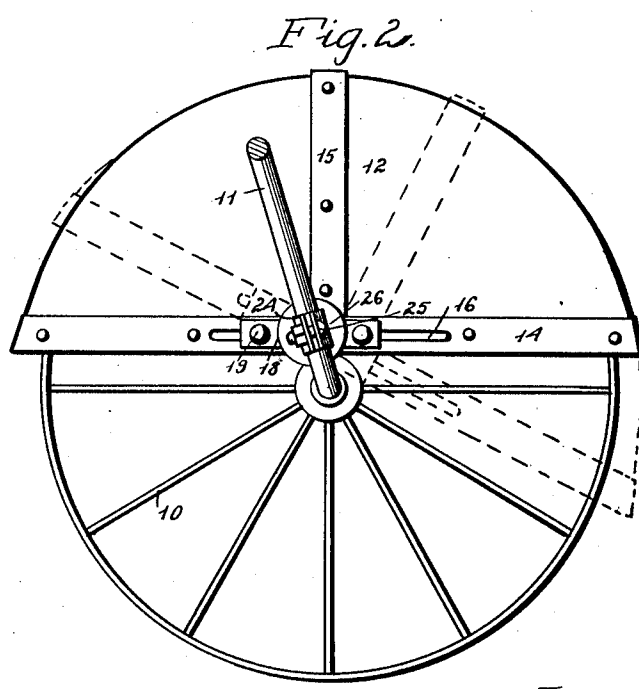
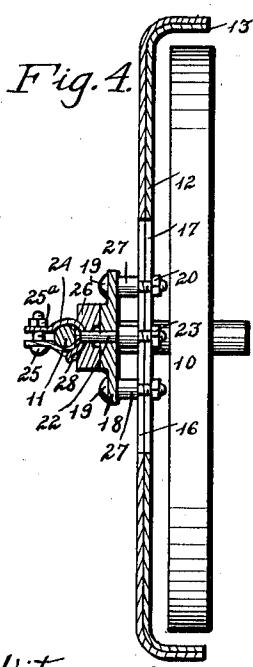
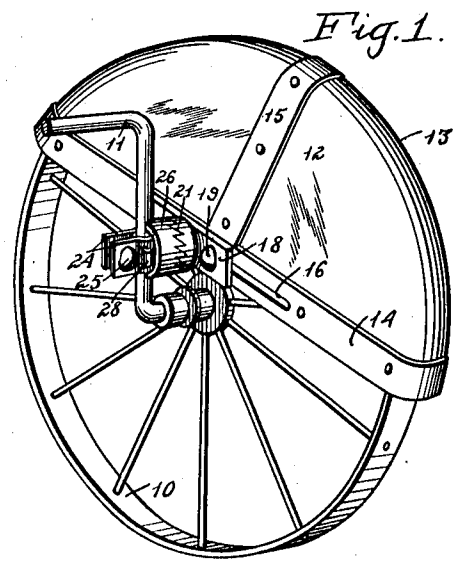
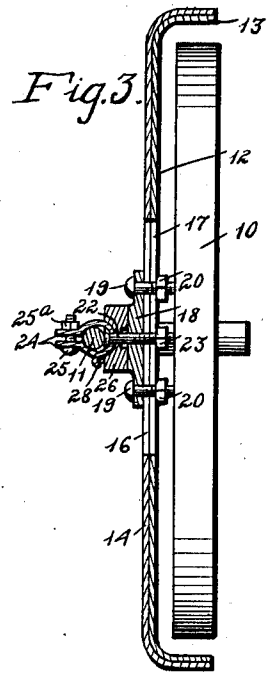


F. ADIX.
 GUARD FOR CULTIVATOR WHEELS.
 APPLICATION FILED AUG. 26, 1911.

1,026,293.

Patented May 14, 1912.



Witnesses.
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UNITED STATES PATENT OFFICE.

FRANCIS ADIX, OF BOONE, IOWA.

GUARD FOR CULTIVATOR-WHEELS.

1,026,293.

Specification of Letters Patent.

Patented May 14, 1912.

Application filed August 26, 1911. Serial No. 646,118.

To all whom it may concern:

Be it known that I, FRANCIS ADIX, a citizen of the United States, residing at Boone, in the county of Boone and State of Iowa, have invented a certain new and useful Guard for Cultivator-Wheels, of which the following is a specification.

The object of my invention is to provide a guard for cultivator wheels or the like of simple, durable and inexpensive construction, which may be readily attached to or detached from a cultivator or other machine.

It is a further object of my invention to provide such a guard which is provided with few and simple parts, whereby the guard may be adjusted vertically, horizontally, laterally and circumferentially with reference to the cultivator wheels, or with reference to the frame of a cultivator.

My invention consists in the construction, arrangement and combination of the various parts of the device, whereby the objects contemplated are attained, as hereinafter more fully set forth, pointed out in my claims, and illustrated in the accompanying drawings, in which—

Figure 1 shows a perspective view of a cultivator wheel equipped with a guard embodying my invention. Fig. 2 shows a side elevation of the same, the dotted lines showing the guard when circumferentially and also horizontally adjusted. Fig. 3 shows a top or plan view of a cultivator wheel equipped with a guard embodying my invention, the wheel guard and its parts being shown in section, and Fig. 4 shows a similar view showing the lateral adjustment of the guard.

In the accompanying drawings, I have used the reference numeral 10 to indicate an ordinary cultivator wheel which is mounted on an axle 11, which is arched upwardly as shown in Figs. 1 and 2, between the wheels.

