

Search history

Search 1: PD<20160719 and IC=(A47C27/00) (Results 19042)

Search 2: AB =(*layer* and multi*) and TI=(mattress) and PD<20160719 and IC=(A47C27/00) (Results 229)

Search 3: FT=(density and foam) and AB =(layer* and multi*) and TI=(mattress) and PD<20160719 and IC=(A47C27/00) (Results 12)

Title: WASHABLE **MATTRESS** ASSEMBLY

Abstract: An encasement to enclose a **mattress** base includes a base panel with side panels extendable from the base panel. A first fastener extends around the side panels, and a first panel is fastenable to the side panels by the first fastener to define a first enclosure. The encasement also includes absorbent **foam** (e.g., resilient or viscoelastic **foam**, which may be reticulated and/or attached to a substrate). A second fastener also extends around the side panels, and a second panel is fastenable to the side panels by the second fastener to define a second enclosure to enclose the absorbent **foam**. The second panel can be constructed from a breathable and at least substantially waterproof material. The absorbent **foam** can be configured to be received in a front-loading washing machine (e.g., including **multiple foam** panels arranged in **layers**).

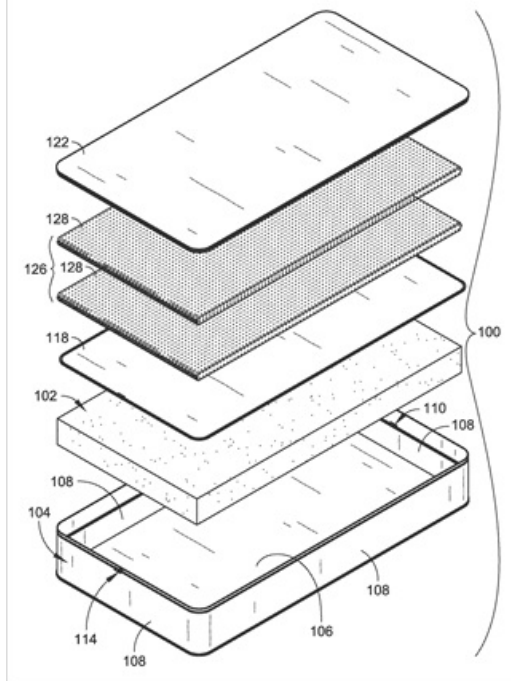
Classifications:

International (IPC 8-9): A47C27/00 A47C31/10 B68G7/06 B68G7/10 B68G7/12 (Advanced/Invention)

CPC: A47C27/006 A47C31/105 A47C27/15

US: 5/484 5/699

PatBase - US2016157625_AA



Family:

Publication number	Publication date	Application number	Application date
US2016157625 AA	20160609	US20150959611	20151204
WO16090258 A1	20160609	WO2015US64012	20151204

Priority:

US20140087936P 20141205 US20150959611 20151204

Probable Assignee: SCHNEIDER BRUCE H

Assignee(s): (std): SCHNEIDER BRUCE H

Inventor(s): (std): PASCHEN ANNE K ; SCHNEIDER BRUCE H

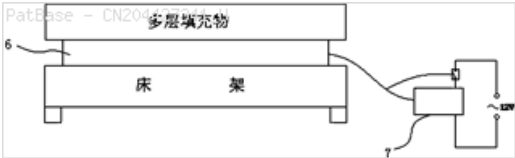
Agent(s): TYSON B BENSON

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: **MATTRESS** WITH ADJUSTABLE HARDNESS

Abstract: The utility model discloses a **mattress** with adjustable hardness. The **mattress** comprises a **mattress** coat, a **multi-layer** filler, an air bag and an air pump, wherein the **multi-layer** filler is located in an inner cavity of the **mattress** coat; the air bag is arranged in the **mattress** coat and is located below the **multi-layer** filler; a lining of the coat is magnetic cloth; the **multi-layer** filler is of a five-**layer** structure, and comprises a high-resilience sponge **layer**, a high-**density** latex **layer**, a constant-temperature slow-recovery memory **foam layer**, a wavelike slow-recovery memory **foam layer** and a slow-recovery memory **foam layer** from top to bottom; and the high-resilience sponge **layer**, the high-**density** latex **layer**, the constant-temperature slow-recovery memory **foam layer**, the wavelike slow-recovery memory **foam layer** and the slow-recovery memory **foam layer** are fixedly connected to form a whole body through water-based cement. The hardness of the **mattress** with the structure can be adjusted aiming at different individual bodies, and while ensuring good support property, the **mattress** can be fitted with the physiological curve of a human body better, so that the **mattress** is relatively comfortable.

