Feb. 20, 1923. 1,445,705.

P. J. NUERNBERGER.

COLTER FOR FARM IMPLEMENTS.

FILED AUG. 31, 1922.

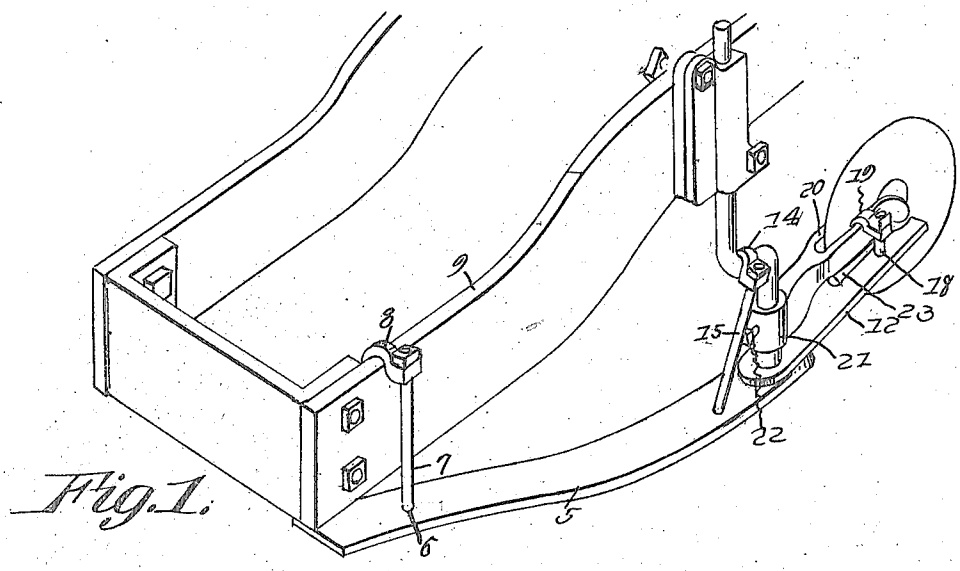


Fig. 1.

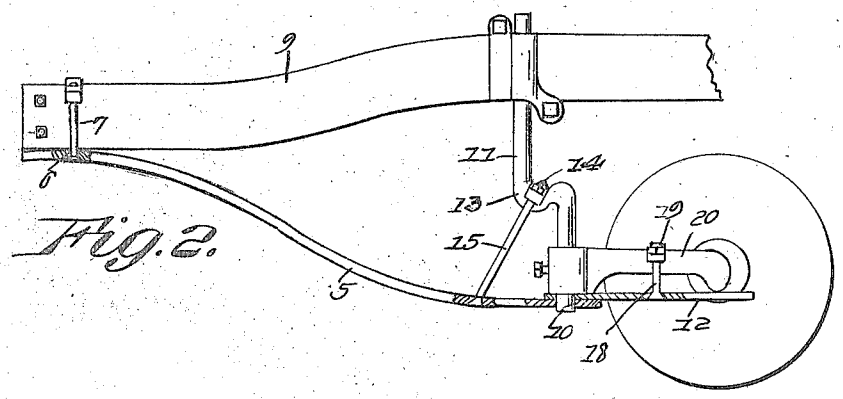


Fig. 2.

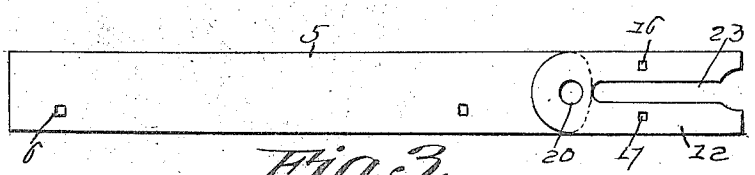


Fig. 3.

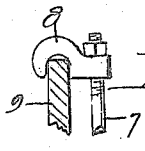


Fig. 4.

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Patented Feb. 20, 1923. 1,445,705

UNITED STATES PATENT OFFICE.

PHILIP J. NUERNBERGER, OF LENZBURG, ILLINOIS.

