

11 Documents

Publication numbers	Title	Current assignees
CA2109875 A1	Heel pillow mattress	HILL ROM SERVICES
CN102920212 A	Biological energy health-care mattress	CHENGDU MENGSIKANG HEALTH PRODUCTS
CN204071336U U	Composite multifunctional health-care bed mattress	WANG QIGUANG
CN201185779U Y	Multifunction composite mattress	ZHUHAI TIANRUI BIOSCIENCES
CN101797106 A	Magnetic bed mattress	ANJI SIRUN MAGNETIC MATERIAL, ...
CN204363505U U	Composite layer latex mattress	YANG SHENGXIANG
CN101502365 A	Multifunctional composite mattress	ZHUHAI TIANRUI BIOSCIENCES
KR200325035U Y1	The pad for mattress	NO CHANG YONG
WO2009111822 A1	A mattress	H BEARD
CN204292676U U	Low-magnetic high-penetration tourmaline multifunctional mattress	WANG WEI
US20150238378 A1	Multi-layered cushioning support	PRS MEDICAL TECHNOLOGIES

cavity provides cushion for the heels of a patient lying on the mattress. A layer of foam covers the top of the cavity containing the pillow insert. This layer of foam has a low indentation force deflection (IFD) to provide a high degree of cushioning for the heels. This layer of foam together with the pillow insert beneath it, provide increased cushioning when a patient's heels apply a downward force on the mattress so that as the heels sink into the mattress, the foam layer and the pillow insert give way to the downward force of the heels and the mattress cradles the heels. The degree to which the heels sink into the mattress is proportional to the load applied. The increased cushion and cradling effect of the heel pillow mattress of the present invention effectively prevents and avoids the creation of pressure sores. The heel pillow mattress is covered by a water and moisture impervious cover.

Inventors

BALONICK ARNOLD

LANKARD LARRY

WYATT CURTIS

Latest standardized assignees - inventors removed

HILL ROM SERVICES

Publication dates

1995-01-08

1995-03-21

1995-04-11

2005-11-08

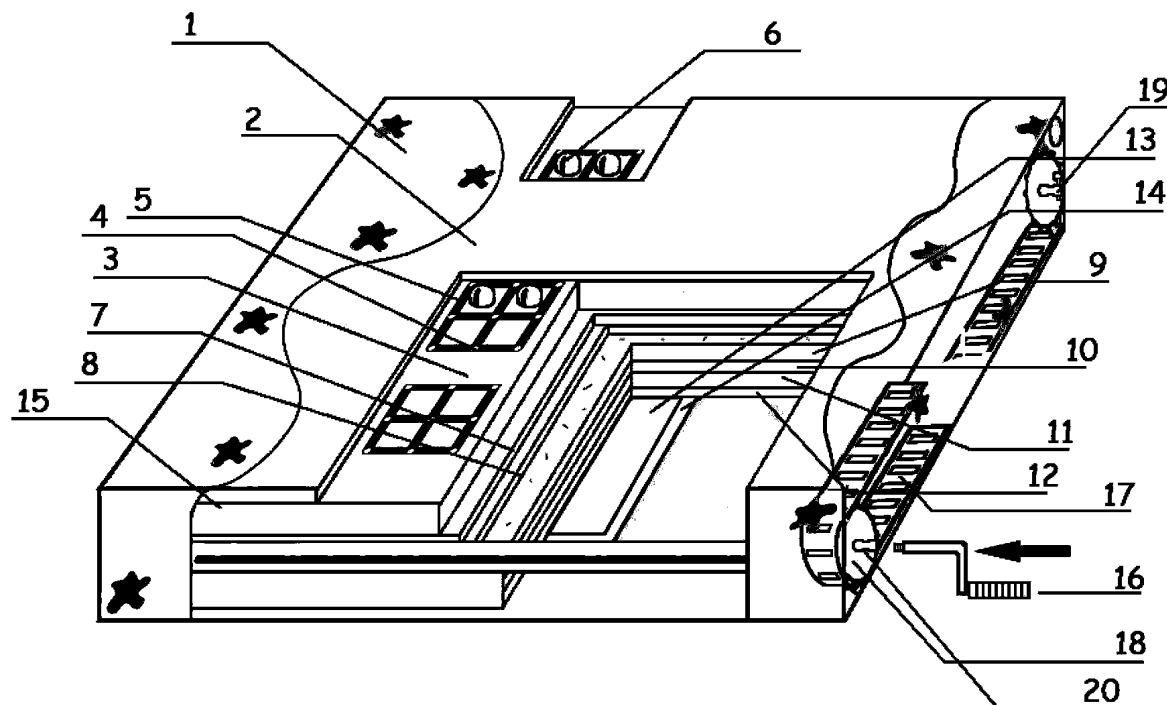
Family 2/11 - FAMPAT - ©Questel

Title

(CN102920212B)

Biological energy health-care mattress

Images



Publication data including kind & date

CN102920212	A	2013-02-13	CN102920212
CN102920212	B	2015-02-04	CN102920212B



Abstract

(CN102920212B)

The invention is suitable for the field of functional mattresses and provides a biological energy health-care mattress. The mattress is formed by a far-infrared functional emission layer, a main body functional power emission layer and an attached

layer from top to bottom. The far infrared functional emission layer sequentially comprises an adjustment layer far-infrared bamboo charcoal fiber blanket, a far-infrared water-resistant oil-repellent VE fabric layer and a tourmaline anion fiber cotton layer from top to bottom, the main body functional power emission layer sequentially comprises a multi-pole permanent magnet layer, a silicon steel connection layer, a polyethylene fixed massage device layer, an environment-friendly ethylene vinyl-acetate copolymer (EVA) macromolecule-three dimensional (3D) reticular structure mattress main mattress layer, natural wool felt and polyurethane foam from top to bottom. The attached layer sequentially comprises a non-woven fabric layer, a polyester silk layer, a brocade layer and an adjustment layer antibacterial deodorant flax summer sleeping mat from top to bottom. The biological energy health-care mattress has very good health-care effect on the human body.

