

No. 763,324.

PATENTED JUNE 21, 1904.

G. W. ROBERTS.
CULTIVATOR.

APPLICATION FILED JAN. 12, 1904.

NO MODEL.

Fig. 1.

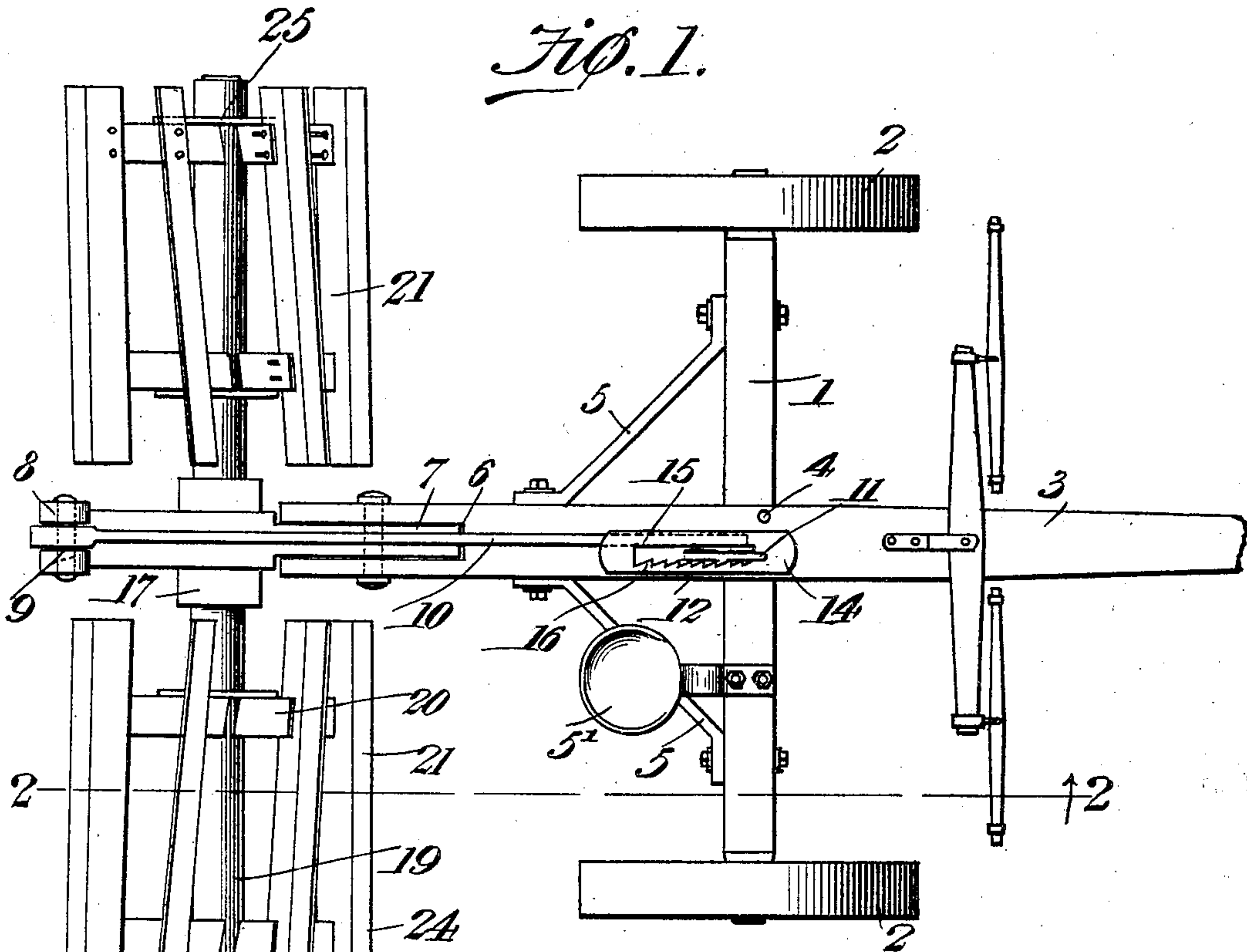


Fig. 2.

