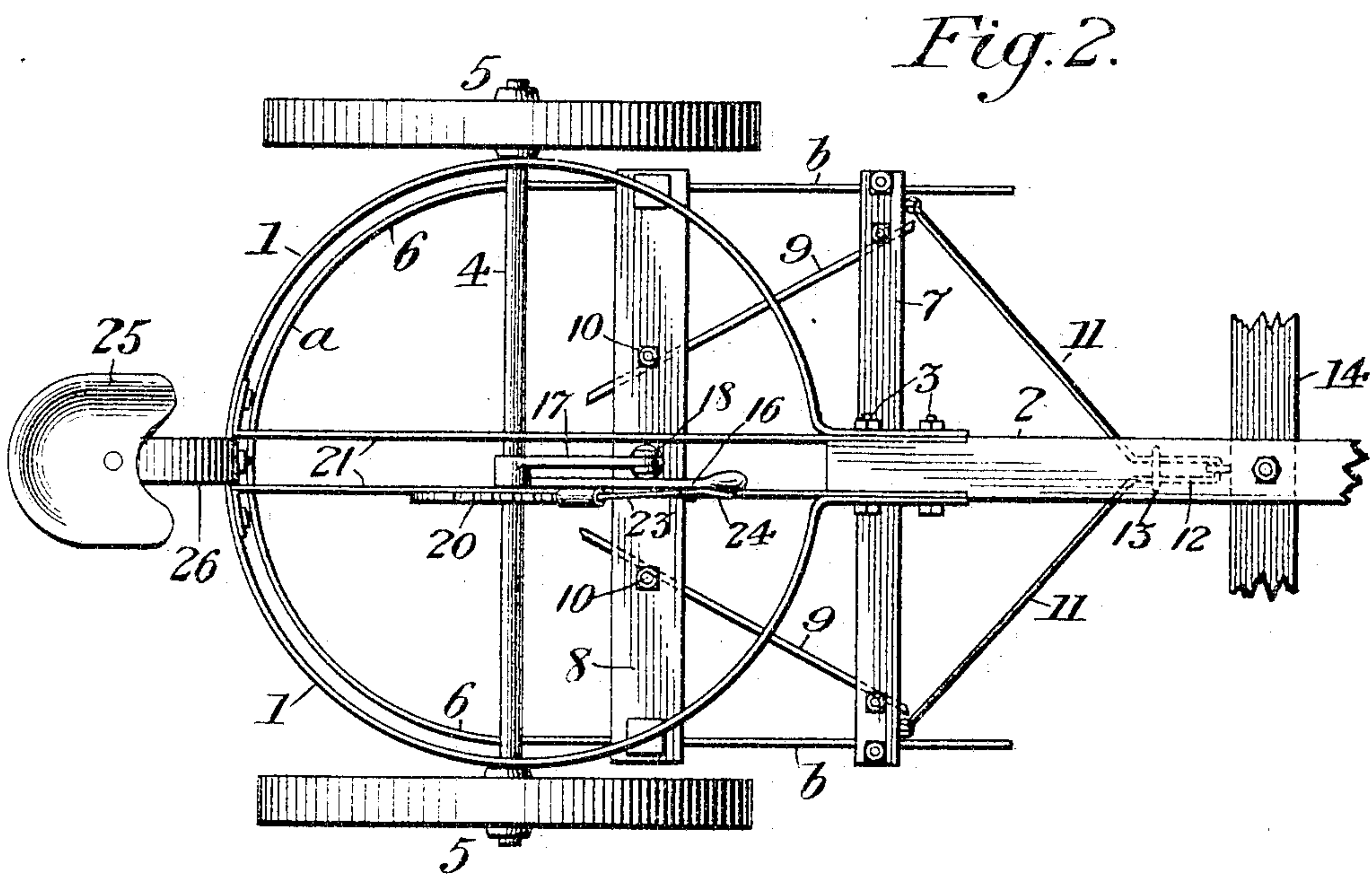
