

No. 617,914.

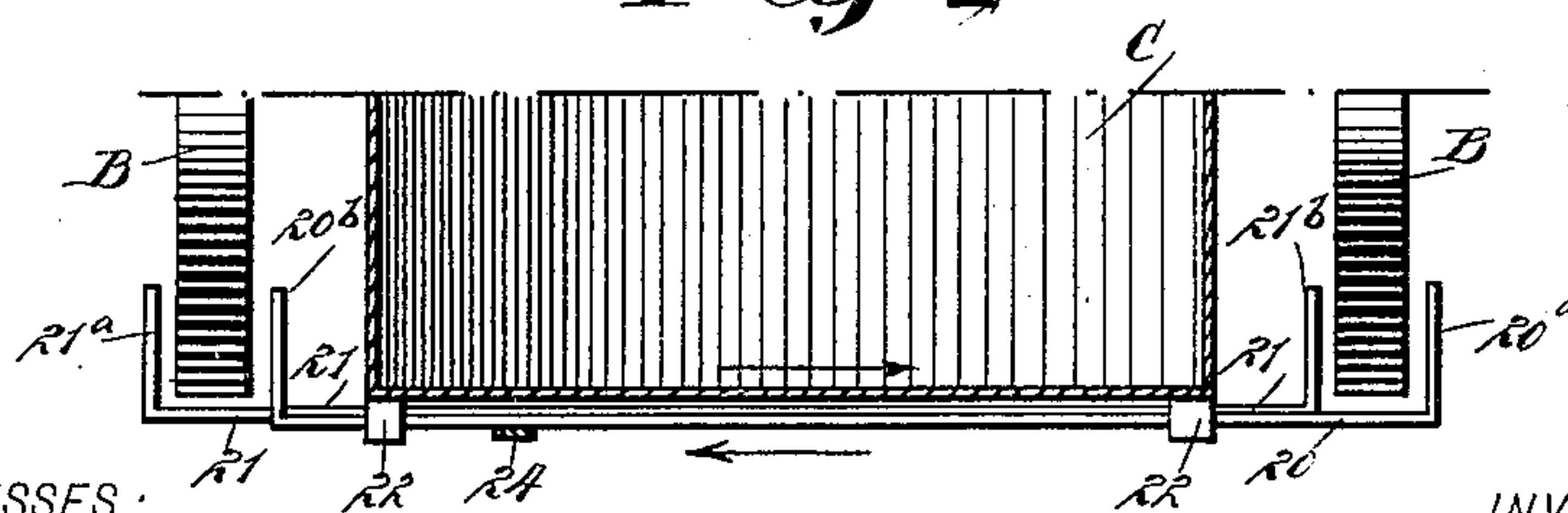
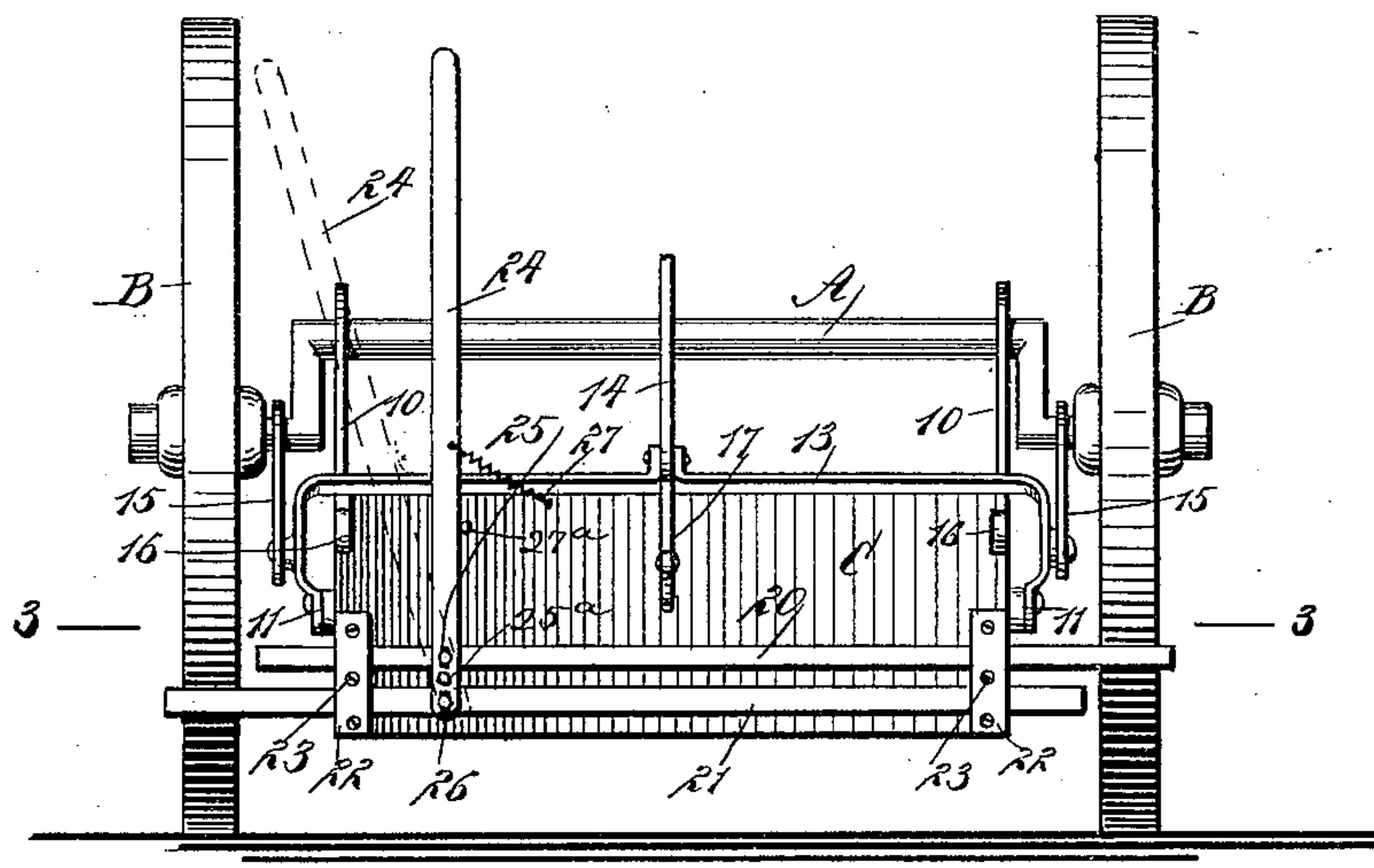
