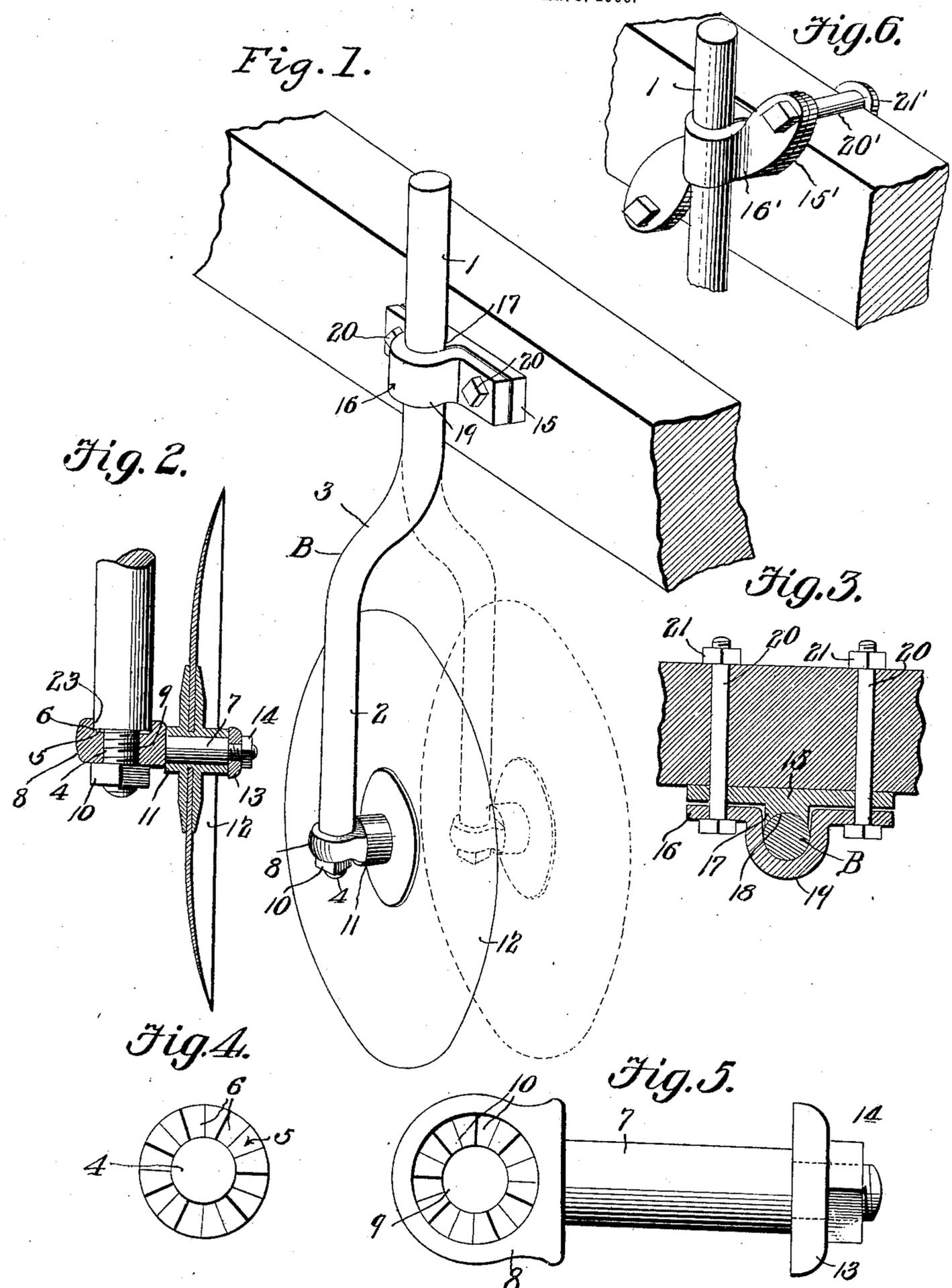


No. 829,696.

PATENTED AUG. 28, 1906.

G. DILLINGHAM.
DISK COLTER.

APPLICATION FILED JAN. 8, 1906.



WITNESSES:
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UNITED STATES PATENT OFFICE.

GLENN DILLINGHAM, OF BOURBON, INDIANA.

DISK COLTER.

No. 829,696.

Specification of Letters Patent.

Patented Aug. 28, 1906.

Application filed January 8, 1906. Serial No. 295,169.

To all whom it may concern:

Be it known that I, GLENN DILLINGHAM, a citizen of the United States, residing at Bourbon, in the county of Marshall and State of Indiana, have invented a new and useful Disk Colter, of which the following is a specification.

This invention relates to disk colters for plows; and it has for its objects to simplify and improve the construction and operation of this class of devices and to provide a disk colter which shall be simple in construction and easily applied and which will be efficient to turn stalks, weeds, and any trash or litter that may be found on the ground to be plowed in advance of the plow, so that it will be plowed under by the action of the plow proper.

