(No Model.)

E. R. IVES.

TOY.

No. 324,260. Patented Aug. 11, 1885.

Fig. 1.

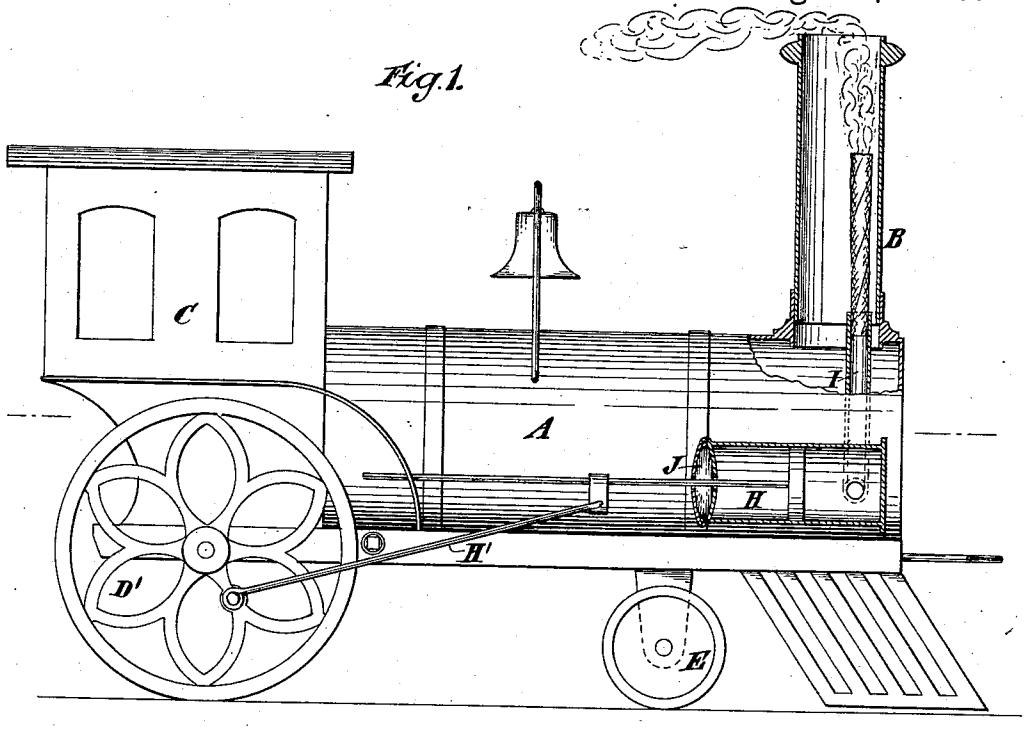
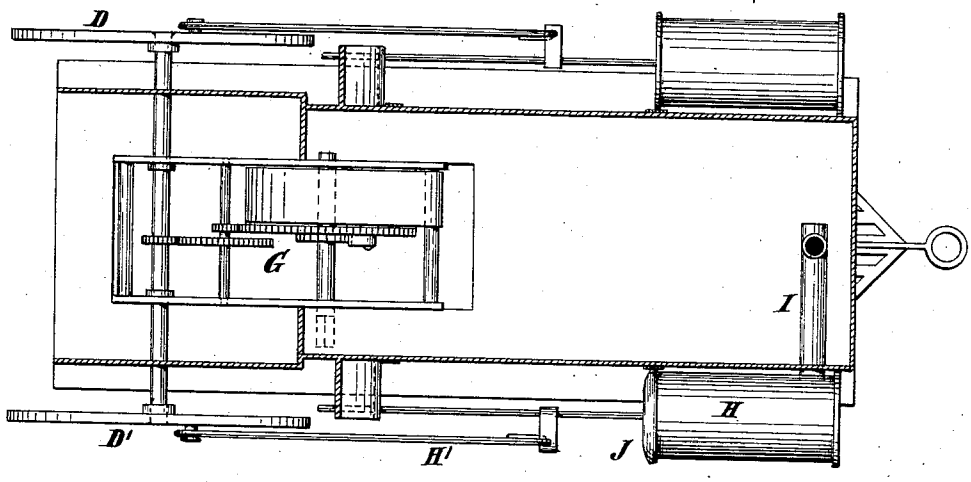


Fig. 2.



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UNITED STATES PATENT OFFICE.

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TOY.

SPECIFICATION forming part of Letters Patent No. 324,260, dated August 11, 1885.

Application filed February 24, 1885. (No model.)

To all whom it may concern:

Be it known that I, EDWARD R. IVES, of Bridgeport, in the county of Fairfield and State of Connecticut, have invented a certain new and useful Improvement in Toys, of which the following is a specification.

My improvement relates to toy locomotives, and is designed to enable them to emit puffs of smoke as they travel.

My improvement consists in the combination, in a toy locomotive, of traveling mechanism, an air-pump operated by the traveling mechanism, and a holder for a cigarette or like article, with which the air-pump communicates.

The improvement also consists in the combination, in a toy locomotive, of an air-pump, a holder for a cigarette or like article, with which the air-pump communicates, and a smoke-stack for receiving and emitting smoke discharged through the action of the air-pump.

In the accompanying drawings, Figure 1 is a partly-sectional side view of a toy locomotive embodying my improvement, and Fig. 2 is a horizontal section of the same.

Similar letters of reference designate corresponding parts in both figures.

A designates the body of the locomotive. At one end a smoke-stack, B, rises from it. A cab, C, is arranged at the other end.

The traveling mechanism of the locomotive consists of wheels D D′ E, arranged upon axles passing through bearings connected to the locomotive-body. The forward wheels, E, are smaller than the wheels D D′, and their axle is received in bearings in a frame, F, which has a swiveling connection with the body of the locomotive. The wheels D D′ represent the driving-wheels of the locomotive. In the present example of the improvement the wheel D′ is affixed to the axle upon which it and its fellow D are arranged, and this axle is rotated by a spring and train of wheels G. The spring and train of wheels G form part of the traveling mechanism. If, however, the spring and train of wheels G were omitted and the locomotive were intended to be drawn along by a cord, then the wheels D D′ E alone would constitute the traveling mechanism.

H designates an air-pump. It consists of a cylinder and a piston working therein. The cylinder is arranged in the position ordinarily occupied by the cylinder of a locomotive. A link, H′, connects the piston-rod of the pump with the wheel D′, that is affixed to the axle upon which it is arranged; hence when the locomotive travels along the piston is operated by the said wheel D′.

From the outlet of the pump a tube, I, extends. Its end is extended upward, and made of a suitable size to hold a cigarette or like article. At each pulsation produced by the pump a current of air will be set in motion in such manner as to cause puffs of smoke to be given off. The end of the tube I extends into the smoke-stack B, and the puffs of smoke then escape from the smoke-stack.

A whistle, J, may be combined with the air-pump H, so as to be operated if it is desirable.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. In a toy locomotive, the combination of traveling mechanism, an air-pump operated by the traveling mechanism, and a holder for a cigarette or like article with which the air-pump communicates, substantially as specified.

2. In a toy locomotive, the combination of an air-pump, a holder for a cigarette or like article with which the air-pump communicates, and a smoke-stack for receiving and emitting smoke, substantially as specified.

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