Inventors

ZHOU YUBAO

ZHOU JINJIN

Latest standardized assignees - inventors removed

CHENGDU MENGSIKANG HEALTH PRODUCTS

Publication dates

2013-02-13

2015-02-04

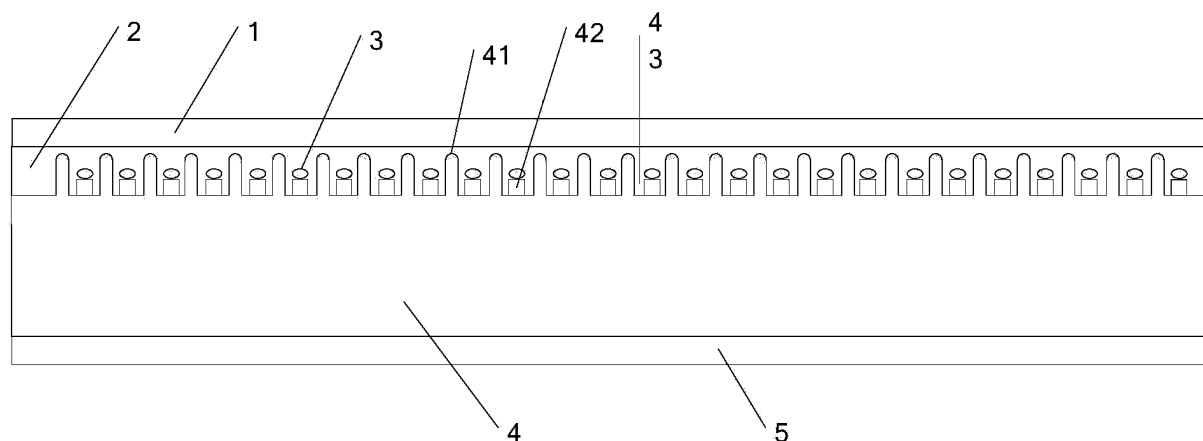
Family 3/11 - FAMPAT - ©Questel

Title

(CN204071336U)

Composite multifunctional health-care bed mattress

Images



Publication data including kind & date

CN204071336

U

2015-01-07

CN204071336U



Abstract

(CN204071336U)

The utility model discloses a composite multifunctional health-care bed mattress, and relates to the technical field of health care articles. The bed mattress comprises a composite function surface cloth layer, an ethyl carbamate foam layer, a high-energy three-dimensional biologic magnetic field layer, a bridging mastoid finger massage cushion body layer and a composite function bottom cloth layer from top to bottom sequentially, wherein a plurality of mastoid balls used for generating finger massage, bases for supporting the high-energy three-dimensional biologic magnetic field layer, moisture removal and temperature adjustment holes and vent grooves are arranged on the upper surface of the massage cushion layer at fixed intervals; and the high-energy three-dimensional biologic magnetic field layer comprises a plurality of magnets inlaid on the bases, the magnets and the mastoid balls are distributed in a staggered and alternating manner, N poles and S poles of the magnets are upward, vent holes matched with the mastoid balls and the bases in the aspect of inner diameter and the position are formed in the ethyl carbamate foam layer respectively, and the number of the vent holes is equal to that of the mastoid balls and that of the bases. With adoption of the composite multifunctional health-care bed mattress, multiple materials are organically composited, and high-density, medium-strength, large-dose, long-time,

omnibearing and slow conditioning is achieved.

