

No. 768,181.

PATENTED AUG. 23, 1904.

S. R. JOHNSON.
ROAD SCRAPER.

APPLICATION FILED APR. 27, 1904.

NO MODEL.

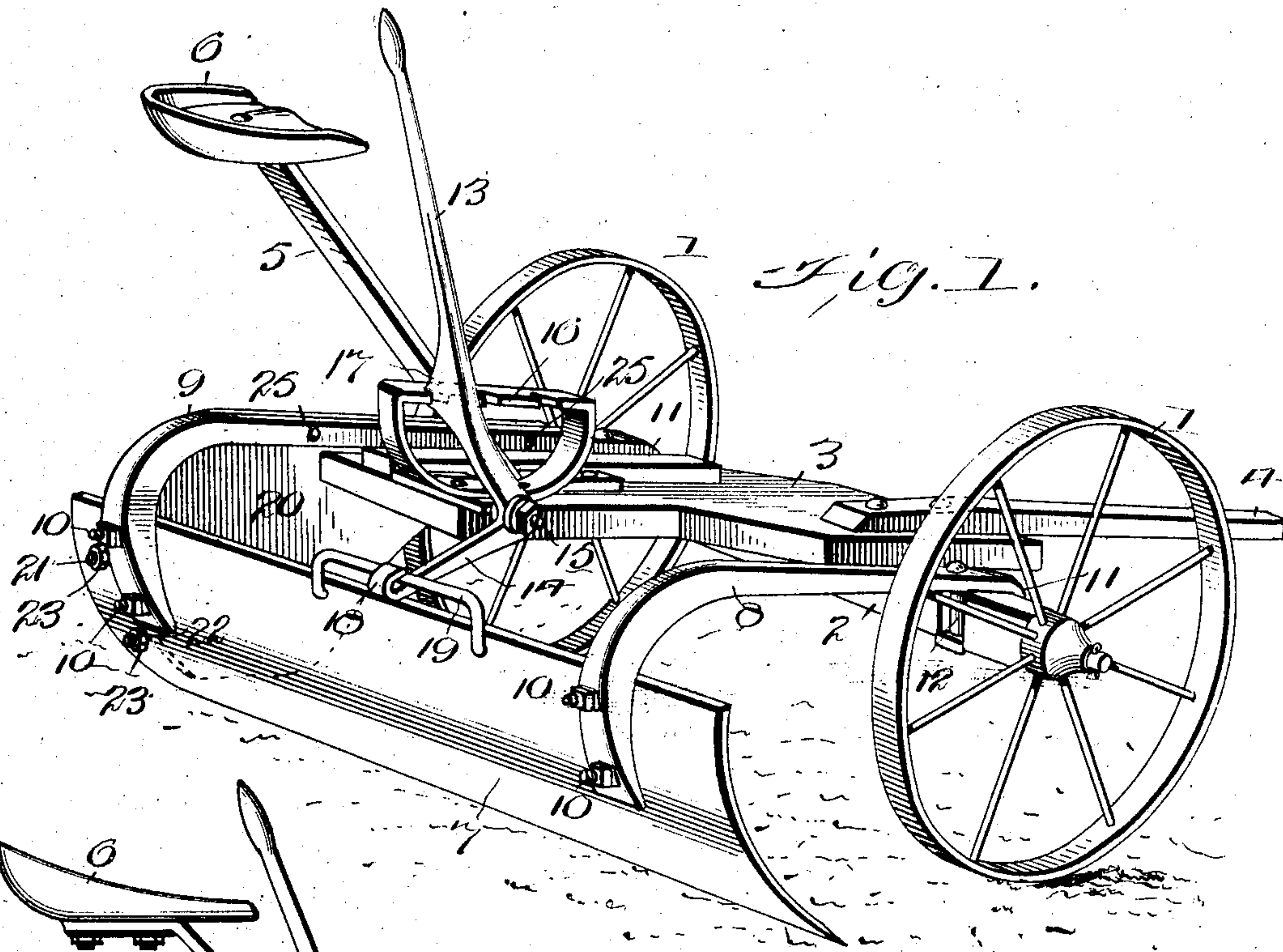


Fig. 1.

