Nov. 12, 1946. M. A. ROGGE 2,410,903

HEATED NASAL INHALER

Filed Oct. 1, 1943

Fig. 1.

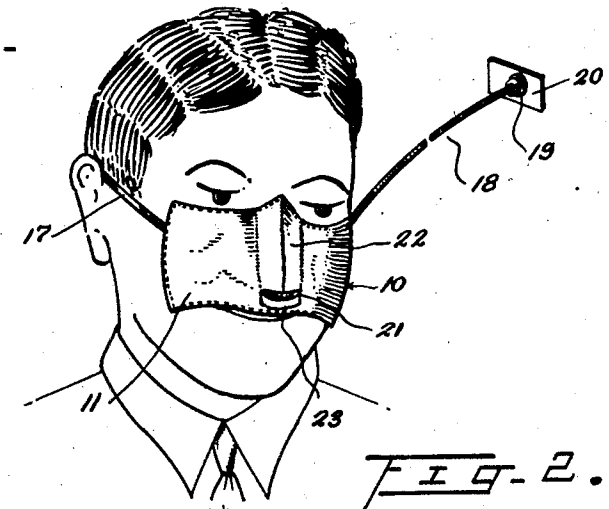
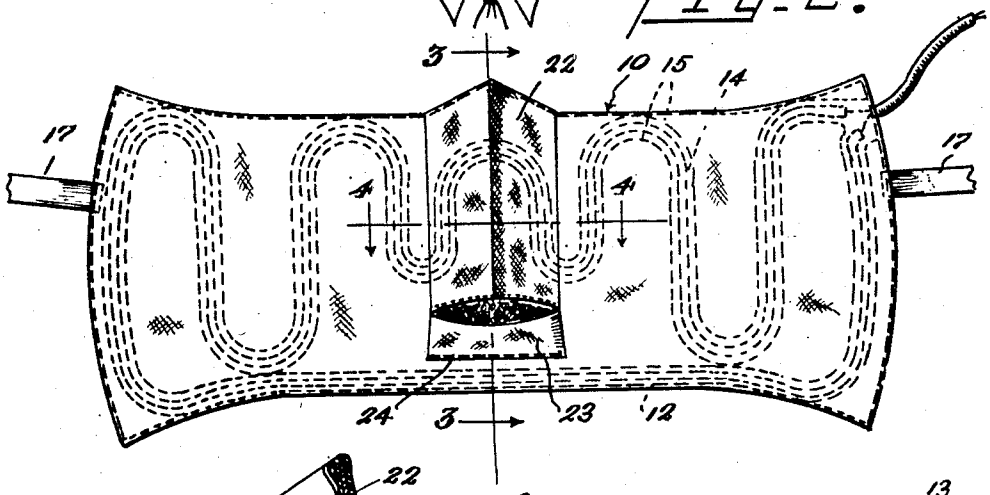


Fig. 2.



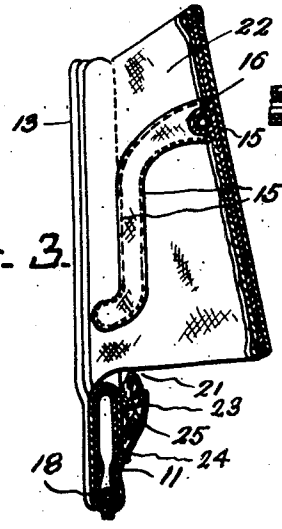


Fig. 3.

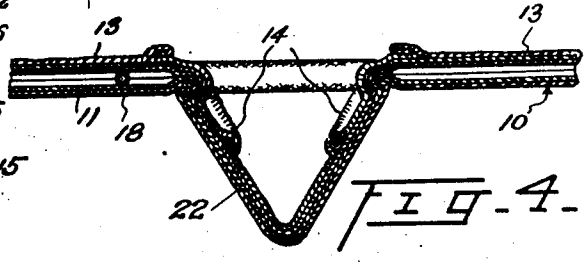


Fig. 4.

Inventor

MARION A. ROGGE

By L. F. Randolph

Attorney

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UNITED STATES PATENT OFFICE

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HEATED NASAL INHALER

Marion Ann Rogge, Detroit, Mich.