Inventors

WANG QIGUANG

Publication dates

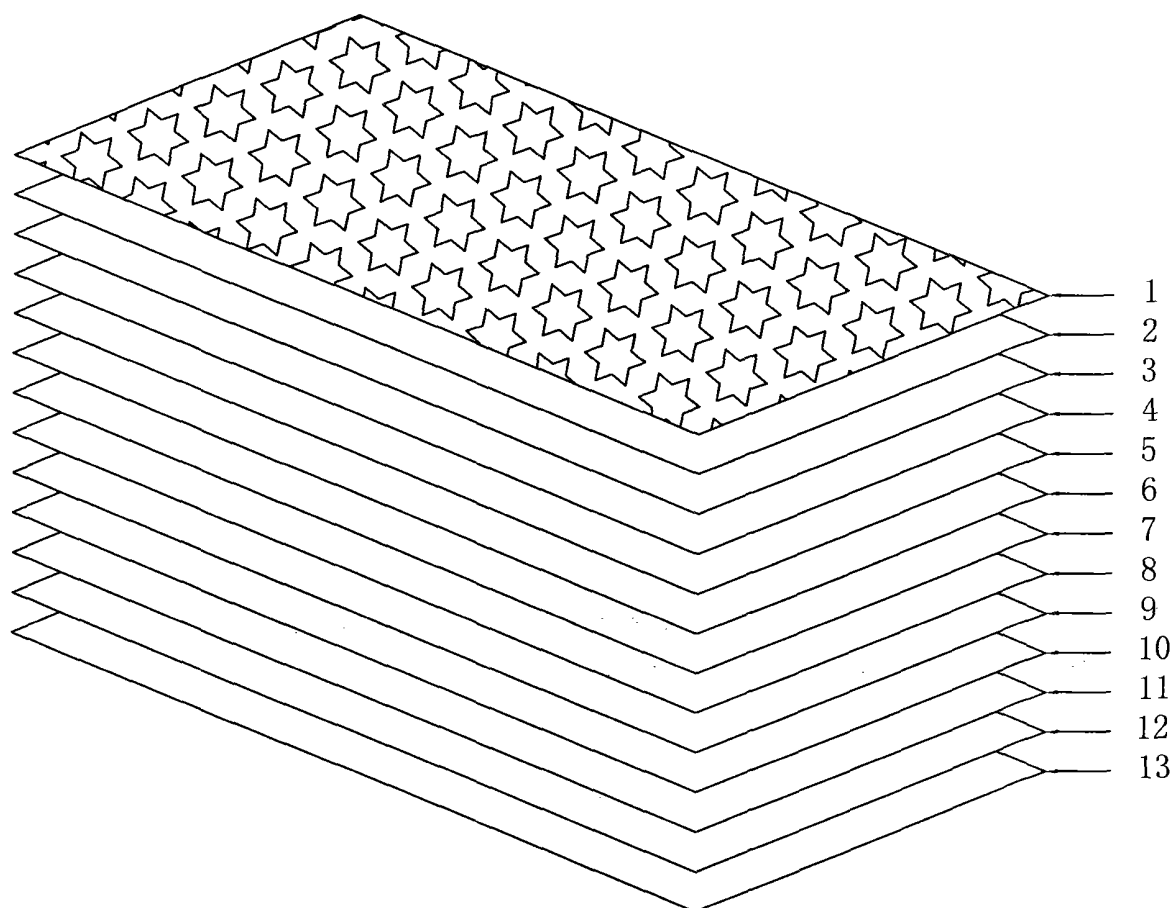
2015-01-07

Family 4/11 - FAMPAT - ©Questel

Title

(CN201185779U)

Multifunction composite mattress

Images**Publication data including kind & date**

CN201185779

Y

2009-01-28

CN201185779U

**Abstract**

(CN201185779U)

The utility model provides a multifunctional composite mattress, having good permeability, good elasticity, temperature adjustment, heat accumulation, humidity elimination, smell removal and mite-resistant functions, which comprises a sheath and a multilayer stuff in the chamber of the sheath, wherein the circumference of the sheath and the multilayer stuff are sewn integrally, the sheath comprises a surface layer and a bottom layer, the multilayer stuff comprises a far infrared heat accumulation combination layer integrally sewn with the surface layer of the sheath, a humidity elimination heat accumulation combination layer integrally sewn with the bottom layer of the sheath, a heat energy layer and a mite-resistant layer which are arranged between the far infrared heat accumulation combination layer and the humidity elimination heat accumulation combination layer.

Inventors

JIN RUI

TANG KUNLUN

Yi Zhongping

WU RONGCHAO

Latest standardized assignees - inventors removed

ZHUHAI TIANRUI BIOSCIENCES

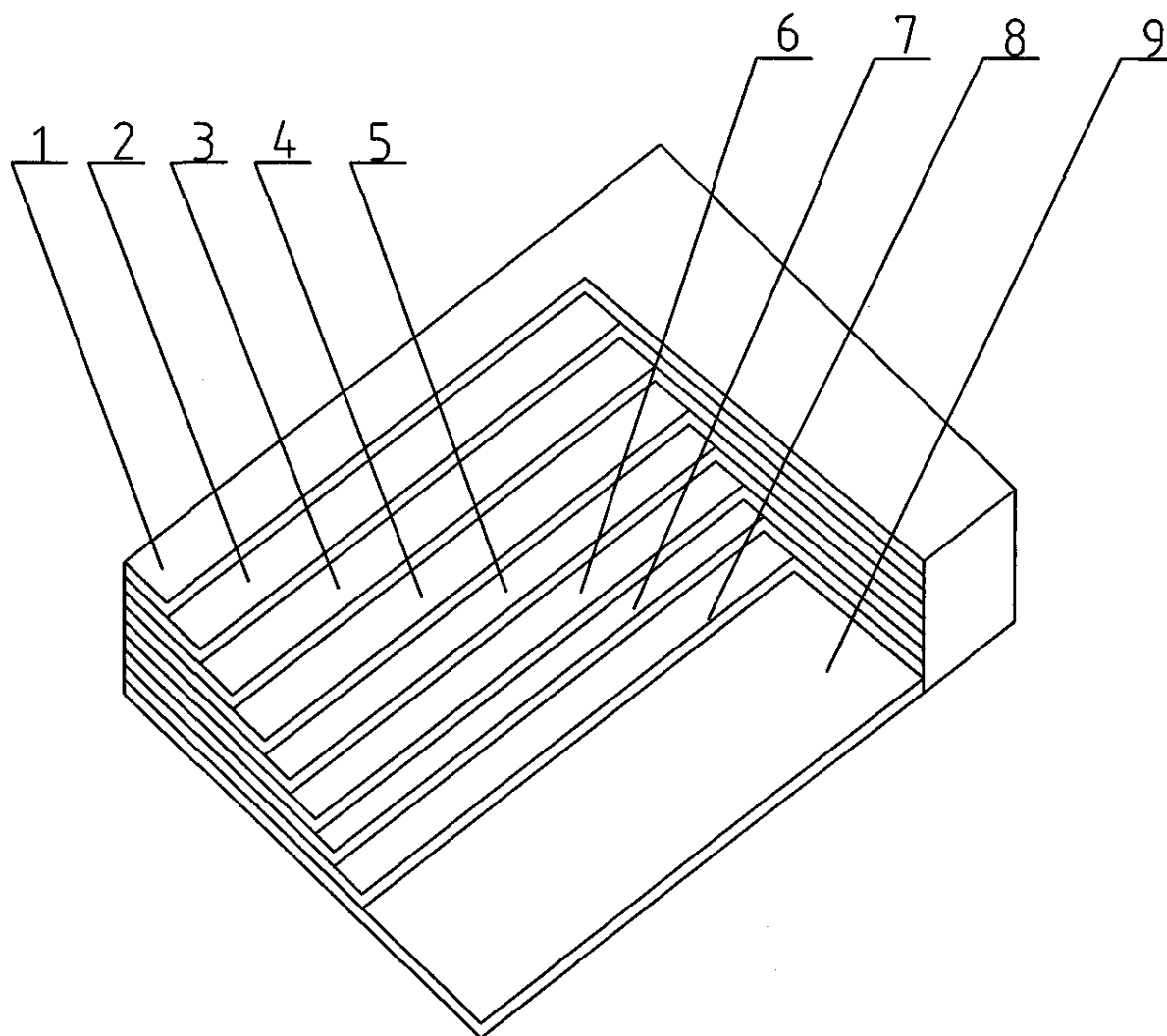
Publication dates

2009-01-28

Family 5/11 - FAMPAT - ©Questel

Title

(CN101797106B)

