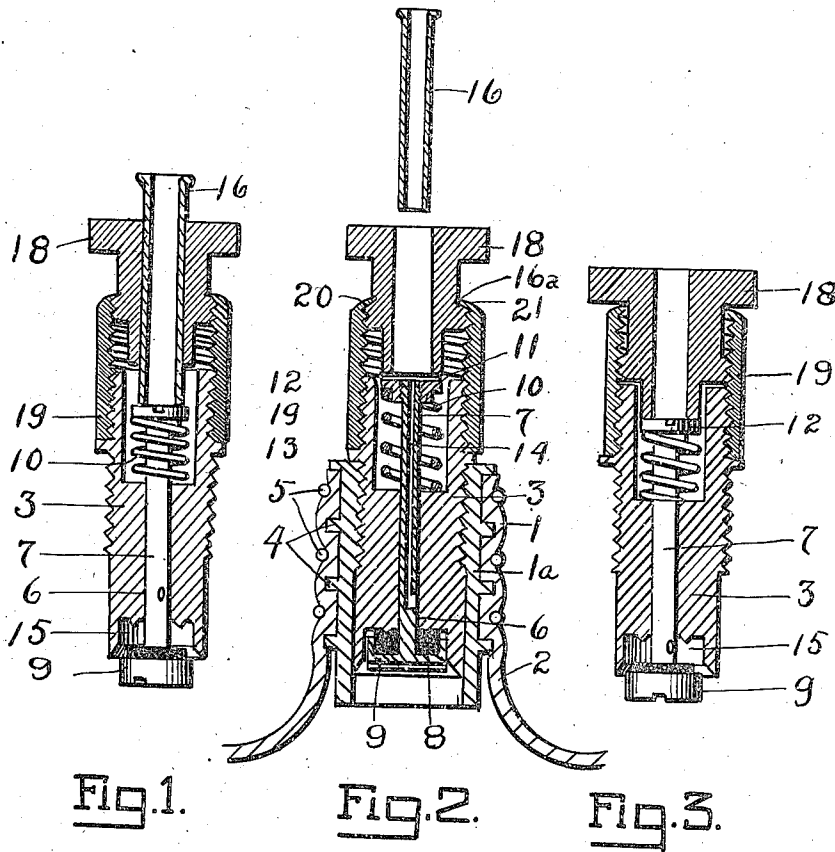


R. H. HENEMIER.
PILLOW VALVE.
APPLICATION FILED JAN. 4, 1915.

1,300,611.

Patented Apr. 15, 1919.



WITNESSES

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UNITED STATES PATENT OFFICE.

ROBERT H. HENEMIER, OF NEW YORK, N. Y., ASSIGNOR TO A. SCHRADER'S SON,
INCORPORATED, OF BROOKLYN, NEW YORK, A CORPORATION OF NEW YORK.

PILLOW-VALVE.

1,300,611.

Specification of Letters Patent.

Patented Apr. 15, 1919.

Application filed January 4, 1915. Serial No. 491.

To all whom it may concern:

Be it known that I, ROBERT H. HENEMIER, citizen of the United States, and resident of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Pillow-Valves, of which the following is a specification.

My invention consists of a pillow valve adapted to be used with mattresses, pillows and similar air tight articles.

It is customary to blow up pillows and mattresses by means of the lungs with the lips pressed firmly around the end of the valve, the air from the lungs passing through the valve. It has been customary to press the finger over the end of the valve between breaths.

One of the objects of my invention is a valve to accomplish this purpose.

Another object of my invention is a construction adapted to permit a rapid inflation of a pillow or mattress in spite of the fact that the valve has a small cross-sectional area.

Another object of my invention is a construction to receive an independent tube so that the party attending to the bed will not have to blow up the valve that has been in contact with the lips of other people but may be able to blow the valve up through an individual tube.

A third object is a construction by which the valve may be locked in an open position for deflation.

A fourth object of my invention is a construction that is simple and cheap to manufacture and capable of insertion in the tubular extension ordinarily employed upon pillows and mattresses.