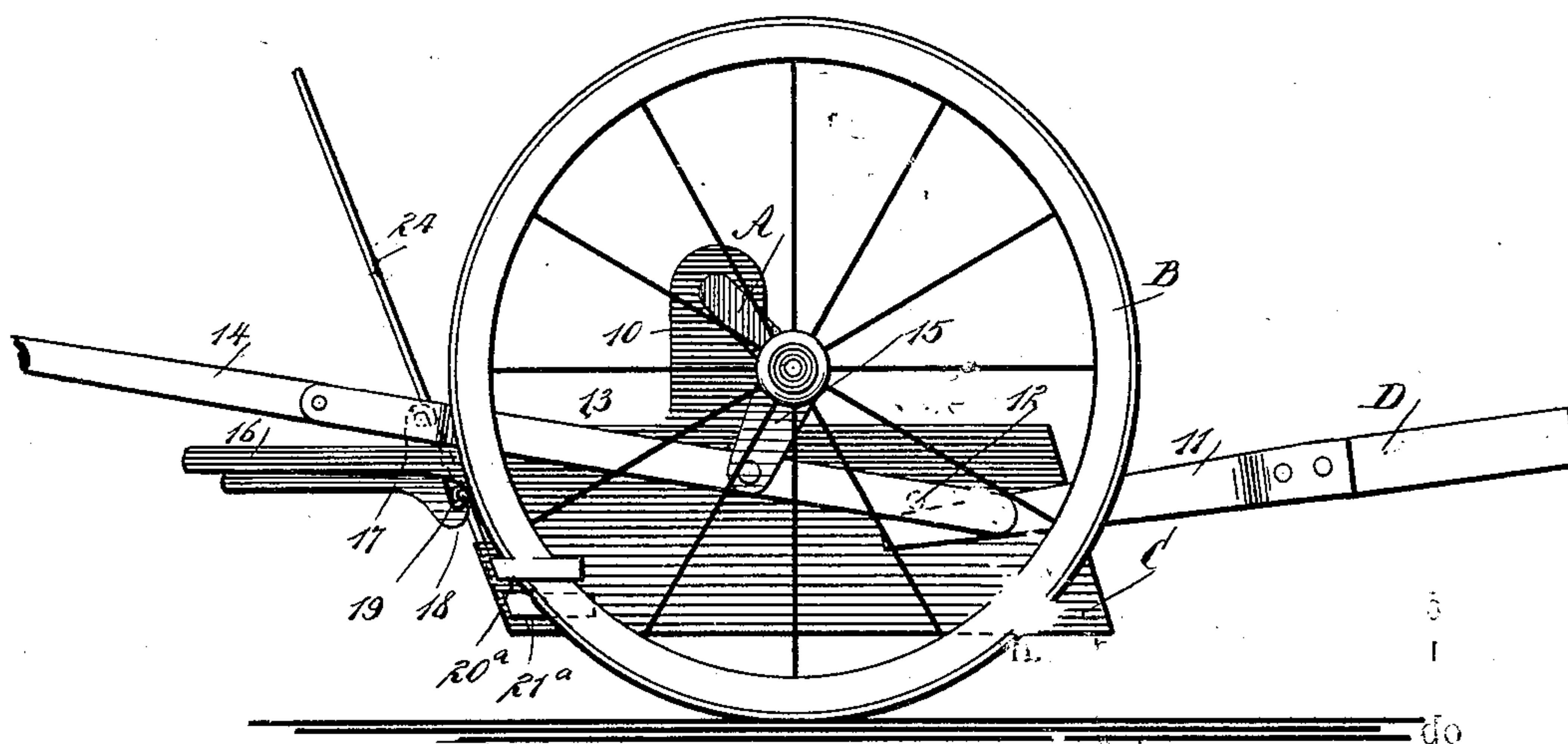
Patented Jan. 17, 1899.

