

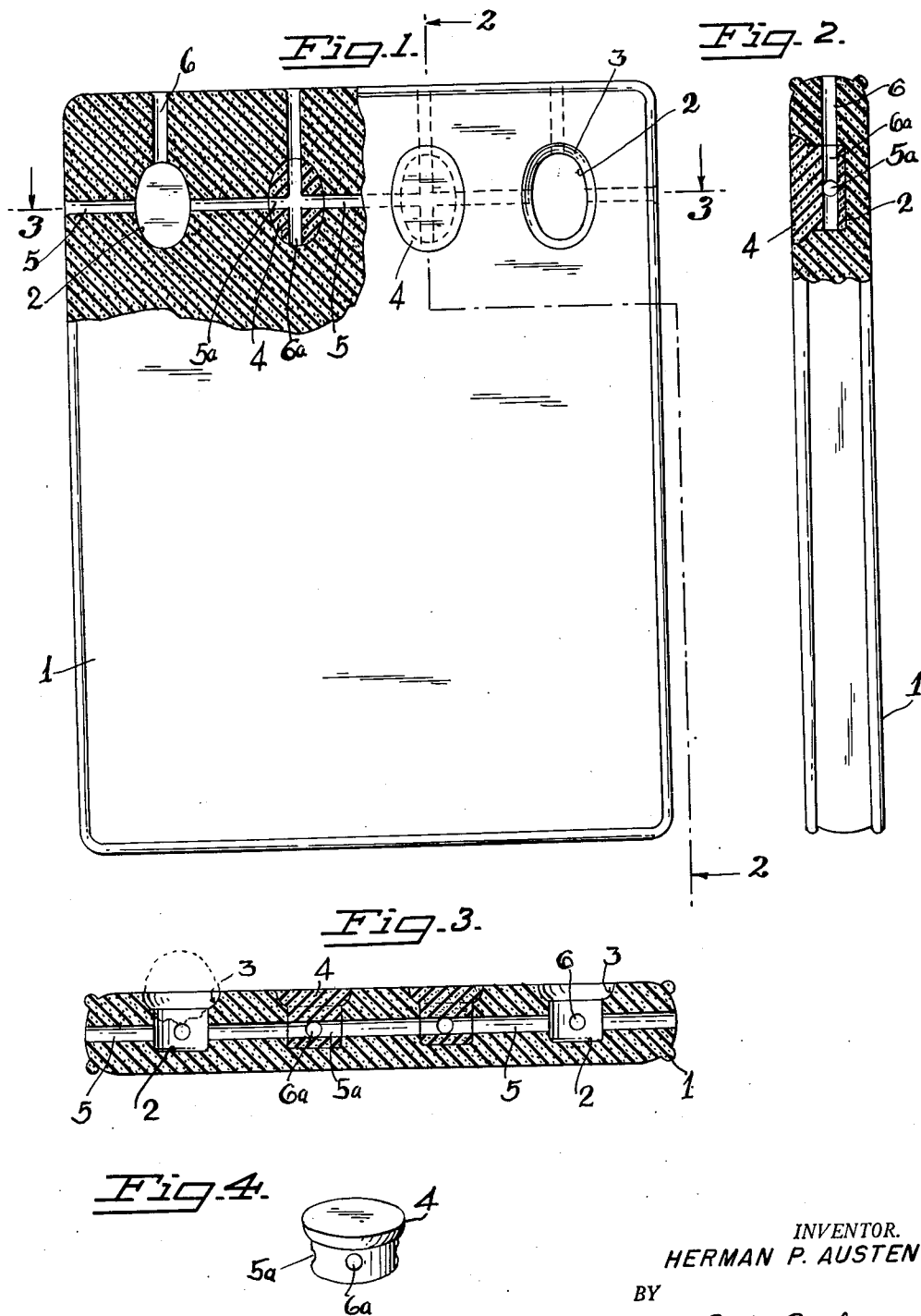
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MATTRESS

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2,807,033

MATTRESS

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2 Claims. (Cl. 5—347)

This invention relates to an improved mattress of the type provided with openings adapted to supply fresh air for breathing purposes when one is in a reclining position facing downwardly.

The present invention provides a mattress having one or more ventilated openings at one end which are adapted to support comfortable breathing when a person is lying on his stomach. The openings are of suitable size and shape to partially receive the face of a person lying on the mattress while at the same time permitting the support on the person's head in a comfortable position. The openings in the mattress or any of them when not in use are adapted to be filled by suitably shaped inserts having air channels permitting the circulation of outside air through the particular opening or openings then being used for breathing purposes.

A mattress of the type embodying the present invention makes it possible for a person to lie comfortably face down and at the same time be assured of fresh circulating air for breathing purposes. It is desirable for several reasons to sleep in a downwardly facing position, but heretofore mattresses in common use have not embodied constructions which have made it possible to lie comfortably in such a position for any appreciable length of time and at the same time be continuously supplied with fresh air for healthful breathing. Sleeping in a downwardly facing position allows the throat and nasal tissues to naturally assume positions permitting easy breathing, thereby tending to eliminate snoring. It is also well known that the digestive organs and the heart function better when one is lying on his stomach in a comfortable downwardly facing position wherein breathing is not restricted or otherwise affected by a lack of fresh air.