Magnetic bed **mattress****Images****Publication data including kind & date**

CN101797106	A	2010-08-11	CN101797106
CN101797106	B	2011-11-23	CN101797106B

**Abstract**

(CN101797106B)

The invention provides a magnetic bed **mattress**. The magnetic bed **mattress** adopts a **multi-layer** structure which comprises a pattern cloth **layer**, a tourmaline magnetic fiber **layer**, a nylon cloth **layer**, a non woven cloth **layer**, a wool fiber **layer**, a cotton environmental protection fiber **layer**, a bridging expanded polyethylene **layer** and a wear-resistant woven cotton cloth **layer** in sequence, wherein the a soft magnetic rod **layer** is arranged between the wool fiber **layer** and the cotton environmental protection fiber **layer** or between the cotton environmental protection fiber **layer** and the bridging expanded polyethylene **layer**, the soft magnetic rod **layer** is formed by a plurality of **multi-polar** compound magnetic stripes, and a ratio

of the width w of the compound magnetic stripes to the center distance L between the compound magnetic stripes is 1:1.5 to 1:6. Due to the reasonable distribution of the soft magnetic stripes, the linear **density** and the depth of the surface magnetic fields of the magnetic bed **mattress** more meet the needs of human health.

Inventors

LI JIE

Latest standardized assignees - inventors removed

ANJI SIRUN MAGNETIC MATERIAL

SHANGHAI & ALSO ENTERPRISE MANAGEMENT

Publication dates

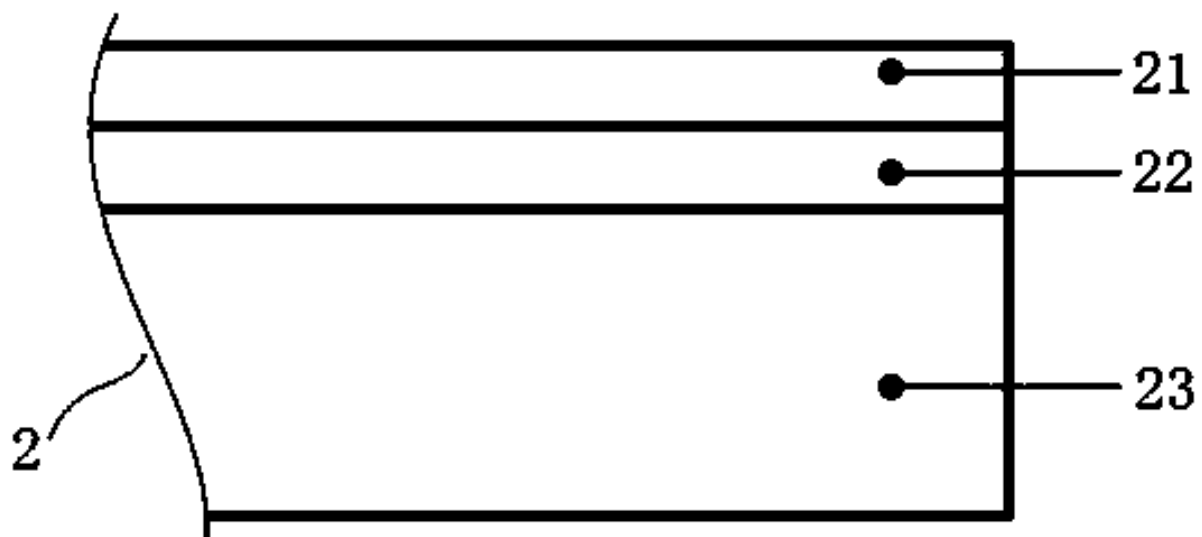
2010-08-11

2011-11-23

Family 6/11 - FAMPAT - ©Questel

Title

(CN204363505U)

Composite **layer** latex **mattress****Images****Publication data including kind & date**[CN204363505](#)

U

2015-06-03

CN204363505U

**Abstract**

(CN204363505U)

The utility model discloses a composite **layer** latex **mattress**. The composite **layer** latex **mattress** comprises a **mattress** jacket and a composite **layer** **mattress** body covered with the **mattress** jacket. The composite **layer** **mattress** body is divided into a latex **layer**, a memory **foam layer** and a sponge **layer**. The sponge **layer** is located on the lower **layer**, the latex **layer** is located on the upper **layer**, the memory **foam layer** is stacked between the latex **layer** and the sponge **layer**, and **multiple** vent holes are distributed in the surface of the latex **layer**. The **mattress** is combined by three layers of materials and is designed in a super silence mode, good breathability is achieved, it is guaranteed that the weight of the body is reasonably scattered, noise is avoided, the whole body is completely released, and sleeping quality is effectively improved.