A. TITUS.

DUMPING ATTACHMENT FOR WHEELED SCRAPERS.

(Application filed Apr. 5, 1898.)

(No Model.)



WITNESSES :

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UNITED STATES PATENT OFFICE.

ANSON TITUS, OF NATIONAL CITY, CALIFORNIA.

DUMPING ATTACHMENT FOR WHEELED SCRAPERS.

SPECIFICATION forming part of Letters Patent No. 617,914, dated January 17, 1899.

Application filed April 5, 1898. Serial No. 676,587. (No model.)

To all whom it may concern:

Be it known that I, ANSON TITUS, of National City, in the county of San Diego and State of California, have invented a new and
5 Improved Dumping Attachment for Wheeled Scrapers, of which the following is a full, clear, and exact description.

The object of my invention is to provide a wheeled road-scraper with a simple, durable,
10 economic, and readily-applied dumping attachment.

Another object of the invention is to so construct the attachment that it may be brought to an engagement with the wheels of the machine and be automatically operated by the
15 said wheels.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

25 Figure 1 is a side elevation of a road-scraper having the improvement applied. Fig. 2 is a rear elevation of the said scraper; and Fig. 3 is a horizontal section through the rear portion of the scraper, taken substantially on the line 3 3 of Fig. 2.

A represents an arch-axle or crank-axle, at the ends of which supporting-wheels B are mounted to loosely turn, and C represents a scoop of any approved construction. The
35 scoop is supported from the crank-arm of the axle A by means of hangers 10, secured to its sides, preferably at the center.

