

No. 657,402.

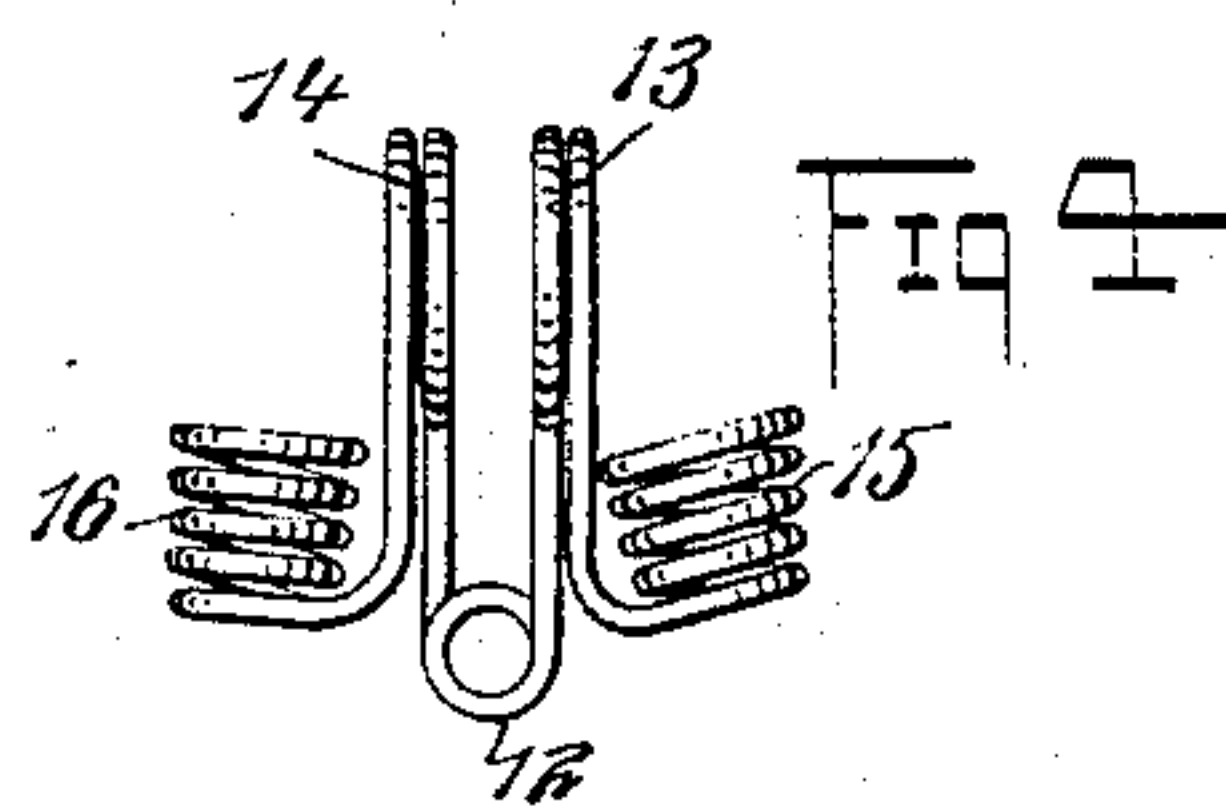