Inventors

YANG SHENGXIANG

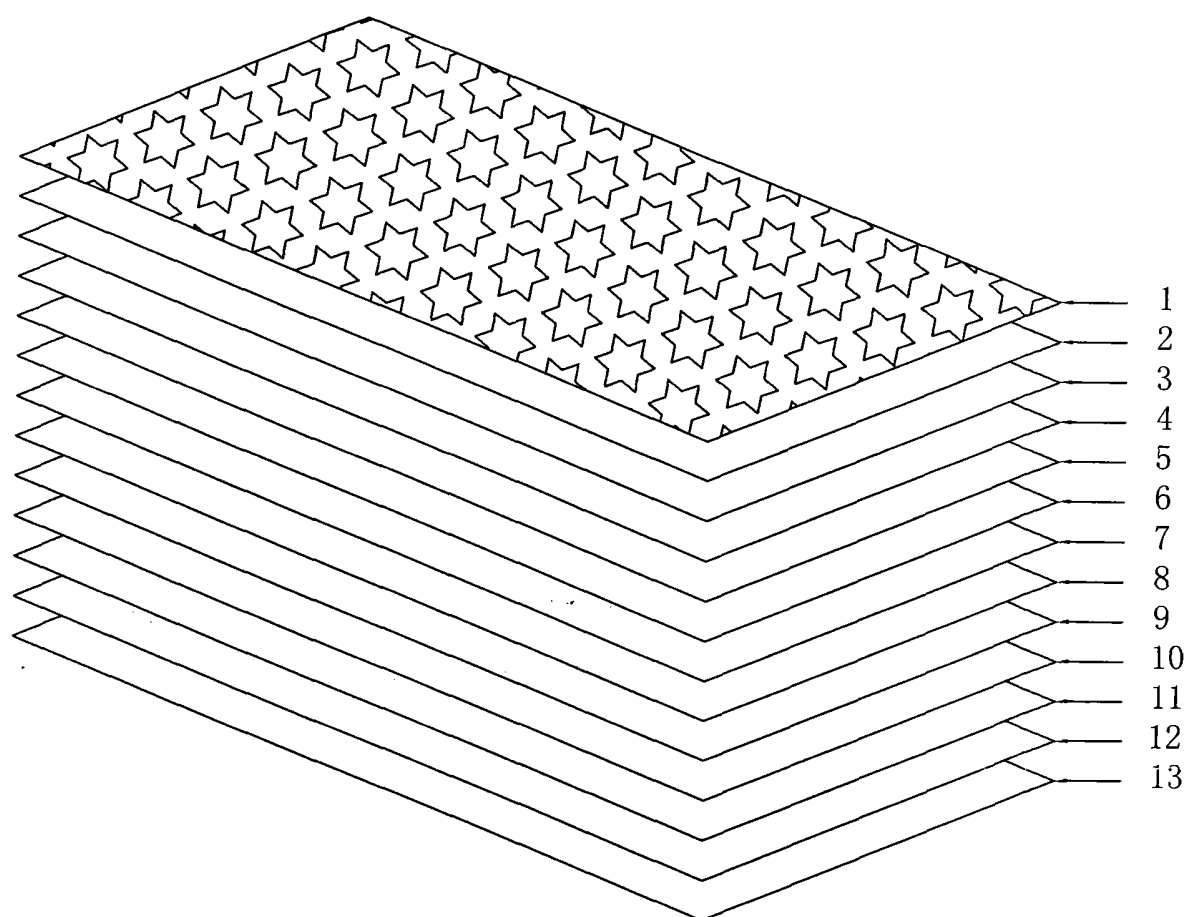
Publication dates

2015-06-03

Family 7/11 - FAMPAT - ©Questel

Title

(CN101502365)

Multifunctional composite **mattress****Images****Publication data including kind & date**

CN101502365

A

2009-08-12

CN101502365

**Abstract**

(CN101502365)

The invention provides a **multifunctional** composite **mattress**, with good air permeability and elasticity, capable of adjusting temperature, accumulating heat, ventilating, removing smell and resisting mites. The **multifunctional** composite **mattress** comprises a coat and **multi-layer** filler in the cavity of the coat, wherein the perimeter of the coat is sewed with the **multi-layer** filler together; and the coat comprises a face **layer** and a bottom **layer**, wherein the **multi-layer** filler comprises a far infrared heat-accumulation combination **layer** quilted with the face surface of the coat and a ventilating and heat-accumulating combination **layer** quilted with the bottom **layer** of the coat, and a heat energy **layer** and a mites-resistance function **layer** between the far infrared heat-accumulation combination **layer** and the ventilating and heat-accumulating combination **layer**. The heat energy **layer** is divided into A and B areas and each area is provided with a set of double-**layer** helix heating wires, namely the heat energy **layer** comprises two sets of double-**layer** helix heating wires; each double-**layer** helix heating wire is crookedly arranged in radiator shape; the double-**layer** helix heating wire is fixed between the filament non-woven fabrics matrix layers.

