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A. M. BELIAN

2,184,808

BED OR SEAT COVER OR CUSHION

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Fig. 1.

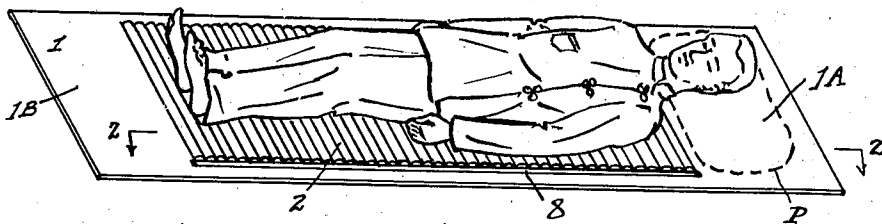


Fig. 2.

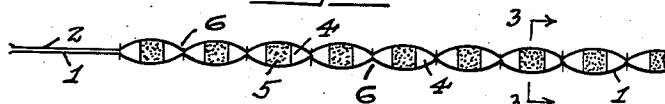


Fig. 3.

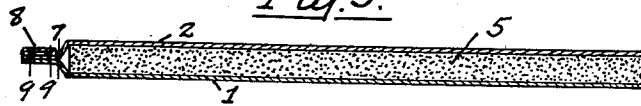
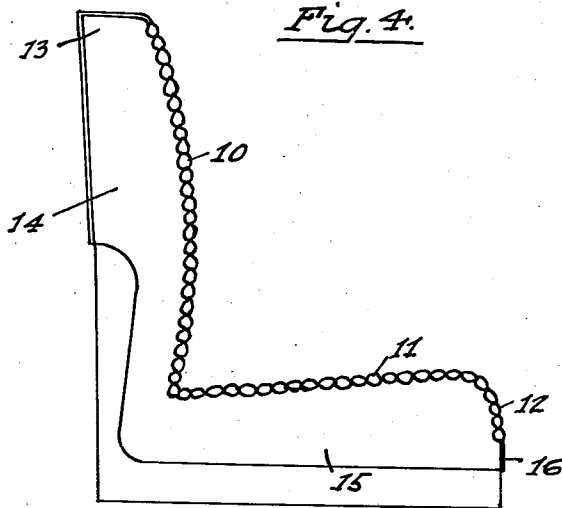


Fig. 4.



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UNITED STATES PATENT OFFICE

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BED OR SEAT COVER OR CUSHION

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3 Claims. (Cl. 5—347)

My invention relates to bed or seat covers or cushions, and its principal object is to provide a resilient cooling and ventilating pad or cushion formed from fabric or other flexible material which is constructed with transverse air passages and resilient fillings so arranged that, when superposed upon a mattress or upon the seats or backs of chairs, couches, and automobile seats, it will conform yieldingly to the contours of the human body and at the same time allow an efficient air circulation between the body and the supporting surface.

When applied to a bed in place of the conventional bed sheets, the air circulation between the body and the cushion avoids the accumulation of heat and consequent perspiration and clammy feeling of the body which usually causes the would-be sleeper to toss about continually in the effort to find relief. When used for hospital purposes it virtually eliminates all traces of bed soreness which so frequently retards the recovery of the patient and, further, its washable qualities are of great advantage from a sanitary point of view.

When applied to the backs and seats of automobiles, an especially improved condition is provided in respect to the driver's seat, eliminating the usual tired feeling in the back and shoulders of the driver.

Another object of my said invention is to provide a pad or cushion of the kind referred to which can be used over long periods without permanent deformation or loss of resiliency.

A further object of my said invention is to provide a pad or cushion which is simple in construction, light in weight, and economical to manufacture, so that it may be produced at a cost which is trifling having regard to the comfort derived from it.

With these and other objects in view, I will now describe a preferred embodiment of my invention with reference to the accompanying drawing, in which—

Figure 1 is a perspective view showing one form of my improved pad or cushion as applied to an ordinary bed or couch.

Figure 2 is a fragmentary longitudinal section taken on line 2—2 of Figure 1 and drawn to an enlarged scale.

Figure 3 is a fragmentary transverse section taken on line 3—3 of Figure 2.

Figure 4 is a diagram showing the application of my invention to an automobile seat.

Like characters designate corresponding parts throughout the several views.

In the drawing 1 designates the lower sheet or

foundation of plain or rubberized fabric or other flexible material on which is superposed an upper layer 2, the upper and lower layers being connected together at intervals of about one inch by sewing the two layers together in a transverse direction, thus forming a series of tubular spaces 4 which are partially filled with filling 5 preferably of soft sponge rubber having a cross section of about one-quarter inch to three-eighths inch square.

Thus it will be seen by reference more particularly to Figure 2 of the drawing that, when the cushion rests upon a supporting surface, transverse air spaces are provided in the unfilled portions of the spaces 4 as will as in the spaces 6 between the adjacent tubular structures. In order to secure the fillings 5 in position endwise, the upper layer of fabric is secured by a longitudinal row of stitching to the lower layer, as indicated at 7 in Figure 3, and then, in order to stiffen the pad as a whole, there is added an additional strip of material 8 having its edges bent under and secured by two rows of stitching as indicated at 9 to the main body of the cushion. The lower layer of material 1 is provided at the head end with a considerable length of plain material 1A adapted to receive a pillow, marked P in broken lines, and at the foot of the pad a length of plain material 1B is provided which is adapted to be folded over the mattress so as to retain the cushion or pad in position.

When used as a detachable cover for application to the seat of an automobile, as shown in Figure 4, the transverse tubular portions extend downward over the back as indicated at 10, over the seat 11 and over the front edge of the seat 12, and the marginal edges of the fabric in this case are made wide enough to extend over the top as at 13, over the sides as at 14, and over the seat portion as at 15, 16, so as to automatically retain the resilient ventilated portions in position without the use of buttons or other fastenings, whereby removal of my improved pad for cleaning purposes is greatly facilitated.

While I have herein described a preferred form of my invention, it will be readily understood by those skilled in the art to which the same relates that various modifications in detail and changes in material may be made to meet any particular requirements without departing from the spirit of my invention as defined in the appended claims.

Having thus described my said invention, what I claim and desire to secure by Letters Patent of the United States is:

1. A cooling cushion comprising upper and

lower sheets of flexible material connected together by rows of stitching disposed in parallel spaced relation so as to form a plurality of elongated cushion spaces, said spaces being closed at their ends and having therein strips of sponge rubber centrally disposed therealong so as to provide air chambers on each side thereof.

2. A cooling cushion comprising upper and lower sheets of flexible material connected together by rows of stitching disposed in parallel spaced relation so as to form a plurality of elongated cushion spaces, said spaces being closed at their ends and having therein strips of sponge rubber centrally disposed therealong so as to provide substantially triangular air chambers on

each side thereof, whereby a combination of rubber-cushioning and air-cushioning is obtained.

3. A cooling cushion comprising upper and lower sheets of flexible material connected together by rows of stitching disposed in parallel spaced relation so as to form a plurality of elongated cushion spaces, said spaces being closed at their ends and having therein strips of sponge rubber centrally disposed therealong so as to provide substantially triangular air chambers on each side thereof, whereby a combination of rubber-cushioning and air-cushioning is obtained and a plurality of open air spaces are formed between the several cushions.

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