R. STRODE.

WEEDER.

APPLICATION FILED AUG. 31, 1915.

1,219,880.

Patented Mar. 20, 1917.

2 SHEETS—SHEET 1.

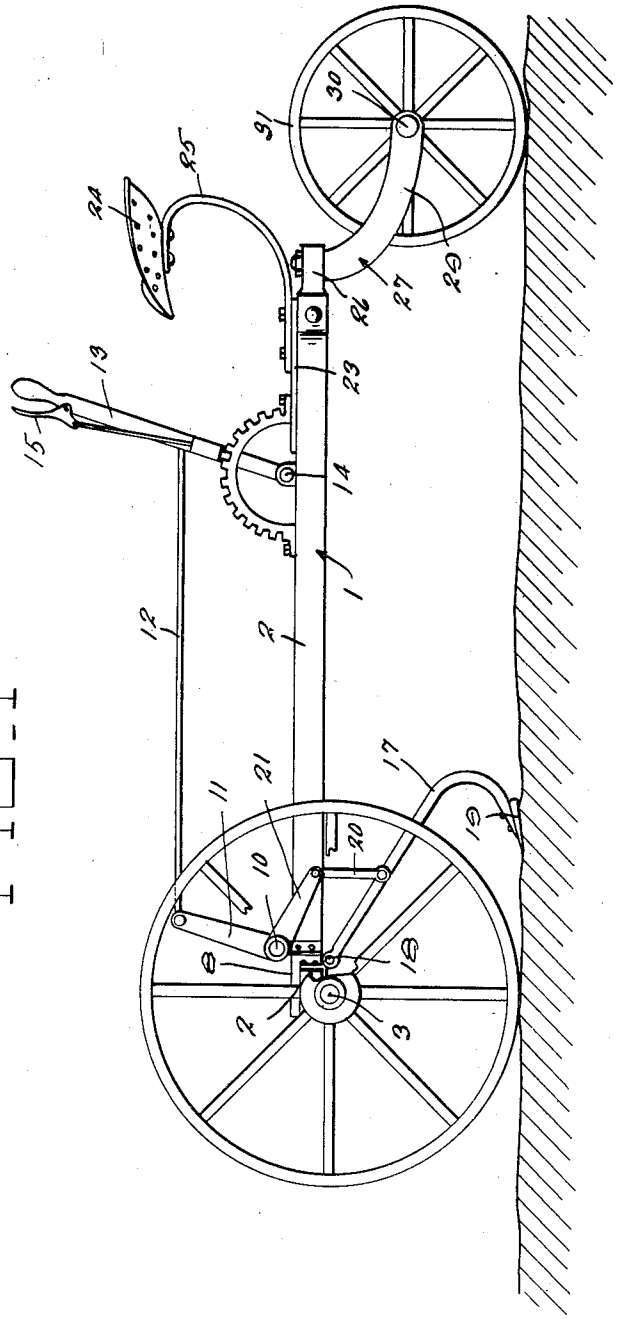


FIG. 1

Witnesses

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WEEDER.

