

No. 808,877.

PATENTED JAN. 2, 1906.

C. D. SMITH.  
ROAD LEVELING MACHINE.  
APPLICATION FILED JULY 13, 1905.

Fig. 1

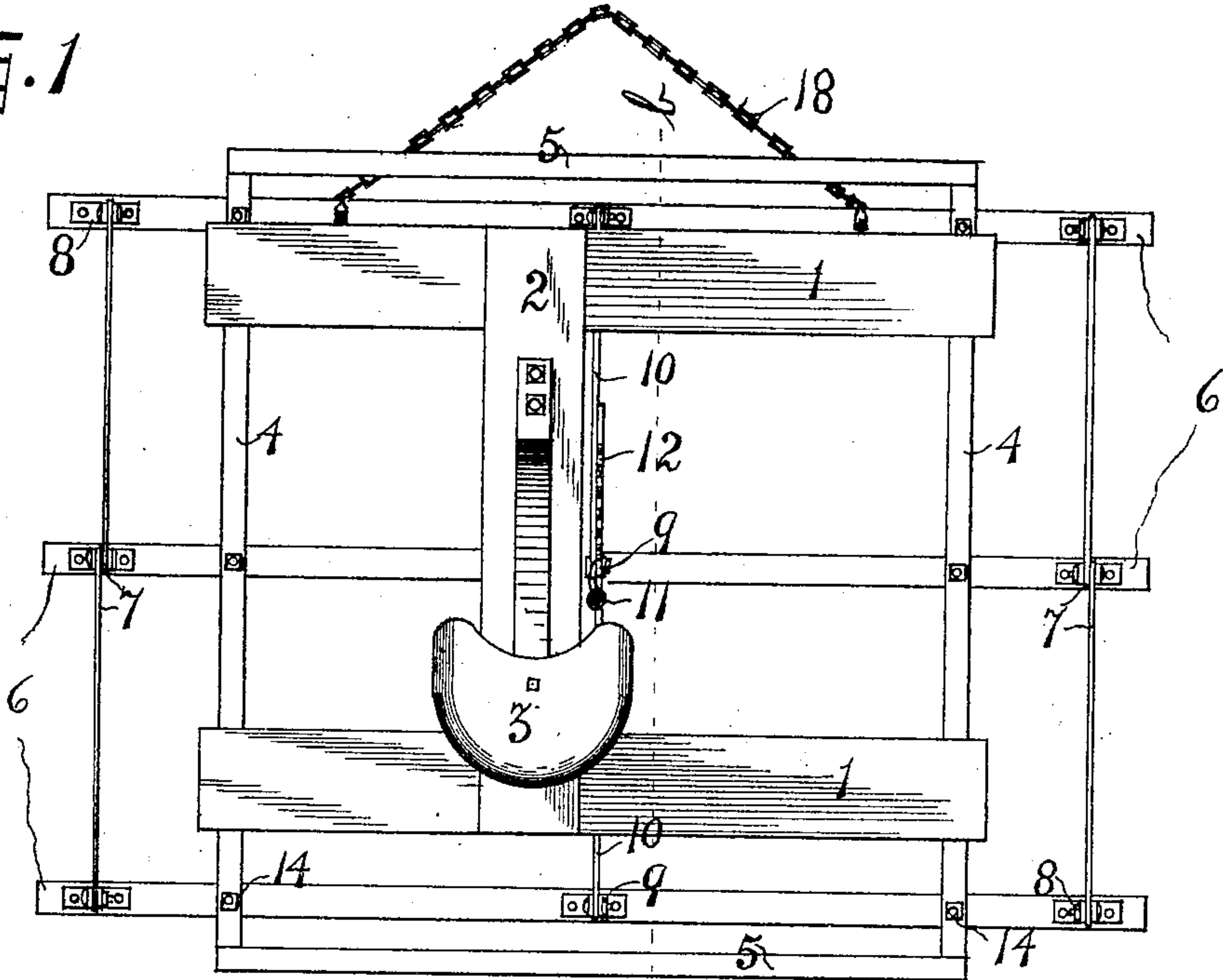


Fig. 2

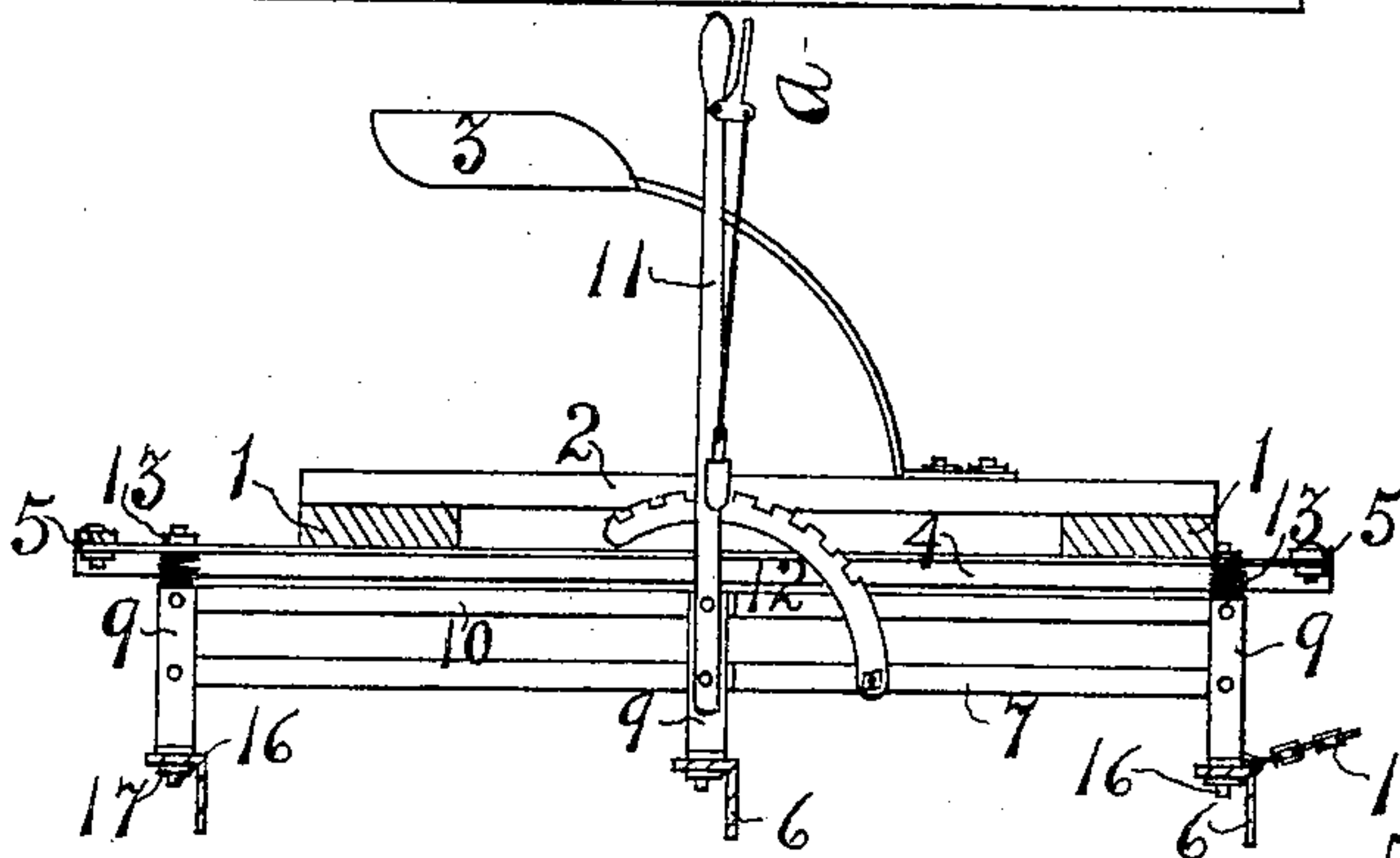


Fig. 3

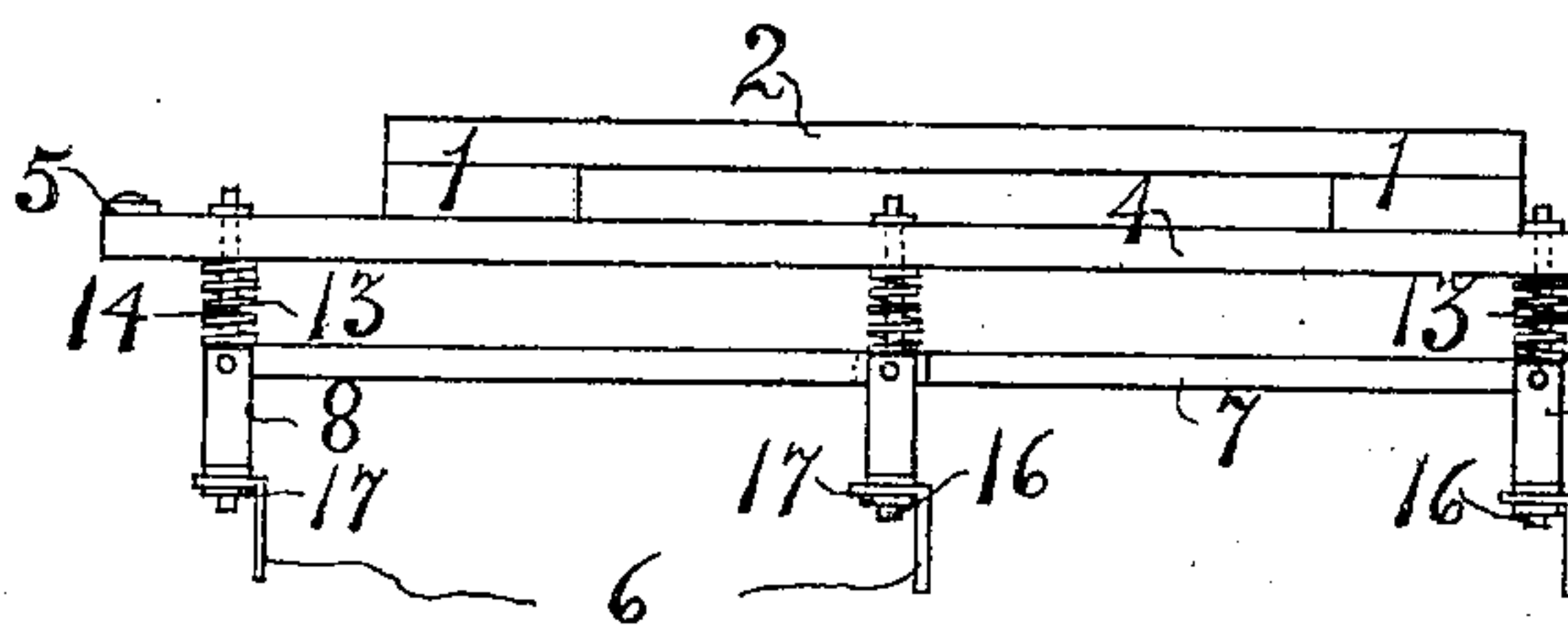
