

Aug. 6, 1935.

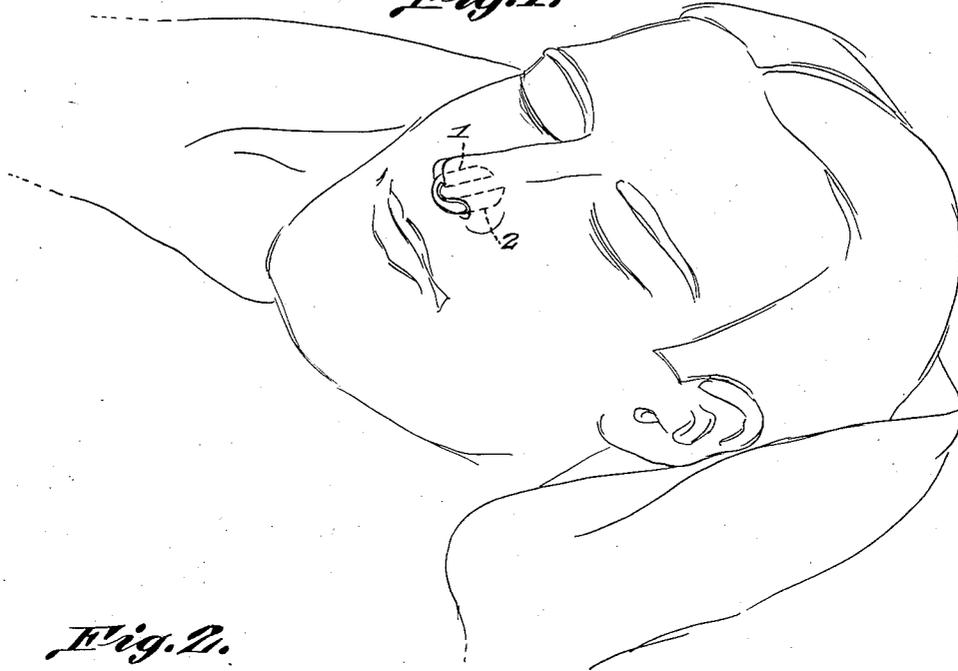
W. L. HEATH

2,010,485

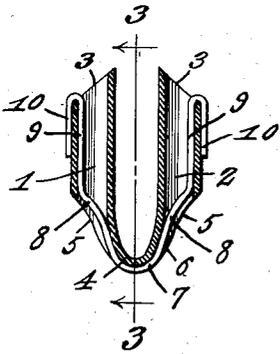
ANTISNORING DEVICE

Filed June 19, 1934

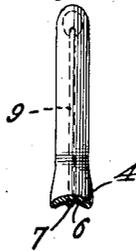
*Fig. 1.*



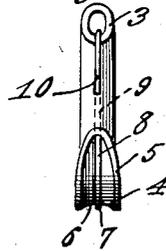
*Fig. 2.*



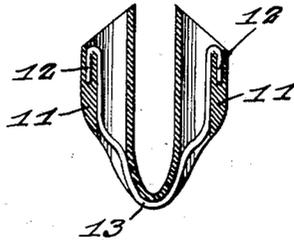
*Fig. 3.*



*Fig. 4.*



*Fig. 6.*



*Fig. 5.*



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# UNITED STATES PATENT OFFICE

2,010,485

## ANTISNORING DEVICE

Webster Lafe Heath, Webster Groves, Mo.

Application June 19, 1934, Serial No. 731,350

5 Claims. (Cl. 128—342)

This invention relates to antisnoring devices, and its general object is to provide a device to be inserted in the nostrils of the user while sleeping to allow normal breathing through the nose and therefore prevents mouth breathing and snoring that generally accompanies the same.

A further object of the invention is to provide a device of the character set forth, that can be easily and expeditiously inserted in the nostrils of the user, and not only prevents mouth breathing, but causes no discomfort, with the result it allows sound and restful sleep which of course is essential to good health.

Another object of the invention is to provide an antisnoring device that is simple in construction, inexpensive to manufacture and extremely efficient in use and service.

This invention also consists in certain other features of construction and in the combination and arrangement of the several parts, to be hereinafter fully described, illustrated in the accompanying drawing and specifically pointed out in the appended claims.

In describing my invention in detail, reference will be had to the accompanying drawing wherein like characters denote like or corresponding parts throughout the several views, and in which:

Figure 1 is a view illustrating my device in use.

Figure 2 is a vertical sectional view taken through one form of my device with parts in elevation.

Figure 3 is a sectional view taken approximately on line 3—3 of Figure 2, looking in the direction of the arrows.

