

(No Model.)

J. HANLEY.
LOCOMOTIVE TOY.

No. 439,064.

Patented Oct. 21, 1890.

Fig. 1.

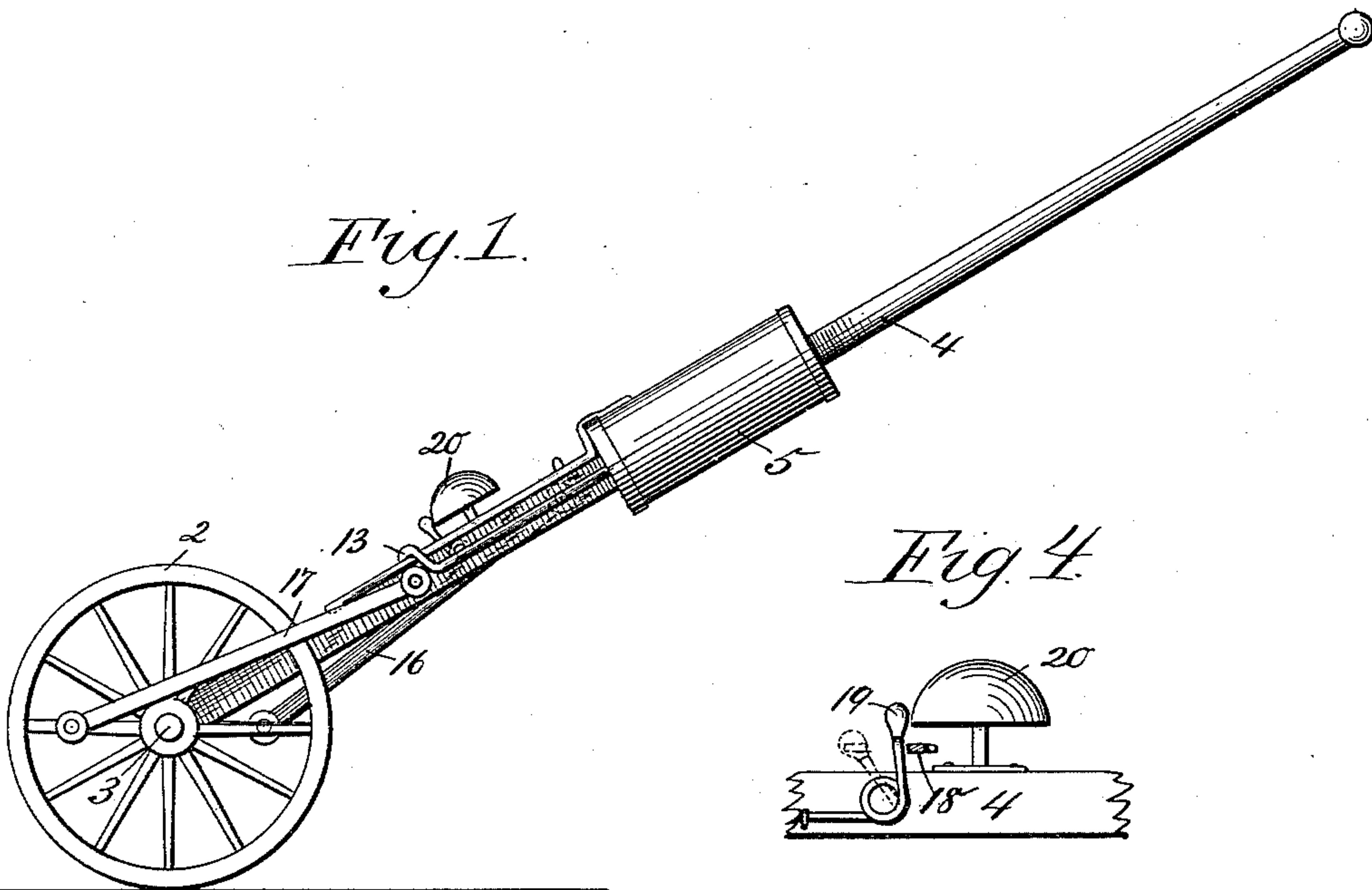


Fig. 4.