Inventors

JIN RUI

TANG KUNLUN

Yi Zhongping

WU RONGCHAO

Latest standardized assignees - inventors removed

ZHUHAI TIANRUI BIOSCIENCES

Publication dates

2009-08-12

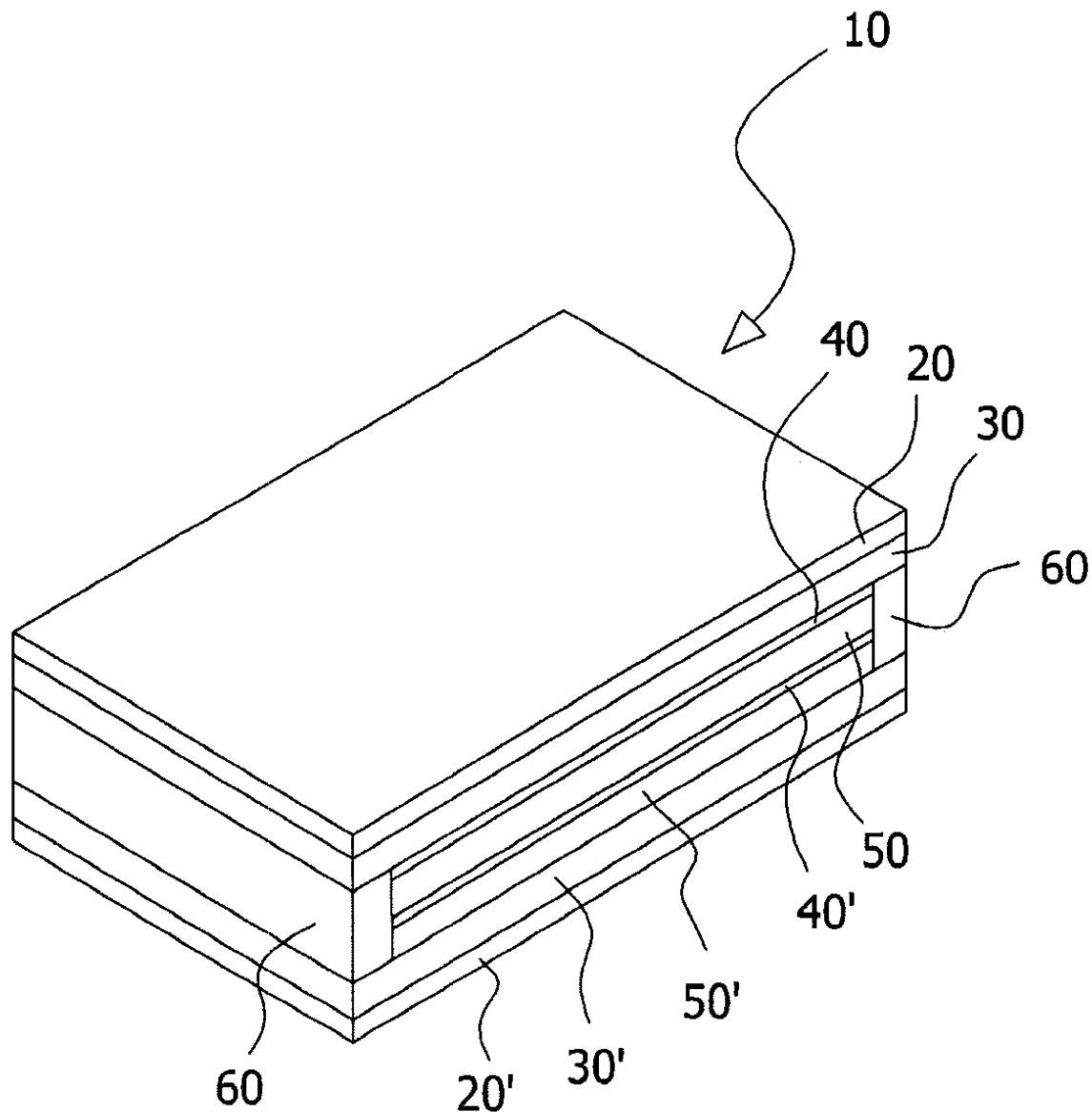
Family 8/11 - FAMPAT - ©Questel

Title

(KR200325035U)

The pad for **mattress**

Images



Publication data including kind & date

[KR200325035](#)

Y1 2003-09-02 KR200325035U



Abstract

(KR200325035U)

This idea composes the **mattress** of the bed about the pad for is the thing.

Specifically within the majority which about under combining is composed the pulley Esters fiber to section and the two-sided additional post emplacement, the outside nonwoven fabrics **layer** and the pulley Esters fiber and the polypropylene fiber to stand upright in high **density**, with the thing the pad respectively with all about under combining in order to compose, the sponge body **layer** which became with the **multiple** line fusion compressive felt **layer** which is composed and the general chemical sponge.

Will be able to maintain the use feeling of optimum, say with together compared with the existing spring **mattress** can promise the curtailment of weight, in order for compared with other **layer** the **layer** where relatively the tension power and the robbery are high to be composed to center of the pad, to movement of the **mattress** usability with the flagship at the same time at the time of load grant of the human body the human body, comfortably, to prop as the Heartwood which

supports function in order, to do and.

Variously about under composing is inflicted according to load degree of the body the **cushion** power to be discriminated **density** of some composition **layer** to the pad, in order to operated, whole will be able to maintain the attitude stability of the body, will do, a sound sleep will be able to maintain, is do.

