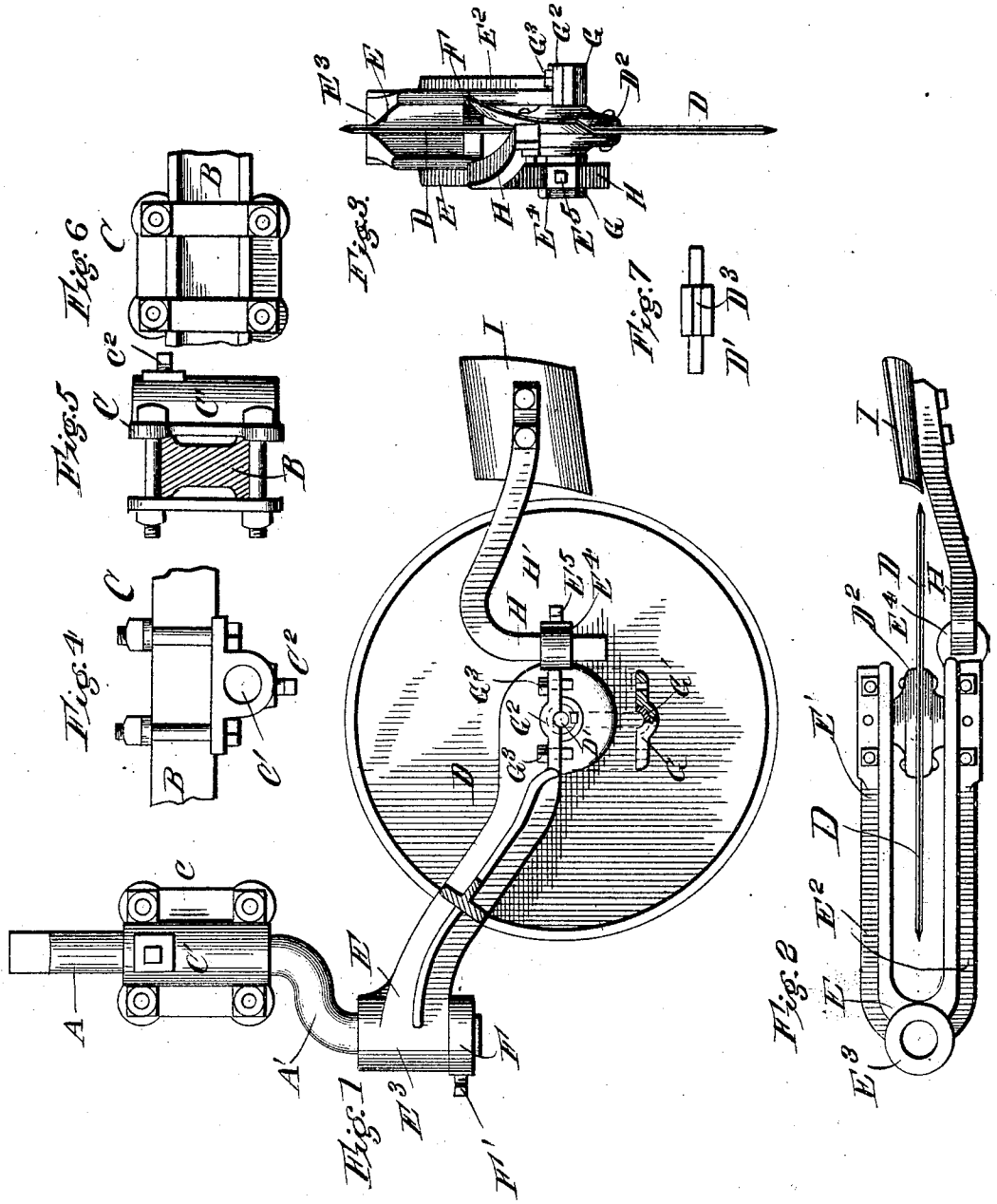
No. 836,544. PATENTED NOV. 20, 1906.

C. S. UPTON.

COLTER AND STUBBLE TURNER.

APPLICATION FILED APR. 4, 1906.



WITNESSES

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COLTER AND STUBBLE-TURNER.

No. 836,544. Specification of Letters Patent. Patented Nov. 20, 1906.