Classifications:
International (IPC 8-9): A47C21/06 A47C27/00 A47C27/15 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN204427341 U	20150701	CN201520094836U	20150210

Priority:
CN201520094836U 20150210

Probable Assignee: YIMEI HOUSEHOLD TECHNOLOGY SHANGHAI CO LTD
Assignee(s): (std): YIMEI HOUSEHOLD TECHNOLOGY SHANGHAI CO LTD
Assignee(s): YIMEI HOME TECHNOLOGY SHANGHAI CO LTD ; YIMEI HOUSEHOLD TECHNOLOGY SHANGHAI CO
Inventor(s): (std): CHEN GUANG

Title: ADJUSTABLE **MATTRESS** TOPPER

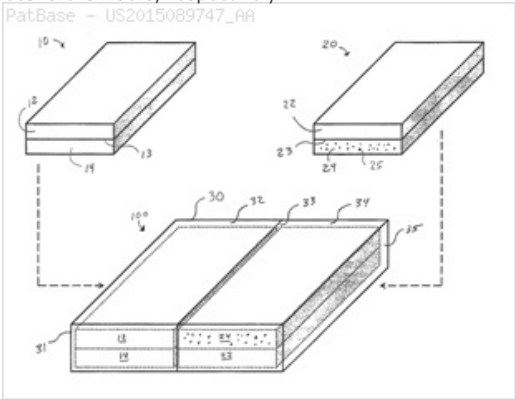
Abstract: An adjustable body support system for accommodating the needed or desired support of **multiple** users. The system comprises an enclosure for housing a first support member and a second support member in respective first and second chambers. The first support member has a first **foam layer** secured to a second **foam layer**, wherein the first and second **foam layers** have different support characteristics. The second support member has a third **foam layer** secured to a fourth **foam layer**, wherein the third and fourth **foam layers** have different support characteristics. The first and second support members are removable from and securable in the first and second chambers, respectively.

Classifications:

International (IPC 8-9): A47C27/00 A47C27/08 A47C27/14
A47C27/15 (Advanced/Invention)

CPC: A47C27/15 A47C27/002 A47C27/088 A47C27/085 A47C27/148

US: 427/202 427/244 5/691



Family:

Publication number	Publication date	Application number	Application date
US2015089747 AA	20150402	US20140491672	20140919

Priority:

US20130880258P 20130920 US20140036216P 20140812 US20140491672 20140919

Probable Assignee: SINOMAX USA INC

Assignee(s): (std): CHEN FENG ; NI GUOZHONG ; ROMERO STEVEN JAMES

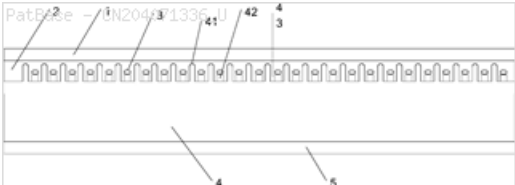
Assignee(s): SINOMAX USA INC

Inventor(s): (std): CHEN FENG ; NI GUOZHONG ; ROMERO STEVEN JAMES

Title: COMPOSITE **MULTIFUNCTIONAL** HEALTH-CARE BED **MATTRESS**

Abstract: 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.

Classifications:
International (ipc 8-9): A47C27/00 A47C27/22 A61H15/02 A61N2/08 A61N5/06 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN204071336 U	20150107	CN201420508344U	20140904

Priority:
CN201420508344U 20140904

Probable Assignee: WANG QIGUANG
Assignee(s): (std): WANG QIGUANG
Inventor(s): (std): WANG QIGUANG

Title: **MATTRESS** ADAPTED FOR SUPPORTING HEAVY WEIGHT PERSONS

Abstract: A **mattress** constructed with **multiple foam layers** joined together provides reclining support with pressure redistribution for heavy weight persons, particularly those weighing over 350 pounds. The **mattress** includes: a core **layer** having a substantially planar top surface and at least two spaced apart regions in a bottom surface from which **foam** material has been extracted to leave cavities separated by an interconnected network of **foam** walls, a top **layer** of viscoelastic **foam** with an air permeability above 60 ft³/ft²/min, and a bottom **layer** of stiffer supporting **foam**. The open cavities of the core **layer** are directed away from the body supporting top surface of the **mattress**.

