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H. P. GORDON

2,590,006

NASAL TUBE HOLDER

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FIG. 1

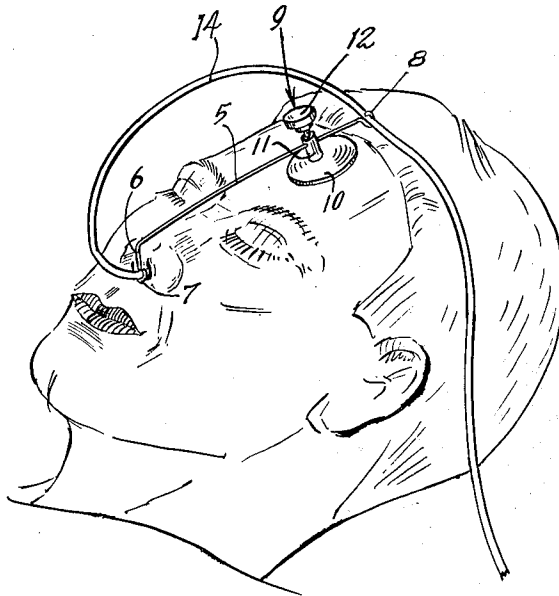


FIG. 2

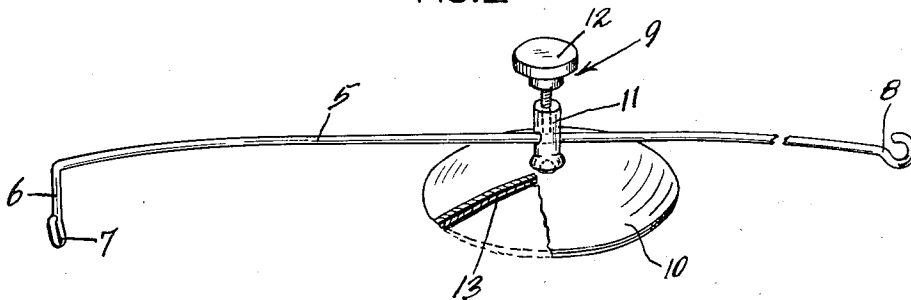


FIG. 3



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NASAL TUBE HOLDER

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4 Claims. (Cl. 128—206)

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This invention relates to holders for flexible nasal tubes.

Since the widespread use of flexible tubes for extension into the nasal passages of a patient and down into the stomach to relieve the gas pressure therein it has been a problem to securely hold the tube in a convenient position on the face of the patient.

It is an object to provide a novel and improved holder for these nasal tubes adapted to be quickly and easily attached to the forehead of a patient and to securely grip the tube 12 at spaced points to permit the tube to be conveniently positioned relative to the patient's face.

It is another object to provide a holder for nasal tubes constructed to tightly grip the tube adjacent the nostril of the patient's nose and to extend upwardly therefrom to the patient's forehead where the same may be adjustably attached to said forehead with another tube gripping eye disposed above the attachment means.

More specifically it is an object to provide a nasal tube holder having a pair of tube embracing hooks adapted to receive and tightly grip a flexible tube therein, said hooks or partly open eyelets being interconnected by an elongated shank member, said shank having attachment means connected therewith for attaching the same to the forehead of a patient with provision for longitudinal adjustment of said shank.

These and other objects and advantages of my invention will more fully appear from the following description made in connection with the accompanying drawings wherein like reference characters refer to similar parts throughout the several views and in which:

Fig. 1 is a perspective view showing my tube holding device in operative position as mounted on a patient;

Fig. 2 is a perspective view of the device alone; and

Fig. 3 is an enlarged elevational view of the construction of the partially open eyelets.

As illustrated in the accompanying drawings, I provide a nasal tube holder having the elongated shank 5 which, in the form shown, is slightly curved. The lower end of the shank 5 has a substantially right angle bend 6 formed therein to offset a partly open eyelet or hook 7 adapted to be disposed substantially adjacent the nostril of the patient, as best shown in Fig. 1.

