To all whom it may concern:

Be it known that we, WILIAM BURR MOON and FRANCIS MARIAN GRISOM, citizens of the United States of America, residing at Jacksonville and Troup, respectively, in the respective counties of Cherokee and Smith and State of Texas, have invented new and useful Improvements in Fenders for Plows, of which the following is a specification.

This invention relates to fenders for plows, and it has particular reference to an improved attachment adapted to be used in connection with ordinary double or single shovel plows, said attachment being in the nature of a disk mounted for rotation and means for adjustably supporting said disk or fender.

The invention has for its object to simplify and improve the construction of the rotary disk fender and the means for supporting the same.

A further object of the invention is to simplify and improve the manner of connecting the device with an ordinary plow beam or cultivator beam.

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 claim.

In the accompanying drawing has been illustrated a simple and preferred form of the invention, the invention, 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 claim may be resorted to when desired.

In the drawing,—

Figure 1 is a view in side elevation of a plow equipped with the improved attachment.

Fig. 2 is a top plan view of the same.

Fig. 3 is a sectional view taken on the line 3—3 in Fig. 2, transversely through the axis of the disk.

Fig. 4 is a sectional view taken on the line 4—4 in Fig. 2.

Fig. 5 is a sectional detail view taken on the line 5—5 in Fig. 4.

Corresponding parts in the several figures are denoted by like characters of reference.

The plow beam 15 having handles 16, stock or standard 17 carrying the shovel 18 and the brace 19 are all of conventional and well known construction.

Mounted on the beam 15 some distance in advance of the standard 17 is a clamp composed of two plates 20 positioned adjacent to the side faces of the beam and connected together by means of bolts 21. One of the plates carries a concaved boss 22 through which extends an axial bolt 23 carrying a friction cup or washer 24 provided at diametrically opposite sides with recesses 25 to receive the forward end of a bar 26 which also engages the bolt 23 on which it is secured by means of the nut 27. It will be seen that by tightening the nut 27, the friction cup or washer 24 will frictionally engage the boss 22, thereby preventing rotation under ordinary stress and thus maintaining in adjusted position the bar 26 which engages the notches 25 of the friction cup.

The bar 26 at its rearward end is enlarged to form a head 28 with which is pivotally connected a plate 29 upon which is formed a box or bearing 30. The plate 29 is equipped with a bolt 31 extending through an arcuate slot 29 in the head 28, thereby permitting the plate or member 29 to be secured at various adjustments. The box 30 affords a bearing for a spindle 32 carrying a disk 34, which latter comprises a convexo-concave body portion 35 having a flat rim 36, the latter being provided with teeth or serrations 37 adapted to cut into the soil.

It will be evident from the foregoing description, taken in connection with the drawing, that by proper adjustment of the parts the disk may be raised or lowered with respect to the surface of the ground and that the said disk may also be set at various inclinations with respect to the plow beam, either in parallel relation to the latter or in an oblique position at various angles to the beam. It follows that the disk may be made to cut into the soil to the required depth and also that it may make simply a kerf or indentation in the soil, or that it may be made to scoop the latter in the direction of the plow or outwardly therefrom. The
ease with which the various adjustments may be effected enables the operator to set or arrange the disk in the most advantageous position for the work in hand, and a change may be readily and quickly effected at any time.

It will be noted that while the disk carrying bar 26 is held very securely against displacement in a vertical plane, the holding means is constituted by the extended engaging faces of the boss 22 and the friction cup 24 which are held in frictional engagement by the tightening bolt and nut. While the disk carrying bar will in this manner be held with ample security for ordinary operation, it is evident that if an obstruction should be encountered by the disk, the carrying bar will be capable of yielding upwardly, thereby minimizing the danger of breakage which would be liable to occur if the engaging faces of the holding members were serrated or otherwise locked together.

Having thus described the invention, what is claimed as new is:—

A plow attachment comprising a clamp, a concave faced boss connected therewith, a convex disk mounted on the bolt in frictional engagement with said boss, said disk having diametrically opposite recesses, a bar mounted on the bolt and engaging the recesses in the friction disk, a tightening nut on said bolt, and a disk carrying member pivotally connected with the bar for movement in an approximately horizontal plane.

In testimony whereof we affix our signatures in the presence of two witnesses.

WILLIAM BURR MOON.

Witnesses:
G. L. NEWTON,
E. GRAGARD.
FRANCIS MARIAN GRISSOM.

Witnesses:
W. S. FITZ,
CHAS. PACE.