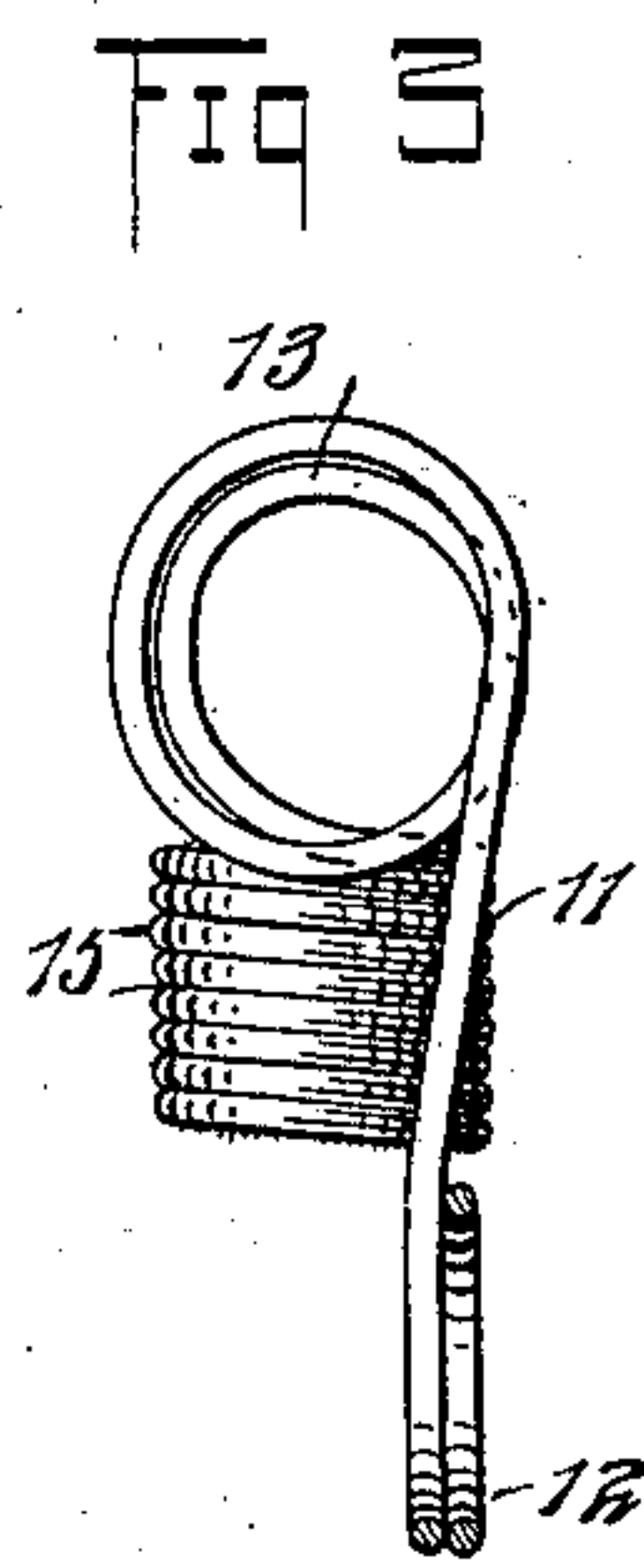
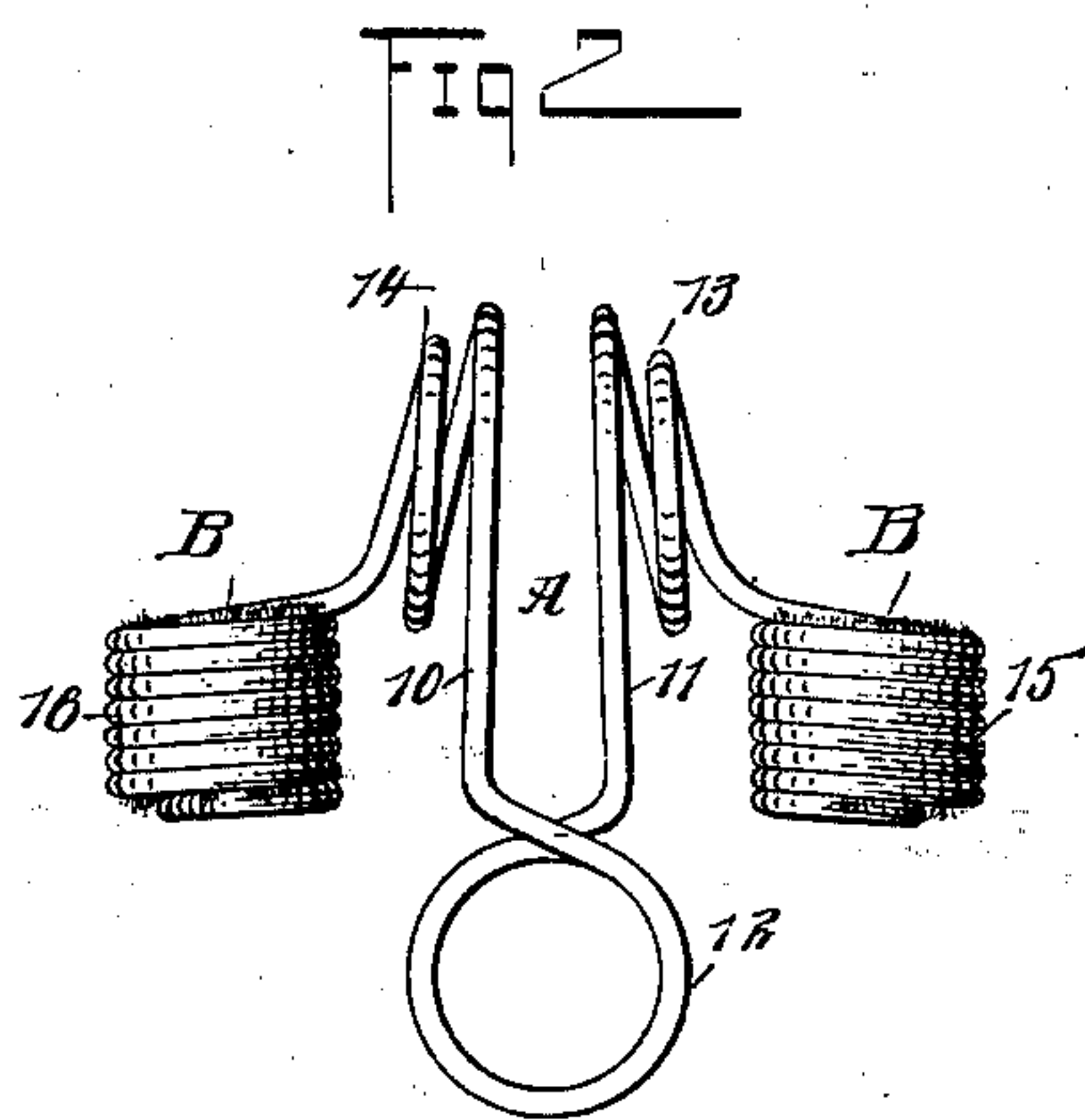
