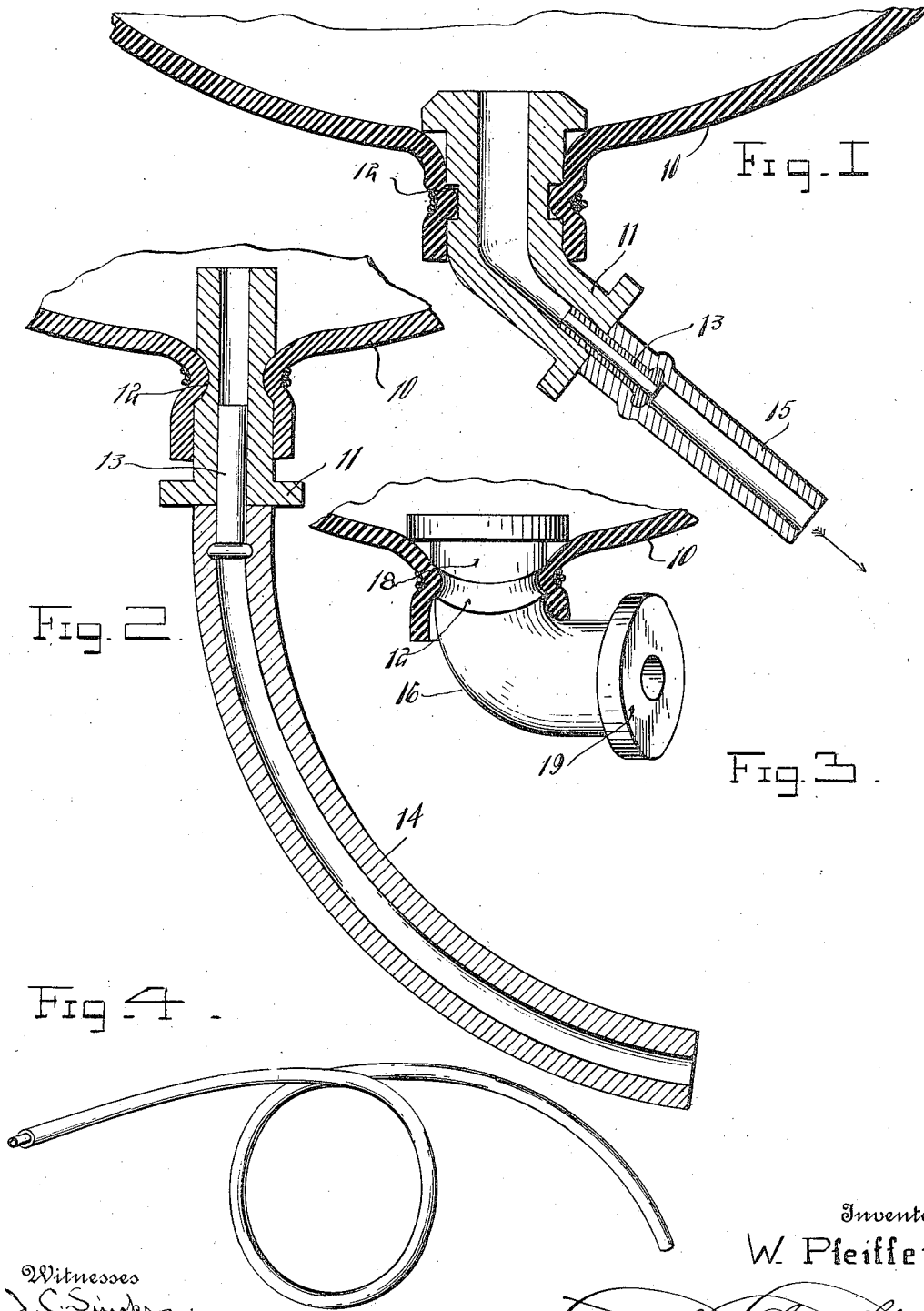


W. PFEIFFER.
TOY BALLOON.
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1,051,004.

Patented Jan. 21, 1913.



Witnesses
J. C. Simpson.
Harry M. Test.

Inventor
W. Pfeiffer.

By *Charles Chandler*

Attorneys

UNITED STATES PATENT OFFICE.

WILLIAM PFEIFFER, OF WALLA WALLA, WASHINGTON.

TOY BALLOON.

1,051,004.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, WILLIAM PFEIFFER, a citizen of the United States, residing at Walla Walla, in the county of Walla Walla, State of Washington, have invented certain new and useful Improvements in Toy Balloons; 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 toy balloons, and has particular reference to a mouth-piece therefor.

The principal object of this invention is to provide a vent plug for an inflatable toy balloon for the introduction of a mouth-piece, whereby the gradual escape of the air through the plug and mouthpiece will propel the balloon while it floats in the air.

Other objects and advantages will be apparent from the following description and with particular reference to the accompanying drawings.

In the drawings: Figure 1 is an enlarged vertical sectional view of a portion of an inflated toy balloon showing one of my vent plugs attached thereto, the arrows indicating the escape of air through the mouthpiece, Fig. 2 is a vertical sectional view through a modified form of plug showing the attachment of the mouthpiece, Fig. 3 is an elevation of a modified form of the plug, a portion of the balloon being shown attached thereto, and Fig. 4 is a detail view of the spiral mouthpiece.

Referring particularly to the drawings, 10 represents the rubber bag of the balloon which is closed at one side, and attached to an apertured plug 11, said plug having a circumferential groove 12 in which a flexible element is adapted to pass to hold the rubber thereto. The plug 11, as particularly shown in Fig. 1 is slightly bent, one end 13 of a mouthpiece 14 being adapted to be inserted and fit snugly within the opening of the plug, while the opposite end is placed in the mouth. When the balloon has become inflated, the mouthpiece is removed from the mouth, and a finger quickly placed

over the end of the plug to prevent the escape of air, whereupon the operator releases the balloon and permits the same to rise in the air. The air in the balloon will slowly escape through the plug, and impinging on the surrounding atmosphere, act as a propelling fluid to force the balloon along a straight path. Should it be desired to have the balloon ascend vertically away from the operator, a straight plug 15 as shown in Fig. 2, should be inserted.

As clearly seen in Fig. 4 I have provided a spiral mouthpiece which may be left in the plug to cause the balloon to perform certain gyrations during its ascension and descension.

While I have shown and described several forms of plug, I wish it to be understood that I do not care to be limited to these particular forms, as numerous modifications could be made in the plug to produce different movements of the balloon during its ascension and descension.

In Fig. 3 is shown a plug 16 which is bent laterally at right angles to the vertical position 18, and then slightly to one side in the same plane as the lateral portion as at 19. The air escaping from this plug will cause the balloon to rotate as it ascends and descends.

What is claimed is:

1. The combination with a toy balloon, of a vent plug inserted within the balloon, said plug serving to permit the air from the balloon to escape and impinge against the atmosphere to propel the balloon during its ascension and descension.

2. An inflating and propelling device for toy balloons, consisting of a vent plug, inserted within the balloon, the outer end of the plug being bent laterally.

3. An inflating and propelling device for toy balloons, of a vent plug, and a spiral tube adapted for insertion within the plug.

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

WILLIAM PFEIFFER.

Witnesses:

MARVIN EVANS,
GRACE MCGUIRE.