

No. 673,135.

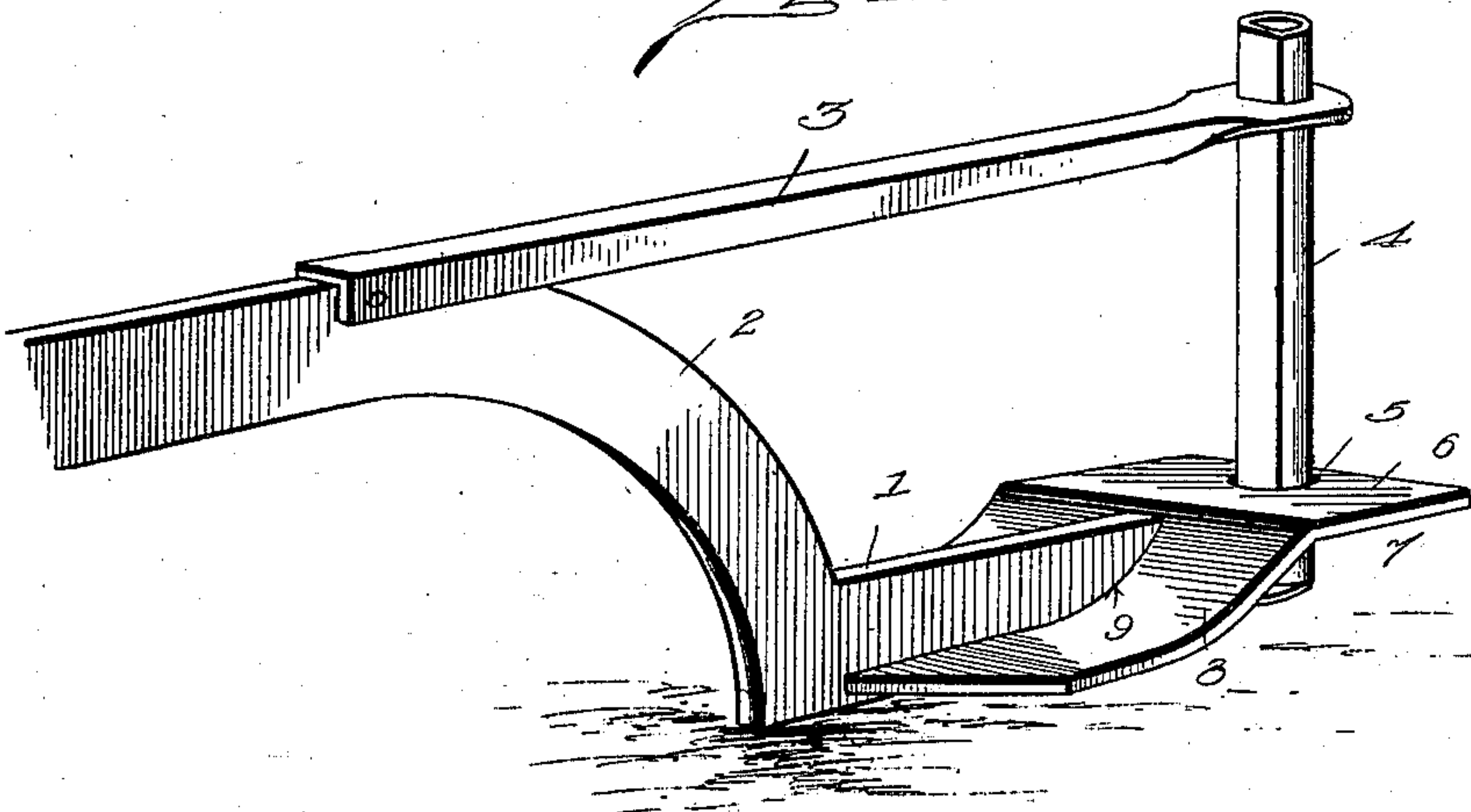
Patented Apr. 30, 1901.