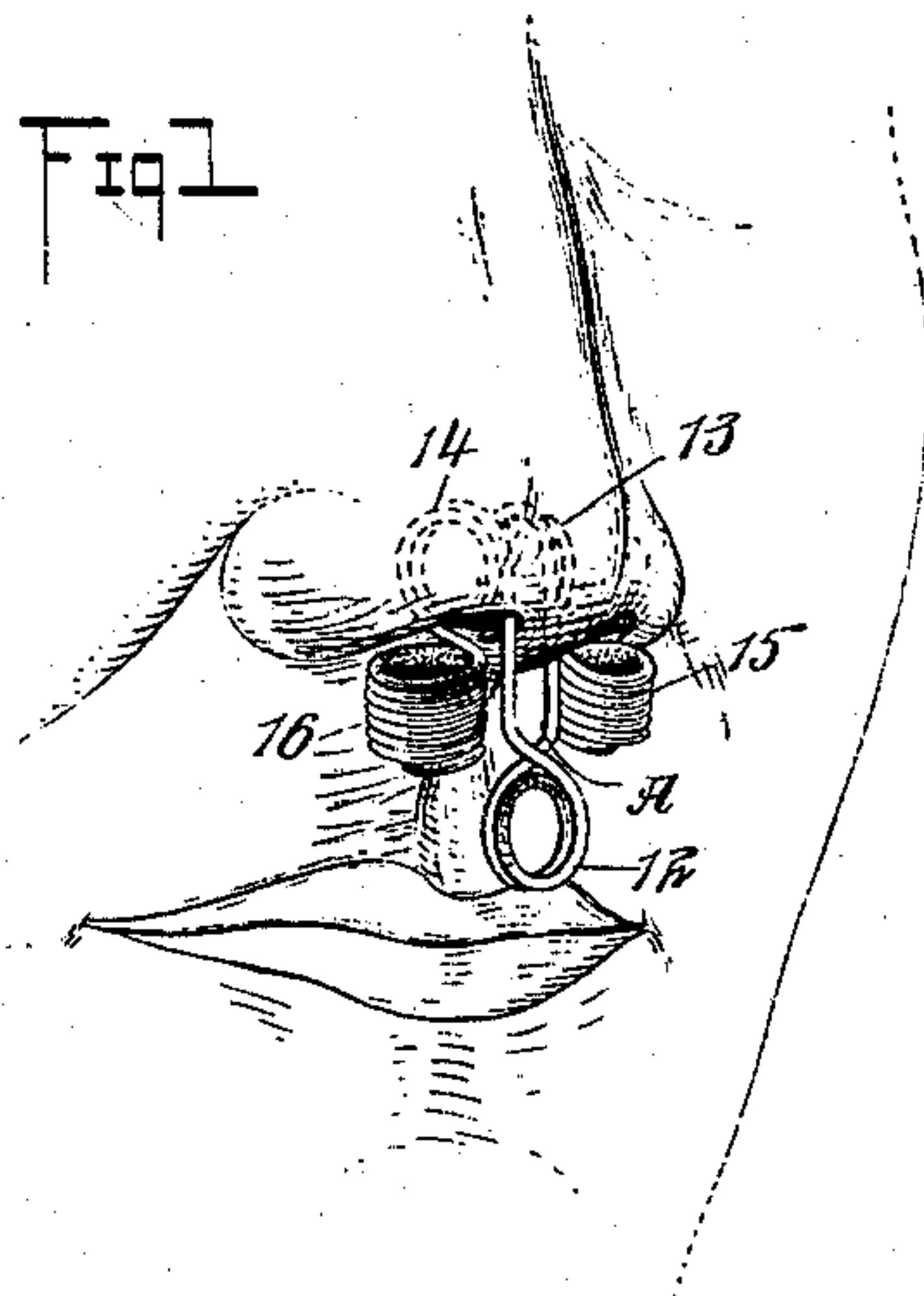
Patented Sept. 4, 1900.

