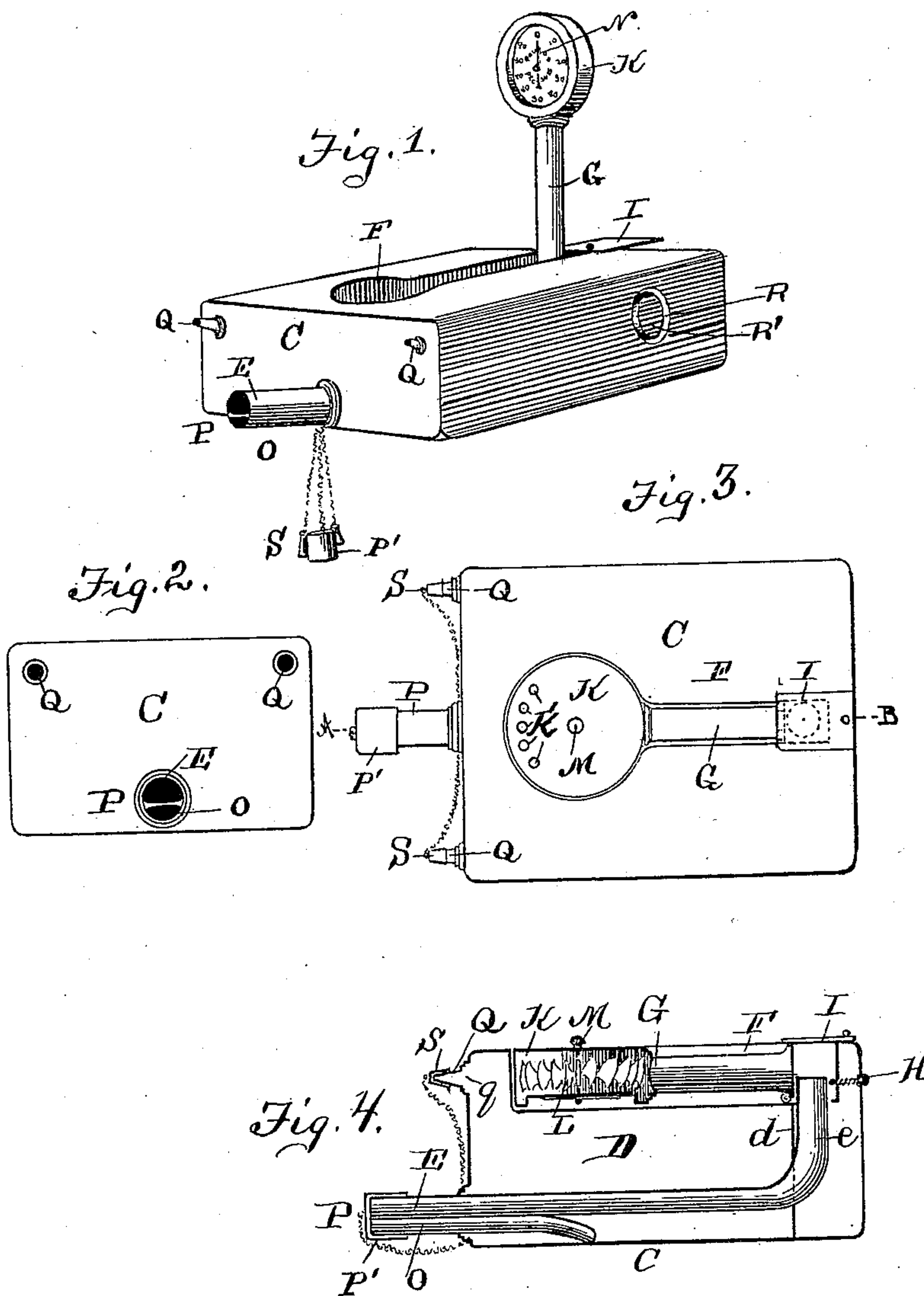


(No Model.)

D. C. BRENNAN & F. WEBBER.
TOY.

No. 471,232.

Patented Mar. 22, 1892.



WITNESSES:

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UNITED STATES PATENT OFFICE.

DOMINICK C. BRENNAN, OF PHILADELPHIA, AND FREDERICK WEBBER, OF
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TOY.

SPECIFICATION forming part of Letters Patent No. 471,232, dated March 22, 1892.

Application filed June 22, 1891. Serial No. 397,057. (No model.)

To all whom it may concern:

Be it known that we, DOMINICK C. BRENNAN, a citizen of the United States, residing at Philadelphia, in the State of Pennsylvania, and FREDERICK WEBBER, a subject of the Queen of England, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented a Toy; and we hereby declare that the following is a full, clear, and exact description of the invention, which is fully described hereinafter in connection with the accompanying drawings, which form a part of this specification.