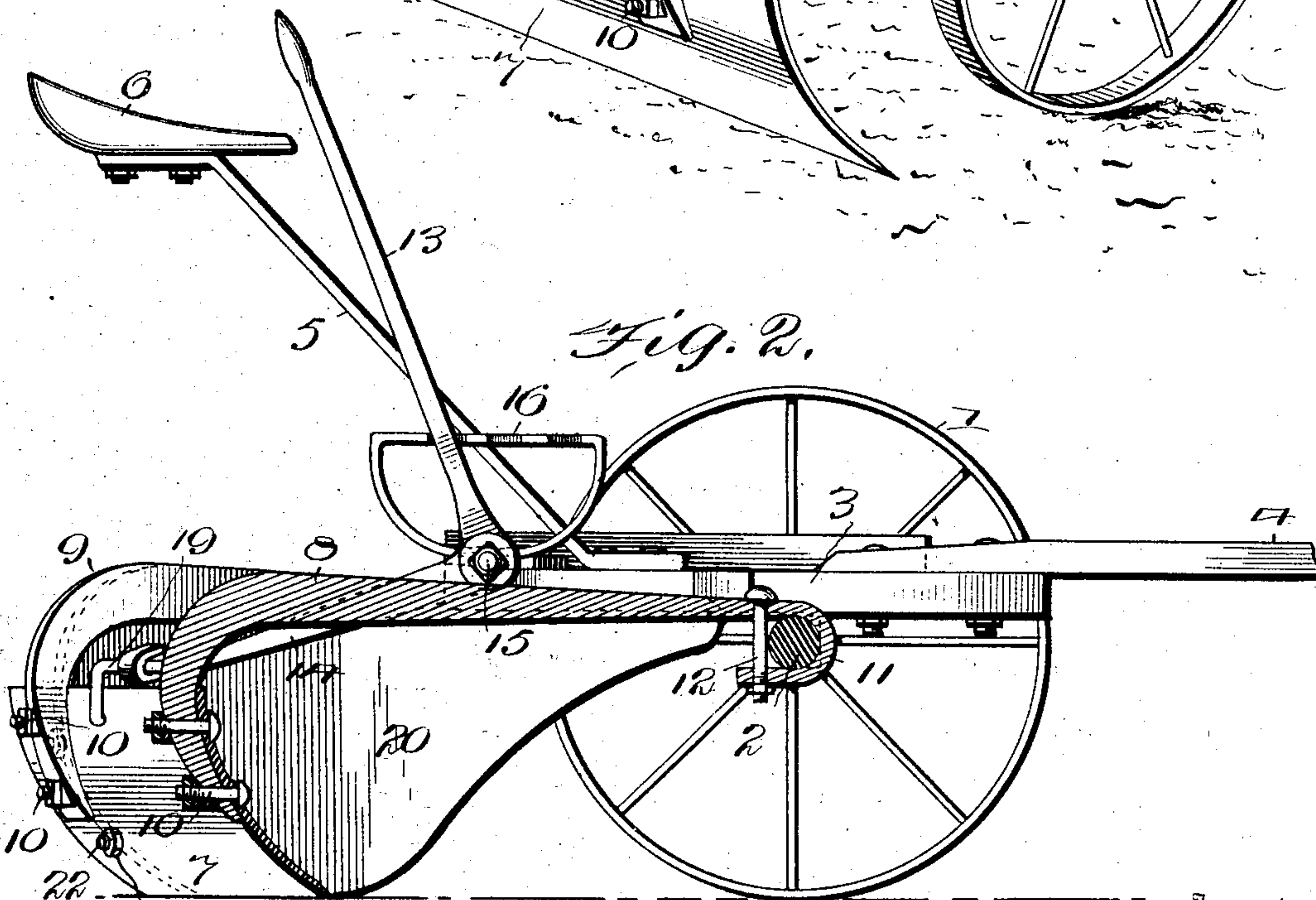


Fig. 2.

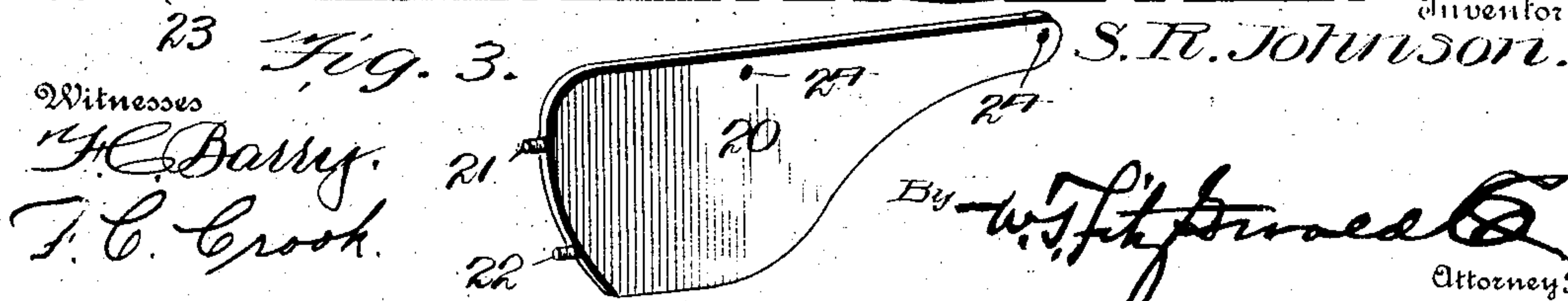


Fig. 3.

Witnesses

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UNITED STATES PATENT OFFICE.

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ROAD-SCRAPER.

SPECIFICATION forming part of Letters Patent No. 768,181, dated August 23, 1904.

Application filed April 27, 1904. Serial No. 205,178. (No model.)

