

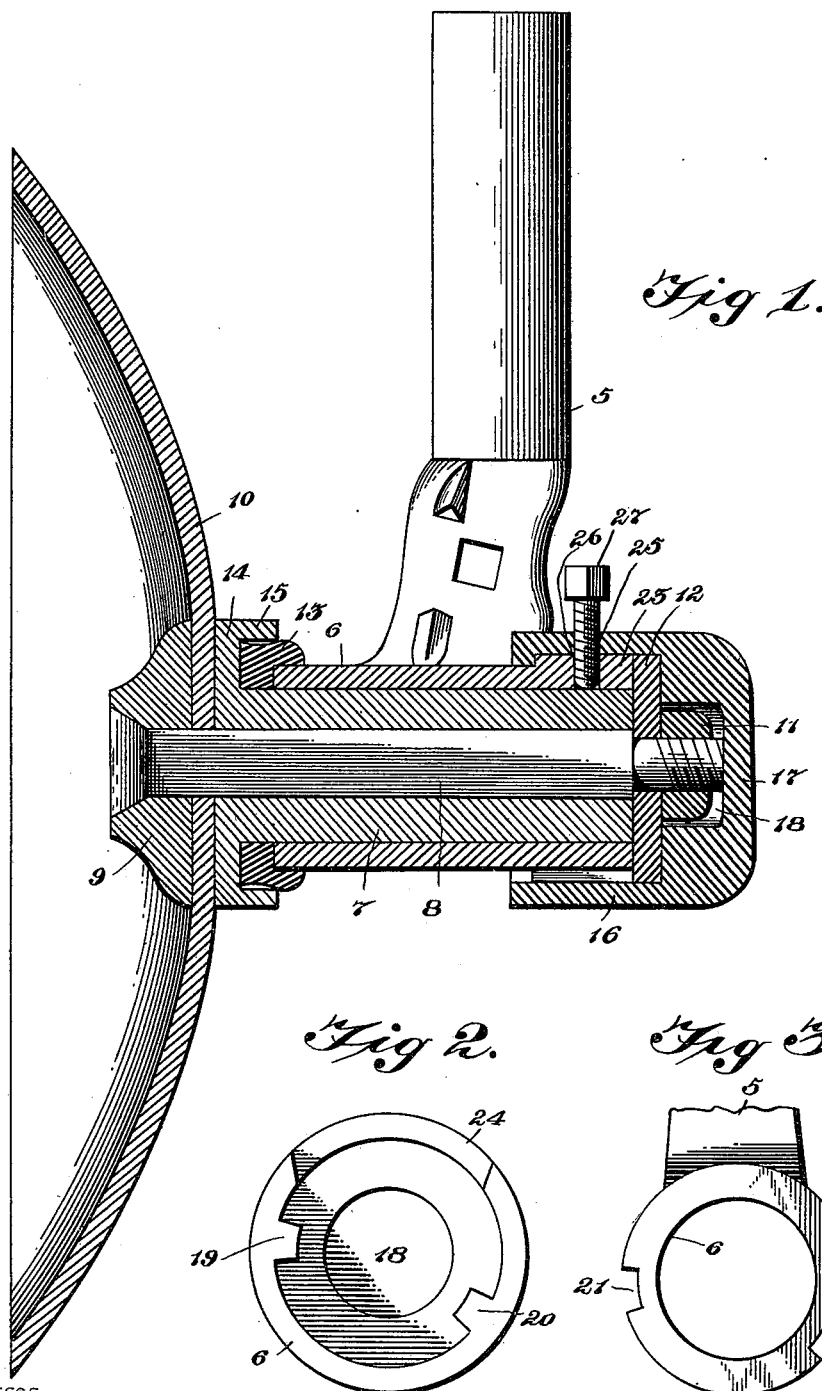
No. 645,873.

Patented Mar. 20, 1900.

W. SEBRING.
DUST CAP FOR DISK BEARINGS.

(Application filed Jan. 15, 1900.)

(No Model.)



Witnesses

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UNITED STATES PATENT OFFICE.

WESLEY SEBRING, OF WESTMORELAND, KANSAS.

DUST-CAP FOR DISK-BEARINGS.

SPECIFICATION forming part of Letters Patent No. 645,873, dated March 20, 1900.

Application filed January 15, 1900. Serial No. 1,515. (No model.)

To all whom it may concern:

Be it known that I, WESLEY SEBRING, a citizen of the United States, residing at Westmoreland, in the county of Pottawatomie and State of Kansas, have invented a new and useful Dust-Cap for Disk-Bearings, of which the following is a specification.

This invention relates to cultivators in general, and more particularly to that class known as "disk" cultivators, the invention having specific reference to the bearings of the spindles of the disk, one object of the invention being to provide a simple and efficient dust-cap for one end of the bearing which may be readily applied and removed and which will act to effectively preclude the entrance of dirt and dust which is ordinarily thrown up by the disks as they rotate.

