(No Model.)

J. SCHOFIELD.

TOY.

No. 396,295. Patented Jan. 15, 1889.

Fig. 1.

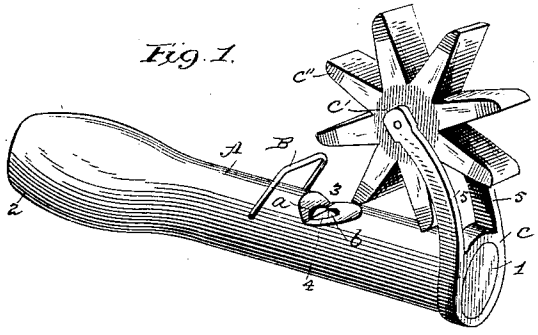
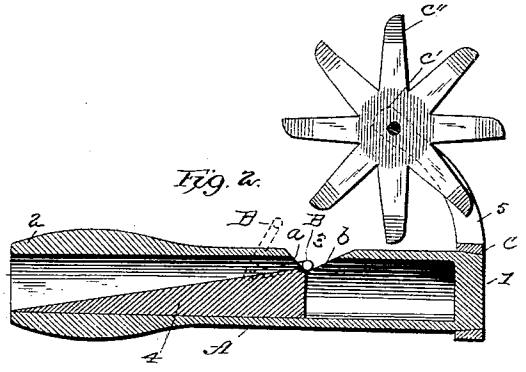


Fig. 2.



Attest:
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UNITED STATES PATENT OFFICE.

JOHN SCHOFIELD, OF NEW HAVEN, CONNECTICUT.

TOY.

SPECIFICATION forming part of Letters Patent No. 396,295, dated January 15, 1889.

Application filed April 20, 1888. Serial No. 271,272. (No model.)

To all whom it may concern:

Be it known that I, JOHN SCHOFIELD, a citizen of the United States of America, residing at New Haven, in the county of New Haven and State of Connecticut, have invented certain new and useful Improvements in Toys, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention is an improved toy in which a whistle and wind-wheel or similar device are combined, the latter being operated to turn by the current of air, which causes the sounding of the whistle.

The object of my invention is to enable the person using the toy to control the whistle, sounding it or preventing the sounding thereof at will while still blowing and maintaining the current of air through the device to turn the wind-wheel or other device.

My invention therefore consists of a tubular supporting-piece containing the whistle and supporting the wind-wheel and a movable deflector, by which the current of air blown through the tube may be rendered ineffective on the whistle, while at the same time allowing the force of the current to act freely upon the wind-wheel.

In the accompanying drawings, Figure 1 is a perspective view of the toy, the deflector or whistle cut-off being out of action and the device being ready to be used both to turn the wheel and sound the whistle by blowing therethrough. Fig. 2 is a sectional view taken longitudinally of the device, the deflector being shown in full lines in place to prevent the whistle sounding.

In the drawings, A represents a hollow support closed at the end 1 and enlarged at the end 2 into a mouth-piece. To form the whistle, the shell of this piece A is cut away at 3, producing an angular notch and an opening to the interior of the support. The internal diameter of the support *a* is the same throughout, and into the open end is inserted a long beveled block, 4, which is rounded to fit the bore of the support. Where this is fixed in position the larger end extends across the opening formed by the notch 3 and at a point just at the bottom of said notch. This leaves a blast-opening at *a* and a larger opening at *b*, this latter being the opening of the sounding-chamber, and when the user blows through the mouth-piece the current of air issuing through the blast-opening and across the opening *b* of the sounding-chamber causes the sounding of the whistle.

The forward end of the hollow piece A supports the metal ring *c* and standards 5 5. These latter preferably extend rearwardly and upwardly and support the wind-wheel *c*, which, as shown, may be composed of a central portion, *c'*, and arms *c''*, preferably of wood, decorated by any colored design to suit the fancy. The diameter of the wheel is such that its arms just clear the surface of the tubular piece *c*, and by reason of the standards inclining rearwardly the arms of the wheel are brought into direct line with the current of air as it issues from the whistle, and hence when the user blows through the tube the wheel will be set in rapid motion.

In order to allow the user to operate the wheel without producing the whistle, which at times might be objectionable and undesirable, I employ in connection with the whistle a deflector, which, while acting to prevent the current of air from sounding the whistle, will not prevent the same from causing the operation of the wheel. This is shown at B, and consists of a movable wire loop pivoted to the sides of the tube A and arranged so that when in effective position or down it will lie in the notch between the blast-opening *a* and the opening *b* of the sounding-chamber, or just at the edge of the latter, so that as the current of air issues from the crevice it will be prevented from producing the whistle-sound at the opening by reason of said current being deflected above the opening by the loop extending across it. This loop, however, does not prevent the current from striking the wheel and turning the same as effectively as before. When the loop is raised slightly so that the whole or part of the current passes beneath it, the whistle will be sounded. By varying the movement of the loop the sound produced may also be varied.

I do not limit myself to the precise form of movable deflector shown, as this may be varied

and still be within the fundamental principle of my invention, and it will be understood that any movable figure may be substituted for the wind-wheel to be operated by the current of air.

I claim as my invention—

1. In combination, the tubular support A, formed into a whistle, the movable device, as the wind-wheel, and a movable deflector for preventing the sounding of the whistle without cutting off the current of air to the wind-wheel, substantially as described.

2. In combination, the tubular support A, having a notch formed therein, the beveled block inserted within said tubular support, with its larger end at the notch, the movable device, as the wind-wheel, and the movable deflector for preventing the sounding of the whistle without cutting off the current of air to the wind-wheel, substantially as described.

3. In combination, the tubular piece A, having the whistle formed therein, movable device supported thereby, and the deflector pivoted to the piece A, for preventing the sounding of the whistle without cutting off the current of air to the wind-wheel, substantially as described.

4. In combination, the tube having the opening 3 formed therethrough, a whistle-block arranged with its edge extending across said opening, and thus providing a blast-opening, *a*, for the escape of the air, and an opening, *b*, of the sounding-chamber, and a freely-movable deflector to be operated by hand and to lie between the air-blast opening *a* and the opening *b*, substantially as described.

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

JOHN SCHOFIELD.

Witnesses:

CHARLES L. ULLMAN,

WM. E. JACKSON.