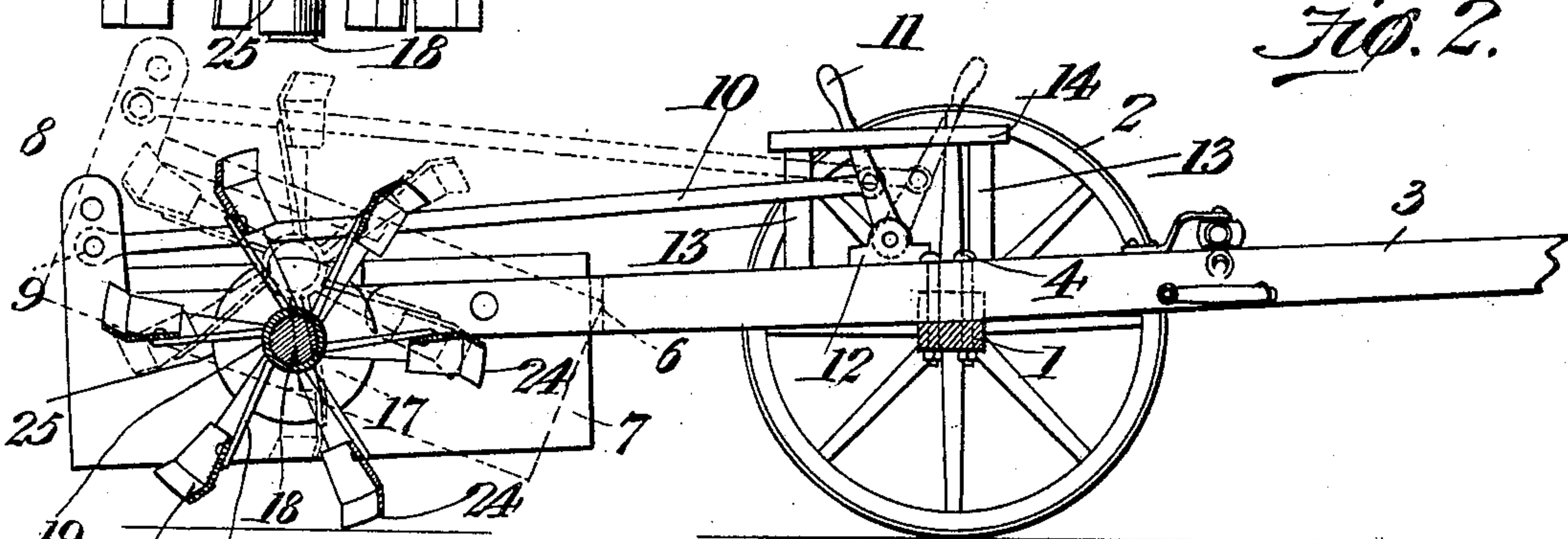