H. A. DENNY.  
SEED DRILL.

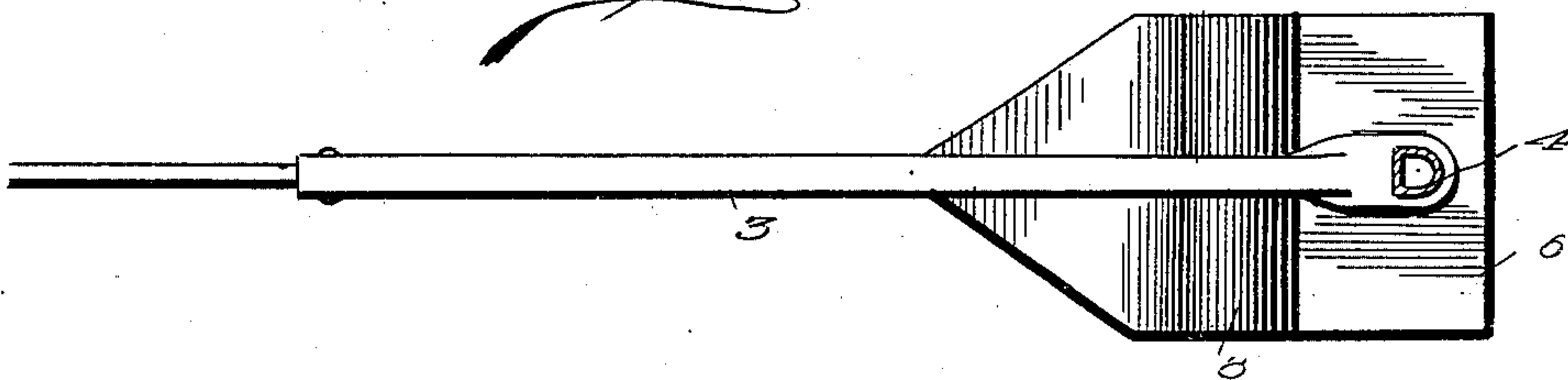
(Application filed Sept. 28, 1900.)

(No Model.)

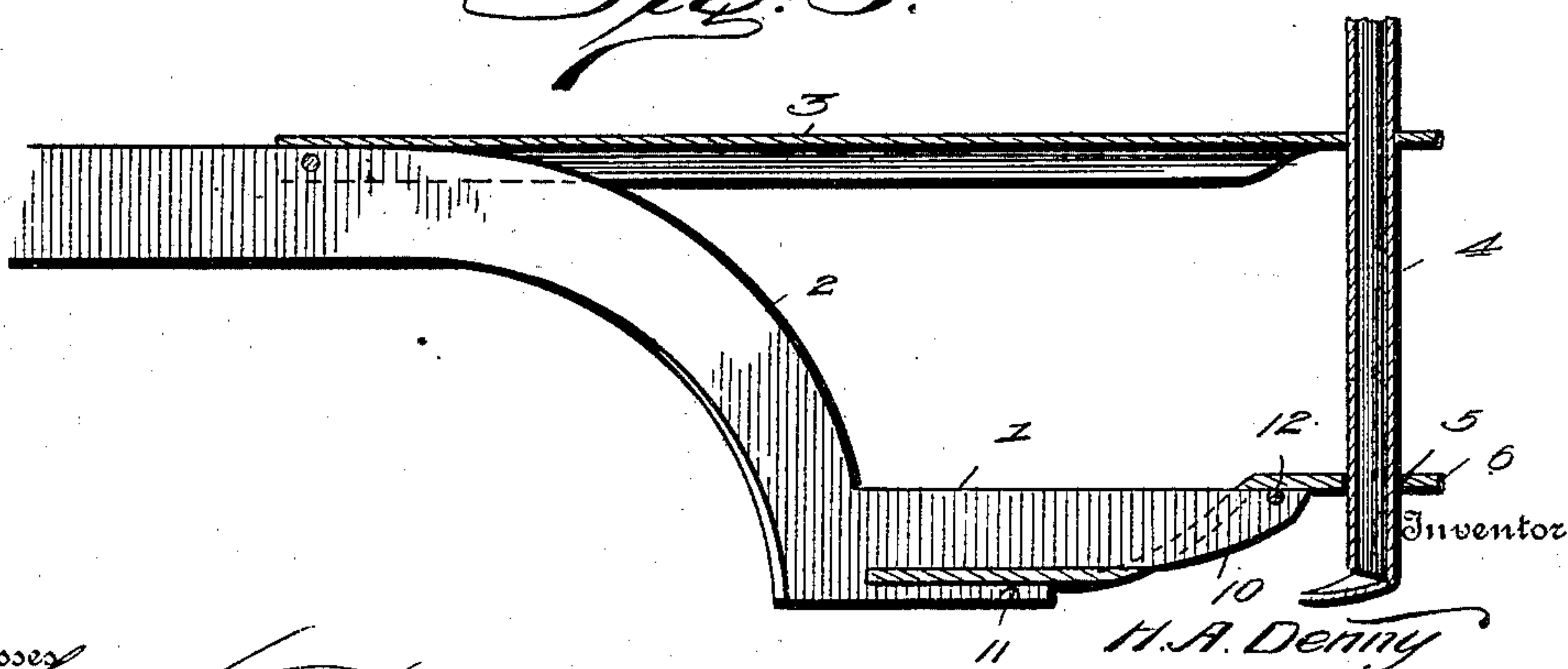
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



