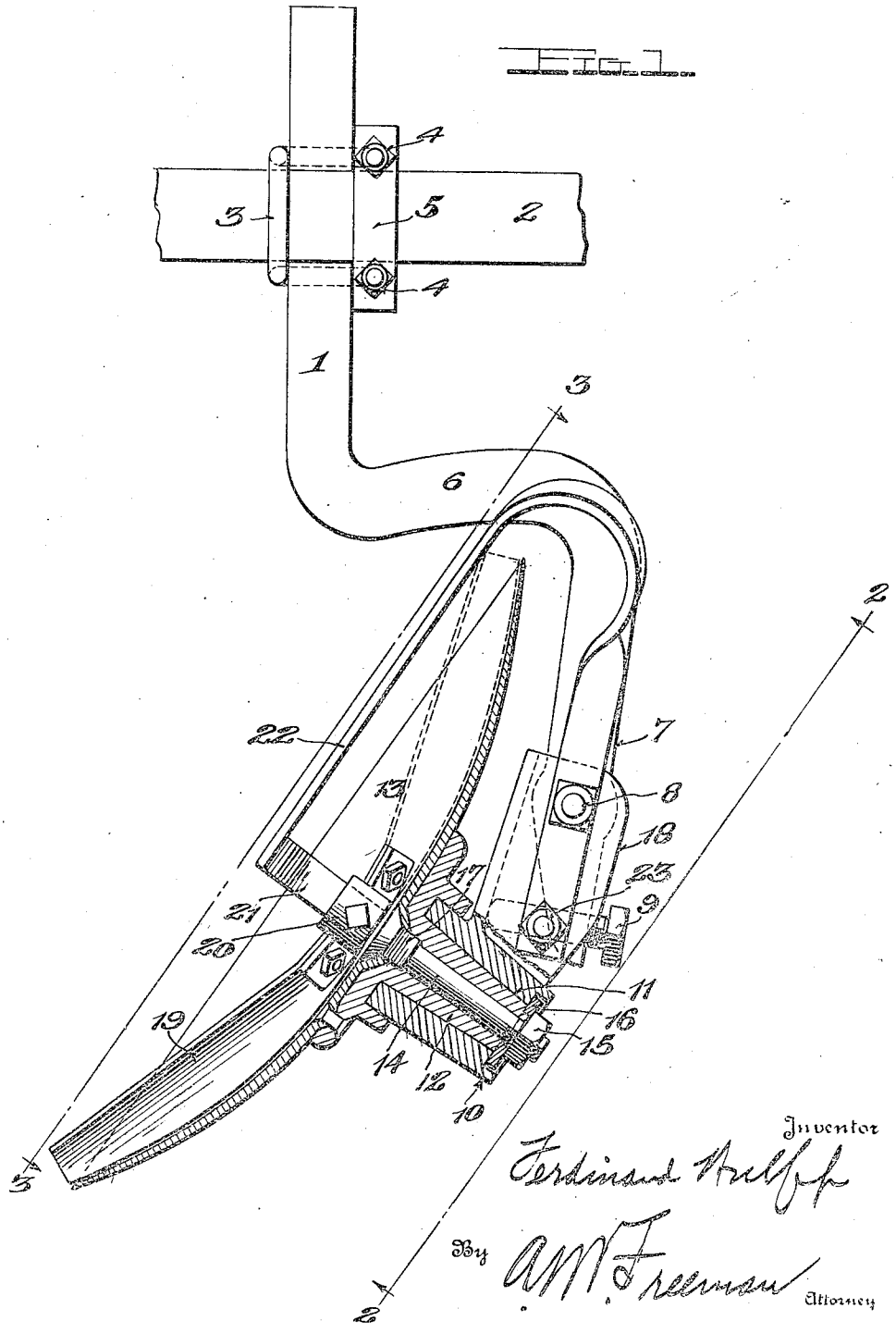
May 5, 1925. 1,536,367

F. WULFF

ATTACHMENT FOR CULTIVATORS

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Fig. 1.



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May 5, 1925. .

1,536,367

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Fig. 2.