To all whom it may concern:

Be it known that I, SYLVESTER R. JOHNSON, a citizen of the United States, residing at Winston, in the county of Daviess and State of Missouri, have invented certain new and useful Improvements in Road-Scrapers; 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.

My invention relates to scrapers which will be found useful for a great variety of purposes, as in road-building, excavating earth, &c.; and my invention consists of certain novel features of combination and construction of parts the preferred form whereof will be hereinafter clearly set forth, and pointed out in the claim.

The main object of my invention, among others, is to provide a machine of the character specified which will be found reliably efficient in scraping up the earth and moving it to a point desired, as in road-building.

A further object of my invention is to place the scraper-blade under the complete control of the operator, whereby it may be elevated, as in discharging its load or in being taken from place to place.

Other objects and advantages will be hereinafter made clearly apparent, reference being had to the accompanying drawings, which form a part of this application, and in which—

Figure 1 shows a perspective view of my invention complete ready for use. Fig. 2 shows a sectional view taken on a line with one of the scraper-beams. Fig. 3 shows a perspective detail view of my scraper attachment designed to cooperate with the scraper-blade.

For convenience of reference to the various details of my invention and cooperating accessories numerals will be employed, the same numeral applying to a similar part throughout the several views.

Referring to the numerals on the drawings, 1 designates the carrying-wheels, which may be of any preferred construction or may be the wheels ordinarily employed upon a mowing-machine, thus enabling the farmer to

readily improvise a good part of the machine right at his own home.

2 designates the carrying-axle, upon which the platform 3 is secured in any preferred way, while the draft-tongue 4 is attached to the central portion of said axle or platform 3 and to which the draft-animals are attached in the usual manner. The platform 3 extends rearwardly sufficiently to afford a point of attachment for the standard 5, upon which the seat 6 is located. The scraper-blade 7 is connected with the axle by means of the rearwardly-directed beams 8 and 9, the rear ends of said beams being curved downward substantially as in the formation of a plow-beam, and the scraper-plate is secured to said downwardly-directed ends in any preferred way, as by the bolts 10 or equivalent thereof.

It will be understood that the forward ends of the beams 8 and 9 are so connected to the carrying-axle 2, as by bending the forward ends in the manner indicated by the numeral 11, whereby they will be held in engagement with the axle 2 by the bolt 12. This method of connecting the forward ends of the beams 8 and 9 to the axle will, it is obvious, admit the scraper-blade to be raised and lowered as desired, and in order to accomplish the raising and lowering of said beams and the scraper-blade carried thereby I provide the controlling-lever 13, which is formed with the crank extension 14 and is pivotally mounted on the rear end of the platform 3 by means of the bolt or rod 15, a suitable rack-bar 16 being provided with a plurality of notches or recesses adapted to cooperate with the lip upon a contiguous part of the controlling-lever. The angular extension 14 is bent back upon itself at its extreme outer end, as indicated by the numeral 18, said hook-like terminal 18 being designed to engage the bar or loop member 19, secured to the upper edge of the middle section of the scraper-blade, as clearly shown in Fig. 1, and it is therefore obvious that by moving the controlling-lever forward the scraper-blade and the beams 8 and 9 will be elevated to any desired point.

I prefer that the beam 9 shall be of greater length than the beam 8, which will dispose

the scraper-blade at an oblique angle relative to the plane of the carrying-axle, whereby the scraper-blade will deliver the earth engaged thereby and discharge it at its rear end, as is very desirable in road-building. I have also provided an attachment, which I have designated by the numeral 20, which is formed with the two lugs 21 and 22, said lugs being designed to take into suitable apertures formed near the end of the scraper-blade and be secured thereon by suitable nuts 23, the forward end of the member 20 being also provided with an aperture 24, by which it may be attached to the side of the beam 9.

If desired, one or more of the apertures 24 may be formed so that by entering suitable bolts 25 therethrough and through registering holes provided in the beam 9 it is obvious that the auxiliary scraper 20 may be reliably held in place, so that a heavy load of earth may be drawn to any point desired and quickly discharged by a forward movement of the controlling-lever 13.

The various parts of my invention may be cheaply and expeditiously manufactured and made of any suitable material and any desired size, and while I have described the preferred combination and construction of parts I wish to comprehend in this application all substan-

tial equivalents and substitutes which may be considered as falling fairly within the scope of my invention.

Believing that the advantages and manner of using my combined scraper and earth-carrying machine have thus been made clearly apparent, further description is deemed unnecessary.

What I claim as new, and desire to secure by Letters Patent, is—

The herein-described combined scraper and earth-carrier comprising a suitable carrying-frame; a platform and seat erected thereon; a scraper-blade disposed at an oblique angle to the plane of the carrying-axle; a controlling-lever for said blade and an auxiliary scraper-blade connected to the end of the main scraper-blade and to the carrying-beam therefor whereby a load of earth may be gathered and drawn to a point desired and readily discharged all combined substantially as specified and for the purpose set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

SYLVESTER R. JOHNSON.

Witnesses:

MAMIE EADS,
CHAS. S. DAVIS.