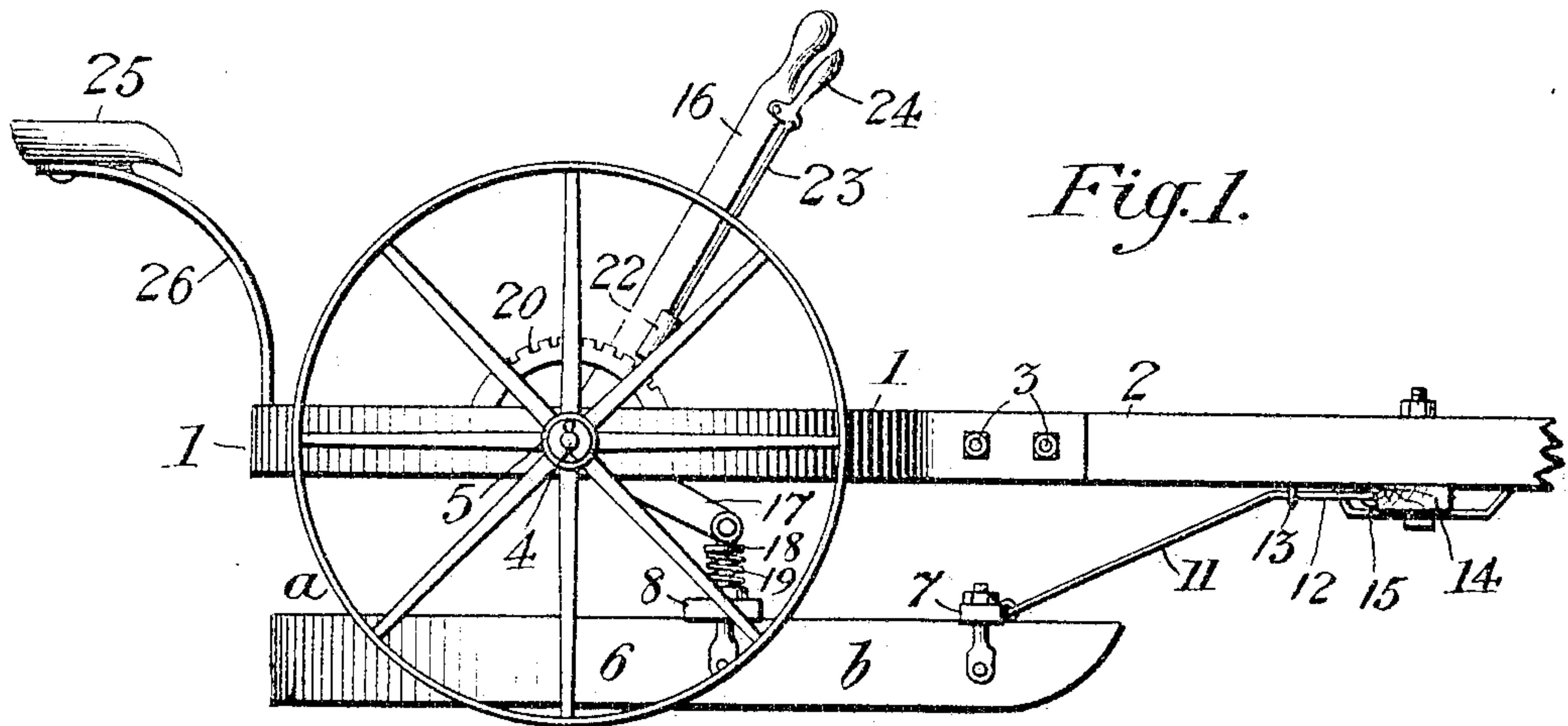