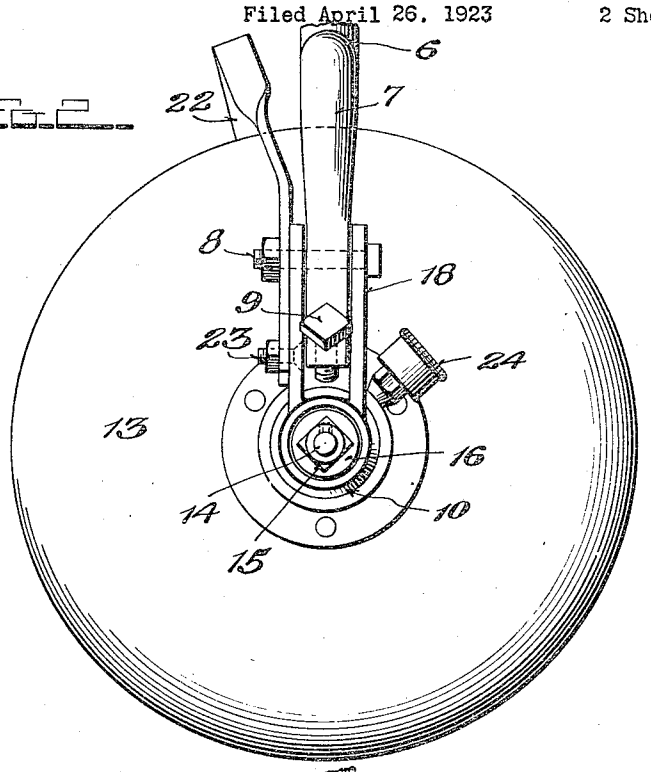
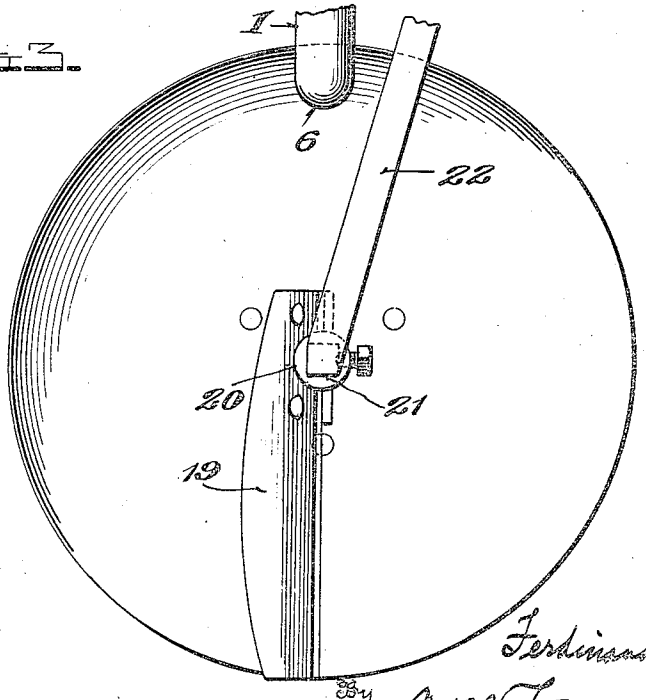


Fig. 3.



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Patented May 5, 1925. 1,536,367

UNITED STATES PATENT OFFICE.

FERDINAND WULFF, OF ERWIN, SOUTH DAKOTA.

ATTACHMENT FOR CULTIVATORS.

Application filed April 26, 1923. Serial No. 634,686.

To all whom it may concern:

Be it known that I, FERDINAND WULFF, citizen of the United States, residing at Erwin, in the county of Kingsbury and State of South Dakota, have invented certain new and useful Improvements in Attachments for Cultivators, of which the following is a specification.

This invention relates to certain new and useful improvements in an attachment for cultivators, and has among its objects to provide an improved disk-supporting arm and the mounting of the disk thereon.

A further object is to provide a novel support for holding the scraper blade adjustably against the inside or active face of the disk, said support being anchored or secured to the disk mounting on the opposite or outer side of said disk.

Another object resides in the provision of a single bolt of novel shape for clamping the disk-supporting arm to the beam.

Further, the invention resides in the features of construction and the arrangements and combinations of parts hereinafter described and claimed, reference being made to the accompanying drawings wherein:

Figure 1, is a fragmentary view depicting the present invention partly in elevation and partly in vertical section;

Figure 2, is a plan view of the disk mounting on the arm as viewed from the plane of line 2—2 of Figure 1, and

Figure 3, is a similar view on line 3—3 of Figure 1 showing the cleaning blade.