Inventors

NO CHANG YONG

Publication dates

2003-09-02

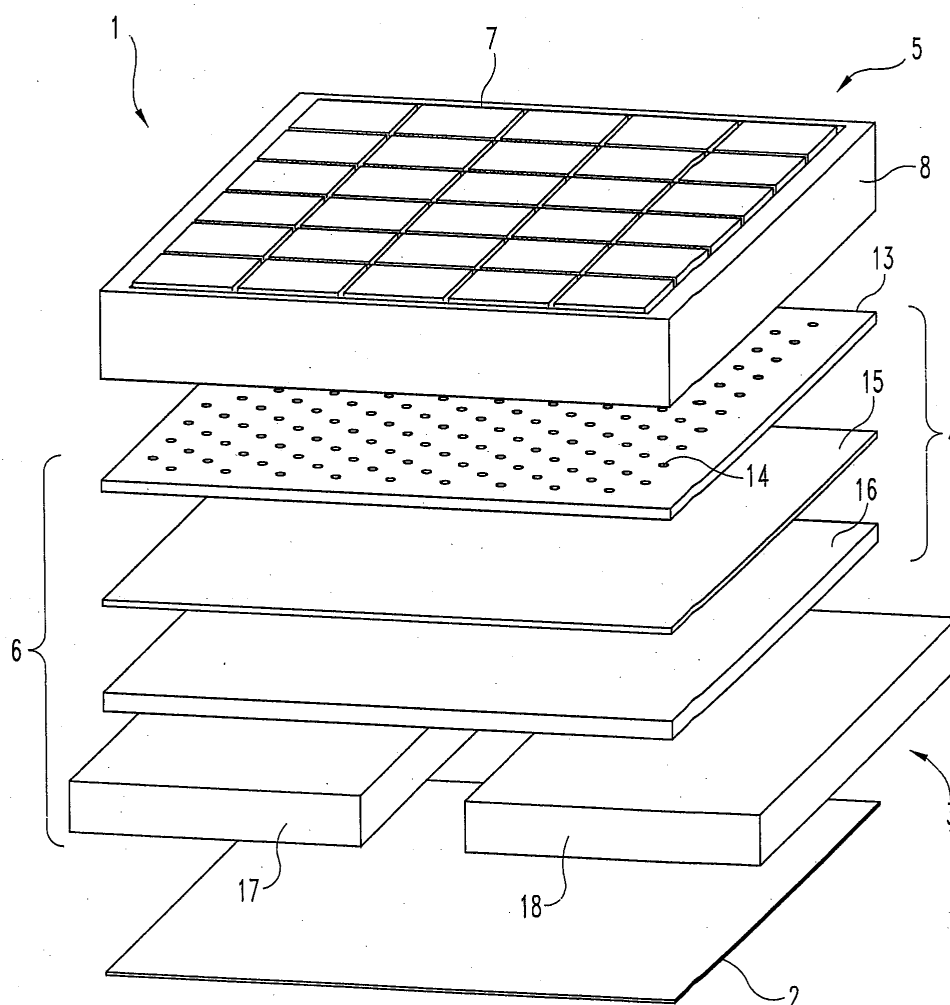
Family 9/11 - FAMPAT - ©Questel

Title

(WO2009111822)

A **mattress**

Images



Publication data including kind & date

WO2009111822	A1	2009-09-17	WO2009111822
AU2009225238	A1	2009-09-17	AU2009225238
US20110047710	A1	2011-03-03	US20110047710
NZ587870	A	2012-05-25	NZ-587870



Abstract

(WO2009111822)

A **mattress** (1) comprises a **mattress** body (6) and **mattress** cover (5) located over the **mattress** body (6) with, the sleep panel (7) of the cover (5) covering the upper surface of the **mattress** body (6).The **mattress** body (6) comprises a comfort **layer** (13) disposed beneath the sleep panel (7) and a resilient support **layer** (3) disposed beneath the comfort **layer** (13).The sleep panel (7) has an upper cover **layer** (9) formed of a breathable fabric and a lower cover **layer** (10) also formed of a breathable fabric.A resilient and highly breathable three-dimensional spacer **layer** (12) is disposed between the upper and lower cover layers (9, 10).The upper cover **layer** (9), spacer **layer** (11) and lower cover **layer** (10) are secured together by quilting or tufting.The cover (5) is removeable.