D represents a pole or tongue provided with arms 11, attached at its sides, which arms extend one at each side of the forward end of the scoop C, having bearing near their inner ends against pins 12, secured to the side faces of the scoop. The arms 11 of the tongue or pole are pivotally attached to a yoke-frame
45 13, which extends rearwardly at the sides of the scoop and across the upper portion of the scoop at the rear, the said yoke-frame 13 being attached to the spindle portions of the axle A by means of links 15 or their equivalents, as shown best in Fig. 2. A handle 14
50 is attached to the rear central portion of the yoke-frame 13, by means of which handle the

scoop may be raised from the ground when it has received its load. Handles 16 are likewise provided for the scoop, being attached
55 at each side of the rear portion of the scoop, and a lever 17 is pivoted to the central rear portion of the yoke-frame 13, the lever being provided with a hook-section 18, adapted to engage with a lug 19 on the rear of the scoop
60 and hold the scoop in its upper position. All the parts above enumerated are of the usual construction.

The attachment to the scoop consists of two sliding bars 20 and 21, placed one above the
65 other at the rear of the scoop near the bottom, and these bars 20 and 21 have end movement in guides 22, secured to the back of the scoop, the bars being supported by pins 23, passed through the central portion of the
70 guides or like devices. A lever 24, having a fulcrum 25^a upon the scoop, is pivotally connected with both the upper and the lower sliding bars 20 and 21 by means of pins 25 and 26, and when the lever is moved laterally
75 one of the sliding bars will be given end movement in direction of the right-hand side of the machine and the other sliding bar will be given movement in direction of the left-hand side of the machine. The upper slid-
80 ing bar 20 is of such length that one of its ends will extend beyond the outer face of the right-hand wheel B, and this end of the sliding bar 20 is provided with a forwardly-extending arm 20^a, adapted for engagement with
85 the outer face of the right-hand wheel. A second forwardly-extending arm 20^b is formed at the left-hand end of the sliding bar 20, and the arm 20^b is adapted for engagement with the inner face of the left-hand wheel when
90 the arm 20^a engages with the outer face of the right-hand wheel. The lower sliding bar 21 is carried beyond the outer face of the left-hand wheel B and at that end is provided with a forwardly-extending arm 21^a, arranged
95 for engagement with the outer face of the said left-hand wheel, while at the opposite end of the lower sliding bar 21 a forwardly-extending arm 21^b is formed, arranged for engagement with the inner face of the right-hand
100 wheel when the opposite arm 21^a engages with the outer face of the left-hand wheel.

When the locking-lever 17 is disengaged from the rear of the scoop and the shifting-

lever 24 is manipulated to bring the forwardly-extending arms of the sliding bars 20 and 21 in engagement with the wheels as the machine advances, the wheels will carry up 5 the rear end of the scoop and will cause its load to be dumped.

The dumping-bars 20 and 21 are prevented from engaging with the wheels when not wanted by attaching a spring 27 to the lever 10 24 and the upper edge of the scoop, and the spring is prevented from pulling the lever too far to the right by a stop 27^a, located upon the scoop.

Having thus described my invention, I 15 claim as new and desire to secure by Letters Patent—

1. In a wheeled scraper, the combination, with the wheels and a pivoted scoop, of bars 20 mounted to slide at the rear end of the scoop, the bars being arranged for clamping engage- 20 ment with the said wheels, and means for carrying the bars to and from an engagement with the wheels, as specified.

2. In a road-scraper, the combination, with 25 the wheels of the scraper and a scoop, of bars mounted to slide at the rear end portion of the scraper, the bars having their ends ar-

ranged for clamping engagement with the wheels of the scraper, and a lever connected with both bars and arranged to simultane- 30 ously move the bars in opposite directions, as set forth.

3. In a road-scraper, the combination, with the wheels of the scraper and a scoop, of bars held to slide at the rear lower portion of the 35 scoop, the bars being provided with forwardly-extending arms at their extremities, an arm of one bar being arranged for engagement with the outer face of the right-hand wheel and the opposite arm for simultaneous en- 40 gagement with the inner face of the left-hand wheel, the arms of the other bar being arranged for simultaneous engagement one with the outer face of the left-hand wheel 45 and the other with the inner face of the right-hand wheel, and a lever pivotally connected with both bars, and arranged to move the bars simultaneously in opposite directions, as described.

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Witnesses:

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