

No. 771,649.

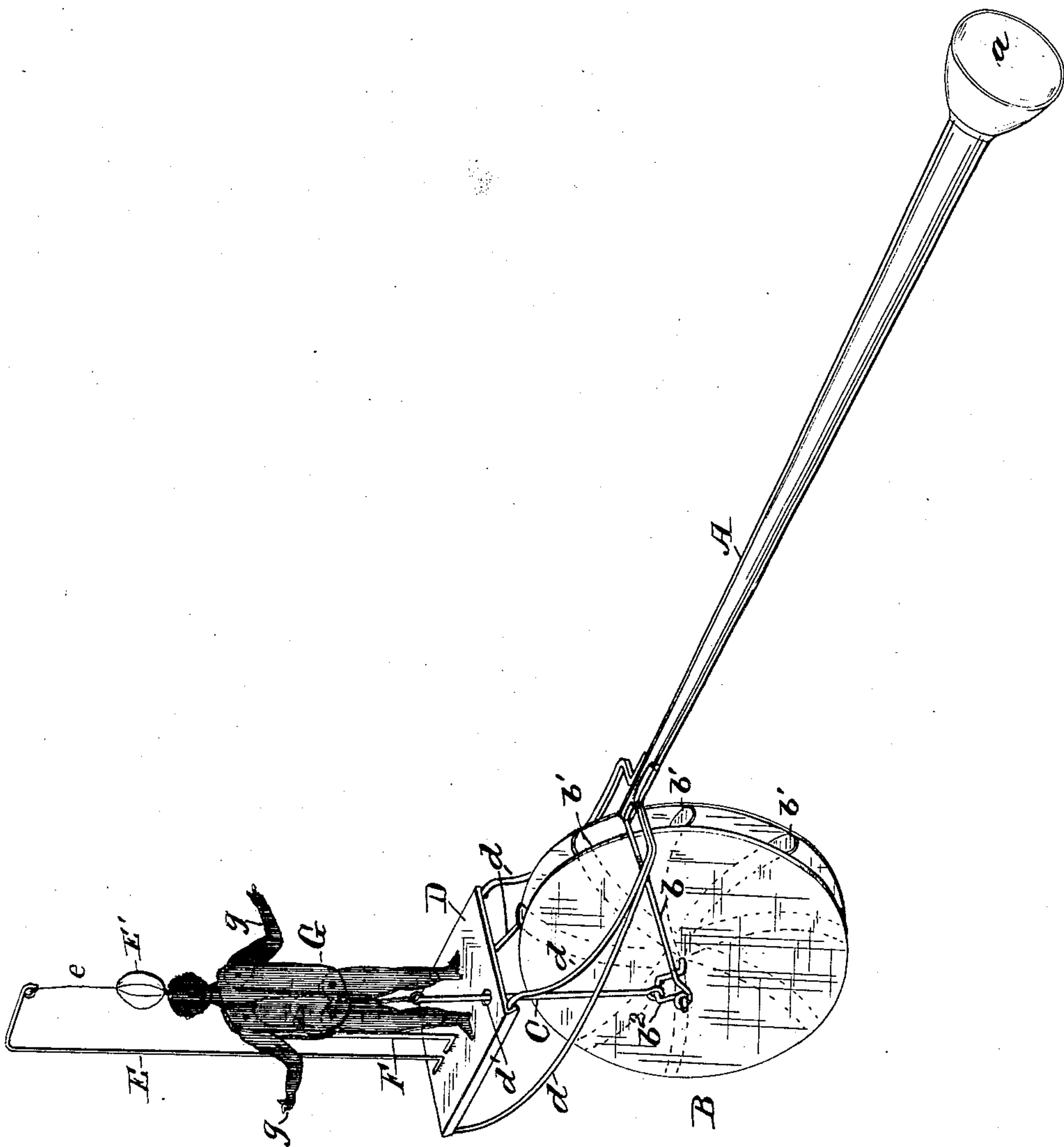
PATENTED OCT. 4, 1904.

E. LANE.

TOY.

APPLICATION FILED MAR. 19, 1904.

NO MODEL.



Inventor

Edwin Lane,

By

Eugene W. Johnson, Attorney

Witnesses

C. E. Hebb

James W. Berans

# UNITED STATES PATENT OFFICE.

EDWIN LANE, OF JOHNSTOWN, PENNSYLVANIA.