A further object of the invention is to provide means for holding the dust-cap against displacement and for permitting ready lubrication of the parts.

In the drawings forming a portion of this specification, and in which similar numerals of reference designate like and corresponding parts in the several views, Figure 1 is a section taken radially of a disk and showing the spindle attached thereto and the bearing for the spindle, the cap of the present invention being in place. Fig. 2 is an elevation showing the inner end of the dust-cap. Fig. 3 is an elevation showing the end of the journal-box upon which the dust-cap is adapted to lie.

Referring now to the drawings, 5 represents the beam of a cultivator, at the rear end of which is fixed a journal-box 6. In this journal-box 6 is rotatably mounted a sleeve 7, centrally of which is passed a bolt 8, having a washer 9 at its headed end and which washer forms a clamping-jaw which engages one face of the disk 10 and clamps the latter against the end of the sleeve. To exert this clamping action, a nut 11 is screwed upon the opposite end of the bolt 8 and directly impinges a washer 12 and presses it against the sleeve 7, thus drawing the bolt 8 longitudinally through the sleeve in a manner which will be readily understood.

A washer 13 is disposed between the end of the journal-box 6 and the rear face of a flange 14, which extends radially of the sleeve, this

flange 14 having rearwardly-extending portion 15, lying concentric with the sleeve. The washer 13 is of rubber or other suitable packing material and while permitting adjustment of the sleeve in the journal-box acts to effectively prevent ingress of dust or dirt.

The dust-cap of the present invention is adapted to engage the rear end of the journal-box and comprises a cylindrical body portion 16, one end of which is closed, as shown at 17, and in the inner face of which closed end is formed a recess 18, adapted to receive the extremity of the bolt 8, as also the nut 11. At the opposite end of the body portion 16, which is open, are formed two inwardly and radially extending lugs or fingers 19 and 20, which fingers are adapted to pass through corresponding openings 21 and 22 in a flange 23 upon the periphery of the journal-box 6 and at the rear end thereof, these openings 21 and 22 permitting the fingers to be moved to positions where the cap may be rotated to bring the fingers to lie behind the flange 23, and thus prevent longitudinal displacement of the cap.

As shown in Fig. 2 of the drawings, the open end of the cap has a recess 24 in its edge, and which recess receives the end of the beam 5, as illustrated in Fig. 1, the end walls of this recess being so positioned that they will form stops to limit the oscillation of the cap at those points where when the cap is at one limit the fingers 19 and 20 will lie in line with the openings 21 and 22 and when at the other limit perforations 25 and 26 in the cap and journal-box, respectively, will register. These perforations 25 and 26 are threaded, as illustrated in Fig. 1, and thus when they register a screw 27 may be engaged therewith to hold the cap in place.

As illustrated, the perforations 25 and 26 lead directly to the sleeve 7, and thus they form an efficient means for supplying a lubricant to the rotatable sleeve.

It will be seen that the cap may be easily applied and removed and that it is efficient in its operation and cheap in structure. Furthermore, it will be understood that any desired materials and proportions may be used without departing from the spirit of the invention, the essential features of the invention being the construction of the cap with

the fingers and the perforations and the corresponding portions of the journal-box.

What is claimed is—

1. In a disk cultivator, the combination with
5 a beam having a journal-box connected therewith, said box having a peripheral flange at one end provided with slots disposed longitudinally of the box, of a disk having a support rotatably mounted in the box, said support forming a closure for one end of the box,
10 and a cap adapted to receive the opposite end of the box and having inwardly-directed fingers adapted to enter and pass through the slots of the flange upon the box and to move
15 with the cap to lie behind the flange to prevent displacement of the cap.

2. The combination with a journal-box having a radial flange at one end, said flange having slots disposed longitudinally of the box,
20 of a cap adapted to fit over the end of the box and having inwardly-directed fingers at one end adapted to enter and pass through the slots of the box, said cap being adapted for oscillation to move the fingers to lie behind the flange of the box, perforations in the
25 box and cap, adapted for movement into and out of alinement as the cap is oscillated, and

means adapted for engagement with the perforations to hold the cap against oscillation.

3. The combination with a beam and a journal-box at one end thereof and extending beyond the side faces of the beam, said box having a peripheral flange at one end provided with slots extending longitudinally of the box,
30 of a cap having inwardly-directed fingers adapted to pass through the slots of said flange and to move into and out of registry with the slots as the cap is oscillated, a recess in one edge of the cap adapted to receive the beam and having its walls disposed to limit the oscillation of the cap, perforations in the box
35 and cap adapted to move into and out of alinement as the cap is oscillated, the perforation in the box extending into the bearing thereof, and a screw adapted for engagement with the
40 perforations to hold the cap from oscillation.

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

WESLEY SEBRING.

Witnesses:

CHAS. SEBRING,
F. W. COMFORT.