Application October 1, 1943, Serial No. 504,617

1 Claim. (Cl. 128—399)

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This invention relates to a pad of suitable construction and shape designed to follow the contour of the nasal and sinus area immediately below the eyes and to be worn on the head, and to provide in connection therewith a heating medium, have the structure such as to leave the nasal openings exposed, and in addition, to provide means on the pad beneath such opening in the line of insulation to hold a medicament or the like which will be heated simultaneously with the area mentioned and inhaled by the patient in the course of normal breathing.

The more specific objects and advantages will become apparent from a consideration of the description following taken in connection with accompanying drawing illustrating an operative embodiment.

In said drawing:

Figure 1 is a view in perspective showing my improvement in place on the head of a patient;

Figure 2 is a front elevation of the pad;

Figure 3 is a vertical section taken on the line 3—3 of Figure 2; and

Figure 4 is a horizontal section taken on the line 4—4 of Figure 2.

Referring specifically to the drawing wherein like reference characters designate like or similar parts, 10 represents a flexible body made up of any desired number of layers or plies 11, for instance, of textile fabric, suitably stitched together as at 12. The body or pad 10 may be of any desired shape provided it covers and follows contour of the nasal and sinus area below the eyes of the patient, as suggested in Figure 1. Such body 10, on the inner surface has stitched or otherwise attached thereto a sheet of light weight flannel 13, or the equivalent, for direct application against the skin.

Within the body, I imbed in any suitable manner, an electrical resistance or heating coil 14, the same being of any desired shape and being held in position by stitching 15 passing through the body on opposite sides of the coil or wire 14, to hold the latter in place as shown in Figure 2. Covering strips of insulation or flannel may be used at 16 over the coil and be secured in place by the stitching 15. Suitable means may be employed to secure the pad in place, for instance, tape or other flexible element 17, each passing along opposite sides of the head and being tied together at the back thereof, for example.

The coil 14 is heated from any suitable source of electricity as through a cord 18 of conventional form having a plug 19 adapted for detachable connection to a conventional wall or other socket 20.

Particular attention is called to the fact that the pad is longitudinally split below and in line

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with the nose as at 21 and that above the same there is an outwardly-extending fullness 22 shaped to fit the nose and leave the nasal passages exposed so as not to interfere with breathing, it being understood that the fabric parts or pieces around the fullness 22 at the opening 21 are stitched or otherwise reinforced.

Directly below the opening 21, I provide a pocket 23, the same being secured to the pad by stitching as at 24. This pocket is open at the top so that absorbent cotton or other material 25 may be placed therein and saturated with any suitable medicament which will be inhaled simultaneously with the normal breathing.

It will be noted, too, that the heating means 14 extends across the fullness or nose-fitting portion 22.

In use, it will be realized that the pad will supply heat only to those portions of the face usually affected by colds, the application being direct and the concentration being of sufficient heat volume to the affected parts and such as to function for correction and cure. The pocket or pouch 23 will be automatically heated so as to vaporize the medicament with which the material 25 is saturated, to the end that the vapor will be inhaled by the patient in the course of normal breathing. The ease and simplicity of application and attachment of the device permits the patient to lie comfortably in bed, read or sit up and read, or perform any activities not requiring undue changes of location, thereby encouraging sufficient length of continuous heating to produce a pleasing, comforting and highly satisfactory corrective result.

Various changes may be resorted to provided they fall within the spirit and scope of the invention.

I claim as my invention:

A structure of the class described comprising a pad for application to the head below the eyes, the pad consisting of a plurality of layers of flexible material and including electrical heating means therein, said pad having a longitudinal split above its lower edge disposable directly beneath the nose to enable normal breathing, said pad above the split having a fullness whereby it will fit the nose externally, the electrical heating means being flexible and extending across the fullness to aid in shaping the latter, a flexible cover over the heating means interiorly of and fixed to the fullness also aiding in shaping the latter, and a pouch on the pad between its lower edge and said split for the retention and confinement of medicaments to be affected by the heat and inhaled during normal breathing.

MARION A. ROGGE.