Inventors

BEARD ALLYN

Latest standardized assignees - inventors removed

H BEARD

Publication dates

2009-09-17

2009-09-17

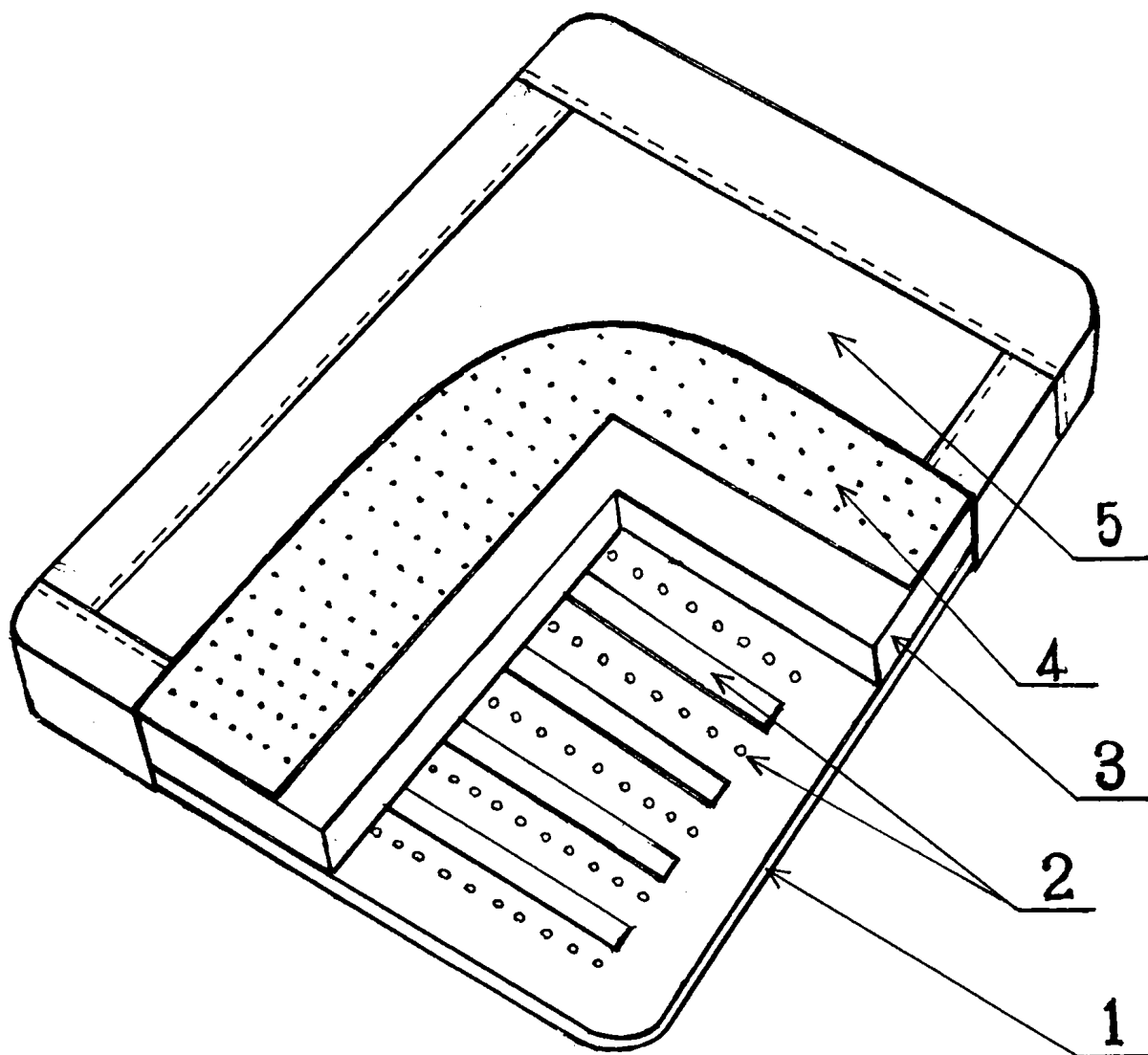
2011-03-03

2012-05-25

Family 10/11 - FAMPAT - ©Questel

Title

(CN204292676U)

Low-magnetic high-penetration tourmaline **multifunctional** **mattress****Images**

CN204292676

U 2015-04-29 CN204292676U

**Abstract**

(CN204292676U)

The utility model relates to a low-magnetic high-penetration tourmaline **multifunctional mattress**. The low-magnetic high-penetration tourmaline **multifunctional mattress** is characterized in that a **layer** of low-magnetic-field (the intensity of the magnetic field is less than 100GS) magnetic device and a tourmaline functional fiber **layer** are additionally arranged in a traditional **mattress** and are combined. When people utilize the product for a long time, under the physical effect of the low-intensity magnetic field, micro current, infrared rays and negative ions, the blood circulation of the body and the metabolism of cells can be continuously promoted, the physique and body immunity can be continuously enhanced, and a purpose of eliminating diseases, keeping fit and prolonging life can be gradually achieved.

Inventors

ZHANG MU

Latest standardized assignees - inventors removed

WANG WEI

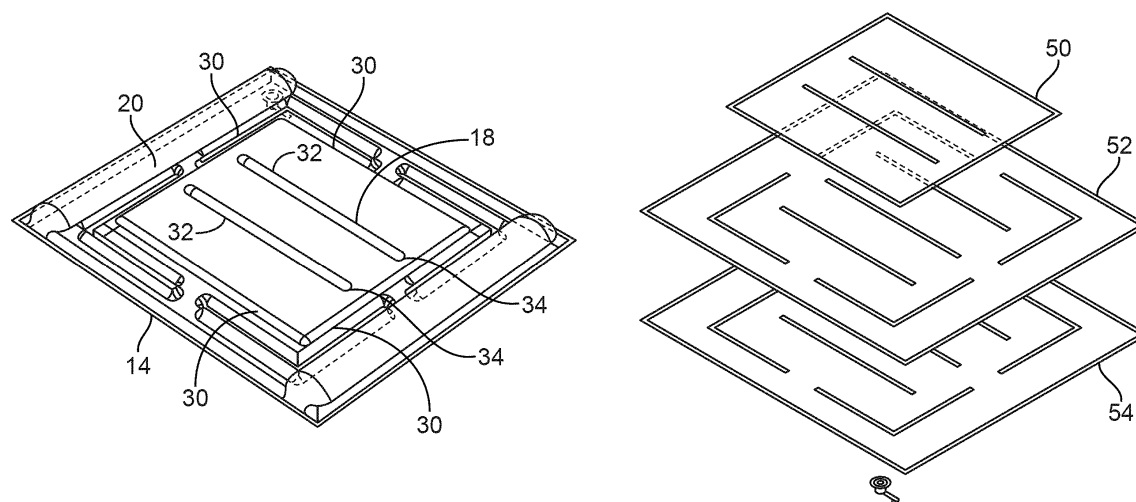
Publication dates

2015-04-29

Family 11/11 - FAMPAT - ©Questel

Title

(EP3110386)

Multi-layered cushioning support**Images****Publication data including kind & date**

US20150238378	A1	2015-08-27	US20150238378
CA2940763	A1	2015-09-03	CA2940763
WO2015130703	A1	2015-09-03	WO2015130703
US9320666	B2	2016-04-26	US9320666
US20160151216	A1	2016-06-02	US20160151216
CN106029035	A	2016-10-12	CN106029035
EP3110386	A1	2017-01-04	EP3110386
IN201617031674	A	2017-01-13	IN201617031674
EP3110386	A4	2017-02-22	EP3110386
JP2017512074	A	2017-05-18	JP2017512074
CN106029035	B	2017-08-22	CN106029035B



[CA2940763](#)

C 2017-10-31 CA2940763

[US10064772](#)

B2 2018-09-04 US10064772

**Abstract**

(EP3110386)

Multi-layer cushion supports are described which may generally comprise a first support having a first contact surface for contacting a portion of a body and a second surface opposite to the first surface, the first support defining a central chamber and a peripheral chamber surrounding the central chamber, wherein the first support is filled with a first gas or liquid and a second support attached to the first support along the first contact surface. The second support may be filled with a second gas or liquid which is relatively more viscous than the first gas or liquid. In particular, the first support may be filled with a volume of air and the second support may be filled with oil which is less than the volume of air.

Inventors

BHAT NIKHIL

CHOI GEORGE Y

LI ALLEN J

BHAT ANUJ

Latest standardized assignees - inventors removed

PRS MEDICAL TECHNOLOGIES

Publication dates

2015-08-27

2015-09-03

2015-09-03

2016-04-26

2016-06-02

2016-10-12

2017-01-04

2017-01-13

2017-02-22

2017-05-18

2017-08-22

2017-10-31

2018-09-04