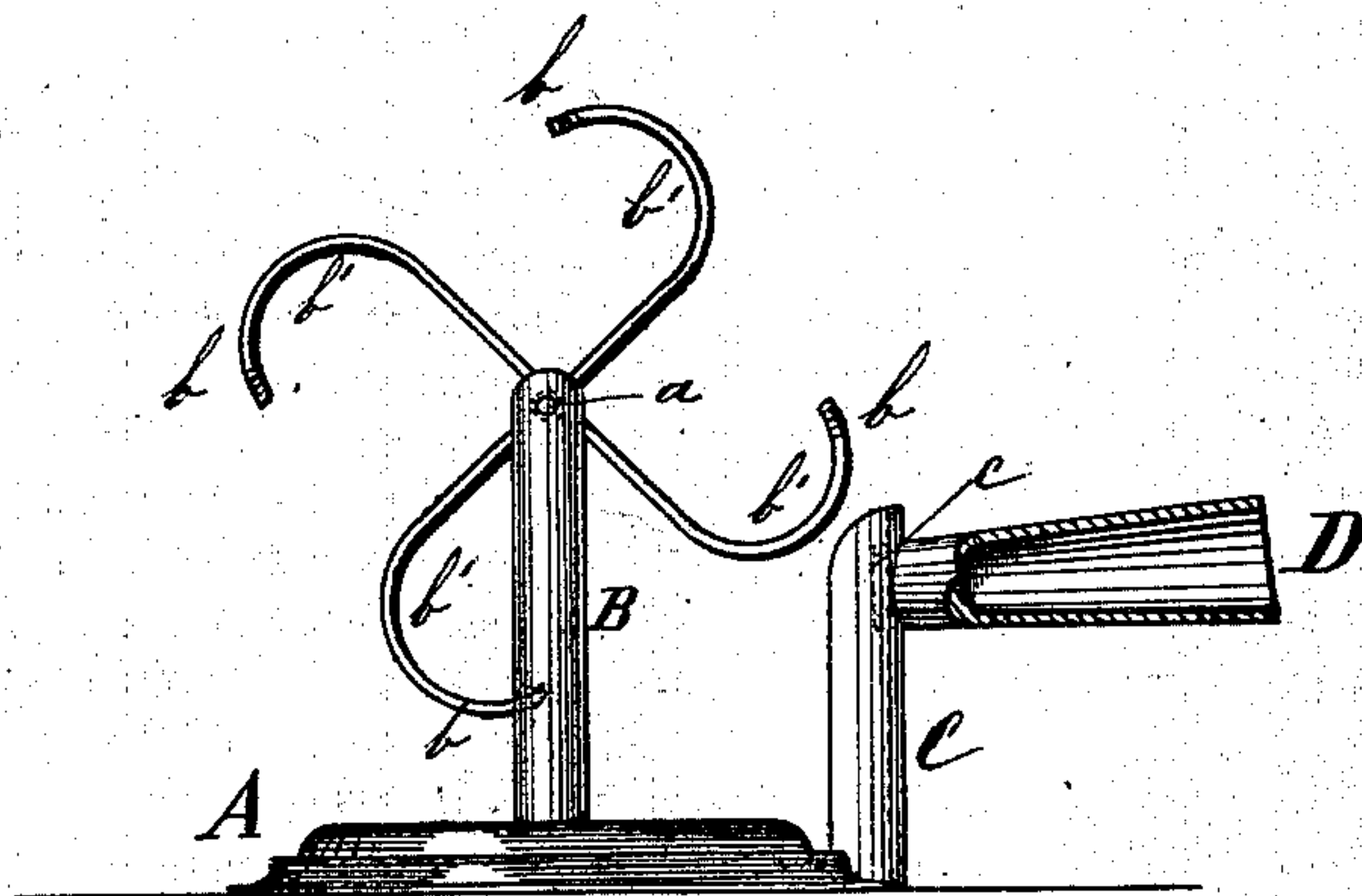


J. HAGSTROM.
Toy Wind-Wheels.

No. 146,334.

Patented Jan. 13, 1874.



Attest;
Edw. W. Dunn
Rich^d. K. Evans

Inventor;
John Hagström,
by Louis Bagge & Co.
Attorneys.

UNITED STATES PATENT OFFICE.

JOHN HAGSTROM, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN TOY WIND-WHEELS.

Specification forming part of Letters Patent No. **146,334**, dated January 13, 1874; application filed August 7, 1873.

To all whom it may concern:

Be it known that I, JOHN HAGSTROM, of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Babies' Windmills; 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 pertains to make and use it, reference being had to the accompanying drawings which form part of this specification.

My invention relates to certain improvements in a toy, which I prefer to call a baby's windmill. By curving the blades or wings of the mill in a peculiar manner, I obtain the full benefit of the breath of the child in operating the toy, which is, therefore, operated with less exertion of the lungs, and will revolve quicker and for a longer period than similar toys, as ordinarily constructed.

By reference to the drawing forming part of this specification, it will be seen that A is the base or foot of the toy. B are two uprights or standards placed opposite to each other, so that only one is shown in the drawing, which presents a side view. *b b b b* are the wings or blades attached to an axle or journal, which has its bearing in the two uprights, as shown at *a*. C is another standard or upright attached to the base and provided with an opening, *c*, at the top, through which projects the

small end of the blow tube or funnel D. The blades *b b b b* are widest at the point of their curvature *b' b' b' b'*, the distance between the two standards B being sufficient to admit of the passage between them of the wide portion of the blades when the mill revolves. The height of the standards B is also so arranged, with reference to the height of the mouth of the blow-tube, that a current of air forced through this will strike the blades *b* in the widest part, or at about the middle of the curvature at the points indicated by *b'*.

By this arrangement, the mill is set in motion by a very feeble current of air passing through the blow-tube D, it requiring almost no exertion to cause the mill to revolve, and keep it rotating for quite a long time.

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

As a new article of manufacture, the toy herein described, consisting of the base A, uprights B, standard C, blow-tube D, and curved blades *b*, arranged substantially as herein shown and described.

In testimony that I claim the foregoing I have hereunto set my hand.

JOHN HAGSTROM.

Witnesses:

J. W. ARCTANDER,
WILLM. HAARLOW.