My improved wheel guard comprises a body portion 12 designed to rest just inside the upper portion of the wheel, and an annular flange 13 designed to cover the rim of a wheel, and to stand in a position spaced apart therefrom.

My improved guard for cultivator wheels is preferably made of metal, and is provided with reinforcing strips 14 and 15. The strip 14 extends along the lower inside edge of the guard. The strip 14 is provided with a central, longitudinal slot 16,

and the body portion 12 is provided with a similar slot 17 which registers with the slot 16.

For securing the body portion 12 to the frame of the cultivator, I have provided a plate 18 designed to normally rest adjacent to the reinforcing strip 14 over the slot 16 on the inside of the guard. The plate 18 is secured to the body portion 12, by means of screw threaded bolts 19, which extend through the plate 18 and the slots 16 and 17, and are held in position by the nuts 20. It will thus be seen that by loosening the nuts 20, the plate 18 may be readily adjusted horizontally with reference to the reinforcing strip 14 and the wheel guard may be thus adjusted horizontally with relation to the frame of the cultivator. The plate 18 is provided with a roughened face 21. Extending through the body portion 12, and the plate 18 near the center of the latter, is a bolt 22, the inner end of which is screw-threaded and provided with a nut 23. Mounted on the bolt 22 next to the head thereof is a collar 27 which receives the upright portion of the axle 11, and is mounted thereon by means of a screw threaded bolt 25 extended through its ends. The collar is preferably composed of resilient metal and by loosening the bolt 25, the collar 24 and the wheel guard may be adjusted vertically with relation to the axle 18. Mounted on the bolt 22 between the collar 24 and the roughened face 21 of the plate 18, is a block 26, one surface of which is roughened, and designed to rest against the roughened surface 21 of the plate 18. The other end of the block 26 is provided with a depression designed to fit the collar 24, so that when the nut 23 is tightened on the bolt 22, the block 26 is held against the rotation on said bolt. By loosening the nut 23 on the bolt 22, the plate 18 and the wheel guard may be adjusted circumferentially with relation to the cultivator wheel.

I have provided the following means for adjusting the guard with relation to the upright portion of the axle 11. The bolts 19 are of sufficient length to permit the insertion of washers 27 between the plate 18 and the reinforcing strip 14. The thickness of the washers 27 may be varied as desired.

By placing a hinge 28 on the collar 24 as shown in Figs. 1, 3 and 4, the user is enabled to remove the collar from the axle somewhat more readily and the collar is

adapted to be used on axles varying considerably in size.

In the assembling and practical use of my improved wheel guard, the plate 18 is secured to the wheel guard proper by means of the bolts 19. The block 26 and the collar 24 are then secured in position by means of the bolt 22 and the nut 23. The collar 24 is then placed on the upright portion 11 of the axle, and firmly secured in position by a nut 25^a on the bolt 25. If the upright portion of the axle 11 is not exactly vertical, and it is desired to adjust the wheel guard circumferentially with relation to the wheel, the nut 23 may be loosened and the block and the collar 24 rotated on the bolt 23 with relation to the plate 18. One position of the wheel guard when thus adjusted circumferentially with relation to the wheel, is shown by the dotted line in Fig. 2. If an adjustment horizontally is desired, the bolts 19 may be loosened and the plate 18 moved longitudinally with relation to the reinforcing strip 14. If the upright portion of the axle 11 is at a considerable distance from the wheel 10, the guard may be adjusted laterally with relation to the wheel by loosening the bolts 19 and inserting the washers 27 between the plates 18 and the reinforcing strip 14. The washers 27 may be made of short pieces of gas pipe or any suitable material.

The guard may be adjusted vertically on the upright portion of the axle 11 by loosening the bolt 25 and sliding the collar 24 up and down on said upright portion. On account of the resiliency of the collar 24 and the hinge 28 thereon, the wheel guard may be attached to axles varying in size.

My improved guard for cultivator wheels has the advantage of simplicity of construction, and a small number of parts, which are easily taken apart and repaired, cleaned or replaced. On many riding cultivators,

the wheels are of considerable diameter, and throw dust and particles of dirt on the driver. By means of my improved wheel guard, the driver is protected from such dust and dirt. My guard may be adjusted in the four ways hereinbefore mentioned, and is adapted to be used on any cultivator having a round part in its frame similar to the axle 11, shown in the drawing.

I claim as my invention.

1. An improved guard for cultivator wheels, comprising a semicircular body portion and an annular flange thereon, means for detachably securing said guard to a cultivator, and for adjusting said guard vertically with relation to the frame of the cultivator, said guard being provided with a horizontal slot at the middle of its straight edge, a plate, screw threaded bolts extending through said plate and said slot, and nuts on said bolts.

2. An improved guard for cultivator wheels, comprising a semicircular body portion and an annular flange thereon, for detachably securing said guard to a cultivator, means for adjusting said guard vertically with relation to the frame of the cultivator, said guard being provided with a horizontal slot at the middle of this straight edge, a plate, screw threaded bolts extending through said plate and said slot, nuts on said bolts, said plate being provided with a roughened inner face, a block having a roughened face designed to fit against the roughened face of said plate, a screw threaded bolt extended through said plate and said block and through the body of said wheel guard, a nut on said last mentioned bolt.

Des Moines, Iowa, July 27, 1911.

FRANCIS ADIX.

Witnesses:

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