Application filed April 4, 1906. Serial No. 309,811.

To all whom it may concern:

Be it known that I, CHARLES S. UPTON, a citizen of the United States, and a resident of Walla Walla, in the county of Wallawalla and State of Washington, have invented certain new and useful Improvements in Colters and Stubble-Turners, of which the following is a specification.

My invention is an improvement in colters and stubble-turners for plows; and the invention consists in certain novel constructions and combinations of parts, as will be hereinafter described and claimed.

In the drawings, Figure 1 is a side view, partly in section, of my improved device, the lower box for the bearing of the colter-shaft being detached and shown partly in section for purposes of illustration. Fig. 2 is a top plan view of the improved devices. Fig. 3 is a rear elevation thereof. Figs. 4, 5, and 6 are detail views of the clamp for securing the colter-standard to the beam, and Fig. 7 is a detail view of the colter-shaft.

The colter-standard A is cranked at its lower end A′ and is in practice secured to the plow-beam B by means of a suitable clamp C, which clamp may be designed to accommodate itself to any ordinary plow-beam. The clamp C has an upright tubular portion C′ and a set-screw C^2 operating in connection therewith, whereby to secure the shaft A in any suitable adjustment within the clamp C, as will be understood from Figs. 1 and 4 of the drawings.

The colter D, shown as a disk colter, is journaled, as presently described, in the arms E′ and E^2 of the fork of the colter-support E, the latter having at its front end a sleeve E^3, secured upon the cranked lower end of the standard A by means of the collar F, and the set-screw F′, as will be understood from Fig. 1 of the drawings.

The colter-support has its arms E′ and E^2 provided with bearings for the shaft D′ of the colter D, the said bearings being preferably provided with the lower caps G, adapted to receive the Babbitt metal G′ and secured to the fixed caps G^2 by means of the bolts G^3, as shown in Fig. 1. By this means the caps may be readily removed for repairing the colter, renewing the Babbitt metal, or for any other desired purpose. The disk D is provided with the hub-sections D^2, riveted together and to the disk and keyed upon the central portion D^3 of the shaft D′, so the colter-disk and its hub will revolve with the turning of said shaft D′ within its bearings in the colter-support. One of the arms of the colter-support is provided in rear of the bearings for the colter-shaft with an eye E^4, having a vertical opening for the upright shaft H′ of the carrier-bar H for the stubble-turner I and a set-screw E^5 for securing the shaft H′ in any desired adjustment within the eye E^4. By this means the stubble-turner may be adjusted vertically or laterally with respect to the colter and be secured in any desired adjustment relative thereto.

The stubble-turner I is bolted or otherwise suitably secured to its carrier-bar and is an approximately diamond-shaped steel sheet with proper curves to follow the colter D and is symmetrical, as best shown in Fig. 1, so that when it is dull or worn it can be reversed.

I claim—

1. The improvement substantially as herein described, comprising the cranked standard, a clamp for securing the same to a plow-beam, a colter-support having at its front end an upright sleeve fitting on the lower end of the cranked standard and having the rearwardly-projecting fork whose arms are provided with bearings for the colter-shaft, and one of said arms being provided in rear of its bearing with an eye having a vertical opening, and a clamping-screw intersecting said opening, the colter having its shaft journaled in the bearings of its support, a stubble-turner consisting of a symmetrical reversible plate and a carrier-bar to which said stubble-turner is secured, said bar being provided at its front end with an upright shaft fitted and secured within the eye at the rear end of the colter-support, all substantially as and for the purpose set forth.

2. The combination with the colter and the fork supporting the same and having one of its arms provided with an eye having an upright opening and a clamping-screw intersecting the same, of a stubble-turner and its carrier having at its front end an upright shaft secured in the said eye and adapted for vertical and lateral adjustment, substantially as set forth.

3. The combination of a colter-support having a rearwardly-projecting fork whose

arms are provided with bearings for the colter-shaft, one of said arms being provided in rear of its bearing with a vertical eye, a clamping-screw intersecting the opening of said eye, a colter journaled in the said bearings, a stubble-turner, and a carrier-bar supporting said stubble-turner and provided at its front end with an upright shaft fitting and secured within the vertical eye of the colter-support, substantially as set forth.

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Witnesses:
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