The primary object of my invention is to provide an improved mattress having one or more suitably shaped openings at one end which are each supplied with circulating air and are of such a size and shape as to permit the comfortable support of the head of a person lying face down on the mattress.

Another object of my invention is to provide a mattress having a plurality of openings of the kind characterized which may be selectively closed by removable inserts having air channels permitting the circulation of air to any of the openings which might be in use to support breathing for one or more occupants then lying face down on the mattress.

Other and further objects of my invention will be pointed out hereinafter or will be indicated in the appended claims or will be obvious to one skilled in the art upon an understanding of the present disclosure. For the purpose of this application, I have elected to show herein certain forms and details of a mattress which is representative of my invention; it is to be understood, however, that the embodiment of my invention herein shown and described is for purposes of illustration only and therefore is not to be regarded as exhaustive of the variations of the invention in the art.

In the accompanying drawing:

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Fig. 1 is a plan view, partly in section, of a mattress embodying my invention;

Fig. 2 is a sectional view taken on the line 2—2 of Fig. 1;

Fig. 3 is a sectional view taken on the line 3—3 of Fig. 1; and

Fig. 4 is a perspective view of one of the inserts adapted to fit inside one of the openings in the mattress.

Referring to the drawing which is illustrative of the principles of my invention, the numeral 1 designates a mattress of single or double width, made from sponge rubber or any other suitable material, and preferably having substantially the same thickness throughout.

The mattress near one of its ends is formed with a plurality of suitably shaped spaced openings 2 which are arranged preferably in transverse alignment. The openings 2, for illustration purposes, are shown on the drawings as having a somewhat oval shape and having a depth extending to points above the bottom surface of the mattress but below a longitudinal plane passing centrally and horizontally therethrough. The openings 2 are preferably of the same size and shape and each is suitably enlarged near its upper end to provide an oval shaped curved shoulder 3 forming a smooth surface against which a part of a person's face may rest when he or she is in a reclining face down position on the mattress, as shown by the broken lines in Fig. 3. The openings 2 and the shoulders 3 are of sufficient size and shape to permit a person's face to be supported so his or her nose and mouth extend into an opening without coming into contact with the mattress. It is to be noted that the openings 2 may embody other suitable shapes, but it is to be preferred that each be formed with a properly shaped face engaging surface or shoulder 3 near its upper end which will comfortably support a person's head when lying face down on the mattress.

In accordance with my invention, I provide a number of inserts 4 of sponge rubber or other suitable material which are shaped to fit snugly inside the openings 2 with their upper sides flush with the upper surface of the mattress.

So as to provide for the free circulation of fresh air through each of the openings 2 for breathing purposes, I provide the mattress with connecting horizontal transverse air channels 5, the outer two of which extend from the lateral sides of the mattress to the two openings adjacent such lateral sides. In addition, the mattress is provided with a number of air channels 6 extending from that end of the mattress located nearest the openings 2 to and in communication with such openings. The air channels 5 and 6 lie preferably in a common horizontal plane, and they communicate with the openings 2 at points near the lower ends of the latter, and air from outside is free to circulate through those openings which do not happen to be closed by the inserts 4. So as to allow the outside air to reach and circulate through one or more openings 2 even though one or more of the others might be closed by an insert or inserts 4, each of the inserts is formed with intersecting air channels 5a and 6a which are so arranged that they communicate respectively with the air channels 5 and 6 of the mattress. The inserts 4 are constructed so they are interchangeable with respect to the openings 2.

While the mattress shown on the drawing is adapted for use with a double bed and is provided with four (4) openings 2, it is to be understood that such a mattress may have only two (2) of such openings or even one (1), if so desired. Similarly the width of the mattress may be such that it fits a single bed, and if so desired, such mattress may have either one or two openings 2 with suitable interconnecting air channels.

What I claim is:

1. A mattress of the kind characterized comprising a mattress body capable of supporting a person in a reclining position and having one end portion formed with a plurality of spaced openings, each extending from the upper surface of such body to a point adjacent but above the bottom surface thereof, the said openings each being of sufficient size and shape to receive at least the nose portion of a person's face, a plurality of transverse air channels connecting the openings with each other and with the side edges of the mattress body, and removable inserts fitting into and filling one or more of the openings, and air channels extending through the inserts and arranged in communication with the transverse air channels.

2. A mattress of the kind characterized comprising a mattress body capable of supporting a person in a reclining position and having one end portion formed with a plurality of spaced openings each extending from the upper surface of the mattress body to a point near but above the bottom surface thereof, the said openings being of sufficient size and shape to receive at least the nose portion of a person's face, a plurality of transverse air channels connecting the openings with each other and

with the side edges of the mattress body, a plurality of end air channels connecting the openings with the adjacent end of the mattress body, all of said air channels being normally open and arranged to convey air in different directions to and from the openings, a plurality of inserts removably fitting in and closing one or more of the openings, and a plurality of intersecting air channels in the inserts, the said intersecting air channels being in communication with certain of the transverse air channels and with certain of the end air channels.

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