Figure 1 is a sectional elevation of my invention, with the valve held by an independent tube in an open position.

Fig. 2 is a sectional elevation showing the valve in its normal position with an independent tube pressing the valve open either for inflating or deflating.

Fig. 3 is a section showing how the valve may be locked in an open position.

Within the tubular extension 1, which forms a portion of a pillow or mattress or similar air receptacle 2, is a permanently attached tube. The tube 3 is screwed into or otherwise secured within the tube 1^a, and has a central bore containing the stem 7 of

a valve 8 with the cup shaped end 9 at the lower end of the stem 7. The valve may be of rubber or any other suitable material and when it is closed (as shown in Fig. 2) it effectually cuts off the escape of air from within the receptacle. It is held closed by means of the spring 10 pressing the shoulder 11 of the nut 12 which is secured by means of screw threads to the upper end of the stem 7, the other end of the spring pressing against the shoulder 13 in the tube 3. The bottom of the cup shaped portion 9 and top of the nut 12 are provided with grooves as shown, to receive screw drivers or similar devices for the purpose of screwing them together. The stem 7 has an air passageway 14 drilled through it, as shown, which may have a sufficient area to permit the rapid passage of air for inflating and deflating. As the cup shaped portion 9 of the valve fills the cavity 15 in the tube 3, the air cannot escape around the valve until it has been depressed to the position shown in Fig. 1. In this position, the air has a free passageway through the valve. The valve may be held in this position (shown in Fig. 1) by means of the independent tube 16, the lower end engaging the nut 12 and the upper end adapted to be held between the lips of the party operating the valve. When the tube 16 is withdrawn, the spring 10 returns the valve to its seat, the cup shaped portion 9 being guided within the walls of the cavity 15 to cause the valve to be seated squarely. The stem 7 may fit closely within the bore 6 in the tube 3 to assist in guiding the valve to its seat. A cap 16^a is secured by means of threads 19 to the upper end of the tube 3. The cap may be formed in two parts, consisting of the knurled top 18 and the screw threaded portion 19, the knurled portion 18 having a shoulder 20 over which the top of the cylindrical portion 19 is spun as shown at 21, so that the knurled portion 18 cannot be removed from the part 19.

The knurled portion may be secured farther into the cap 19 and its projection 22 may engage the valve stem or its nut 12 and push it into the open position shown in Fig. 3 to permit deflation.

What I claim and desire to secure Letters Patents for is:—

1. In a device of the character described, a stem, a yielding valve therein, a rotatable

member positioned on the stem and operative to force the valve from its seat to permit deflation, a separable mouthpiece for inflating and said rotatable member being
5 formed with a passage therethrough for said mouthpiece to permit of independent manual release of the valve by the latter during inflation, substantially as described.

2. In a device of the character described,
10 a stem, a yielding valve therein, a separable mouthpiece for inflating, a movable release member permanently positioned on the stem and adapted to permit of manually opening
15 of the valve by the mouthpiece independently thereof and said release member being adapted to engage the valve to force it from its seat to permit deflation.

3. In a device of the character described, a stem, a yielding valve therein, resilient
20 means for holding the valve against its seat, a two part cap member permanently positioned on the stem, said cap member comprising a threaded sleeve portion and a release
25 element threaded thereto, means on the sleeve for permanently securing the release

element thereto, said element being adapted upon rotation to engage and release the valve to permit deflation and having a central bore therethrough to permit of independent manual operation of the valve, substantially as described. 30

4. In a device of the character described, a stem, a yielding valve therein, a two part cap member permanently positioned on the stem, said cap member comprising a threaded
35 sleeve portion and a release element threaded thereto, means on the sleeve for permanently securing the release element thereto, said element being adapted upon rotation
40 to engage and release the valve to permit deflation and having a central bore therethrough to permit of independently opening the valve, substantially as described.

Signed at New York in the county of New York and State of New York this 11th day
45 of November, A. D. 1914.

ROBERT H. HENEMIER.

Witnesses:

MYRON F. HILL,
NEASON JONES.