No. 782,270.

PATENTED FEB. 14, 1905.

S. RANDALL.
ROAD MAKING MACHINE.
APPLICATION FILED DEC. 2, 1904.



Witnesses:
H. E. Mantez
E. L. Triffitt

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His Atty.

UNITED STATES PATENT OFFICE.

STEPHEN RANDALL, OF RUSSELL, IOWA, ASSIGNOR OF ONE-HALF TO
JAMES M. WRIGHT, OF RUSSELL, IOWA.

ROAD-MAKING MACHINE.

SPECIFICATION forming part of Letters Patent No. 782,270, dated February 14, 1905.

Application filed December 2, 1904. Serial No. 235,171.

To all whom it may concern:

Be it known that I, STEPHEN RANDALL, a citizen of the United States, residing at Russell, in the county of Lucas and State of Iowa, have invented new and useful Improvements in Road-Making Machines, of which the following is a specification.

My invention relates to improvements in road-making machines designed especially for the leveling and smoothing of roads, public parks, grounds, &c.

The paramount object of this invention is to produce a generally improved device of this class which will be exceedingly simple in construction, cheap of manufacture, and efficient in use, and which will be better suited to its intended purposes than any other device of the same class with which I am acquainted.

With these ends in view the invention consists in the novel construction, arrangement, and combination of parts hereinafter described, illustrated in the accompanying drawings, and particularly pointed out in the appended claims.

Referring now to the accompanying drawings, forming a part of this specification, Figure 1 is a side elevation of my improved road-making machine in its operative position. Fig. 2 is a top plan view of the same.

Referring now to the drawings, 1 designates the main frame of the machine, consisting in the present instance of a single piece of sheet iron or steel bent into substantially cylindrical form, as shown, and having the ends thereof bent and secured at the front to a tongue 2 by means of bolts and nuts 3 or in some other suitable and convenient manner.

4 designates a shaft mounted within the sides of the main frame 1 and carrying upon its ends the wheels 5, by means of which the machine is transported and moved when in its operative position.

6 designates the scraper-blade proper, formed in the present instance of a single piece of sheet-steel bent at the rear of the shaft 4 into semicircular shape, as at *a*, and having its ends extending forwardly along the sides of the machine to form the side cutting-

blades *b*. The side cutting-blades *b* are secured and held in proper position near the front ends thereof by means of a brace arm or beam 7, mounted upon the top edges thereof and suitably secured thereto. 8 designates a second brace arm or beam similarly mounted and secured thereto to the rear of said beam 7 and designed to raise and lower the scraper-blade 6 by means hereinafter described.

9 designates inwardly and rearwardly extending cutting-blades or scrapers mounted within the side cutting-blades *b* and secured beneath the brace arms or beams 7 and 8 by means of the downwardly-extending brace-bolts 10.

11 designates draft-rods secured to the front side of the brace arm or beam 7 near the end of the side cutting-blades *b* and the cutting-blades or scrapers 9 and extending inwardly and forwardly and terminating in an elongated link 12, suitably mounted beneath the tongue 2 by means of a staple 13 and secured to the doubletree 14 by means of a clevis 15.

16 designates a lever mounted upon the shaft 4 in any suitable and convenient manner and provided with a forwardly-extending crank-arm 17, carrying upon its end a depending connecting link or pin 18, secured to the second brace arm or beam 8 intermediate the ends thereof.

19 designates a coil-spring surrounding the connecting link or pin 18 and interposed between the end of the crank-arm 17 and the brace arm or beam 8 for the purpose of cushioning the connection of these parts and yieldingly holding the scraper-blade 6 in contact with the earth when the lever 16 has been moved forwardly, thrusting the same downwardly to the depth of the cut desired.

20 designates a bracket secured to one of the center braces 21 of the frame and adapted to be engaged by the bolt 22 of the lever 16, manipulated by means of the rod 23 and finger-lever 24, secured to the lever 16.

It will thus be seen that the scraper-blade 6 may be readily raised and lowered to any desired height or depth of cut, and when desired the center scraper-blade 6 may be raised

up out of contact with the earth for transportation or storage by pulling the lever rearwardly.

25 designates a seat for the driver and operator of the machine, secured to the rear of the frame 1 of the machine by means of the spring 26.

Having thus described my invention, the operation and advantages of the same will be readily understood.

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principles or sacrificing any of the advantages of this invention.

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

1. A road-making machine, consisting of a main frame of substantially cylindrical form, a tongue secured to the front end thereof, a shaft mounted in said frame, wheels mounted on the ends of said shaft, an operating-bar mounted on said shaft, a scraper-blade mounted beneath said frame and shaft and connected to said operating-lever, inwardly and rearwardly extending cutting-blades or scrapers mounted within said scraper-blade, and draft-rods connecting said scraper-blade to the doubletree, substantially as described.

2. A road-making machine, consisting of a main frame of cylindrical form, a tongue secured to the front end thereof, a scraper-blade bent at its rear into semicylindrical form and having its ends extending forwardly to form side cutting-blades, inwardly and rearwardly extending cutting-blades or scrapers mounted adjacent to said side cutting-blades and within said scraper-blade, draft-rods connected to the front ends of said scraper-blade, and an operating-lever connecting said scraper-blade to said main frame.

3. In a road-making machine, the combination with a main frame suitably mounted, and an operating-lever secured thereto, of a scraper-blade mounted immediately beneath said main frame, and secured to said operating-lever, cutting-blades or scrapers mounted within said scraper-blade, and draft-rods connecting said scraper-blade to the doubletree, substantially as described.

In testimony whereof I have affixed my signature in presence of two subscribing witnesses.

STEPHEN RANDALL.

Witnesses:

W. D. HARKEN,
EDWARD WOODMAN.