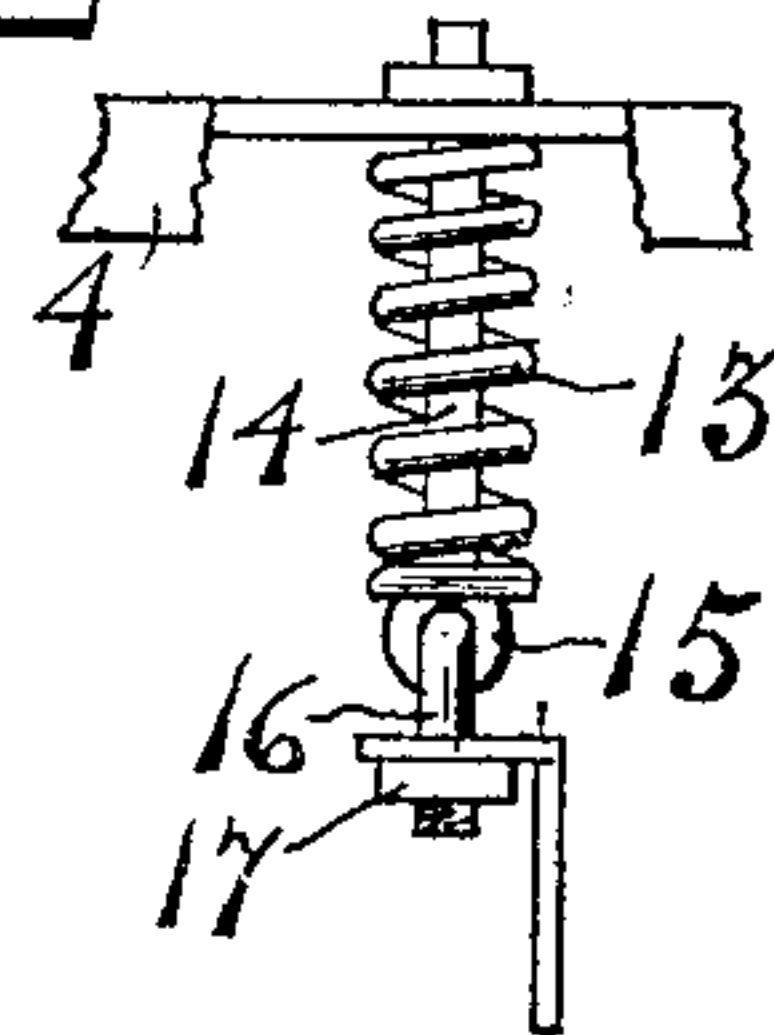


Fig. 4



WITNESSES:

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# UNITED STATES PATENT OFFICE.