## TOY.

SPECIFICATION forming part of Letters Patent No. 771,649, dated October 4, 1904.

Application filed March 19, 1904. Serial No. 198,956. (No model.)

*To all whom it may concern:*

Be it known that I, EDWIN LANE, a citizen of the United States, residing at Johnstown, in the county of Cambria and State of Pennsylvania, have invented certain new and useful Improvements in Toys; 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 appertains to an improved toy, the same comprising a figure having movable members or arms, a ball or "punching-bag," which is supported above the figure and is adapted to lightly contact with the highest part of the same, a wheel located below the figure and connected to the movable members thereof to actuate said members when the wheel is rotated, and a blowpipe for rotating the wheel, the parts being assembled in such a manner that when a rapid movement is given to the wheel the arms of the figure may strike the punching-bag.

In operation it is necessary to hold the toy in such a manner that the punching-bag will be over the head of the figure, and by blowing through the pipe with considerable force the wheel is turned rapidly and the arms are by such movement carried beyond their normal range of movement and will at times strike the punching-bag. In practice the arms of the figure, by reason of momentum imparted thereto, swing beyond the arc in which they move when the wheel is rotated at a low rate of speed to engage the ball when in the path of the arms, and such arrangement provides a toy in which the striking of the bag depends upon the position of the ball and the speed of the actuating-wheel.

The accompanying drawing is a perspective view of a toy made in accord with my invention.

In carrying out my invention I provide a blowpipe A, having a mouth-piece or bell *a* at the end farthest from the ventage or discharge end of the tube. Near the discharge end of the pipe A there are secured wheel-supporting bars *b b*, said bars extending downward and outward, the ends being formed into eyes to provide bearings for the journals of a

wheel B. The wheel B is made up of similar side plates or disks, between which are maintained curved blades or wings *b' b'*, the outer ends of the blades extending slightly beyond the peripheries of the side plates. The journal of the wheel has a crank *b<sup>2</sup>*, which is engaged by the connecting-rod C. It will be noted that the wheel is maintained so that a blast of air from the blowpipe impinges upon the curved portions of the blades between the side plates and turns the wheel at a speed commensurate to the blast.

D refers to a platform connected to the pipe by curved rods *d d* and held so that the front edge will be slightly to the rear of the axis of the wheel when the platform is horizontal. The platform has an opening *d'* for the passage of the connecting-rod C and in line with such opening supports E and F. The rear support E is preferably a thin piece of tempered wire, the forward projecting upper end having attached to the eye a flexible connection *e* for sustaining a ball or punching-bag *E'*, made of pith, cork, or similar light material. The upright F supports a figure or effigy G, the upper end of the bar F being attached to that portion thereof which represents the body of the figure. The figure G has movable members representing arms and legs, the head being at such a height from the platform that the punching-bag may slightly engage therewith when the toy is held so that the platform is substantially horizontal. The movable members of the figure, particularly the arms *g g*, are connected by strings to the upper end of the connecting-rod C, and when the wheel is rotated at an ordinary rate of speed the arms will raise and lower with the movement of the connecting-rod. The outer ends of the arms may be weighted to assist in bringing them to a lowered position when the flexible connections are slack. The arms *g g* are susceptible of a movement which will bring the ends thereof above the head of the figure, when a rapid movement is given to the wheel by a blast of air of more than the usual force, and when the punching-bag is in the path of the ends of the arms it may be struck thereby.

In a toy organized as set forth the same



will have to be held steady, so that the ball will be in the path of the arms, and the wheel has to be rotated at a speed sufficient to give to the arms a motion which will lift them  
5 above the position to which they are moved positively by the cords attached to the connecting-rods.

I am aware that prior to my invention a jointed figure has been operated by a wheel  
10 attached to the end of a whistle, and I do not claim such as my invention; but

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

The combination in a toy of the character  
15 shown, a blowpipe, a platform and a wheel both attached to the blowpipe, a figure maintained above the platform and provided with

movable members which are connected to a rod actuated by the wheel, a support which projects upward from the platform and forward to terminate immediately above the figure, a punching-bag suspended from the forward end of the support and adapted to be struck by the movable members of the figure when the wheel is actuated at a speed beyond  
20 normal and the toy is held to position the punching-bag over the figure, substantially as set forth.

In testimony whereof I affix my signature in the presence of two witnesses.

EDWIN LANE

Witnesses:

E. J. GOGGIN,

HARVEY J. HENSELL.