

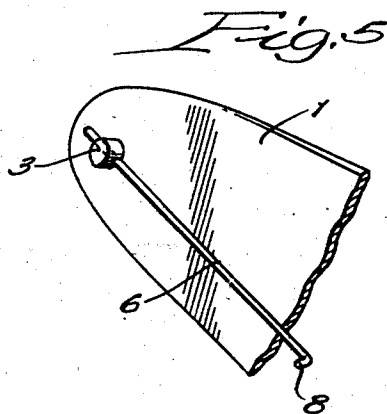
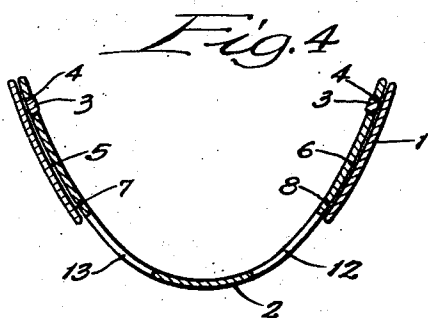
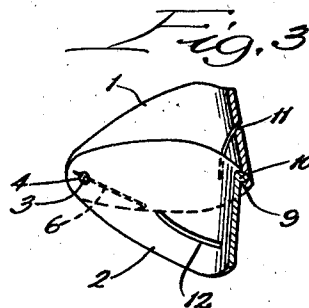
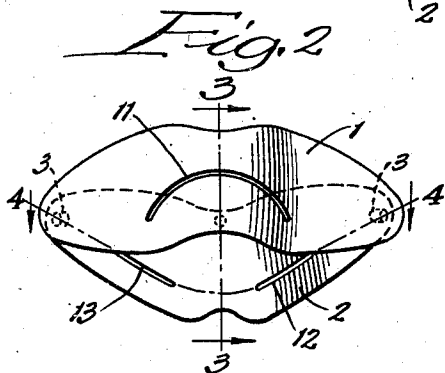
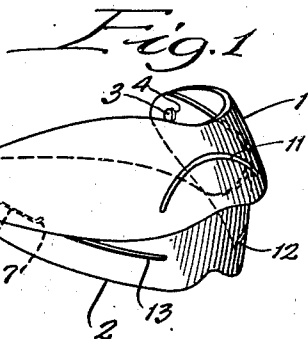
July 22, 1947.

W. J. FAIRES

2,424,533

ANTISNORE DEVICE

Filed July 21, 1945



Witnesses:-

W. A. Snow
Wm D. Larkin

Inventor:
William J. Faires,

By *Sumner Sumner & Davis*,
his Attorneys.

UNITED STATES PATENT OFFICE

2,424,533

ANTISNORE DEVICE

William Jay Faires, Chicago, Ill.

Application July 21, 1945, Serial No. 606,378

4 Claims. (Cl. 128—136)

1

This invention relates to improvements in anti-snoring devices.

The main objects of this invention are to provide a novel, improved, sanitary, and inexpensive anti-snoring device; to provide a device of this character having two cooperating curved frame members pivotally attached to each other and movable with respect to each other; to provide a device of this character which will open and close when installed according to the movement of the jaw of the wearer; and to provide a device of this character which is simple in construction, non-gagging, safe, sanitary and simple and convenient to use and operate.

An illustrative embodiment of the invention is shown in the accompanying drawings in which:

Figure 1 is a perspective view of my invention.

Fig. 2 is a front elevational view.

Fig. 3 is a sectional view taken on the line 3—3 of Fig. 2.

Fig. 4 is a sectional view taken on line 4—4 of Fig. 2.

Fig. 5 is a perspective view of the inner face of one of the frame members, parts being shown broken away and illustrating the spring arrangement.

Referring in detail to the drawings, the cooperating frame members 1 and 2 are shaped to generally correspond to the curvature of the teeth of a human being whereby the device may be comfortably placed in the mouth between the teeth and lips of the user. The frames are pivotally secured together at their ends, in any suitable manner, such as by employing lugs 3 integrally formed on the ends of frame member 1 and inserting the lugs in cooperating apertures 4 in the ends of the frame member 2.

