

1,037,609.

Fig. 2.

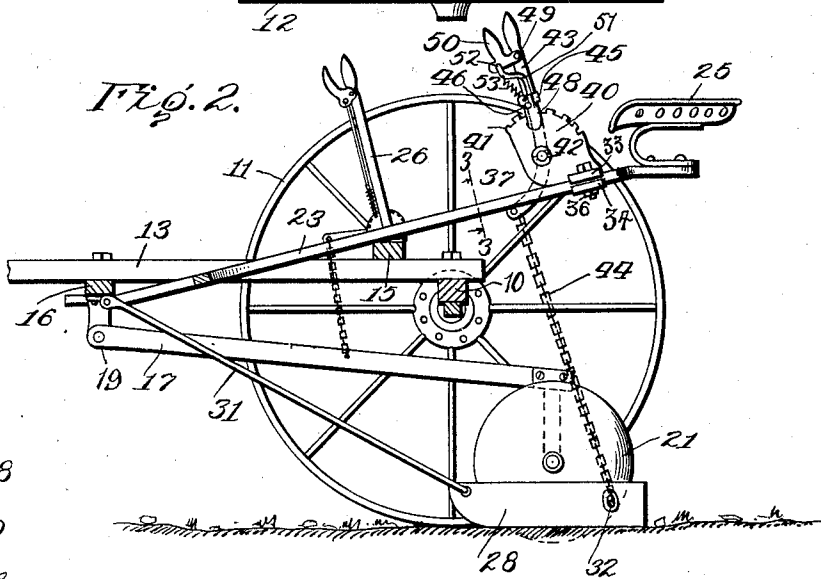
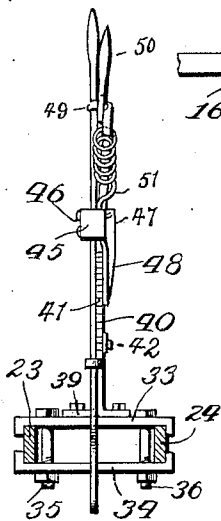
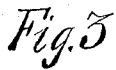
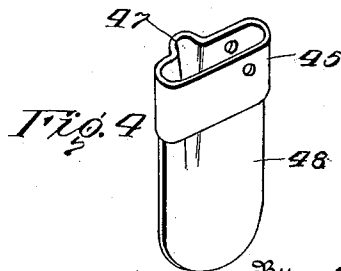


Fig. 4



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UNITED STATES PATENT OFFICE.

WALTER H. FOX, OF LATHROP, MISSOURI.

FENDER-ADJUSTER FOR CULTIVATORS.

1,037,609.

Specification of Letters Patent.

Patented Sept. 3, 1912.

Application filed February 7, 1911. Serial No. 607,079.

To all whom it may concern:

Be it known that I, WALTER H. FOX, citizen of the United States, residing at Lathrop, in the county of Clinton and State of Missouri, have invented certain new and useful Improvements in Fender-Adjusters for Cultivators, of which the following is a specification.

This invention relates to improvements in devices for adjusting the fenders of cultivators, more particularly to the class of rolling or rotary cultivators, and has for one of its objects to provide a simply constructed attachment whereby the fenders may be adjusted vertically or elevated out of operative position by the driver without leaving his seat when the attachment is applied to riding cultivators and without leaving his place behind the shovels or cutters when the improvement is applied to walking cultivators.

With this and other objects in view the invention consists in certain novel features of construction as hereafter shown and described and then specifically pointed out in the claim.

The improved device, as before stated, is more particularly designed for use in connection with riding cultivators of the rotary disk form, and for the purpose of illustration is shown applied to a conventional cultivator of this class, and in the drawings illustrative of the preferred embodiment of the invention,

Figure 1 is a plan view of a conventional cultivator with the improvement applied; Fig. 2 is a side elevation of the same; Fig. 3 is a section on the line 3—3 of Fig. 2, looking in the direction of the arrow; Fig. 4 is an enlarged perspective view of the combined sleeve and guide, detached.

Corresponding and like parts are referred to in the following description and indicated in all the views of the accompanying drawings by the same reference characters.

