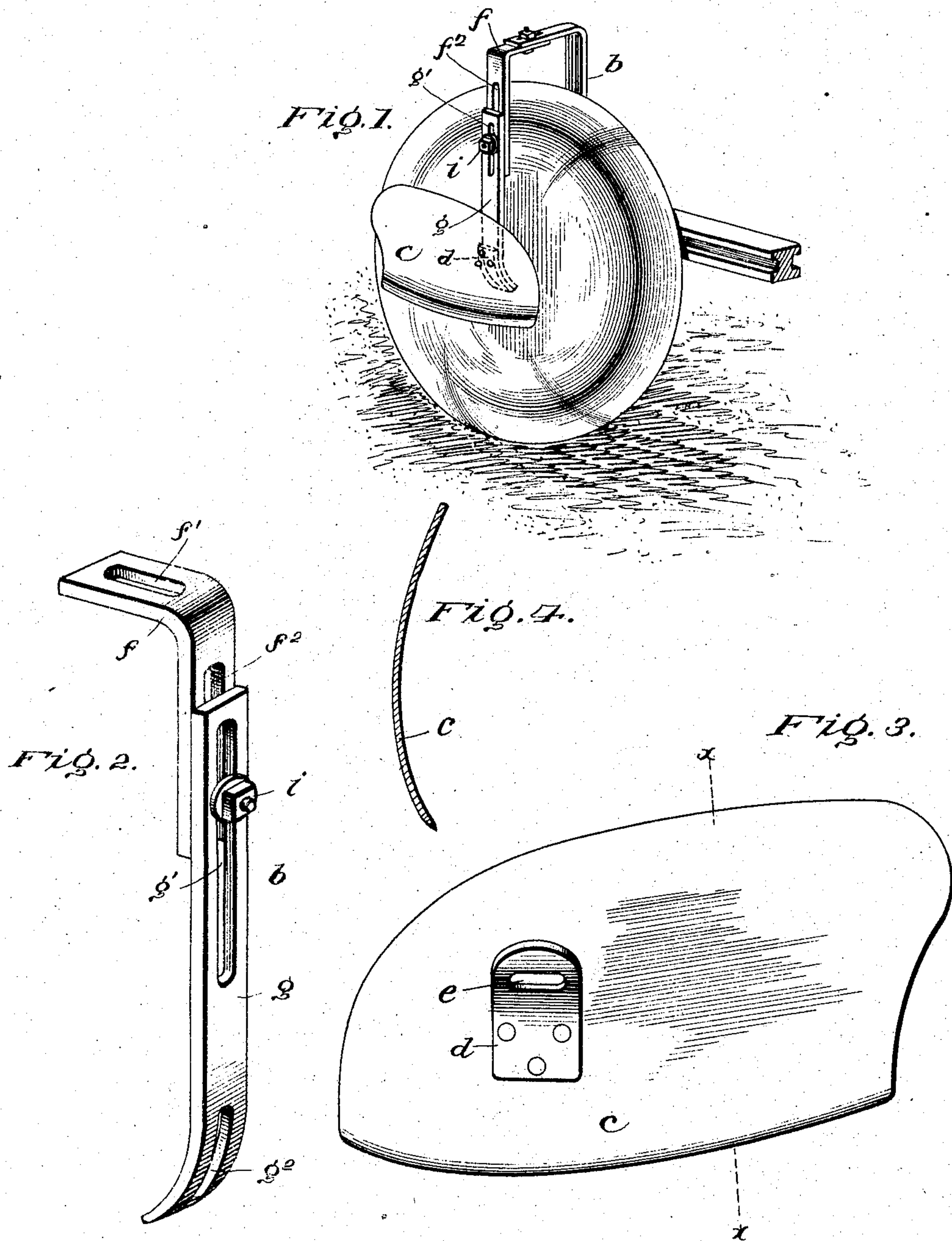


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PATENTED APR. 11, 1905.

W. O. WIMER.
ADJUSTABLE SCRAPER FOR ROTARY DISK PLOWS.
APPLICATION FILED OCT. 29, 1904.



Witnesses

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WILLIAM O. WIMER, OF PORTLAND, OREGON.

ADJUSTABLE SCRAPER FOR ROTARY-DISK PLOWS.

SPECIFICATION forming part of Letters Patent No. 787,016, dated April 11, 1905.

Application filed October 29, 1904. Serial No. 230,538.

To all whom it may concern:

Be it known that I, WILLIAM O. WIMER, a citizen of the United States, residing at Portland, in the county of Multnomah and State of Oregon, have invented a new and useful Adjustable Scraper for Rotary-Disk Plows, of which the following is a specification, reference being had to the accompanying drawings as constituting a part thereof.

My invention relates to the scrapers with which the rotating disks of the type of plows referred to are provided to clear the faces thereof of the dirt adhering thereto while plowing.