The other end of the shank 5 has a hook or eyelet 8 formed therein which is similar in all respects to eyelet 7 and lies in a plane at right angles to said eyelet 7.

A mounting bracket designated as an entirety by the numeral 9 has a concavo-convex mounting plate 10 with an upstanding spindle 11 swivelly mounted at the center thereof. Said spindle 11 has a transversely disposed shank receiving aperture therethrough and the upper portion thereof has an internally threaded aperture disposed longitudinally thereof and intersecting said transversely disposed aperture. A thumb screw 12 is threadably mounted in said internally threaded aperture and engages the shank 5 in the desired adjusted position. The concave bottom surface of the plate 10 has an adhesive disc 13 with an adhesive surface on both sides thereof fixed thereto. The exposed adhesive surface is adapted to be securely attached to the forehead of the patient, as best shown in Fig. 1. This securely holds the shank and eyelets in a substantially predetermined position and the eyelet 7 is positioned adjacent the nostril of the patient.

The flexible tube which extends from the nostril and is designated by the numeral 14 is inserted through eyelet 7 and is then inserted through the upper eyelet 8. The openings of each of the eyelets 7 and 8 permits the flexible tube 14 which is usually made from rubber to be pressed into the eyelet without requiring the same to be threaded therethrough. The adhesive disc 13 is made from conventional double-faced adhesive tape and can be easily replaced to insure the positive anchoring of the mounting plate 10. The set screw 12 permits the shank 5 and eyelet 7 to be locked in the adjusted position and securely anchors said eyelets in predetermined relation to the patient. This relatively secure anchoring of the tube 14 permits the same to be looped as shown in Fig. 4 and held in an out-of-the-way position so as not to cause discomfort to the patient.

It will be seen that I have provided an extremely simple, yet highly efficient holder for flexible nasal tubes, particularly designed to anchor the tubes in a pair of spaced points to permit adjustment of the tube so as not to cause discomfort to the patient while still securely anchoring the tube with a predetermined length inserted through the nasal passages and down into the stomach of the patient. Extreme ease of attachment of the device while permitting the same to be securely anchored also materially aids the patient and greatly facilitates examination by the doctor, as well as facilitating adjustment of the position of the tube.

It will be seen that the concave shape of the underside of the plate 10 conforms generally to

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the convex shape of the forehead of a patient and permits secure adhesion of the adhesive 13 to said forehead surface.

It will, of course, be understood that various changes may be made in the form, details, arrangement and proportions of the various parts without departure from the scope of the present invention, which, generally stated, consists in the matter shown, and described, and set forth in the appended claims.

What I claim is:

1. A holder for flexible nasal tubes and the like comprising an elongated shank having a substantially right angle bend at the lower end thereof, a tube receiving and gripping eyelet fixed at the free end of said bent portion, a second tube receiving and gripping eyelet fixed to said shank in spaced relation to said bent portion, means for securing said shank to the head of a patient to position the eyelet fixed at said bent portion adjacent the nostril of a patient.

2. A holder for flexible nasal tubes and the like comprising an elongated shank having a bend formed at the lower end thereof, a partially open eyelet formed on the free end of said bent portion and lying in a plane disposed transversely of said shank, means for securing an intermediate portion of said shank to the

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forehead of a patient, and a partially open eyelet formed at the upper end of said shank and lying in a plane through said shank disposed substantially at right angles to the plane of said lower eyelet.

3. The structure set forth in claim 2 and said means for securing said shank to the forehead of a patient comprising a concavely shaped plate to conform to the convex shape of the forehead and having an adhesive surface removably affixed thereto to permit attachment of the plate to the forehead.

4. The structure set forth in claim 3 and a spindle mounted on said plate and slidably receiving said shank therethrough, and a set screw for adjustably locking said shank in the desired position.

HARRY P. GORDON.

REFERENCES CITED

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

UNITED STATES PATENTS

Number	Name	Date
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