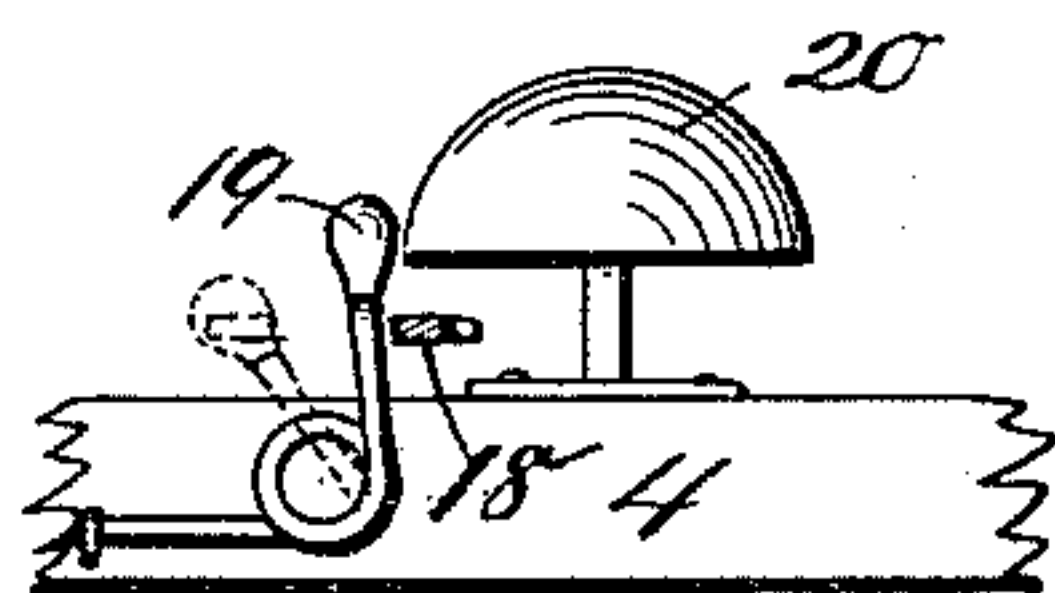


Fig. 2.

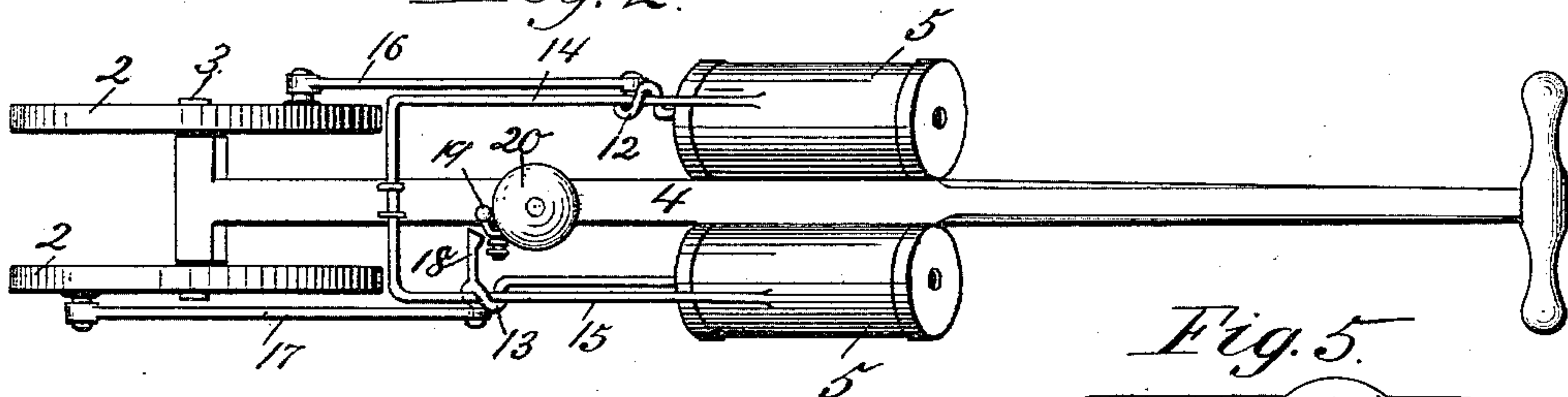


Fig. 3.