Witnesses

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# UNITED STATES PATENT OFFICE.

HARRISON A. DENNY, OF REARDAN, WASHINGTON.

## SEED-DRILL.

SPECIFICATION forming part of Letters Patent No. 673,135, dated April 30, 1901.

Application filed September 26, 1900. Serial No. 31,167. (No model.)

*To all whom it may concern:*

Be it known that I, HARRISON A. DENNY, a citizen of the United States, residing at Reardan, in the county of Lincoln and State of Washington, have invented new and useful Improvements in Seed-Drills, of which the following is a specification.

This invention relates to new and useful improvements in seed-drills; and its primary object is to provide a device of simple construction which is adapted to automatically discharge earth upon the seed after the same has been planted.

To these ends the invention consists in providing a runner to the forwardly-extending beam of which is secured a horizontal strip which is connected to the drill and serves to support the same in proper position. This drill extends downward through the rear horizontal portion of a plate which is secured upon the runner before referred to and which extends downward at opposite sides thereof to a point adjacent to the lower edge.

The invention also consists in the further novel construction and combination of parts, which will be hereinafter fully described and claimed, and illustrated in the accompanying drawings, showing the preferred form of my invention, and in which—

Figure 1 is a perspective view of the complete device. Fig. 2 is a top plan view thereof. Fig. 3 is a longitudinal section.

Referring to the drawings by numerals of reference, 1 is a runner having a forwardly-extending beam 2 attached thereto, to which is secured a horizontal strip 3, preferably formed of channel-iron and the rear end of which extends past the end of the runner 1, before referred to. A drill 4 is secured within this end of the strip 3 and extends downward through an aperture 5, formed within the horizontal portion 6 of a plate 7. This plate rests upon the upper edge of the runner 1, at the rear end thereof, and is inclined downward at the center, as shown at 8, said inclined portion being provided with a longitudinally-extending slot 9 for the reception of the reduced end 10 of the runner. The forward

edge of the plate is then inserted into a longitudinally-extending slot 11, formed within the runner, near the lower edge thereof, and in this manner the plate is firmly secured in position, a pin being secured to the runner at a point in rear of the inclined portion, so as to prevent longitudinal movement thereof. As the runner travels forward the seed is fed through the drill 4 and is discharged therefrom at a point beneath the plate 6. The lower edge of said plate will contact with the soil and force a portion thereof up the inclined section 8 of the plate and over the rear edge thereof and upon the discharged seed.

From the foregoing description, taken in connection with the accompanying drawings, it is believed that the construction and advantages of my improved seed-drill will be readily understood without requiring an extended explanation.

It will be seen that the device is simple of construction, that said construction permits of its manufacture at small cost, and that it is exceedingly well adapted for the purpose for which it is designed, and it will of course be understood that various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

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

1. The combination with a runner; of a drill in rear thereof, a plate inclosing the drill and secured to the upper edge of the runner, and a downwardly-inclined portion to said plate extending at opposite sides of the runner.

2. The combination with a runner having a forwardly-extending beam; of a connecting-strip secured to said beam, a drill secured to the strip and having an outlet in rear of the runner, a plate mounted upon the runner and inclosing the drill, and a downwardly-inclined portion to the plate at opposite sides of the runner.

3. The combination with a runner having



a reduced end and a longitudinally-extending slot near the lower edge thereof; of a seed-drill having an outlet in rear of said runner, a plate mounted upon the runner and  
5 inclosing the drill, a slotted inclined portion to the plate adapted to receive the reduced end of the runner, the lower end of said plate being adapted to project into the slot of said

runner, and a pin for locking the plate in position upon said runner.

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

HARRISON A. DENNY.

Witnesses:

C. W. WOODWARD,

L. W. CHILDS.