Figure 4 is an end view of my device.

Figure 5 is a top plan view thereof.

Figure 6 is a vertical sectional view taken through a slightly modified form.

Referring to the drawing in detail, it will be noted that my device includes a body provided with what may be termed a pair of parallel tubes 1 and 2 which are identical in construction and are adapted to be inserted in the nostrils of the user as clearly shown in Figure 1. The body is preferably formed from soft rubber, and the upper ends of the tubes 1 and 2 are inclined as at 3 in a manner whereby the upper ends are disposed in diverging relation with respect to each other, to allow for an easy insertion of the device within the nostrils.

The tubes 1 and 2 are connected at their lower ends by what may be termed a bridge piece 4, and the lower ends are cut away at a downward curvature as at 5 to extend to the bridge piece

in a manner to provide what may be termed a groove 6.

In order to hold the body substantially rigid with the tubes arranged in parallelism with respect to each other, I provide a reinforcing member which is preferably formed from resilient wire, and into substantially U-shape configuration as best shown in Figure 2. The member includes a bight portion 7 that is arranged in the groove 6 and from the bight portion, the arms which are indicated by the reference numeral 8 are outwardly curved to provide parallel portions 9 which engage the inner surface of the outer portions of the walls of the tubes 1 and 2 and thence are curved over the top of the tubes to provide hook portions 10 which are arranged in clamping engagement with the outer surfaces of the outer portions of the walls of the tubes as clearly shown in Figure 2.

A slightly modified form of my invention is illustrated in Figure 6, and while the body is likewise formed from soft rubber, the outer portions of the walls of the tubes are thickened as at 11 and have arranged therein, bores for the purpose of receiving the hooked ends 12 of the U-shaped reinforcing member 13, with the result the hooked ends are enclosed, and therefore they cannot, nor can the remaining portion of the U-shaped reinforcing member, come in contact with the nostrils of the user. However, the U-shaped reinforcing members are preferably made from aluminum or non-corrosive metal, as will be apparent.

From the above description and disclosure of the drawing, it will be obvious that I have provided an antisnoring device that can be easily inserted within the nostrils of the user and will be held therein through the instrumentality of the general shape of the device as well as the resiliency of the U-shaped reinforcing member, and the device not only holds the nostrils sufficiently expanded, but the tubes provide ample passageways so as to allow free and easy breathing through the nose, therefore mouth breathing and snoring is prevented.

It is thought from the foregoing description that the advantages and novel features of my invention will be readily apparent.

I desire it to be understood that I may make changes in the construction and in the combination and arrangement of the several parts, provided that such changes fall within the scope of the appended claims.

What I claim is:

1. An antisnoring device comprising a body

formed from soft rubber and including a pair of tubes provided with open upper and lower ends, means for connecting the lower ends of the tubes together and included in said body, and resilient reinforcing means received by the connecting means and extending into the tubes to hold the latter spaced in parallelism with respect to each other.

2. An antisnoring device comprising a body formed from soft rubber and including a pair of tubes having open inclined upper ends arranged in diverging relation with respect to each other, said tubes being cut away in curved formation at their lower ends and open accordingly, means connecting the lower ends of the tubes together, resilient reinforcing means having a bight portion received by the connecting means and arms extending into the tubes to hold the latter spaced with respect to each other.

3. An antisnoring device comprising a body formed from soft rubber and including a pair of tubes having outwardly inclined open upper ends and curved open lower ends, grooved means connecting the lower ends of the tubes together, substantially U-shaped reinforcing means including a bight portion arranged in the groove, and arms extending into the tubes to hold the latter spaced with respect to each other and hooked means formed on the arms and received by the tubes

for securing the reinforcing means to the body.

4. An antisnoring device comprising a body formed from soft rubber and including a pair of tubes having open inclined upper ends and open curved lower ends, means connecting the lower ends of the tubes together and providing a groove, a substantially U-shaped resilient supporting means having its bight portion arranged in the groove and its arms engaging the inner surface of the outer portions of the tubes to hold the latter in spaced parallel relation with respect to each other, hooked portions formed with the arms and engageable with the outer surface of the tubes for securing the reinforcing member to the body.

5. An antisnoring device comprising a body including a pair of tubes having thickened walls provided with bores, said tubes having open upper and lower ends, means connecting the lower ends of the tubes together, a resilient reinforcing means including a bight portion received by the connecting means, and arms arranged within the tubes to hold the latter in spaced parallel relation with respect to each other and hooked portions formed with the arms and received in the bores to secure the reinforcing member to the body.

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