

(No Model.)

W. LEGGETT.
TOY.

No. 272,275.

Patented Feb. 13, 1883.

FIG. 1.

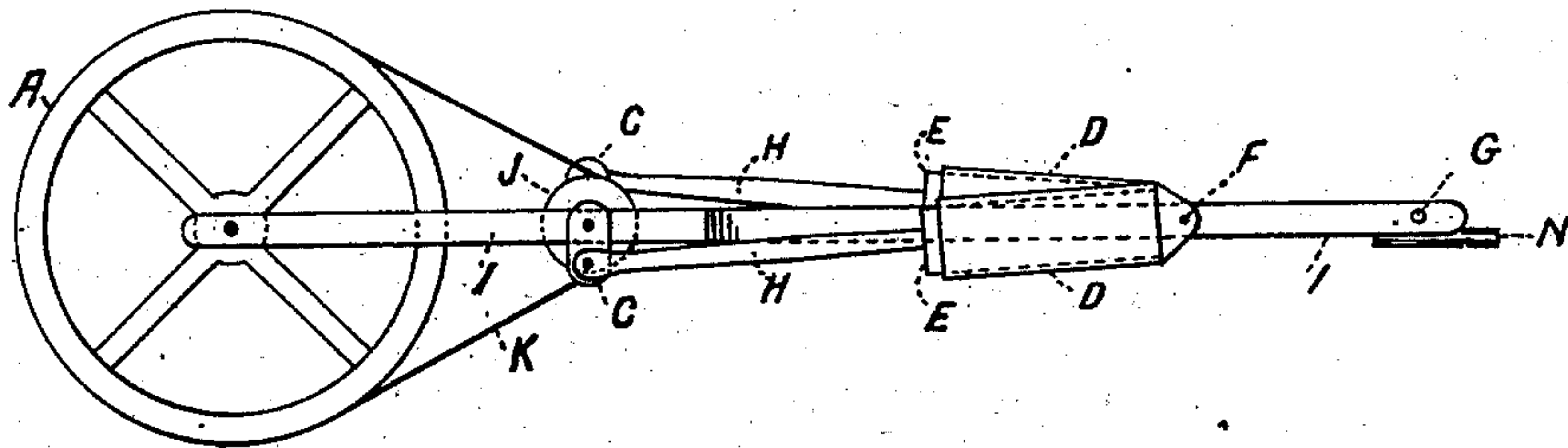
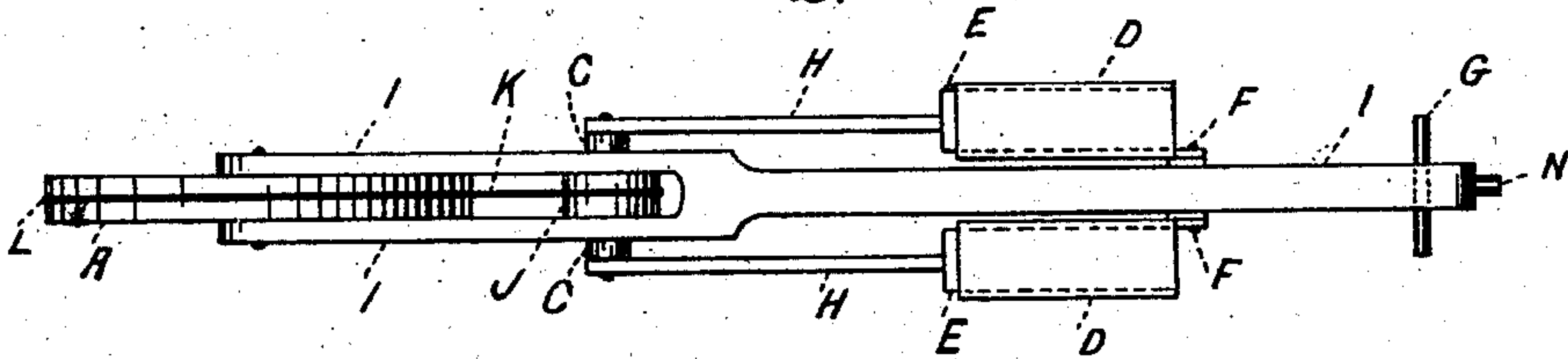


FIG. 2.



WITNESSES.

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TOY.

SPECIFICATION forming part of Letters Patent No. 272,275, dated February 13, 1883.

Application filed December 12, 1882. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM LEGGETT, a citizen of the United States, residing in the city, county, and State of New York, have invented a certain new and useful Toy, of which the following is a description, reference being had to the accompanying drawings, making part of this specification, and to the letters and figures of reference marked thereon.

Like letters refer to corresponding parts in both the figures.

Referring to the drawings, Figure 1 is a side elevation of my invention, and Fig. 2 a top view of the same, in which—

A is a friction-wheel, on the circumference of which the groove L, Fig. 2, is formed, which is intended to serve as a guide and protection for the band K, surrounding said wheel. This band also surrounds and operates the wheel J, provided with a corresponding groove, as shown in the drawings. On the prolongation of the axis of the wheel J the lever-arms C are firmly attached. The piston-rods H are pivoted to the rotating arms C and terminate in the piston-heads E, which correspond in shape with and are suitably fitted in the piston-boxes D. The piston-boxes are pivoted at F and oscillate in conformity with the motion of the piston-heads, which they embrace. The piston-head and corresponding piston-box—one or both of them—is or are covered or lined with emery or sand cloth, or provided in any desirable manner with roughened, corrugated, or irregular surfaces. All the parts are pivoted in and supported by the standard I I I, which is slotted at one end to embrace the wheels A and J, and at the other end is provided with the handle G.

There is also shown in the drawings a whistle, N, placed in such a position as to be conveniently blown by the person using the toy. This whistle may be connected with a bellows for blowing the same automatically, which bellows

may be worked by being suitably connected by any well-known contrivances with either of the operating parts of the toy.

The piston-boxes, instead of being made to oscillate, may be made stationary on the bar I by connecting the piston-bar to the piston-head by means of a hinge. There are, however, evident advantages in constructing these parts as illustrated, and I prefer to make them that way.

The lever-arms C are preferably arranged to point in opposite directions, so as to give an alternating action to the piston-heads.

The mode of operation embodied in this toy is the following: The wheel A, resting on the ground, is revolved by friction when the toy is pushed or drawn along. By means of the strap K this motion is communicated to the wheel J, the lever-arms C, the piston-rods H, and the friction-heads E. The friction thus caused between the emery-paper, with which the piston-heads are covered and the piston-boxes lined, produces a noise which very cleverly imitates the puffing of a high-pressure steam-engine.

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

1. In a toy, the method hereinbefore substantially described of imitating the noise of an engine, which method consists of causing friction between two or more suitably-roughened surfaces by means of reciprocating arms operated substantially as described.

2. A toy consisting of the following parts, in combination: the wheel A, wheel J, lever-arms C C, piston-arms H H, piston-heads E E, and piston-boxes D D, operated, supported, and combined substantially as set forth, for the purpose specified.

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Witnesses:

GEO. C. COFFIN,
WM. S. CARMAN.