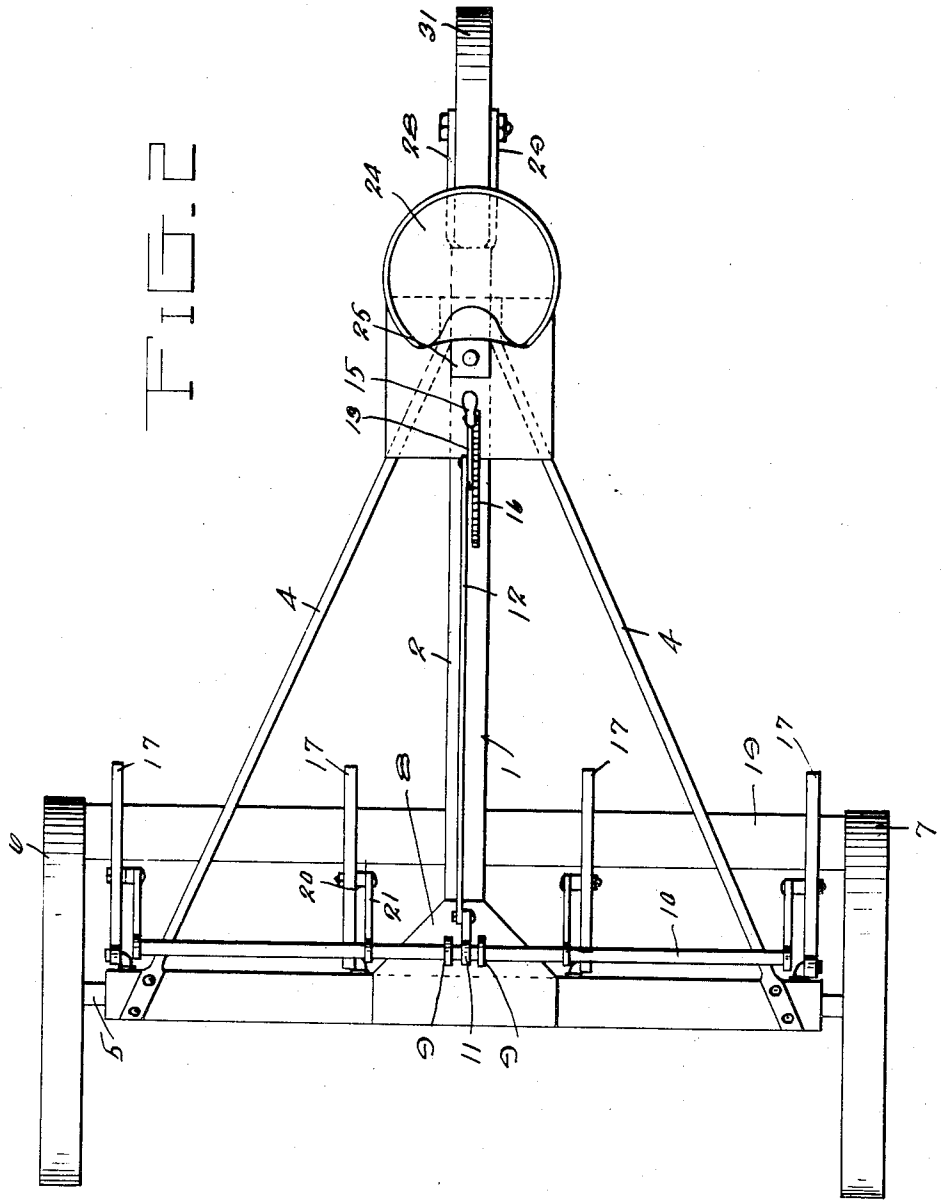
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2 SHEETS—SHEET 2.

FIG. 2



Witnesses

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UNITED STATES PATENT OFFICE.

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WEEDER.

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To all whom it may concern:

Be it known that I, RALPH STRODE, a citizen of the United States, residing at Mikkalo, in the county of Gilliam and State of Oregon, have invented certain new and useful Improvements in Weeders; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to weeders particularly designed for killing weeds on fallow land, and the primary object of the invention is to construct a weeder for this purpose, which is comparatively simple in construction, durable and comparatively light, whereby the necessary draft power will be decreased over that necessary for the propelling of ordinary weeders.

Another object of this invention is to provide a weeder as specified, which includes a truck structure, that is substantially triangularly shaped in plan, having a pair of spaced wheels positioned forwardly of the structure and a single swivelly supported wheel supported rearwardly of the same, and to connect mechanism directly in the rear of the axle for supporting the front spaced wheels, which support the weeding shovels, and further to provide means whereby the elevation of the weeding shovels may be regulated as desired, during the operation of the machine.

With the foregoing and other objects in view this invention consists in such novel features of construction, combination and arrangement of parts as will be hereinafter more fully described, illustrated in the accompanying drawings and claimed.

In describing the invention in detail reference will be had to the accompanying drawings wherein like characters designate like and corresponding parts throughout the several views, and in which:—

Figure 1 is a side elevation of the improved weeder, showing parts thereof broken away, and

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

Referring more particularly to the drawings, 1 designates the supporting structure of the weeder as an entirety, which is composed of a centrally disposed rail 2, a cross rail 3, which is connected to the forward end of the rail 2, and extends transversely therefrom, and suitable brace rods 4. The brace rods 4 are connected to the outer end of the upper surface of the cross rail 3, and extends rearwardly having their rear ends connected to the sides of the centrally disposed longitudinal rail 2 for bracing the construction of the supporting body of the weeder.