The cultivator portion of the improved device comprises an axle 10 having ground wheels 11—12 and a main supporting frame including side members 13—14 clipped or otherwise secured at their rear ends to the axle and connected by transverse members 15—16. The cultivator beams are represented respectively at 17—18 and are connected to swing at their forward ends at 19—20 to the member 16 of the frame, and provided at their rear ends with the usual

disk cultivator members 21—22. Located above the main frame are seat bars 23—24 which bear at their forward ends beneath the transverse member 16 and extend rearwardly and over the rear transverse member 15, upon which they rest, and support the seat 25 at their rear converging ends. The beams 17—18 are provided respectively with adjusting and elevating levers, represented conventionally at 26—27. The parts heretofore described are of the usual construction. Located between the disks 21—22 are two fender members, represented conventionally at 28—29, and are connected to swing from the cross member 16 by rods 30—31 and are connected by a transverse rod 32. The fenders 28—29 are supported to travel adjacent to the confronting faces of the disks, as shown. Bearing upon the seat bars 23—24 is an upper clamp plate 33, while a similar clamp plate 34 bears beneath the seat bars, the two clamp plates being coupled by clamp bolts 35—36 or other suitable fastening devices. Supported upon the plate 33 are the outturned lower portions 39 of a segmental vertical plate 40, the plate having a plurality of notches 41 in its upper edge, as shown. Pivoted at 42 to the plate 40 is an operating lever 43 having its lower shorter extending arm forwardly and connected by a chain 44 to the cross rod 32 of the fender members. By this arrangement it will be obvious that when the lever is actuated the fenders will be moved upwardly and downwardly, the object to be hereafter explained. Bearing around the lever 43 above the pivot point 42 is a sleeve or band 45 riveted or otherwise secured at 46 to the lever and formed with a vertical offset 47 at one side and with a depending lip or guard 48. The body of the lever bears against one face of the plate 40, while the guard 48 bears against the opposite face, the sleeve 45 and its guard 48 thus forming a support and guide to retain the lever in place relative to the plate 40, and thus prevent undue lateral strain upon the fastening devices 42. By this means the lever 43 may be actuated over the plate and guided and retained in position through the co-action of the lever and the depending portion 48 of the sleeve. Pivoted at 49 to the lever 43 near its hand grip end is a relatively small T-shaped lever 50. Slidable in the guide socket 47 of the sleeve 45 is a rod 51 adapted to engage by its lower end in

the notches 41 of the plate 40 and directed forwardly at its upper end and terminating in an offset 52 which extends through an aperture in the lever 50. A spring 53 connects the rearwardly extending portion of the rod 51 to the sleeve 45 and exerts its force to maintain the lower end of the rod in engagement with the notches 41. By this simple arrangement it will be obvious that the lever 43 is normally locked in position upon the plate 40 and is releasable therefrom by compressing the lever 50 toward the main hand grip portion of the lever 43. By this means the lever 43 may be adjusted to any desired point within the range of the notches 41, and thus correspondingly adjust the fenders 28—29 through the coaction of the chain 44 and the rod 32. The fenders may thus be adjusted to any desired point or elevated entirely free from the ground as may be required. The clamp plates 33—34 may be readily adjustable upon the bars 23—24 and may be lengthened or shortened or otherwise changed in form to adapt the improved device to seat bars of different sizes and to seat bars spaced at different distances apart without material alteration in the construction of the parts, and thus adapted the device to cultivators of different forms and makes.

The improved device is simple in construction, can be inexpensively manufactured and applied by any person without previous skill or knowledge.

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

A lever mechanism comprising plates having inturned ends, bolts passing transversely through the plates and spaced from the inturned end portions thereof, a plate mounted upon one of the first mentioned plates and having an edge portion which projects beyond the edge of the same, a lever fulcrumed upon the last mentioned plate and located beyond the edges of the first mentioned plates, a guard having a band which surrounds the lever, said guard extending along the edge portion of the plate upon which the lever is mounted, said guard being provided with a socket, and a spring pressed pawl carried by the lever and slidably received within the socket of the guard and adapted to engage the edge of the plate upon which the lever is mounted.

In testimony whereof I affix my signature in presence of two witnesses.

WALTER H. FOX. [L.S.]

Witnesses:

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."