Other objects of the invention are to provide improved means for effecting various adjustments of the disk colter.

With these and other ends in view, which will readily appear as the nature of the invention is better understood, the same consists in the improved construction and novel arrangement and combination of parts, which will be hereinafter fully described, and particularly pointed out in the claims.

In the accompanying drawings has been illustrated a simple and preferred form of the invention, it being, however, understood that no limitation is necessarily made to the precise structural details therein exhibited, but that changes, alterations, and modifications within the scope of the invention may be made when desired.

In the drawings, Figure 1 is a perspective view illustrating a portion of a plow-beam to which the improved disk colter has been applied. Fig. 2 is a vertical sectional view through the lower end of the colter-standard and the disk. Fig. 3 is a horizontal sectional view taken through the upper end of the colter-standard and the adjacent portion of the plow-beam, showing the clamping means for securing the colter-standard in position. Fig. 4 is an end view of the lower extremity of the colter-standard. Fig. 5 is a plan view of the disk-carrying spindle. Fig. 6 is a perspective detail view illustrating a modification.

Corresponding parts in the several figures are indicated throughout by similar characters of reference.

The colter-carrying standard may be of various shapes and constructions, according to

the make and character of the plow in connection with which it is to be used. In the drawings it has been illustrated as consisting of a round bar of suitable dimensions and generally designated B, said bar having straight upper and lower ends 1 2 and an intermediate curved portion or offset 3. The lower extremity of the bar or standard is reduced and screw-threaded, as shown at 4, and the shoulder 5 adjacent to the reduced portion is provided with radial ribs and corrugations, as 6, forming what is generally known as a "rosette." 7 designates the disk-carrying spindle, which is provided at one end with a head 8, having a vertical perforation or aperture 9, adapted to engage the reduced threaded portion 4 of the standard, said perforation 9 being surrounded by a radially-corrugated portion 10, constituting a rosette-face adapted to engage the rosette 6 near the lower end of the standard, with which it may be held in intimate relation by means of a nut 10 upon the lower threaded extremity of the standard. The spindle 7 affords a bearing for the hub 11 of an ordinary concavo-convex disk 12, which is secured in position upon the spindle, as by means of a washer 13 and nut 14.

The standard-clamping device connected with the beam includes a base-plate 15 and a clamping-plate 16, the former of which is provided with a vertical rib 17, having a concave seat 18 for the standard B, which latter is retained securely in the seat by a bulging portion 19 of the clamping-plate 16. The bulging portion 19 completely embraces the rib 17, the latter entering into the groove or recess formed by the bulged portion, so that the standard B may be very securely gripped and clamped. The rib by engaging the groove formed by the bulging portion also prevents any possibility of the clamping-plate being twisted or displaced laterally. The clamping-plates 15 and 16 are connected with each other and with the beam by means of transverse bolts 20, having nuts 21, by tightening which the standard-bar will be clamped securely between the clamping members. As will be readily seen, when a standard of the character herein shown is used the holder-disk may be adjusted laterally by turning the standard upon the axis of its upper portion 1, the offset portion 3 serving to swing the lower portion 2, which carries the colter-disk, toward or from the vertical plane of the beam, as may be desired, or even beneath the beam. The colter-carrying

spindle is radially adjustable upon the axis of the lower portion 2 of the standard, and the disk may thus be set to turn the dirt in either direction as well as to regulate the width of the furrow cut thereby, the depth of such furrow being capable of regulation by raising or lowering the standard.

This improved rotary colter, as will be seen, is extremely simple in its construction and operation, and it is thoroughly efficient for the purposes for which it is provided.

It will be preferred to form the head 8 of the disk-carrying spindle with a socket, as 23, for the reception of the lower end of the standard, as will be best seen in Fig. 2 of the drawings, for the purpose of reinforcing the construction and preventing or reducing the liability of breakage.

Under the modified construction illustrated in Fig. 6 of the drawings the clamping members, here designated 15' and 16', instead of being secured upon the plow-beam by means of bolts extending through the beam are clamped upon the plow-beam by means of bolts 20', extending through a washer-plate 21', bearing against the opposite side of the beam. This modification, which involves a slight and obvious change in the shape of the clamping members, may at

times be preferred in order to avoid weakening the beam by perforating it transversely for the reception of the bolts and also in order to enable the device to be conveniently adjusted longitudinally upon the beam.

Having thus described the invention, what is claimed is—

1. A plow-beam, a clamping member having a vertically-grooved rib, a clamping member having a bulging portion receiving and engaging said rib, a disk-carrying standard fitted between the grooved rib and the bulging portion of the two clamping members, and connecting-bolts.

2. A standard having a reduced and screw-threaded lower extremity and a radially-corrugated shoulder, a disk-carrying spindle having a socketed and apertured head with radial corrugations at the bottom of the socket to receive and engage the lower extremity of the standard, and assembling means.

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

GLENN DILLINGHAM.

Witnesses:

QULEN D. BLAND,
A. C. MATCHETTE.