Our invention relates to a toy lung-tester; and it consists in a certain novel construction and combination of parts, which will be more fully described in connection with the drawings, wherein—

Figure 1 is a perspective view of our invention. Fig. 2 is a front end view of the same. Fig. 3 is a plan view showing the adjustable arm in its folded position. Fig. 4 is a central sectional view on the line A B of Fig. 3.

The body of the toy consists of a box C, provided at an intermediate point with a vertical partition *d*, which separates the chamber D from the rear portion of the box.

E represents an air-tube, which projects at its front end through a suitable opening in the front of the box and extends horizontally through the chamber D, its rear end being upturned in rear of the partition *d*, as shown at *e*. A recess F is formed in the upper side of the box for the reception when folded of the tubular arm G, which is hinged at one end adjacent to the rear extremity of the air-tube, which terminates within the recess F. The hinged end of the tubular arm is flared slightly to fit over the adjacent extremity of the air-tube. A spring-catch H is provided to engage the flared end of the tubular arm when the latter is in its vertical or operative position, as shown in Fig. 1. A pivoted cover I is provided to close over the rear end of the recess when the tubular arm is folded to exclude dust from the air-tube. The free end of the tubular arm terminates in a circular reservoir K, containing a rotary fan L, which is mounted upon a central spindle M, which projects through the face of the reservoir and

carries a pointer N. The face of the reservoir is provided with a dial, over which the pointer moves as the fan rotates.

O is a supplementary or "trick" tube located beneath the air-tube and in contact therewith, with its rear end terminating in the chamber D. The front or projecting ends of the tubes E O are flattened on their adjacent sides, as shown, to form a mouth-piece P, having a tubular exterior.

The front of the box above the plane of the mouth-piece is provided with perforations *q*, covered by the conical discharge-tubes Q Q, which thus communicate with the interior chamber D.

An opening R is formed in the side of the box to enable the latter to be filled with powder and is provided with a stopper R', and adjustable caps S S are connected by means of light chains to the box and are adapted to be fitted on the ends of the discharge-tubes, as shown in Figs. 3 and 4, a similar cap P' being provided for the mouth-piece.

This toy is of a size to be carried in the pocket and is operated as follows: By blowing into the air-tube, the supplementary tube being at the same time covered and closed by the tongue of the operator, the fan will be rotated, and the pointer will indicate the amount of rotation. If, however, the operator, through inexperience, fails to close the supplementary tube before blowing, air will be forced into the chamber D and will expel therefrom, to the surprise of the uninitiated, the charcoal or other powder which has been previously placed in the chamber. The charcoal will be expelled through the discharge-tubes, which are provided, preferably, with very small openings. The perforations K' in the rear side of the reservoir or fan-casing are provided to permit of the escape of the air which is forced through the air-tube.

Having thus described our invention, what we claim, and desire to secure by Letters Patent of the United States, is—

1. The combination, with a box having a chamber D, provided with discharge-perforations, and a tubular arm carrying a dial mechanism, of two air-tubes adjacent to each other at their outer ends and communicating at their

rear ends respectively with the chamber D and the tubular arm, substantially as specified.

2. The combination, with a box having discharge-perforations in its front side, of an air-tube, a folding tubular arm adapted to connect with the rear end of the air-tube and carrying a dial mechanism, and an additional tube communicating with the interior of the box and adjacent at its outer end to said air-tube, substantially as specified.

3. The combination, with a box having perforations in its front side, of the tubes E and O, united at their outer ends to form a mouth-piece, and a folding tubular arm to connect with the rear end of the tube E and carrying a dial mechanism, substantially as specified.

4. The combination, with a box having a chamber D and provided in its upper side with a recess F, of a folding tubular arm adapted to fit in said recess and carrying a dial mechanism, and tubes E and O, united at their front ends to form a mouth-piece and

communicating at their rear ends respectively with the tubular arm and the chamber D, substantially as specified.

5. The herein-described toy, consisting of a box C, containing a chamber D, which is provided at its front side with discharge-tubes, the tubes E and O, united at their front ends to form a mouth-piece, the tubular arm hinged at one end adjacent to the rear end of the tube E and flared to fit around the same, said arm being provided at its free end with a fan-casing containing a rotary fan which carries a pointer, and a spring-catch to engage the tubular arm, all substantially as specified.

In testimony whereof we affix our signatures in presence of two witnesses.

DOMINICK C. BRENNAN.
FREDERICK WEBBER.

Witnesses:

J. B. SLAVIN,
JOHN GRAEBING, Jr.