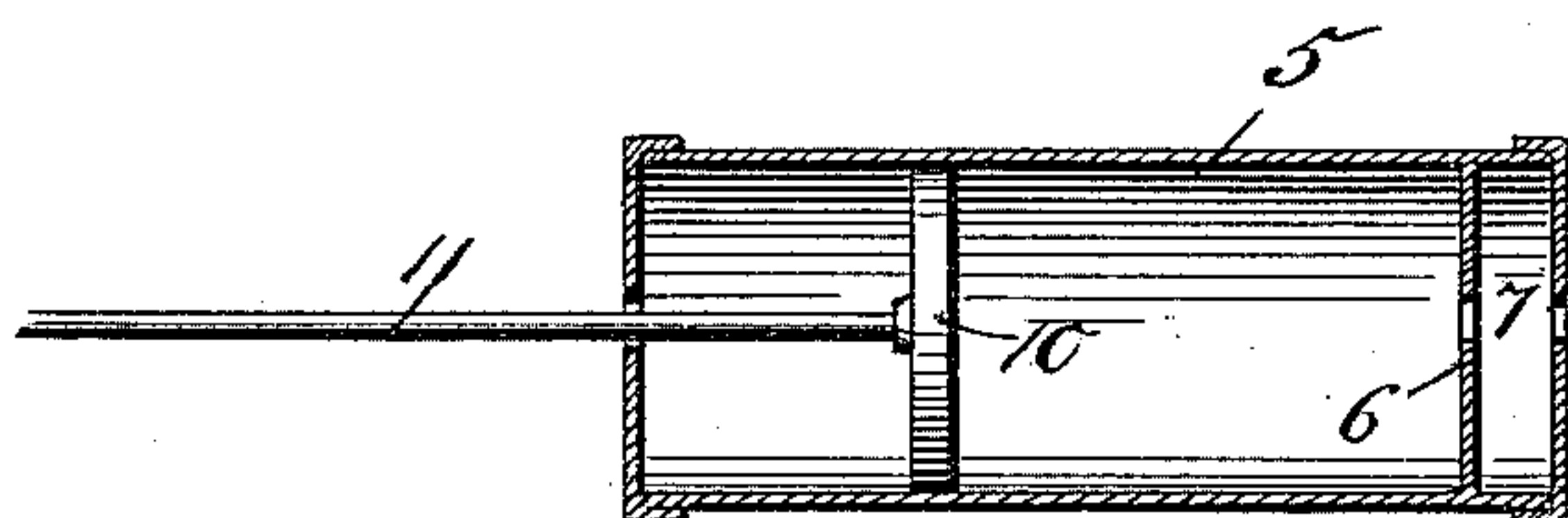
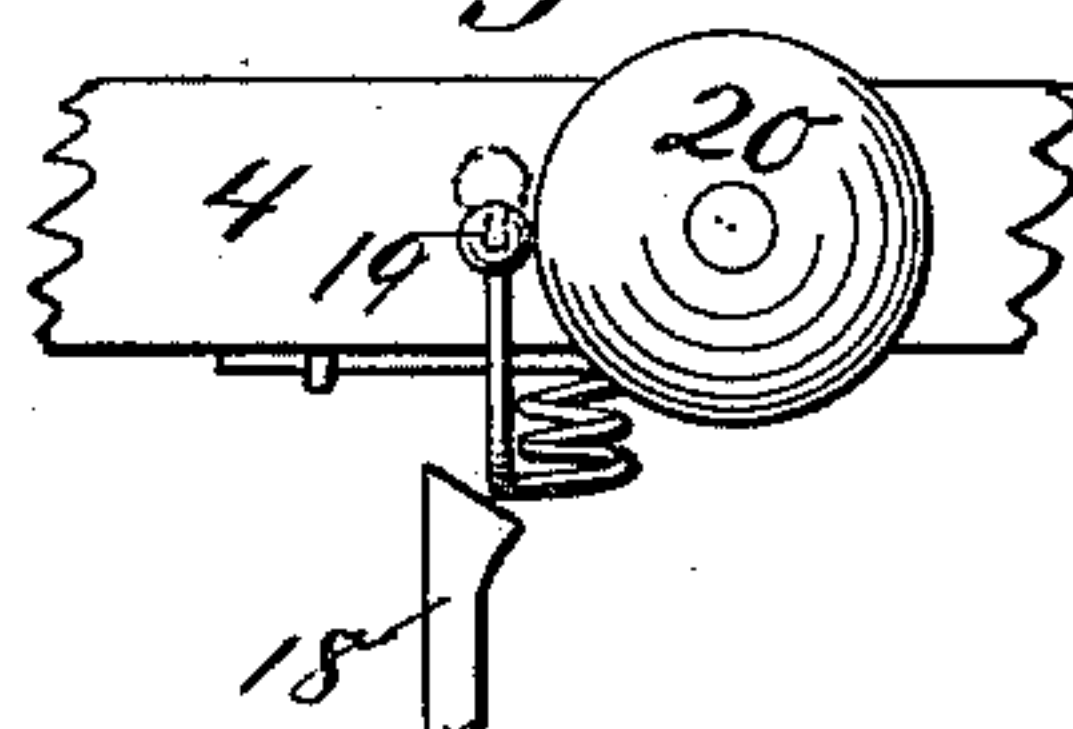


Fig. 5.



