(No Model.)

F. G. KOLLENBERG.

TOY LUNG TESTER.

No. 590,229. Patented Sept. 21, 1897.

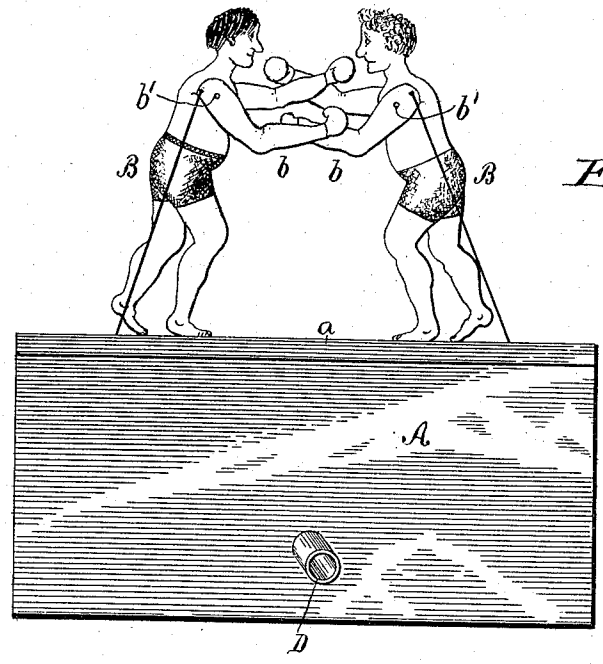


Fig. 1.

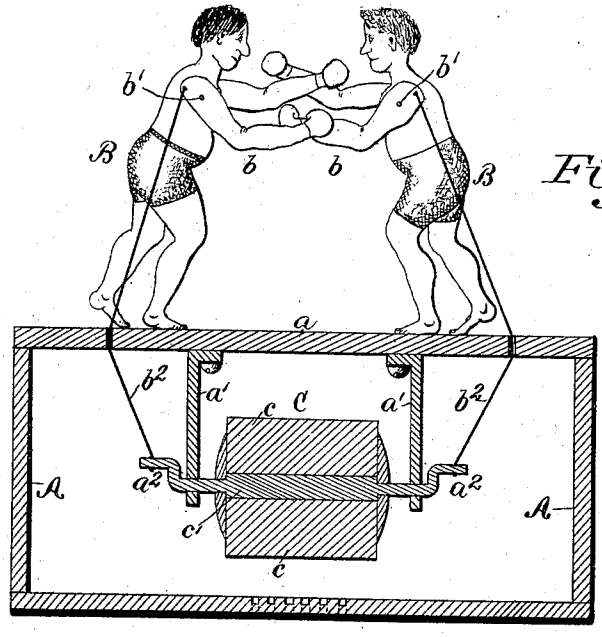


Fig. 2.

WITNESSES

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UNITED STATES PATENT OFFICE.

FREDERICK G. KOLLENBERG, OF OWENSBOROUGH, KENTUCKY, ASSIGNOR OF ONE-HALF TO JAMES J. SWEENEY, OF SAME PLACE.

TOY LUNG-TESTER.

SPECIFICATION forming part of Letters Patent No. 590,229, dated September 21, 1897.

Application filed November 24, 1896. Serial No. 613,320. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK G. KOLLENBERG, a citizen of the United States, residing at Owensborough, in the county of Daviess and State of Kentucky, have invented certain new and useful Improvements in Toy Lung-Testers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in mechanical toys, and has more particular relation to lung-exercisers.

The invention consists of certain novel constructions, combinations, and arrangements of parts, all of which will be hereinafter more fully described and claimed.

In the accompanying drawings, forming a part of this specification, Figure 1 represents a side elevation of a device embodying my invention, and Fig. 2 represents a central vertical section through the same.

A in the drawings represents the casing; B B, the jointed figures mounted upon the same; C, the wind-wheel, and D the mouthpiece or pipe. Said casing A may be of any desired construction and is provided with a removable cover *a*. Two arms *a'* are pendent from said cover and are adapted to support the wind-wheel C. This wheel comprises a plurality of blades *c*, mounted upon a central axle *c'*. This axle is journaled in the lower ends of said arms *a'* and is provided at each end with a crank-arm a^2. The figures B B, I preferably construct to represent two prize-fighters mounted in proximity to and facing each other upon the cover *a*. The arms *b b* of said figures are pivoted, as at *b'*, to the body portions and extend slightly to the rear of said body portions. Cords or rods b^2 connect said rearwardly-extending portions of the arms to the cranks a^2, and thus when the said shaft *c'* is rotated by the action of the wheel the said rods or cords b^2 are operated and cause the arms of the figures to be raised and lowered rapidly in a manner very similar to the actions of prize-fighters. The mouthpiece D, which is preferably a section of rubber pipe, enters the casing A directly in front of the wheel C, so that when said mouthpiece is blown into the current of air entering the casing A will strike the wheel C below its axle, and thus cause its rotation, with a consequential movement of the figures.

I do not care to limit myself to a flexible pipe for forcing air into the casing, as any suitable mouthpiece may be employed, or a small bellows might be used with equal facility.

At the same time that this toy is amusing it accomplishes the additional purpose of testing the lungs of the child that uses it, and thus tends to strengthen the same by the greater activity caused in them by use of the toy.

I also do not care to limit myself to the representation of prize-fighters on the top of the casing A, as any movable figure may be so mounted and operated by its connection with the wind-wheel.

In order to allow the escape of the air from the casing, the bottom of the same is perforated below and slightly to the rear of the wheel C, so that the current of air passing through the casing will be forced to take such a course that it will exactly strike the part of the wheel C below its axle.

It will be observed from the foregoing description that the air is compressed within the casing, and the person operating the toy must therefore exert a corresponding pressure with his lungs in order to cause the wind-wheel to rotate.

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

In a lung-exerciser, the combination with a closed casing having air-outlet perforations, of a mouthpiece for blowing air into said casing, a cover for said casing, pendent spaced brackets mounted on said cover, a shaft journaled in said brackets and having crank-bends at each end, a wind-wheel mounted on said shaft and adapted to be operated by the currents of air passing into the casing through

the mouthpiece, a plurality of jointed figures mounted upon the top of the cover, and flexible cords connecting the respective crank-bends with the moving portions of said figures, whereby they are operated simultaneously upon the movement of the wind-wheel, substantially as described.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

FREDERICK G. KOLLENBERG.

Witnesses:

G. ELLIS OWEN,

EDWIN DYMOND AXTON.