Referring more in detail to the drawings, the disk-supporting arm 1 is secured to the beam 2 by an improved bolt 3 of U-formation with the legs bent in parallelism into U-shape and having their free ends threaded for the reception of nuts 4, a connecting plate 5 being threaded over the free ends so as to be secured against the beam by the nuts 4. The tightening of the latter, therefore, firmly clamps the disk arm 1 to the beam. The provision of this single bolt eliminates the use of the four bolts formerly used and also permits the removal and replacement of the parts being more readily effected.

The arm is bent at right angles to provide an offset 6 from which the lower end portion 7 extends backwardly and downwardly at an incline. The lowermost portion is provided with an opening to receive a pivot bolt 8, and on its extreme end, with a threaded opening extending at right angles to the former opening to receive a set screw 9, said extreme end portion tapering off, as is clearly depicted in Figure 1.

A foot 10 is provided with a tapered bearing 11 in which is journaled the hub 12 of the disk 13, the hub being secured in its bearing by the bolt 14 and its cooperating nut 15 and washer 16. The bolt is formed with a portion 17 of polygonal cross section which holds the same against turning in the hub, while the foot is countersunk to receive the washer and nut. A socketed stem 18 extends laterally from the foot and receives the lower end of the arm or standard 1 to which it is pivotally attached by the bolt 8. The socket is open on one side through which the set screw 9 protrudes, the inner end of the screw impinges on the inner or opposed wall of the socket so as to effect angular adjustment on the foot and the disk about the pivot bolt 8.

A scraper or cleaner blade 19 operates in proximity to the concaved face of the disk, the same being carried by a collar 20 which is axially adjustable on a concentrically disposed stub or finger 21. The latter is spaced or separate from the disk and is carried on the free end of an overhanging arm 22 which is secured to the stem 18 by the common bolt 8 and an additional bolt 23. This mounting provides for a fixed relation between the arm and disk, the bolt 8 functioning in the dual capacity of pivoting the disk and assisting in securing the scraper arm 22. The screw bolt 9 therefore effects a simultaneous adjustment of the disk and scraper. The foot 10 is preferably equipped with a source of lubricant 24.

It will be noted that the central part of the disk 13 is depressed to conformably receive the bolt head and to snugly embrace the square or polygonal portion 17. This construction affords stronger and more durable mounting for the cultivator disk. Furthermore, very little material is required to be cut away to fit the disk. The scraper blade is also readily detached from its mounting 20, by removing the two holding bolts, and reversed, as indicated in dotted lines in Figure 1. Or, the collar 20 may be reversed by removing it from the stub 21.

What is claimed is:—

1. In a plow disk mounting, a supporting arm, a foot, an extension on the foot having spaced side walls open at their front and

top portions and having a connecting back wall, said arm extending downwardly through the open top of the extension and in the space between the side walls thereof and having a rear edge inclined downwardly and outwardly relative to and engageable with the back of the extension, a bolt pivotally connecting the arm to the extension and disposed adjacent to the upper end of the extension, a screw arranged below the bolt and threaded through the lower end of the arm and having its inner end bearing against the lower end of the said back wall of the extension and its outer end projecting outwardly beyond the front edges of the side walls, and a disk carried by the foot.

2. In a plow disk mounting, a supporting arm, a foot, an extension on the foot having spaced side walls open at their front and top portions and having a connecting back wall, said arm extending downwardly through the open top of the extension, and in the space between the side walls thereof and having a rear edge engageable with the back wall of the extension means to pivotally connect the arm to the extension, a screw adjustably carried by the arm in spaced relation to said pivotal means and bearing at its inner end against the back wall of the extension, and a disk carried by the foot.

3. In a plow disk mounting, a supporting arm, a foot having an axial bearing, a lateral extension carried by the foot of substantially U-cross section and receiving the lower end of said arm therein and having its back wall engageable with the arm, a bolt pivotally connecting the arm to the extension, a screw located below the first named bolt and threaded through the arm and bearing against the back of the extension, a disk having a hub received in the bearing and means to hold the hub in the bearing.

In testimony whereof I affix my signature.

FERDINAND WULFF.