P. T. DONOVAN.

INHALER.

(Application filed Apr. 12, 1900.

(No Model.)



WITNESSES:
James H. [Signature]
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INVENTOR
Peter T. Donovan.

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UNITED STATES PATENT OFFICE.

PETER THOMAS DONOVAN, OF NEW YORK, N. Y.

INHALER.

SPECIFICATION forming part of Letters Patent No. 657,402, dated September 4, 1900.

Application filed April 12, 1900. Serial No. 12,542. (No model.)

To all whom it may concern:

Be it known that I, PETER THOMAS DONOVAN, a citizen of the United States, and a resident of the city of New York, borough of Manhattan, in the county and State of New York, have invented a new and Improved Inhaler, of which the following is a full, clear, and exact description.

The object of the invention is to provide an inhaler designed for the treatment of cold in the head, catarrh, asthma, bronchitis, &c., and which is so constructed that it may be attached to the nose in a convenient and comfortable manner, the device being designed particularly to be worn at night; but said device may be carried in the pocket and applied to the nostrils at any time.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a perspective view of the device, illustrating its application to the nose of a patient. Fig. 2 is a front elevation of the improved device. Fig. 3 is a longitudinal vertical section taken through the central portion of the device, and Fig. 4 is a rear elevation of the device in a slightly-modified form.

The device is preferably made of one piece of fine resistance-wire and is formed with integral clamps which are designed to engage with the central cartilage of the nostrils without pinching or injuring that member, while receptacles are also formed at each side of the clamping portion of the device, which receptacles, when the device is in position on the nose, are brought immediately beneath the nostrils. The wire is bent upon itself to form a central U-shaped shank A, and at the bottom of the shank the wire is crossed upon itself or otherwise manipulated to form a finger-piece 12, the members of the U-shank being designated as 10 and 11. This finger-piece 12 may be in the form of a ring, as illustrated, or may be of other shape. At the upper end of the member 11 of the

shank A the wire is bent upon itself in a manner which forms a coil-clamp 13, and the wire is carried from this coil-clamp downward and outward and is then shaped in a series of horizontal coils, thus forming a basket 15, which is adapted to receive a filling B of felt or other absorbent material. The wire at the upper end of the opposing member 10 of the shank A is likewise formed into a coil-clamp 14 and is then carried downward and outward, and this end of the wire is then formed into a series of coils, forming a second basket 16, which is usually in transverse alinement with the basket 15, although not necessarily so. The coils of the baskets 15 and 16 may be close together, as shown in Figs. 2 and 3, or they may be somewhat separated, as illustrated in Fig. 4, in order to permit a circulation of air through the baskets. The coils of the baskets instead of being pendent from their supports, as shown in Fig. 2, may be formed upon their supports, as shown in Fig. 4, and the handle 12 instead of being below the shank A may be contained within the same. As shown in Fig. 3, the members of the shank are given a slight rearward inclination from the clamps 13 and 14 to the handle 12, but while such inclination is preferred it is not absolutely necessary.

In operation the handle 12 is grasped, for example, between the thumb and forefinger of the hand and the clamps 13 and 14 are made to engage with opposite sides of the cartilage of the nostrils, as shown in Fig. 1. The clamps in engaging with said cartilage of the nostrils will not irritate that member, as the clamps are light and of spring construction, and when the device is in position on the nose the baskets are held close to and beneath the nostrils, as is clearly indicated in Fig. 1.

The absorbent material B in the baskets is designed to be saturated with or to receive volatile healing oils. While the device is worn, therefore, the influence of these healing agents is carried to the seat of the disease at each inspiration and not only tends to cure disease, but to absolutely prevent disease.

The prime advantage claimed for the device over other known inhalers is that it insures an effectual medicinal application dur-

ing those hours of somnolence when diseases of the head and throat make their most formidable strides.

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

1. An inhaler consisting of a body having spring-clamps at its upper portion adapted for engagement with opposite sides of the cartilage of the nostrils, and receptacles supported at each side of the body below the clamps and adapted to contain a saturated or absorbent material, as set forth.

2. An inhaler consisting of a U-shank formed with a finger-piece, clamping members carried by the shank at the upper portion thereof, and receptacles for saturated or absorbent material, the said receptacles being held at opposite sides of the shank and supported from the clamping members, for the purpose set forth.

3. An inhaler formed of a single piece of

wire and having a body portion provided with coil-clamps for attachment to the cartilage of the nose, and receptacles for a healing material, the said receptacles being formed of a series of coils and adapted when the device is applied to the nose to be brought beneath the nostrils.

4. An inhaler formed of a single piece of spring-wire bent upon itself to form a central U-shaped shank, the wire at each side of the shank at the top forming a clamp, the wire extending downward and outward from each clamp and terminating in a series of coils forming receptacles at each side of the shank, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

PETER THOMAS DONOVAN.

Witnesses:

J. FRED. ACKER,
JNO. M. RITTER.