The rail 2 rotatably supports an axle 5, beneath the same, upon the ends of which axle are mounted supporting wheels 6 and 7. The cross rail 3 has a plate 8 secured to its upper surface intermediate of its ends, upon which plate are formed bearings 9 which rotatably support the rock shaft 10. The rock shaft 10 extends longitudinally along the rail 3, and is spaced a short distance therefrom. The shaft 10 has a bell crank arm 11 secured thereto intermediate of the bearings 9, and substantially equidistant of its ends. The bell crank arm 11 is connected to a rod 12 which extends rearwardly above the upper surface of the rail 2, and has its rear end connected to a hand lever 13. The lever 13 is pivotally connected to the rail 2, as is shown at 14, and it has a dog mechanism 15 of the ordinary construction, carried thereby, which co-acts with a quadrant 16 for holding the rock shaft 10 in various positions.

The rail 2 has a plurality of shovel or weeder blade carrying standards 17 pivotally connected thereto, as is shown at 18. The standards 17 extend rearwardly and downwardly from the rear lower corner of the cross rail 2 and have weed cutting blades or shovels 19 detachably connected to their lower ends.

The standards 17 have links 20 secured thereto, intermediate of their ends, which links are in turn connected to arms 21, which are connected to the rock shaft 10, so that the standards 17 will be moved upon their pivotal connection 18, upon the rocking of the shaft 10, for either raising or lowering the shovels, for regulating their depth of insertion into the ground.

A platform 23 is secured to the upper surface of the rail 2 adjacent to its rear end, and a seat 24, of ordinary construction, is is supported above the platform, by the ordinary type of resilient seat supporting standard 25.

The central beam or rail 2 has a rearwardly extending bracket 26 secured to its rear end, which bracket swivelly supports an axle supporting yoke 27. The arms 28 and

29 of the axle supporting yoke 27, curves downwardly and rearwardly from the rear end of the rail 2, and rotatably support an axle 30, upon which is mounted a supporting wheel 31. The wheel 31 is positioned centrally of the wheels 6 and 7 and in the rear of the same, as is clearly shown in Fig. 1 of the drawings.

In reducing the invention to practice, certain minor features of construction, combination, and arrangement of parts may necessitate alteration, to which the patentee is entitled, provided such alterations are comprehended within the scope of what is claimed.

What is claimed is:—

1. In a weeder structure, a center rail, a cross rail secured to and extending transversely across the forward end of said center rail, an axle supported by said cross rail, supporting wheels carried by the end of said axle, a third supporting wheel rotatably supported rearwardly of and by the rear end of said center wheel, a pair of angled braces secured to the rear end of said center rail and to the end of said cross rail, a plurality of standards pivotally connected to said cross rail, a weed cutting blade carried by the lower ends of said standards and extending entirely across the width of the weeder, a rock shaft rockably supported by said cross rail, a plurality of arms connected to said cross rail, links pivotally connected to said arms and said standards, an upstanding arm connected to said rock shaft, a hand lever pivotally carried by said center rail, a rod connected to said hand lever and said upstanding arm for rocking said rock shaft upon pivotal movement of said hand lever.

2. In a weeder structure, a center rail, a cross rail secured to and extending transversely across the forward end of said center rail, an axle supported by said cross rail, supporting wheels carried by the ends of said axle, a third supporting wheel rotatably supported rearwardly of and by the rear end of said center rail, a plurality of standards pivotally connected to said cross rail, a weed cutting blade attached to the lower ends of said standards and extending across the width of the weeder, a plate attached to the upper surface of said cross rail intermediate of its ends, upstanding bearings carried by said plate, a rock shaft rockably supported by said bearings, a plurality of arms connected to said rock shaft, links connecting said arms to said standards, an upstanding arm attached to said rock shaft intermediate of its ends, a hand lever pivotally carried by said center rail, a rod connecting said hand lever and said upstanding arm for rocking said shaft upon pivotal movement of said hand lever.

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

RALPH STRODE.

Witnesses:

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FRANK J. RITCHIE.