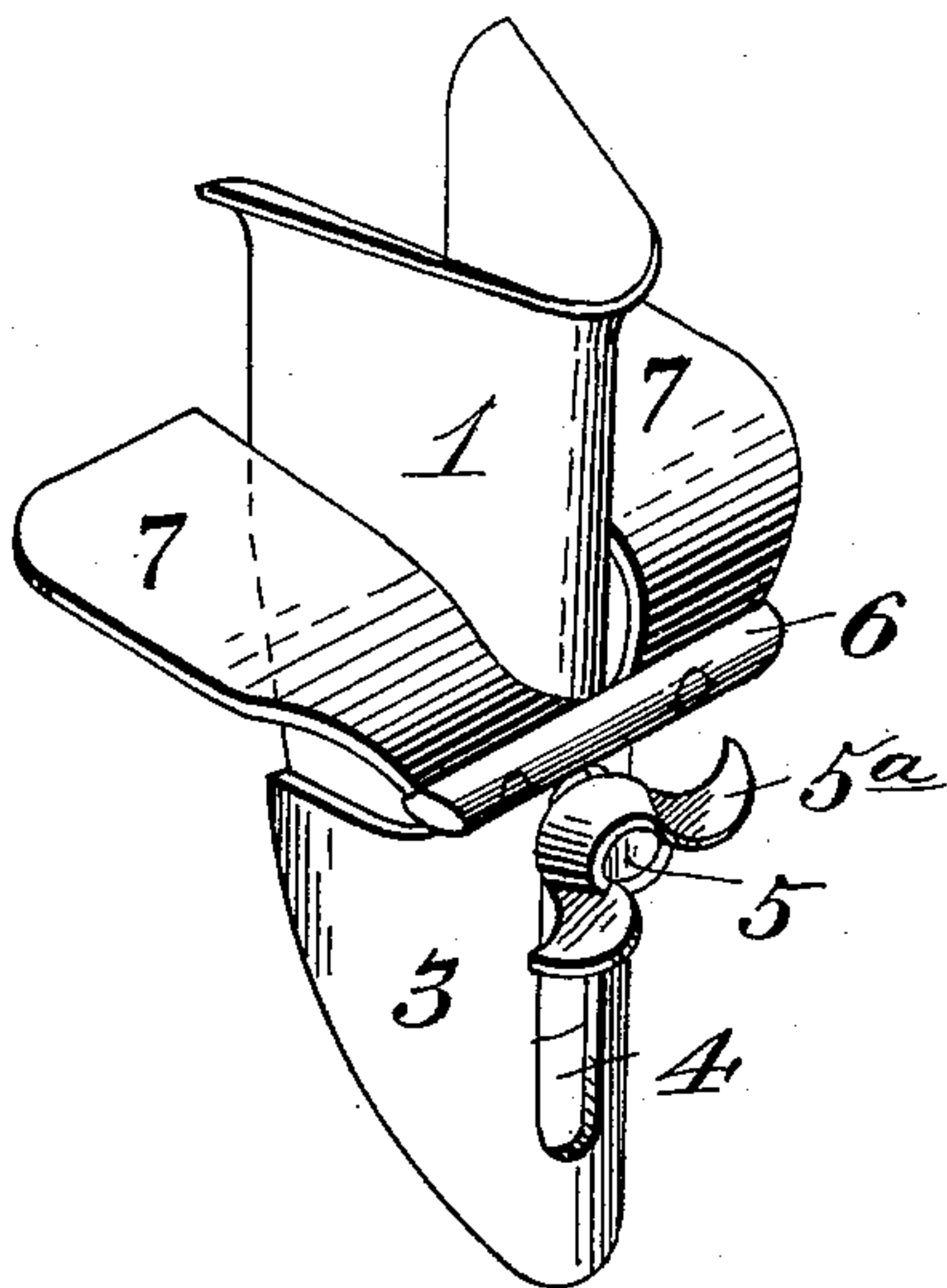
Patented Oct. 31, 1899.

