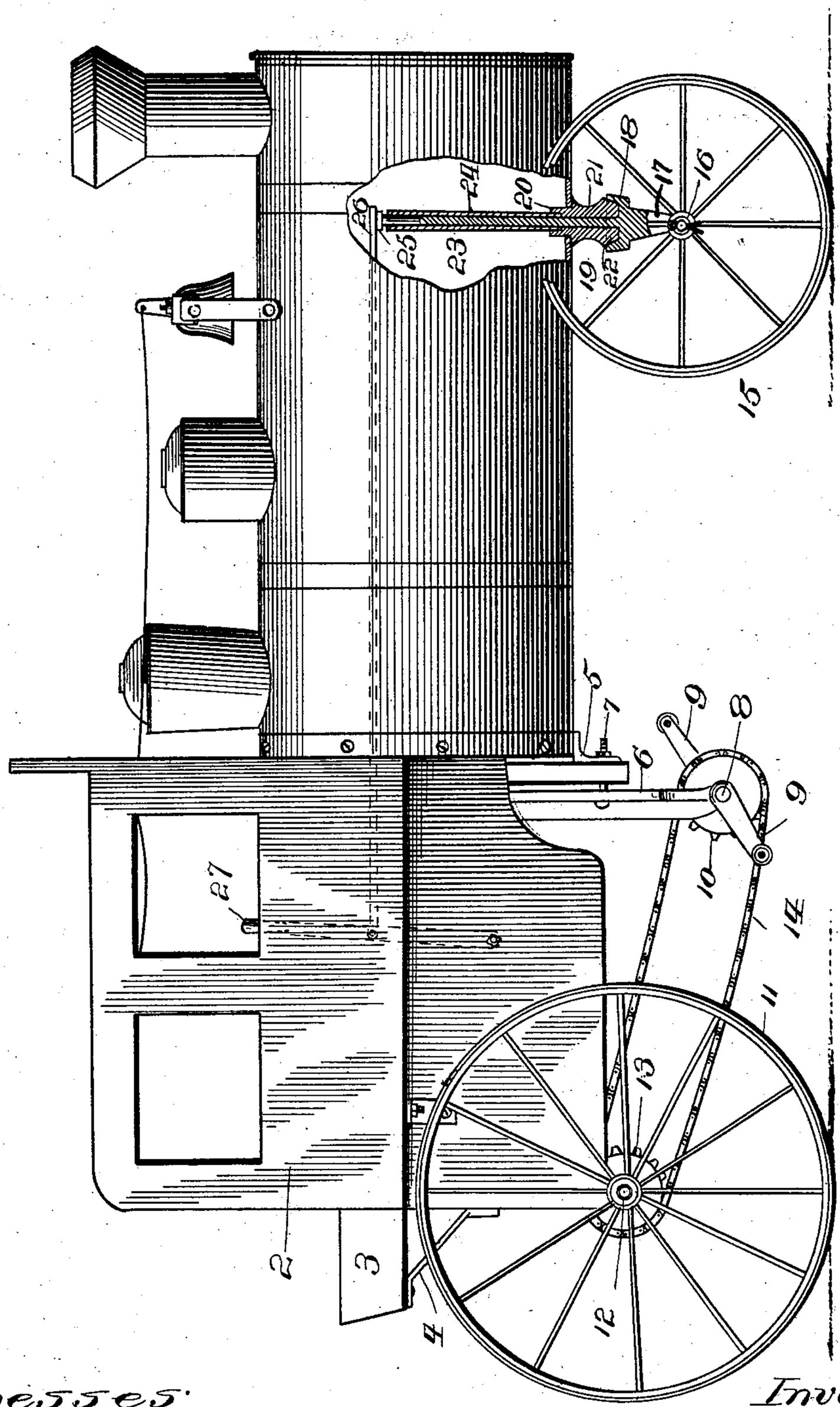
No. 696,315. Patented Mar. 25, 1902.

