result, one of the users must feel uncomfortable when sleeping because the hardness level of mattress does not fit with his body profile. Furthermore, the changing needs for hardness level of proper mattress for him and/or his spouse may caused due to an age, health, pregnancies, body weight, injuries factors, etc. The mattresses were initially fit then could be no longer appropriate because of those changes.

Summary

The invention is defined in the independent claim. Further embodiments of the invention are defined in the dependent claims.

According to the problems mentioned above, various embodiments aim to overcome the existing problems by providing a mattress with adjustable hardness and comfort levels by the user thus able to provide more comfortable sleeping.

The mattress with adjustable hardness and comfort levels includes the surface cover layer, first comfort layer, second comfort layer and hollow space made of foam at the bottom.

This mattress provides the flexibility for consumers to change materials arrangements in the mattress or commonly known as a comfort layers to achieve the most appropriate hardness level according to his body profile independently for the users on the left and right sides of the mattress. Consumers may also change the hardness level of their mattress easily as they desired by opening the zippers, adhesive or buttons to take the comfort layers contained in the mattress anytime.

These comfort layers are independently separate parts on each side that would be ravished by the user; on the left and right sides of mattress. Thus each spouse may adjust the most suitable hardness level itself against his body profile on the side of his mattress without affecting the hardness level of his spouse.

The adjustable comfort layers includes one or more materials in the form of foam, latex, synthetic fibers,

surface cover layer (A), comfort layer (B) and comfort layer (C) thus the hardness and comfort levels on each side may be different. The surface cover layer (A) is a layer or cover panel of mattress surface ravished by the user and it may be opened partially or entirely thus the user may take and arrange the comfort layers (B) and (C).

In this embodiment, the first comfort layer (B) and the second comfort layer (C) may be made from foam, latex, synthetic fibers, natural fibers, gels or a spring materials.

In this embodiment, the installation of layer (A) to the hollow frame (D) made of foam may use Velcro, zippers or buttons adhesives.

The mattress may include only the comfort layers to be received in the hollow space.

The mattress may further include springs as part of a buffer layer.

It should be noted that without departing from the spirit and scope of the invention, the implementation of the embodiments of the present invention is not limited to the shape, size, dimensions, models, and the placement of arrangements order. The embodiments described above are merely illustrative to clarify the new and simple techniques. The applicant believes that this technique has never been used by the mattress manufacturers both domestically and overseas.

Claims:

1. A mattress with adjustable hardness level by a user, the mattress comprising:

a surface cover layer (A) that could be opened partially or entirely by the user;

a first comfort layer (B) and a second comfort layer (C) wherein the first and second comfort layers have different hardness properties thus when the arrangements are changed and a surface of each of the first and second comfort layers may be inverted, these create different variations of hardness and comfort levels;

a hollow space (D) made of foam adapted to receive the first comfort layer (B) and the second comfort layer (C),

wherein the surface cover layer serves to cover a surface mattress when the first comfort layer and the second comfort layer are arranged in the hollow space, and

wherein the surface cover layer is openable relative to the hollow space to provide an opening to allow the first comfort layer and the second comfort layer to be arranged in the hollow space, and further fastenable to the hollow space to close the opening.

2. A mattress according to claim 1, wherein the first and second comfort layers are made of foam, latex, synthetic fibers, natural fibers, gel or spring materials that can be reversed and changed its arrangements order to achieve the most appropriate hardness and comfort levels to the user.

3. A mattress according to claim 1, may be designed for use by two people wherein each user can change the hardness and comfort levels of his own mattress side without affecting the hardness and comfort levels on the mattress sides of other user.

4. A mattress according to claim 1, wherein the mattress comprises only the comfort layers to be received in the hollow space.

5. A mattress according to claim 1, wherein the mattress further comprises springs as part of a buffer layer.

6. A mattress according to claim 1, wherein the surface cover layer of the mattress could be released partially from the hollow space.

7. A mattress according to claim 1, wherein the surface cover layer of the mattress could be released entirely from the hollow space.