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## ROAD-LEVELING MACHINE.

No. 808,877.

Specification of Letters Patent.

Patented Jan. 2, 1906.

Application filed July 13, 1905. Serial No. 269,457.

*To all whom it may concern:*

Be it known that I, CLINTON D. SMITH, 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-Leveling Machines, of which the following is a specification.

My invention relates to improvements in road-leveling machines; and the primary object of the same 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 adapted 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 to the accompanying drawings, forming a part of this specification, Figure 1 is a top plan view of my invention. Fig. 2 is a sectional view of the same, taken through line *a b* of Fig. 1. Fig. 3 is an elevation of one of the sides of the same. Fig. 4 is a detail view of one of the supporting-springs connected to one of the drag-bars and supporting the frame of the machine.

Referring now to the drawings, 1 designates beams formed at the front and rear of the machine and connected by a third beam 2, upon which is mounted a spring-seat 3 for the driver and operator. The ends of said beams 1 are mounted upon and secured to two iron beams 4, of angle-iron, which, together with the connecting irons or beams 5, secured to the ends of said iron beams 4 at the front and rear, form the frame of the machine.

6 designates a series of drag-bars formed by angle-irons, as shown, and connected and secured to each other by means of a series of longitudinal arms or bars 7, having the ends thereof pivotally mounted and secured within a series of brackets 8, mounted upon said drag-bars 6 near the ends thereof.

9 designates a series of elongated brackets mounted upon and secured to said drag-bars intermediate the end portions thereof and carrying a set of longitudinal arms or bars 7 and at their upper ends a second set of longitudinal arms or bars 10. (See Fig. 2.)

11 designates an operating-lever secured

to one of the elongated brackets 9 and by means of which the drag-bars 6 may be given any desired slant or inclination.

12 designates a notched bracket or rack secured at its lower end to one of the lower set of longitudinal arms or bars 7 and by means of which the operating-lever 11 may be set at any desired position.

13 designates a series of supporting-springs interposed between the beams 4 and the drag-bars 6 and surrounding a series of bolts 14, (see Fig. 4,) provided at their lower ends with eyes 15, carrying a second series of bolts and eyes 16, secured to the upper sides of the drag-bars 6 by means of nuts 17. The upper ends of the bolts 14 are similarly secured to the beams 4.

18 designates a draw-chain secured to the front drag-bar 6, and by moving the hitch on said draw-chain 18 any desired angle of the drag-bars 6 to the line of the direction of the movement of the machine may be obtained.

If desired, a tongue may be attached to the beam 2 and the doubletree suspended beneath the same and attached to the draw-chain 18.

From the foregoing description, taken in connection with the accompanying drawings, the operation and advantages of my invention may be readily understood.

Having thus described my invention without having attempted to set forth all the forms in which it may be made or all the modes of its use, I declare that what I claim, and desire to secure by Letters Patent, is—

1. A road-leveling machine, consisting of a suitable frame, a series of drag-bars mounted beneath the same and secured thereto by means of a series of eyebolts, a series of longitudinal arms or bars pivotally mounted and secured to said drag-bars, and means for tilting said drag-bars to any desired inclination.

2. A road-leveling machine, consisting of a suitable frame, a series of drag-bars secured thereto, a series of longitudinal arms or bars pivotally secured to said drag-bars, and means for operating the same.

3. In a road-leveling machine, a series of drag-bars, a series of brackets mounted thereon, a series of longitudinal arms or bars pivotally mounted within said brackets, a second set of longitudinal arms or bars pivotally mounted in said brackets, and means for operating and adjusting said drag-bars.

4. In a road-leveling machine, the combination with a suitable frame, and a series of

drag-bars adjustably secured thereto; of a series of brackets mounted on said drag-bars, a series of longitudinal arms or bars pivotally secured thereto, and means for operating  
5 and adjusting said drag-bars.

5. In a road-leveling machine, the combination with a series of drag-bars, a series of brackets mounted thereon, and a series of longitudinal arms or bars pivotally mounted  
10 within said brackets; of a second set of longitudinal arms or bars mounted within said

brackets, means for connecting said first and second set of longitudinal arms or bars, and means for operating and adjusting the same.

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

CLINTON D. SMITH.

Witnesses:

P. H. STECH,  
J. F. SPRAGUE.