Classifications:

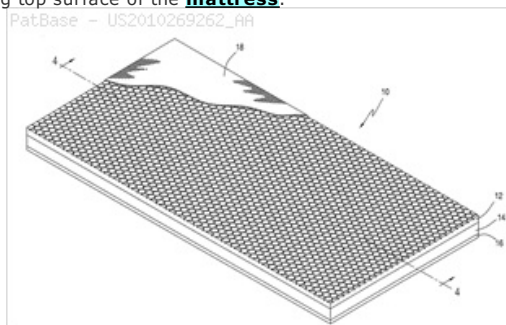
International (IPC 8-9): A47C17/00 A47C27/00

A47C27/15 (Advanced/Invention)

CPC: A47C27/144 A47C27/15

European: A47C27/14C2 A47C27/15

US: 5/655.9 5/690 5/690P 5/730 5/740 5/740P



Family:

Publication number	Publication date	Application number	Application date
US2010269262 AA	20101028	US20090429778	20090424
US2011154576 AA	20110630	US20110026422	20110214
US7886388 BB	20110215	US20090429778	20090424
US8359689 BB	20130129	US20110026422	20110214

Priority:

US20090429778 20090424 US20110026422 20110214

Probable Assignee: FOAMEX INNOVATIONS OPERATING CO

Assignee(s): (std): CONTRERAS JOSE D M ; COVEY KERRY LYNN ; FOAMEX INNOVATIONS OPERATING CO ; FOAMEX INNOVATIONS OPERATING COMPANY ; NIEDEROEST BEAT B ; NETO MARIO F ; FOAMEX LP ; FXI INC ; WARREN STEPHEN C

Assignee(s): SUNTRUST BANK AGENT AS ; US BANK NATIONAL ASSOCIATION ; WACHOVIA BANK NATIONAL ASSOCIATION ; FOAMEX L P

Inventor(s): (std): CONTRERAS JOSE D ; CONTRERAS JOSE D M ; COVEY KERRY LYNN ; MCCABE KERRY LYNN ; NETO MARIO F ; NIEDEROEST BEAT B ; WARREN STEPHEN C

Agent(s): CONNOLLY BOVE LODGE AND HUTZ LLP

Title: SELF-ADJUSTING **MATTRESS** WITH BALANCING BARS AND AN INTEGRATED MOVEMENT MECHANISM

Abstract: A self-adjusting **mattress** includes a support member, top and bottom **foam layers**, a movement mechanism and balancing bars. The support member includes a frame of longitudinal and cross bars and mesh panels between the bars. The support member has a middle section that is pivotally connected to upper and lower sections. The upper, middle and lower sections are coplanar in the flat configuration of the **mattress**. The movement mechanism includes **multiple** electric motors that move the **mattress** into an inclined configuration by rotating the upper and lower sections relative to the middle section. The bottom **foam layer** is molded around the support member. The molded **foam** flows above, below and through the holes in the mesh panels. The top **foam layer** is then glued or molded to the top of the bottom **foam layer**. The balancing bars extend less than half way under the upper section of the support member.

Classifications:

International (IPC 8-9): A47C17/00 A47C17/175 A47C17/86

A47C20/02 A47C20/04 A47C27/00 A47C31/00 A61G7/005

A61G7/065 B68G99/00 (Advanced/Invention)

CPC: Y10T29/481 A47C20/041

European: A47C20/04A

US: 29/91.1 29/91.100S 5/618 5/722 5/722P 5/737 5/737S

JP F-Term: 3B092

JP F-Index: A47C17/175



Family:

Publication number	Publication date	Application number	Application date
AU2010227109 AA	20111027	AU20100227109	20101012
AU2010227109 BB	20111110	AU20100227109	20101012
CA2713668 AA	20111007	CA20102713668	20100819
EP2374376 A1	20111012	EP20100187978	20101019
JP2011218142 A2	20111104	JP20100231420	20101014
KR20110112763 A	20111013	KR20100086490	20100903
US2011247144 AA	20111013	US20100798638	20100407
US8266746 BB	20120918	US20100798638	20100407