Witnesses:
J. Jensen
C. E. Hawley

Inventor
John Hanley.
By Paul S. Merwin Atty

UNITED STATES PATENT OFFICE.

JOHN HANLEY, OF MINNEAPOLIS, MINNESOTA.

LOCOMOTIVE TOY.

SPECIFICATION forming part of Letters Patent No. 439,064, dated October 21, 1890.

Application filed April 26, 1890. Serial No. 349,696. (No model.)

To all whom it may concern:

Be it known that I, JOHN HANLEY, of Minneapolis, in the county of Hennepin and State of Minnesota, have invented certain Improvements in Locomotive Toys, of which the following is a specification.

My invention relates to locomotive toys adapted to the use of children and to sound a whistle to imitate the puffing of a locomotive-engine and also to ring a bell attached upon the toy.

My invention consists in a two-wheeled running toy having upon its handle or tongue whistle-cylinders adapted to be operated by pistons actuated by the turning of the wheels of the toy, in combination with a bell attached to the said handle or tongue, the spring-hammer thereof being adapted to be actuated by a dog or tripping-catch carried upon one of the piston-rods.

My invention will be more readily understood by reference to the accompanying drawings, in which—

Figure 1 is a side elevation of a locomotive toy embodying my invention. Fig. 2 is a plan view taken from Fig. 1. Fig. 3 is a sectional elevation of one of the whistle-cylinders. Fig. 4 is a detail view of the bell and its hammer. Fig. 5 is a plan view thereof, showing the engagement of the hammer with the dog upon the piston-rod.

Similar numerals of reference are used to indicate like parts throughout the different figures.

As shown in Figs. 1 and 2, the wheels 2 are provided upon the axle 3 upon the lower end of the handle or tongue 4. The whistle-cylinders 5 upon the tongue 4 are of the form shown in Fig. 3, being provided with the perforated diaphragm or partition 6 in the upper end of the cylinder, thus forming a whistle-cavity 7 between the said partition 6 and the correspondingly-perforated end of the cylinder. These cylinders 5 are provided with pistons 10, adapted to work up and down in the same, and provided with suitable piston-rods 11. The lower ends 12 and 13 of these piston-rods 11 are bent around the guide-rods 14 and 15, and serve, so to speak, as cross-heads running thereon. A pivoted connection is made between the cross-heads 12 and 13 and the crank-pins upon the sides of the wheels 2 by the connecting-rods 16 and 17, whereby when the wheels are revolved the pistons 10 are caused to travel up and down in the said

cylinders 5, thereby alternately blowing and sucking the air through the whistles 7 in the upper ends of the cylinders 5 and making a noise therein similar to the puffing of an engine.

The bell 20 is secured to the tongue 4 of the toy and provided with a spring-hammer 19, adapted to engage with the dog or tripping-catch 18 upon the cross-head 13, whereby when the cross-head is moved up and down along the guide 15 the dog or catch 18 is caught behind the spring-hammer 19, and upon the downstroke of the cross-head carries the same away from the bell 20. As the cross-head is nearing the lower part of its stroke, the dog is carried out of engagement with the spring-hammer 19, thereby allowing the hammer to fly back against the bell to sound the same.

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

1. The combination of the wheels 2, the axle 3, and the handle or tongue 4, with the whistle-cylinders 5, secured to said handle, the pistons 10, provided with the piston-rod 11, the cross-heads 12 and 13 upon the ends of said rods, the guide-rods 14 and 15, adapted to receive the same, the connecting-rods 16 and 17, forming a pivoted connection between the said cross-head and suitable crank-pins upon the sides of the wheels 2, and the bell 20, having the spring-hammer 19, adapted to be actuated to ring said bell by engaging with the dog or tripping-catch 18 upon the cross-head, substantially as shown and described.

2. The combination, in a running toy, of a wheel adapted to turn upon a suitable handle with a bell carried upon said handle, a crank-pin upon said wheel, a cylinder secured to said handle and provided with a whistle in its end, a piston and piston-rod in said cylinder, a connecting-rod between said piston-rod and said crank-pin, and a lug attached to the piston-rod and adapted to engage the hammer of said bell, whereby when said wheel is rotated said bell is rung and said whistle sounded, substantially as described.

In testimony whereof I have hereunto set my hand this 9th day of April, 1890.

JOHN HANLEY.

In presence of—

BESSIE BOOTH,
A. M. GASKILL.