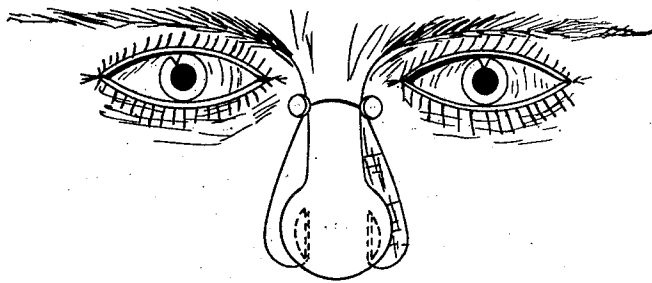
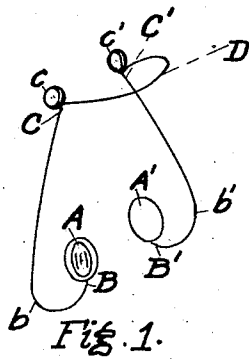


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NOSTRIL EXPANDER.
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1,034,123.

Patented July 30, 1912.



WITNESSES:
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UNITED STATES PATENT OFFICE.

ANNIE C. KNOWLSON, OF ANN ARBOR, MICHIGAN.

NOSTRIL-EXPANDER.

1,034,123.

Specification of Letters Patent.

Patented July 30, 1912.

Application filed September 15, 1911. Serial No. 649,567.

To all whom it may concern:

Be it known that I, ANNIE C. KNOWLSON, a citizen of the United States, residing at Ann Arbor, county of Washtenaw, State of Michigan, have invented a certain new and useful Improvement in Nostril-Expanders, and declare the following to be a full, clear, and exact description of the same, such as it pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to nasal expanders and consists in the novel construction and arrangement of the parts hereinafter set forth and claimed.

In the drawings:—Figure 1, is a perspective view of the expander when not in use. Fig. 2, is an elevation of the nose in which the expander is inserted, showing the expander in use, partly indicated by dotted lines.

In the drawings, similar letters refer to similar parts.

In the drawings, A, A', represent two pads or disks which may be of metal or any other material which is suitable for such purposes and which is susceptible of being disinfected. Each of these pads is attached to the opposite ends B, B', of a resilient wire. The wire with ends B, B', is in one continuous piece having turned loops C, C', in which are inserted soft elastic pads c, c', held therein, the loops and pads being joined by a U-shaped part D. The pads c, c', thus held by the loops C, C', are adapted to grasp the bridge of the nose and are held with sufficient tenacity thereon by the resiliency of the bow D to retain the whole structure in place. When the pads A, A', are inserted into the nostrils respectively, the resiliency of the spring arms B, B', tends to expand the nostrils in a manner well understood.

The curvatures b, b', of the wire, permit the pads A, A', to be inserted in the nostrils to the required distance, as shown in Fig. 2. After such insertion the pads c, c', are made to grasp the bridge of the nose and thereby the pads A, A', are retained in the nostrils in the proper position.

It is obvious that the pads A, A', may be absorbent pads, if desired, of felt or other material, but I prefer to use a non-corrosive which is easily rendered antiseptic.

Inasmuch as the entire holding means is made of one piece of spring wire in the manner set forth, and as the pads c, c', are held by coils in such wire, it is obvious that it can be cheaply made and also be very efficient in its action as such wire is also capable of being slightly bent without losing its resiliency, its tension is easily adjusted so as to be comfortable for any particular person.

Having thus described my invention, what I desire to claim is:—

1. In a nostril expanding device, the combination of bearing pads, a continuous resilient member uniting said bearing pads, supporting pads carried by said spring member, the spring member encircling said supporting pads, substantially as described.

2. A nostril expanding device composed of a resilient member formed in a single piece with coils therein, said coils encircling and carrying supporting elastic pads adapted to be fitted externally upon a nose, the ends of the spring member carrying pads adapted to be inserted in the nostrils, substantially as described.

In testimony whereof, I sign this specification in the presence of two witnesses.

ANNIE C. KNOWLSON.

Witnesses:

F. KNOWLSON,
VIRGINIA C. SPRATT.