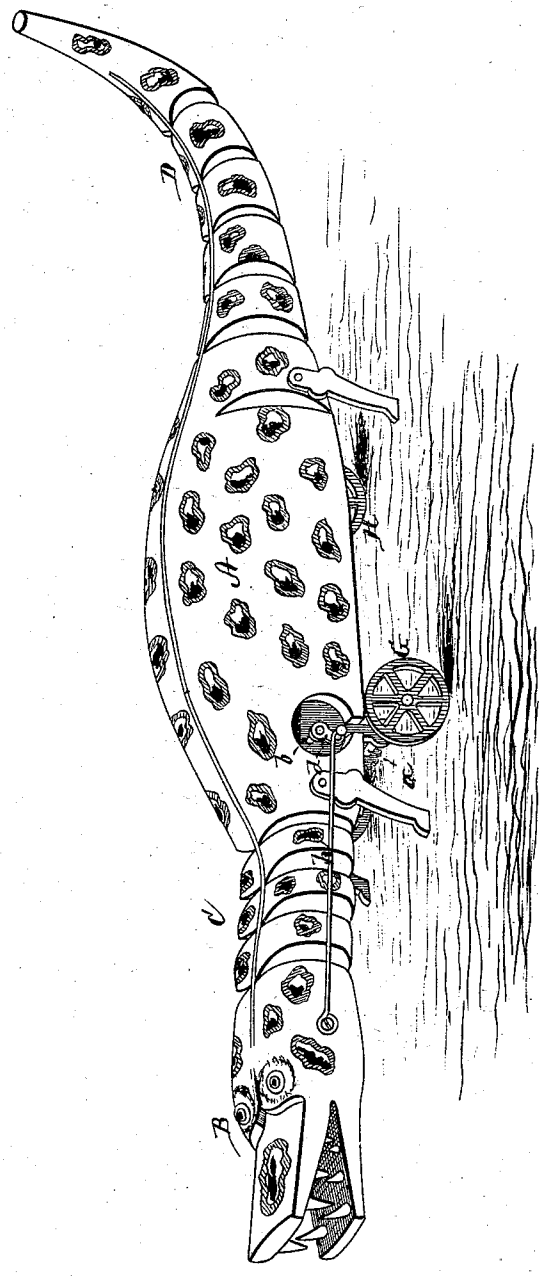
E. R. IVES & J. W. PILKINGTON.

AUTOMATIC TOY.

No. 169,547. Patented Nov. 2, 1875.



WITNESSES

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EDWARD R. IVES AND JOSEPH W. PILKINGTON, OF BRIDGEPORT, CONN.

IMPROVEMENT IN AUTOMATIC TOYS.

Specification forming part of Letters Patent No. **169,547**, dated November 2, 1875; application filed May 6, 1875.

To all whom it may concern:

Be it known that we, EDWARD R. IVES and JOSEPH W. PILKINGTON, of Bridgeport, in the county of Fairfield and in the State of Connecticut, have invented certain new and useful Improvements in Mechanical Toys; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked thereon, making a part of this specification.

Our invention relates to the class of toy animals which are formed with a series of flexible joints; and the nature of our invention consists in the combination, with a jointed toy animal, of a clock-work for propelling the same and one or more cranks, with pitmen connecting the clock-work with the jointed parts of the animal for vibrating the same, all as hereinafter more fully set forth.

In order to enable others skilled in the art to which our invention appertains to make and use the same, we will now proceed to describe its construction and operation, referring to the annexed drawing, which represents a perspective view of an alligator embodying our invention.

A represents the body of a toy alligator; B, the head; C, the neck, and D the tail. The neck C and tail D are provided each with a series of flexible joints, *a a*, as shown, in the usual manner for such toys. Within the body A of the animal is arranged a clock-work, operating an axle, *a*, on which the driving-wheels G G are secured. These wheels are located under the front part of the body A, and the rear part is supported on a single wheel, H, mounted on a stud on a pivoted standard, so that said wheel may be set at any angle desired, and thereby guide the animal either in a straight line or in a circle of any desired size. On one end of a shaft, *b*, in the clock-work is a crank, *d*, from which a rod or pitman, *h*, connects with the head B.

When the clock-work is wound up, and the toy placed on a level place, it will move, and at the same time the jointed parts will vibrate from side to side.

It is, of course, evident that more than one crank and pitman may be used to connect the operating clock-work with the jointed parts of the toy animal. In some cases the crank and pitman may be entirely dispensed with, and the jointed parts of the toy be vibrated simply by the movement of the toy.

By the adjustment of the wheel H the toy may be guided as desired.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

The combination, in a mechanical toy, of a body mounted on wheels, and containing a clock mechanism, a sectional flexible tail, and a sectional flexible head or neck, connecting with the clock mechanism by a pitman, all substantially as set forth.

In testimony that we claim the foregoing we have hereunto set our hands this 26th day of April, 1875.

EDWARD R. IVES.
J. W. PILKINGTON.

Witnesses:
C. L. EVERT,
F. W. SMITH.