J. L. HIBBS.

ATTACHMENT FOR HAND OR OTHER SEED DRILLS.

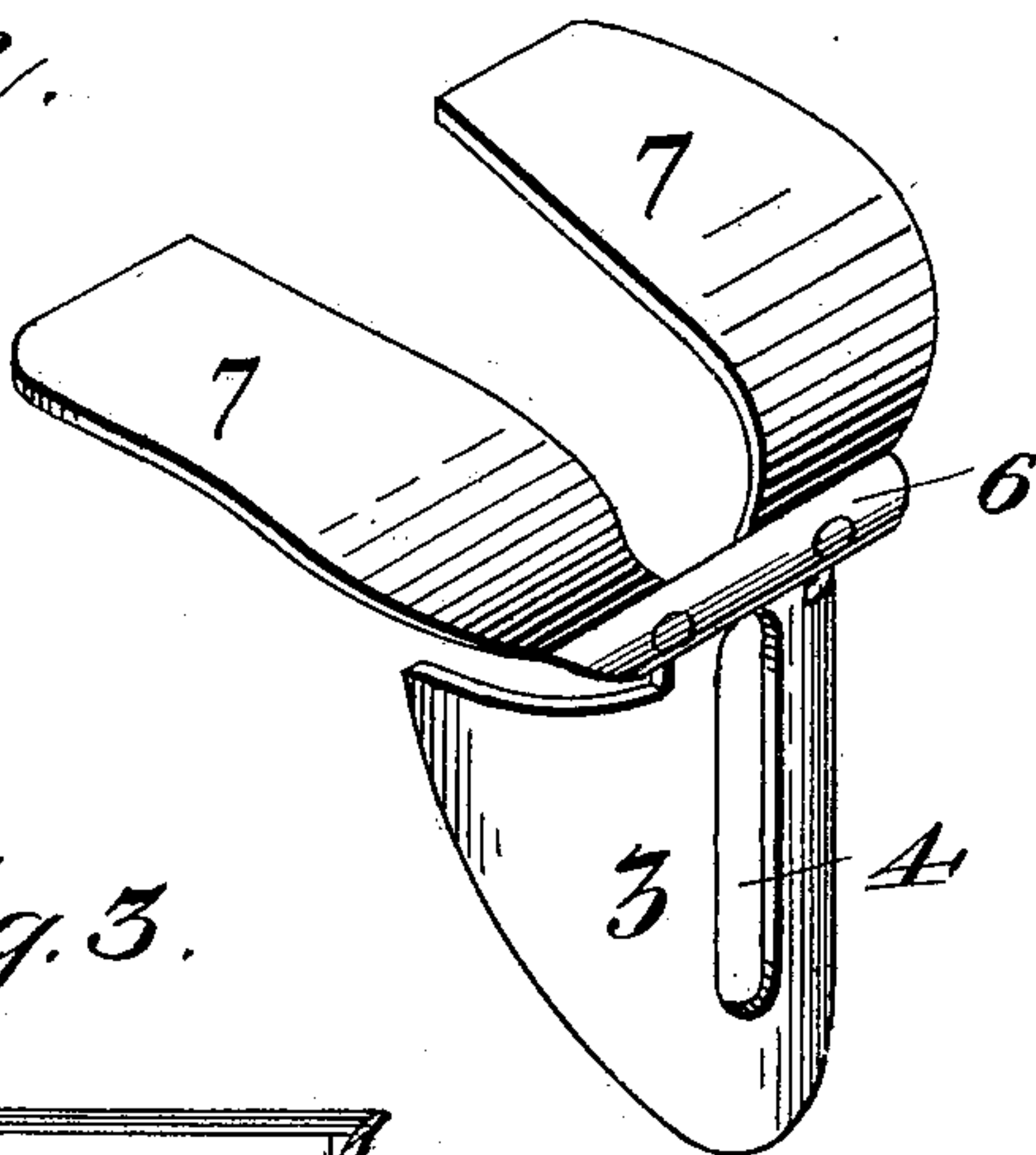
(Application filed Sept. 7, 1899.)