The frame member 1 lies in front of member 2 as clearly shown in the drawings, whereby the lower member 2 moves upwardly and downwardly with respect to member 1 about the pivotal connections (3—4), upon opening or closing of the jaw of the user.

It is preferable to provide a spring means to keep the members 1 and 2 in the expanded position shown in Figs. 1 to 3 inclusive so as to insure that they will automatically assume this position when the user's mouth is opened and thereby prevent air from being drawn into the mouth instead of through the nose, and hence prevent snoring.

To accomplish this, I anchor small thin springs 5—6 to the lugs 3 by inserting one end of each spring into a bore contained in each lug. The

2

bores are of slightly smaller diameter than the diameter of the springs 5—6 whereby the ends of the spring will be held frictionally therein. The other end of each spring is bent at right-angles, as at 7—8, and inserted into apertures located adjacent the lower edge walls of member 2. It is to be noted that the bores in lugs 3 lie in a diagonal plane whereby to cause the members 1 and 2 to assume the full expanded position shown in Figs. 1 to 3 inclusive at all times except when placed in position in the mouth of the user.

In order to prevent expansion of the frame members beyond the limits of their edges, I provide cooperating stop lugs 9—10 on the frame members 1 and 2 respectively, whereby movement of the frame members 1 and 2 is restricted as will be apparent, especially from Fig. 3.

The frame member 1 is also provided with a curved slot 11, whereby to allow a slight amount of air to be drawn into the mouth but of such minute quantity as not to defeat the purpose of this invention.

Frame member 2 is also provided with a pair of saliva slots 12—13 for the purpose of draining any saliva into the mouth which accumulates between the inner walls of the face and the device.

The members 1 and 2 are preferably formed of plastic but any substance may be used just so long as it will not rust, or deteriorate and may be cleaned and sterilized.

The springs 5 and 6 are preferably formed of stainless steel so as to be non-corrosive and rust proof and it will be understood that the spring tension is slight, whereby when the device is in place in the mouth in its compressed position, it will not be uncomfortable.

It will be understood that some of the details set forth may be altered or omitted without departing from the spirit of the invention as defined by the following claims.

I claim:

1. An anti-snore device, comprising a pair of cooperating curved frames pivotally secured together at their ends and positioned one in front of the other, said frames being adapted to be placed entirely within the mouth between the teeth and lips of the user, and means for normally holding said frames in an expanded position.

2. In a device of the class described, comprising a slotted upper curved frame, a cooperating lower curved frame having a plurality of slots, said lower frame being pivotally secured at its outer ends of said upper frame and movable with

3

respect to said upper frame, and means for normally holding said frames in an expanded position.

3. In a device of the class described, comprising upper and lower cooperating curved frame members, said frame members being pivotally secured together at their ends and positioned one in front of the other, said upper frame member having an air slot therein, said lower frame member being movable with respect to said upper member and having a plurality of saliva slots incorporated therein; and spring means for normally holding said frames in an expanded position.

4. In a device of the class described, comprising upper and lower cooperating frame members curved to conform to the shape of the mouth of the user and positioned one in front of the other, means for pivotally securing said frame members together at their ends, said lower frame member being normally movable with respect to said upper member according to the movement of the lower jaw of the user, said lower member having a plurality of saliva slots incorporated there-

4

in adjacent the lower edge thereof and said upper member having a restricted air slot therein, cooperating stop members on each said frame members to limit the movement of said members with respect to each other, and a pair of springs each integrally secured at one end to the outer walls respectively of said lower member and the other end to the inner walls respectively of said upper frame member to normally hold said frames in an expanded position.

WILLIAM JAY FAIRES.

REFERENCES CITED

15 The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
20 460,451	Shaw	Sept. 29, 1891

FOREIGN PATENTS

Number	Country	Date
666,588	Germany	Nov. 3, 1938