Priority:

US20100798638 20100407 CA20102713668 20100819

Probable Assignee: ZINUS INC

Assignee(s): (std): LEE YOUN JAE ; OH SUK KAN ; ZINUS INC

Inventor(s): (std): JAE LEE YOUN ; KAN OH SUK ; LEE YOUN JAE ; OH SUK KAN

Agent(s): MADDERNS PATENT AND TRADE MARK ATTORNEYS; NELLIGAN O BRIEN PAYNE LLP; WINTER BRANDL FUERNISS HUEBNER ROESS KAISER POLTE PARTNERSCHAFT; IMPERIUM PATENT WORKS; DARIEN K

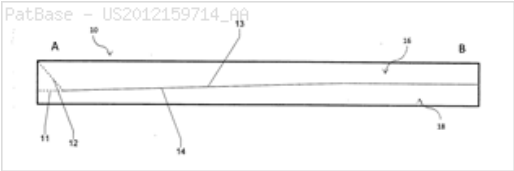
Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Title: **MATRESS**

Abstract: An improved **mattress**, **mattress layer** or **mattress** topper comprising two different materials inversely cut in a gradient manner and laminated or otherwise affixed together to produce a flat surfaced **mattress**, **mattress layer** or **mattress** topper. The affect of this design emulates the profile of the human skeleton. The improved **mattress**, **mattress layer** or **mattress** topper provides a deeper amount of top material in the hip area than in the leg/knee area and an even deeper amount of top material in the shoulder area than the hip area. In several embodiments, the top material is a softer material in comparison to the bottom material. Materials include, but are not limited to, **foam** and latex. The improved **mattress**, **mattress layer** or **mattress** topper may have **multiple layers** of material laminated or otherwise affixed to the present invention.

Classifications:

International (IPC 8-9): A47C27/00 (Advanced/Invention)
CPC: A47C27/056 A47C27/15
European: A47C27/05L A47C27/15
US: 5/690 5/690P



Family:

Publication number	Publication date	Application number	Application date
US2012159714 AA	20120628	US20110065060	20110314

Priority:

US20100425954P 20101222 US20110065060 20110314

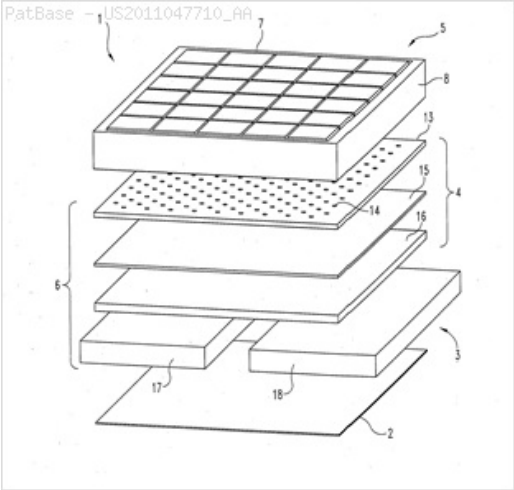
Probable Assignee: CORTRIGHT DAVID MICHAEL
Assignee(s): (std): CORTRIGHT DAVID MICHAEL
Inventor(s): (std): CORTRIGHT DAVID MICHAEL

Title: **MATTRESS**

Abstract: 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.

Classifications:

International (IPC 8-9): A47C27/00 A47C27/14 A47C27/15
A47C27/16 A47G9/00 A61G7/05 (Advanced/Invention)
CPC: A47C21/046 A47C27/15 A47C31/006 A47C31/10
European: A47C21/04B4 A47C27/15 A47C31/00L A47C31/10
US: 5/724 5/724P 5/737 5/737S



Family:

Publication number	Publication date	Application number	Application date
AU2009225238 AA	20090917	AU20090225238	20090310
NZ587870 A	20120525	NZ20090587870	20090310
US2011047710 AA	20110303	US20100879114	20100910
WO09111822 A1	20090917	WO2009AU00281	20090310

Priority:

AU20080901189 20080311 AU20090225238 20090310 WO2009AU00281 20090310
WO2009AU00281 20090311

Probable Assignee: AH BEARD PTY LTD

Assignee(s): (std): A H BEARD PTY LTD ; BEARD ALLYN

Assignee(s): AH BEARD PTY LTD

Inventor(s): (std): BEARD ALLYN

Inventor(s): ALLYN BEARD

Agent(s): SPRUSON AND FERGUSON

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU
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MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY
SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: HEEL PILLOW **MATTRESS**

Abstract: A **mattress** to prevent the creation of pressure sores having a heel pillow portion intended for use in healthcare facilities having replaceable parts is disclosed. The heel pillow **mattress** of the present invention is made of **foam** and has a cavity located at the foot area of the **mattress** for containing a pillow therein. A soft, resilient pillow insert contained within the 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.

Classifications:

International (IPC 8-9): A47C27/00 A47C27/14 A61G7/05

A61G7/057 (Advanced/Invention);

A47C27/00 A47C27/14 A61G7/05 A61G7/057 (Core/Invention)

International (IPC 1-7): A47C27/00 A47C27/15 A61G7/05

A61G7/057

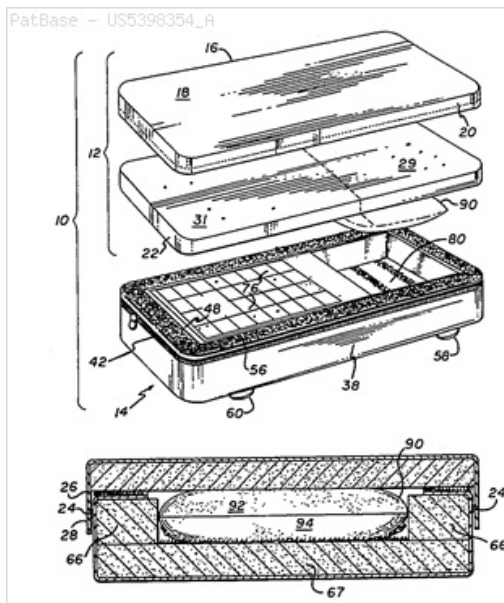
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European: A47C27/14E A47C27/20 A61G7/057C

US: 5/464 5/470 5/481 5/728 5/740 5/922

JP F-Term: 3B096 3B096/AB01 3B096/AB07 3B096/AB08 3B096/AC16 3B096/AD04 3B096/AD07 3B096/BA01 4C040 4C040/AA26 4C040/AA30 4C040/CC10 4C040/GG03

JP F-Index: A47C27/00/D A47C27/00/E A61G7/04 A61G7/05

**Family:**

Publication number	Publication date	Application number	Application date
CA2109875 AA	19950108	CA19932109875	19931124
CA2109875 C	20051108	CA19932109875	19931124
JP7096010 A2	19950411	JP19930315768	19931124
US5398354 A	19950321	US19930088135	19930707

Priority:

US19930088135 19930707 CA19932109875 19931124

Probable Assignee: HILL ROM SERVICES INC

Assignee(s): (std): BG IND INC

Assignee(s): HILL ROM SERVICES INC ; WYATT CURTIS ; LANKARD LARRY ; ENCOMPASS GROUP LLC ; WACHOVIA BANK NATINAL ASSOCIATION ; BII JII IND INC ; ENCOMPASS TSS LLC ; B G IND INC ; B G INDUSTRIES INC ; BALONICK ARNOLD ; BG IND

Inventor(s): (std): AANORUDO BARONITSUKU ; BALONICK ARNOLD ; KAATEISU WAIATSUTO ; LANKARD LARRY ; RARII RANKAADO ; WYATT CURTIS

Agent(s): SMART AND BIGGAR

Title: **MATTRESS** SYSTEM

Abstract: The **mattress** system provides adjustability for individuals. A stack of individual **mattress** elements includes separation sheets to allow the **mattress** elements to flex and compress separately. In a side by side arrangement for adjusting the **mattress** between sides for each of two users, modulator **foam** panels and a movement isolation **foam** block can be provided to reduce disturbance between sides and to make the centerline between sides more comfortable. Between side by side **mattresses** or between the **mattress** and a surrounding **foam** frame, edge separation sheets allow the **mattresses** to move up and down without catching or wearing at the interfaces.