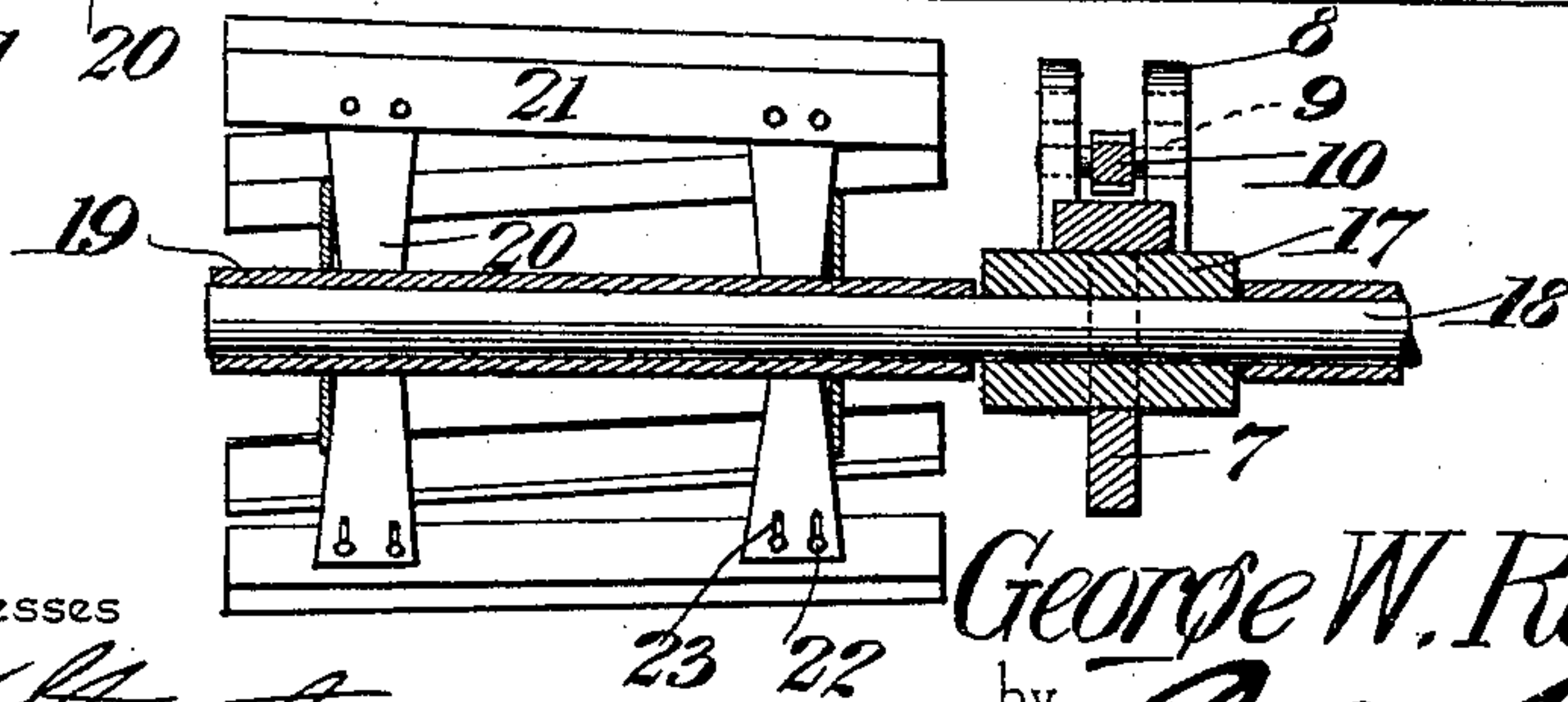