J. F. COOPER.

TOY ENGINE.

(Application filed Oct. 27, 1899.)

(No Model.)



Witnesses:
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UNITED STATES PATENT OFFICE.

JAMES F. COOPER, OF DENVER, COLORADO, ASSIGNOR OF ONE-HALF TO JOHN B. WILLIAMS, OF DENVER, COLORADO.

TOY ENGINE.

SPECIFICATION forming part of Letters Patent No. 696,315, dated March 25, 1902.

Application filed October 27, 1899. Serial No. 734,938. (No model.)

To all whom it may concern:

Be it known that I, JAMES F. COOPER, a citizen of the United States, residing at Denver, in the county of Arapahoe and State of Colorado, have invented a new and useful Improvement in Toy Locomotives, of which the following is a specification.

My invention relates to toy locomotives; and it consists of the parts and combination of parts hereinafter more fully set out, the object of my invention being to produce a toy of this character that is simple, cheap, and durable.

The view illustrating my invention is a side elevation of a toy locomotive, the parts being broken away.

1 represents the boiler; 2, the cab, from which projects the seat 3, supported by a brace 4 at the end of the cab.

5 is a bracket depending from the cab, and 6 is a hanger bolted to said bracket by means of the bolt 7, the lower end of said hanger being provided with a journal-bearing of approved construction, in which the shaft 8 is journaled. 9 represents crank-arms rigidly secured to the respective ends of said shaft.

10 is a sprocket-wheel secured rigidly upon the shaft 8.

11 is one of the driving-wheels of the locomotive, mounted upon the shaft 12. 13 is a sprocket-wheel rigidly keyed to said shaft 12 and connected with the sprocket-wheel 10 by means of its drive-chain 14.

15 is one of the front or steering wheels, mounted upon the shaft 16.

17 is a yoke projecting upwardly from the shaft 16, in the center of which is formed a cone-bearing seat 18.

19 is a bolster provided with an upwardly-extending lug 20 and shoulders 21, said lug adapted to extend through the shell of the boiler, the shoulders 21 resting snugly against the periphery of the boiler, thereby rigidly securing said bolster in position.

22 is a cone-bearing formed integral with the lower end of the bolster 19, adapted to work in the seat 18.

23 is an upwardly-extending rod projecting from and integral with the cone-bearing seat 18, said rod extending into the boiler 1.

24 is a sleeve surrounding the rod 23 above the projection 20 of the bolster 19. It will be noticed that the bolster 19 is provided with a vertical opening, through which the rod 23 extends.

25 is an arm secured at right angles to the top of the rod 23, to which is pivoted a steering rod or bar 26, the other end of said bar 26 being pivotally secured to the steering-lever 27 within the cab.

The floor of the cab is cut away in order that the feet of the operator may rest upon the pedals secured upon the crank-arms 9, whereby said pedals may be operated, thus driving the machine by means of the sprocket-wheels 10 and 12 and the driving-chain 14.

The machine is steered by means of the lever 27, the bar 26, the arm 25, and rod 23, whereby the steering-wheels 15 are turned in a desired direction.

Having thus described my invention, the following is what I claim as new therein and desire to secure by Letters Patent:

1. A toy, comprising a body consisting of a forwardly-extending hollow part and a seating-cab located at the rear of the hollow part, pilot-wheels pivoted to the hollow part, and steering mechanism connecting with the pilot-wheels and extending through the hollow part to a point adjacent the seating-cab.

2. A toy comprising a body consisting of a forwardly-extending hollow part, a seating-cab having an opening in the floor, located at the rear of the hollow part, pilot-wheels pivoted to the hollow part, steering mechanism connected with the pilot-wheels and extending through the hollow part to a point adjacent to the seating-cab, driving-wheels, and mechanism connecting with the driving-wheels, disposed beneath the opening in the floor of the seating-cab and adapted to be operated to propel the toy.

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

JAMES F. COOPER.

Witnesses:
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