Classifications:

International (IPC 8-9): A47C23/00 A47C23/043 A47C27/00

A47C27/05 A47C27/14 A47C27/15 (Advanced/Invention);

A47C23/00 A47C27/00 (Advanced/Non-invention);

A47C23/00 A47C27/00 A47C27/14 (Core/Invention);

A47C (Subclass/Invention)

International (IPC 1-7): A47C23/00 A47C23/04 A47C27/00

A47C27/05 A47C27/14 A47C27/15

CPC: A47C27/146 A47C27/001 A47C27/15 A47C23/04 A47C27/148

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European: A47C23/00 A47C23/043B A47C27/00B A47C27/14C4

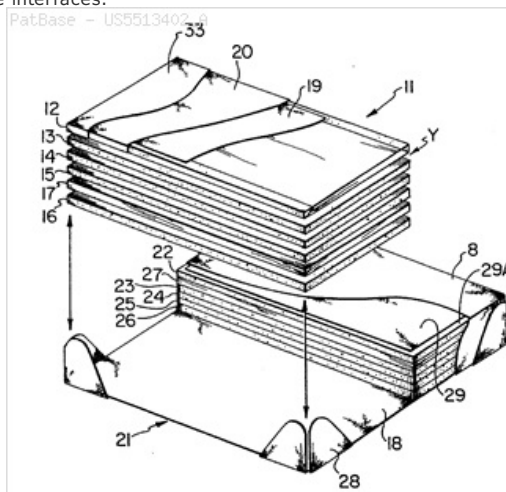
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US: 5/464 5/470 5/481 5/691 5/722 5/727 5/737 5/739 5/740 5/96

JP F-Term: 3B096 3B096/AB07 3B096/AB09 3B096/AC01

3B096/AC11

JP F-Index: A47C27/15/2



Family:

Publication number	Publication date	Application number	Application date
AT134114 E	19960215	AT19920917561T	19920811
AU199224386 A1	19930316	AU19920024386	19920811
AU199517033 A1	19950904	AU19950017033	19950217
AU690889 B2	19980507	AU19920024386	19920811
BRPI9207151 A	19951219	BR1992PI07151	19920811
CA2112895 AA	19940105	CA19922112895	19920811
CA2112895 C	19980804	CA19922112895	19920811
CA2117000 AA	19950905	CA19942117000	19940304
DE69208364 D1	19960328	DE19926008364	19920811
DE69208364 T2	19960919	DE19926008364T	19920811
EP0599922 A1	19940608	EP19920917561	19920811
EP0599922 B1	19960214	EP19920917561	19920811
ES2086133 T3	19960616	ES19920917561T	19920811
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GB2313051 B2	19990324	GB19970017289	19950217
GB9717289 A0	19971022	GB19970017289	19950217
JP7509376 T2	19951019	JP19930503986T	19920811
NO950430 A	19950206	NO19950000430	19950206
NO950430 A0	19950206	NO19950000430	19950206
US5513402 A	19960507	US19940197961	19940217
US5819349 A	19981013	US19960640031	19960429
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Priority:

WO1991CA00295 19910820	BR1992PI07151 19920811	CA19922112895 19920811
WO1992CA00348 19920811	US19940197961 19940217	CA19942117000 19940304
WO1995CA00087 19950217	US19960640031 19960429	

Probable Assignee: SCHWARTZ JACK

Assignee(s): (std): ANATA SYSTEMS INT IN ; ANATA SYSTEMS INTERNATIONAL IN ; SCHWARTZ JACK ; JACK SCHWARTZ

Assignee(s): SCHWARTZ JACK MONTREAL QUEBEC CA ; ANATA SYSTEMS INTERNATIONAL INC ; ANATA SYSTEMS INT INC

Inventor(s): (std): SCHWARTZ JACK

Inventor(s): JACK SCHWARTZ ; SCHWARTZ JACK MONTREAL QUEBEC CA

Agent(s): COLLISON AND CO; SWABEY OGILVY RENAULT

Designated states: AM AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CS CZ DE DK EE ES FI FR GA GB GE GN GR HU IE IT JP KE KG KP KR KZ LI LK LR LT LU LV MC MD MG ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SI SK SN SZ TD TG TJ TT UA UG US UZ VN