It is well known that different soils require different treatment. Some soils require to be plowed deeper than others, and other soils are very damp and for that reason require special treatment in plowing. The rotary plow is in the general sense the most effective implement; but if the scrapers of a rotary disk be non-adjustable the same plow cannot be satisfactorily used under the varying conditions of the soils.

My invention therefore has for its object to support the scrapers by means rendering the same adjustable relatively to the faces of the disk, as may be found expedient and to suit the state or nature of the soil to be plowed, to the end that the plow may do its work in an efficient manner under all circumstances.

It is further my object to adapt my scrapers to be so adjusted that they will cooperate with the plowshare like a moldboard.

I attain my object by the means illustrated in the drawings, in which—

Figure 1 is a perspective of one of the disks of a rotary plow and that part of the frame by which the scraper thereof is supported in proximity to the face of the disk. Fig. 2 is a perspective elevation, on a larger scale, of the adjustable arm by which my scraper is adjustably supported from the plow-frame. Fig. 3 is a rear-faced view of one of my scrapers, and Fig. 4 is a cross-section of my scraper on line $x x$, Fig. 3.

The letters designate the parts described.

The frame of my rotary-disk plow, the disk, and the means for rotatably supporting the same are all of the common construction

and are therefore not illustrated in the drawings. The plow-frame is also provided with two standards b , as usual, to which my scrapers are adjustably attached. My scrapers are made of plates preferably of the shape shown in Figs. 3 and 4. On the back thereof is riveted an ear d , the upper part of which sets out at an angle and is made with a bolt-slot e . Each of my scrapers is supported from its standard b on the plow-frame by an arm made of two sections or members $f g$, bolted together. The section f is made with slots $f' f^2$ and the section g with slots $g' g^2$. The inner ends of the sections $f g$ are clamped together by a bolt and nut i , inserted through the slots $f^2 g'$, and the slotted lower end of the section g is curved, as shown in Fig. 3. To such curved lower end is adjustably fastened the scraper c by means of a bolt-nut (not seen) inserted through the slots e of the ear d on the back of a scraper and through the slot g^2 . Thus the arms supporting the scrapers may be lengthened and shortened, as required, for the different depths of plowing, and the scrapers themselves may be so adjusted as to bring the same in such angle and position with regard to the faces of the disks as is found to give the best results in the work being done. My scrapers may also be so adjusted as to cause the same to act like the moldboard of the ordinary plow—that is, to turn the earth over while plowing.

The adjustment of the scrapers requires but a moment. Therefore if the adjustment be found unsuitable to the requirements the position of the scraper may be readily changed so as to be able to more effectively continue the plowing.

Having fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a rotary-disk plow, in combination with the frame, and the revolving disks, respectively, of a vertical standard on the frame, a longitudinally-extensible arm, the upper extremity of which is bent at an angle, and the lower extremity thereof having an arc-like curve; means adjustably securing the upper extremity of the arm to said standard; a scraper-plate, and means for attaching—

ing such scraper-plate to the lower extremity of said arm, and adapted to allow the adjustment thereof relatively to the face of the disk.

5 2. In a rotary-disk plow, in combination with the frame, and the revolving disks, respectively, of a vertical standard on the frame, an arm made in two sections; means adapted to adjustably fastening the two
10 arm-sections together at their inner ends, so that the arm may be lengthened and shortened; the upper extremity, of the upper section of said arm, being bent at an angle, and
15 thereof, having an arc-like curve; means adjustably securing the upper extremity of the arm to said standard; a scraper-plate, and means for attaching such scraper-plate to the
20 lower extremity of the standard, and adapted to allow the adjustment thereof relatively to the face of the disk.

3. In a rotary-disk plow, in combination with the frame, and the revolving disks, respectively, of a vertical standard on the
25 frame; an arm made in two sections; means adapted to adjustably fastening the two arm-sections together at their inner ends, so that the arm may be lengthened and shortened; the upper extremity, of the upper sec-

tion of said arm, being bent at an angle, and 30
the lower extremity, of the lower section thereof, having an arc-like curve; means adjustably securing the upper extremity of the
arm to said standard; a scraper-plate, a projecting lug or ear on the back thereof, and 35
means for attaching such scraper-plate by its said lug to the lower extremity of the standard, and adapted to allow the adjustment thereof relatively to the face of the
disk. 40

4. As a scraper attachment for rotary-disk plows, a longitudinally - extensible arm, the upper extremity of which is bent at an angle, and the lower extremity thereof having an
arc-like curve, means for adjustably securing 45
the upper extremity of the arm to a standard therefor provided on the plow - frame, a scraper-plate, and means for attaching such
scraper-plate to the lower extremity of said arm, and adapted to allow the adjustment 50
thereof relatively to the face of the disk.

In testimony whereof I have hereunto affixed my signature, in the presence of two witnesses, this 11th day of October, 1904.

WILLIAM O. WIMER.

Witnesses:

A. J. FARRELL,
T. J. GEISLER.