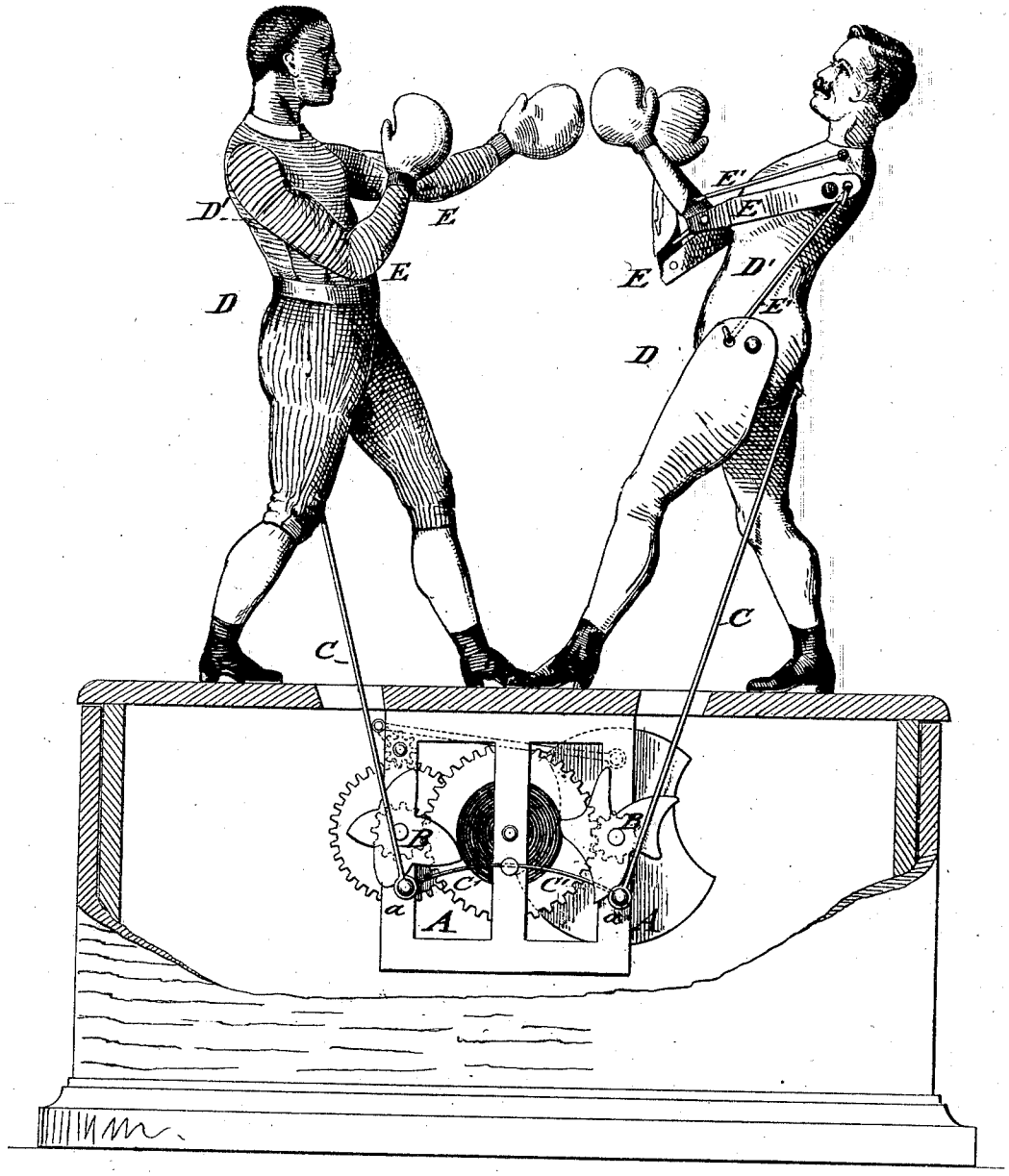
W. MAGUIRE & J. GALLOT.

AUTOMATIC TOY.

No. 185,768. Patented Dec. 26, 1876.



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UNITED STATES PATENT OFFICE

WILLIAM MAGUIRE, OF JERSEY CITY, NEW JERSEY, AND JULIUS GALLOT, OF NEW YORK, N. Y.

IMPROVEMENT IN AUTOMATIC TOYS.

Specification forming part of Letters Patent No. **185,768**, dated December 26, 1876; application filed September 30, 1876.

To all whom it may concern:

Be it known that we, WILLIAM MAGUIRE, of Jersey City, in the county of Hudson and State of New Jersey, and JULIUS GALLOT, of the city, county, and State of New York, have invented a new and useful Improvement in Automatic Toy-Boxers, of which the following is a specification:

The accompanying drawing represents a sectional side elevation of our improved automatic toy-boxers.

Our invention relates to an improved automatic toy, that represents two boxers, or other figures, in the act of boxing or fighting; and it consists of two figures, with movable bodies and arms, operated by connecting-rods, the bodies being made to oscillate more or less on the fixed legs by spring-acted main rods, that are actuated by a clock-train, with irregularly-spurred cam-wheels.

In the drawing, A represents a clock-train, which is arranged at the inside of an inclosing-box, on which the automatic toy figures are supported in the manner customary in automatic toys.

To the revolving arbors or spindles of the clock-train A are applied cam-wheels B, which are made of irregular shape, having spurs and recesses of varying size, according to the motions to be given to the toy figures.

The cams B are preferably not made equal in shape to each other, but with a different number and shape of teeth, so as to produce a corresponding variety of motion in the figures.

The peculiar shape of the spurred cam-wheels is clearly shown in the drawing, and adapted to the motions of the figures.

The cams B actuate the connecting-main or supporting-rods C, which pass, by means of pins or friction-rollers *a*, at the lower ends along the cams, the pins or friction-rollers being kept in contact with the cams by springs C′, that are secured to a fixed point of support and to the pin ends of the lever-rods C.

The upper ends of the rods C are jointed to the bodies D′ of toy figures D, which represent either boxers, roosters, musicians, or any other desired figures.

The bodies D′ are pivoted to the supporting-legs, that are applied rigidly to the box, which is provided with slots for the passage of the connecting lever-rods C.

The swinging motion of the body D′, imparted by the action of the lever-rod, serves to give motion to the jointed arms E by means of pivot-rods E′, of which one set is applied to the legs eccentrically, to the pivots of the body at one end, and back of the pivots of the arms at the upper end, while the second set of pivot-rods is applied to the upper part of the body and to the fore-arms in front of the elbow-joints.

The peculiar motions of boxers and other figures may thus be imitated in a highly-amusing manner by the shape of the cam-wheels and the length and disposition of the pivot-rods, which are actuated by the oscillating bodies, the whole forming thereby an automatic toy of grotesquely comical and entertaining effect.

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

An automatic toy, consisting of clock-train A, cam-wheels B, rods C, rolls pressed by springs C′, bodies D′ pivoted between rigid legs, jointed rods E, and pivot-rods E′, all constructed and arranged substantially as shown and described.

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Witnesses:
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