(No Model.)

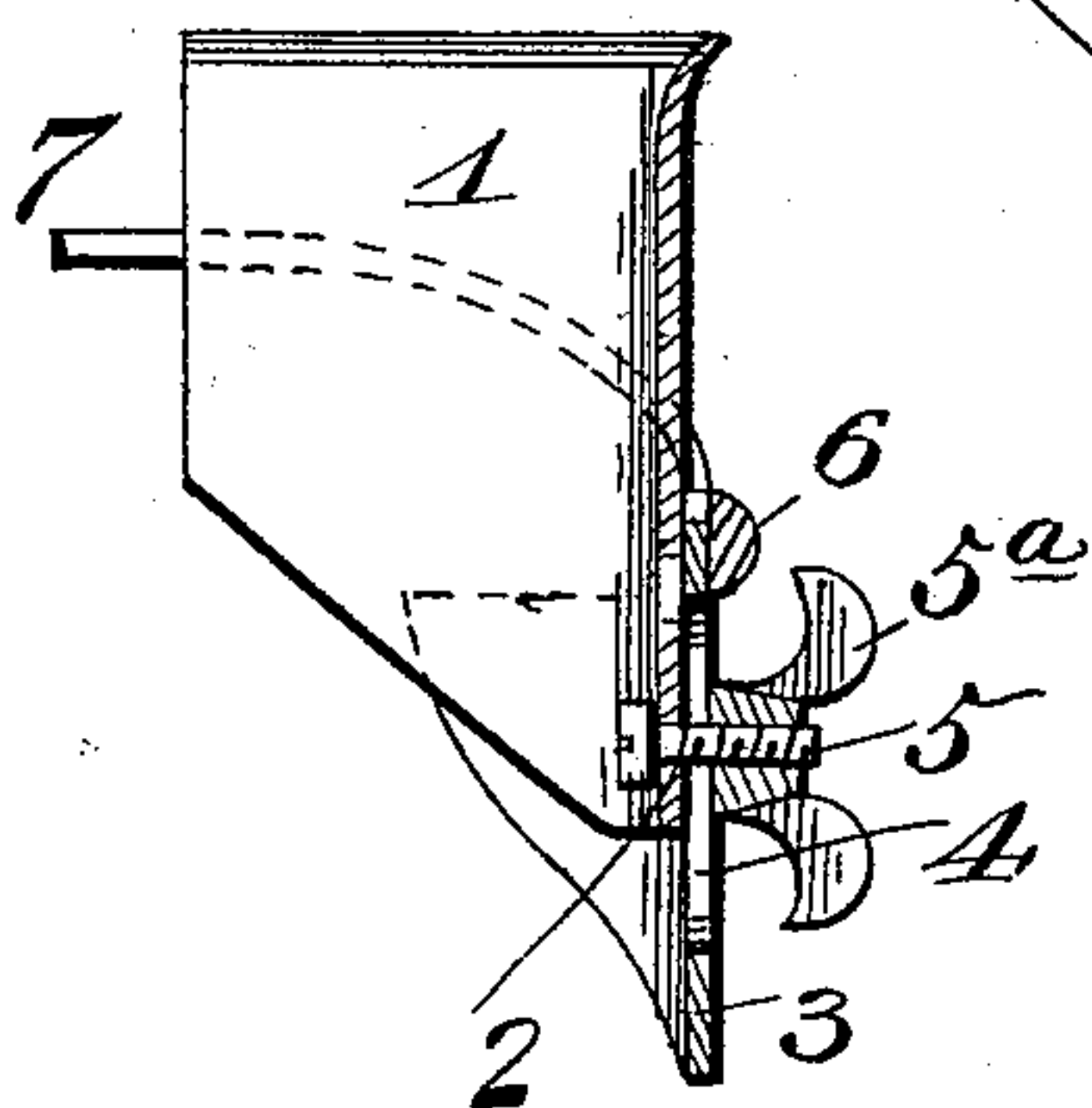


*Fig. 1.*

*Fig. 2.*



*Fig. 3.*



Witnesses:

*F. L. Ourand*  
*J. L. Coombs*

Inventor:

*John L. Hibbs*  
*By Louis Baggett Co.,*

Attorneys

# UNITED STATES PATENT OFFICE.

JOHN L. HIBBS, OF BRISTOL, PENNSYLVANIA.

## ATTACHMENT FOR HAND OR OTHER SEED-DRILLS.

SPECIFICATION forming part of Letters Patent No. 636,140, dated October 31, 1899.

Application filed September 7, 1899. Serial No. 729,773. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN L. HIBBS, a citizen of the United States, residing at Bristol, in the county of Bucks and State of Pennsylvania, have invented new and useful Improvements in Attachments for Hand or other Seed or Grain Drills, of which the following is a specification.

My invention relates to attachments for hand and other seed or grain drills; and its object is to provide an improved construction of adjustable shoe for the boot or hoe of a drill, whereby the depth of penetration of the boot, and consequently the depth of planting the seed, may be regulated and whereby also clods and trash may be thrown to one side and prevented from falling into the furrow.

The invention consists in the novel construction and combination of parts hereinafter fully described and claimed.

In the accompanying drawings, Figure 1 is a perspective view of the boot or hoe of a grain-drill provided with my improvements. Fig. 2 is a similar view of the adjustable shoe removed. Fig. 3 is a longitudinal sectional view of the boot and shoe.

In the said drawings the reference-numeral 1 designates the metallic boot or hoe of a hand or other seed or grain drill and may be of any ordinary or suitable construction. This boot, near the lower end, is formed with a slot or hole 2 for the passage of a bolt, by which the adjustable shoe is connected with the boot.

The numeral 3 designates the shoe, consisting of a single piece of metal, the lower end of which is made tapering, forming a point, and curved or bent to conform to the contour of the front side of the boot. This shoe is formed with a central vertical slot 4 for the passage of the bolt 5, which is held in place by a thumb-nut 5<sup>a</sup>. Formed integral with the upper portion of said shoe, at the upper end thereof, is a curved or semicylindrical horizontal rib 6. Formed with said ribs are two up-

wardly and rearwardly extending curved fenders or wings 7, which embrace the said boot and the inner edges of which are in contact or close proximity thereto. These fenders also act as coverers for depositing fine earth upon the seed deposited in the furrow.

The operation is as follows: The shoe is adjusted upon the boot by loosening the thumb-nut, so as to project more or less, as the case may be, below the point of the boot, according to the depth the seed are deposited. The thumb-screw is then tightened, so as to hold it in its adjusted position. The drill is now pushed or drawn across the field, when the shoe will open the furrow and the seed be deposited therein at a uniform depth. The fenders will throw clods and trash to one side, but will allow fine earth to fall upon the seed, they also acting as coverers for the seed.

Having thus fully described my invention, what I claim is—

1. The combination with the boot of a hand or other seed or grain drill having a hole in its front, of the adjustable shoe consisting of the lower curved and pointed portion, formed with a vertical slot, the curved horizontal rib, the rearwardly and upwardly extending curved fenders and coverers, and the headed bolt and thumb-nut, substantially as described.

2. As an improved article, a shoe for a hand or other seed or grain drill consisting of the lower curved and pointed portion formed with a vertical slot, the horizontal strengthening-rib and the upwardly and rearwardly extending curved fenders or coverers, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

JOHN L. HIBBS.

Witnesses:

LEWIS U. RUE,  
HOWARD C. BOOZ.