Fig. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

GEORGE WESLEY ROBERTS, OF LEMOORE, CALIFORNIA, ASSIGNOR
OF ONE-HALF TO BURMAH LYNN ROBERTS, OF LEMOORE, CALI-
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CULTIVATOR.

SPECIFICATION forming part of Letters Patent No. 763,324, dated June 21, 1904.

Application filed January 12, 1904. Serial No. 188,705. (No model.)

To all whom it may concern:

Be it known that I, GEORGE WESLEY ROBERTS, a citizen of the United States, residing at Lemoore, in the county of Kings and State
5 of California, have invented a new and useful Cultivator, of which the following is a specification.

This invention relates to cultivating implements; and it has for its object to provide a
10 device of this class which shall be especially adapted to cultivating the soil in orchards and similar places for the purpose of stirring and agitating the soil, exterminating weeds, and the like.

15 This invention consists in the improved construction, arrangement, and combination of parts, which will be hereinafter fully described, and particularly pointed out in the claims.

20 In the accompanying drawings has been shown a simple and preferred form of embodiment of my invention, it being understood, however, that I do not necessarily limit myself to the precise structural details therein exhibited, but reserve the right to such
25 changes and modifications as may be resorted to within the scope of my invention and without departing from the spirit or sacrificing the utility of the same.

30 In said drawings, Figure 1 is a top plan view of a cultivating implement constructed in accordance with the principles of my invention. Fig. 2 is a longitudinal sectional
35 view taken on the line 2 2 in Fig. 1. Fig. 3 is a transverse sectional view taken through the shaft carrying the rotary cultivating implements.

Corresponding parts in the several figures are indicated by similar numerals of reference.

40 The frame of my improved machine includes the axle 1, having transporting-wheels 2 2 and a tongue 3, which is securely connected with said axle by means of bolts 4 at the point of intersection and also by means of braces 5,
45 which connect the rear portion of the tongue with the rear side of the axle. The latter supports a driver's seat 5. The rear end of the tongue has a vertical slot 6, in which is pivotally mounted a plate 7, the rear end of

which has an upright 8, the upper end of 50 which has a slot 9 for the reception of a pivoted rod 10, which extends forwardly and the front end of which is connected with a hand-lever 11, which is fulcrumed to a block 12 upon the upper side of the tongue. The lat- 55 ter has a pair of uprights 13, supporting a plate 14, having a slot 15, through which the hand-lever extends, one edge of said slot being provided with ratchet-teeth 16, with any one of which the hand-lever may be placed 60 in engagement. It will be seen that by operating said hand-lever the rear end of the pivoted plate 7 is capable of vertical adjustment and that by engaging said hand-lever with the ratchets 16 the said plate 7 may be retained 65 at any position to which it may be adjusted.

The plate 7 is provided in rear of its pivotal point with a transverse block 17, through which extends a shaft 18, the length of which exceeds that of the axle. The shaft 18 car- 70 ries at each end a sleeve 19, mounted rotatively thereon and provided near the ends thereof with radiating arms 20, the outer ends of which carry earth-engaging cutters 21. The latter are preferably disposed spirally 75 around the sleeves 19, a result which is readily accomplished by placing the supporting-arms 20 at either end of each sleeve somewhat out of alinement with each other. The cutters may be connected adjustably with the 80 arms by means of bolts 22, engaging slots 23 in the blades or cutters, which may thus be readily adjusted, so as to properly engage the soil. The blades or cutters are also preferably formed with forwardly-bent cutting 85 edges 24. Upon the ends of the sleeves adjacent to the arms 20 are placed collars 25 to prevent said arms from becoming entangled with weeds, brush, and the like.

The operation of my invention will be read- 90 ily understood from the foregoing description, taken in connection with the drawings hereto annexed. When the machine is propelled in a forward direction, the plate 7 may be low- 95 ered, so as to place the edges of the cutters in operative engagement with the slot, which will thus be cut, chopped, and agitated to an extent which will serve to successfully eradicate

weeds and other undesirable growth. For transportation the plate 7 may be elevated by the means described until the cutting devices are sufficiently raised above the ground.

5 Having thus described my invention, I claim—

1. In a cultivating implement, a wheel-supported axle, a tongue securely connected with said axle and having a rearward extension provided with a vertical slot, a plate mounted
10 pivotally in said slot and having a transverse block, means for vertically adjusting the free rear end of the plate, a shaft mounted in the transverse block of the latter, and sleeves
15 mounted upon said shaft and having radiating arms carrying earth-engaging blades.

2. In a cultivating implement of the class

described, a wheel-supported frame, a pivotally-mounted plate having a transverse block, means for adjusting the free end of said plate, 20 a shaft mounted in the block of the latter, sleeves mounted upon said shaft and having radiating arms, earth-engaging blades connected with said arms and having forwardly-bent engaging edges, and collars upon said
25 sleeves adjacent to the radial arms.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

GEORGE WESLEY ROBERTS.

Witnesses:

W. C. YATES,
L. E. SHORE.