

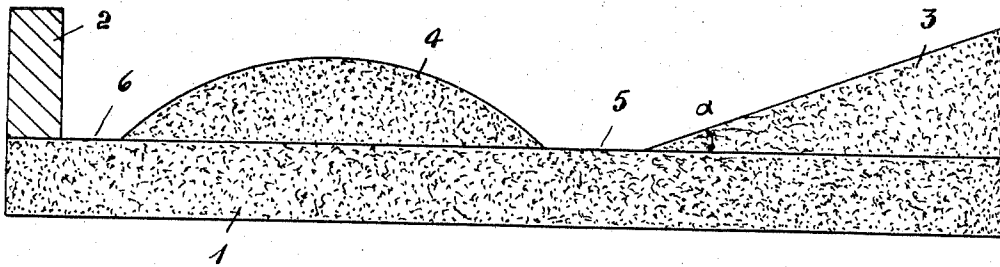
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MATTRESS OF NOVEL SHAPE

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MATTRESS OF NOVEL SHAPE

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ABSTRACT OF THE DISCLOSURE

A mattress with a rigid foot element extending upwardly above the height of the feet of a person lying on his back on the mattress. The element supports an upper bed sheet and cover so that these clear the person's feet and allow circulation of air. A support of arcuate cross-section for the person's knees is arranged on the mattress. A support of right angle cross-section, for the head and neck of a person is secured at the head of the mattress.

The present invention relates to a mattress of novel shape, which is intended to assure to a person's body the maximum rest and relaxation while improving circulation.

There are already known in this art various types of mattresses having uneven surfaces, but the best of these mattresses has heretofore presented only imaginary results or very limited ones, such as may be found in camping mattresses. Their manufacture has been difficult and because of uncertain results, commercial production was not possible.

A mattress constructed according to the invention can be produced in a simple manner and at a low cost, will find general application and will give excellent results.

It is characterized by a mattress base of usual shape, usual materials, but which is provided with projecting elements which form additions on the upper surface of the mattress, one of the elements being mounted at the head of the mattress and forming a right triangle rectangle in longitudinal direction disposed on its means side, another element being disposed at the foot of the mattress in the same longitudinal direction and having a vertically extending rectangular cross-section and a third element arranged between the two others and having, in the same direction, the shape of an arc of a circle disposed on its cord.

The head element of this mattress is intended to hold the head and the back of the user, the central element the limbs and the foot element the weight of the bed sheets and blankets, so that these would not bear on the user's feet. The spaces between these elements serve to receive the fleshy part and the sleeper's soles, respectively.

For a better understanding of the invention, it has been described in the accompanying drawing, which represents schematically, in longitudinal direction, an embodiment of a mattress according to the invention.

The mattress shown, comprises a base 1 made like usual mattresses, of a material having a certain elasticity, such as: horse hair, wool, springs, kapok, foam latex, down, etc. This base 1 has the usual thickness of a mattress, for example 15 cm.

On the base 1 there are mounted several fixed or mov-

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able elements, intended to give upper face of the mattress a particular profile.

At the foot of the mattress there is mounted a projecting element 2 of substantially rectangular shape, which rests on the base 1 with one of its small bases. The height of this element 2 is such that it is capable of supporting the upper bed sheet, the blankets, to relieve the sleeper's feet from their weight; a height of 25 cm. is considered convenient. Advantageously, the length of the base 1 may be of usual mattress length; according to the variation of the upper lines, the useful part of the mattress is sufficiently elongated to enable the securing of the element 2 on the base, said element being normally about 10 cm. in size.

This element 2 may be made of any, preferably hard, material.

At the head of the base 1 there is provided an element 3, representing a triangle rectangle, whose acute angle α is appropriately about 20° . The element 3 is made of usual mattress material, identical with or different from that of the base 1.

Between the head element 3 and the foot element 2, there is disposed, on the base 1, a third element 4, leaving between these two elements spaces 5 and 6 intended to support the fleshy part and the soles, respectively, of the user. The element 4, in the shape of an arc of a circle resting on a base by its cord, is likewise made of usual mattress material and has a base of about 80 cm. and a top surface of about 15 cm. This element 4 is intended to support the individual's limbs.

A mattress constructed according to the invention, comprising a base 1 and elements 2, 3 and 4 assures the user a maximum of rest and relaxation.

The preferred dimensions given above relate to a mattress of 1 m. 90 cm., the lengths of elements 3 and 4 varying in proportion to the length of the intended mattress, as do the lengths of the separations between the elements.

Such a mattress may be made of one piece or of conforming elements which may be secured on the base in any chosen manner.

Such a mattress may be equally provided with these elements singly or solely on a part of its area. It may readily be utilized by individuals or it may be greatly useful in clinics, hospitals etc.

I claim:

1. A mattress of novel shape, comprising a base of resilient material, a plurality of upwardly projecting spaced elements integrally mounted on the upper surface of said base, one of said elements being secured to the head portion of said surface and having a cross-section of a right triangle disposed on its longest side for supporting the head and neck of a person, a second, rigid element disposed at the foot of said mattress surface, said second element having a rectangular cross-section disposed with its longer side upwardly of said mattress surface, for supporting an upper bed sheet and cover, said second rigid element being of a height sufficient to support the cover above the upwardly extending feet of a person lying on the mattress, and a third element disposed centrally of said first and second elements and spaced therefrom, said third element having in cross-section, the shape of an arc of a circle disposed on its cord and arranged to

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underlie with its top portion the knees of a person reclin-
ing on his back on said mattress.

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