COLTER FOR FARM IMPLEMENTS.

Application filed August 31, 1922. Serial No. 585,487.

To all whom it may concern:

Be it known that I, PHILIP J. NUERNBERGER, a citizen of the United States of America, and resident of Lenzburg, in the county of Saint Clair and State of Illinois, have invented certain new and useful Improvements in Colters for Farm Implements, of which the following is a specification.

This invention relates to colters for farm implements and it is intended more particularly for use in connection with plows.

It is an object of this invention to produce an attachment of the character indicated which will prevent accumulation of weeds and foreign substances under the colter or on the colter post of wheel plows and the said invention further operates to assist in turning such weeds and foreign substances under the dislodged earth during the plowing operation and prevents the colter from choking.

It is a further object of this invention to produce a guard of the character indicated which can be readily applied to plows now in use and the said invention comprises comparatively few parts of inexpensive construction.

With the foregoing and other objects in view, the invention consists in the details of construction, and in the arrangement and combination of parts to be hereinafter more fully set forth and claimed.

In describing the invention in detail, reference will be had to the accompanying drawings forming part of this application wherein like characters denote corresponding parts in the several views, and in which—

Figure 1 illustrates a view in perspective of a fragment of a plow showing a device embodying the invention applied thereto;

Figure 2 illustrates a side elevation thereof partly in section;

Figure 3 illustrates a plan view of the colter mounting; and

Figure 4 illustrates an enlarged detail sectional view of the means for securing the mounting of the plow beam or frame.

In these drawings there is illustrated an embodiment of the invention in which a resilient mounting comprising a plate 5 is employed having an aperture 6 near one end to receive a bolt 7, which bolt operates in conjunction with a clip 8 for holding the forward end of the plate 6 on the plow frame or beam 9.

The plate has an aperture 10 near its rear end to receive the colter post 11 and an extension plate 12 coacts with the colter post and the first mentioned plate, and it forms a continuation of the guard of which the plate 5 is the main portion. The colter post in the present embodiment of the invention has an offset portion or shoulder 13 which is engaged by a clip 14 and the clip 14 is coupled to the plate 5 by the bolt 15. The extension plate has apertures 16 and 17 that receive fastenings such as 18 by which clips 19 are held in engagement with the colter arms 20 of the colter yoke, it being shown that the said arms form extensions of a collar or sleeve 21 which is applied to the colter post. Set screws 22 may be employed threaded through each collar to engage the colter post.

The extension plate is provided with a longitudinally disposed slot 23 and that forms a clearance for the colter. The extension plate projects under the axis of the colter and prevents weeds or other vegetation from interfering with the operation of the plow, the shear or blade of which is located in proximity and in operative relation with the colter, as those skilled in the art will understand.

The colter post, of course, acts as a pivot for the extension plate and allows it to swing freely with the colter yoke. The colter post acts as a point of suspension for the plate and serves to retain it in proper alinement.

The plate and the extension plate can be manufactured by the stamping process and hence the cost of production and installation will be comparatively small as the apertures for the anchoring devices can be formed at the time the plate and its extension are stamped.

I claim:

1. The herein described colter guard comprising a plate and an extension plate therefor, means for securing the plate at its front end to the plow frame or beam, means for anchoring the rear end of the plate to a colter post, the said extension plate being attached to the colter post and projecting rearwardly under the axis of the colter, and means for connecting the extension plate to the colter yoke.

2. In a colter guard, a resilient plate, means for securing the plate under a plow beam and connecting it to a colter post, a colter yoke on the said post, a colter rotatably mounted in the yoke, an extension plate connected to the post and projecting rearwardly under the axis of the colter, and means for clamping the said extension plate to the colter yoke.

3. In a colter guard, a resilient plate having an aperture for the reception of a colter post, means for securing the plate to a beam of a plow, an extension plate having an aperture to receive the colter post, the said extension plate having a longitudinal slot extending inwardly from its rear end to receive a colter, a colter yoke mounted on the said colter post and overlying the extension plate, and means for securing the extension plate to the colter yoke.

PHILIP J. NUERNBERGER.