

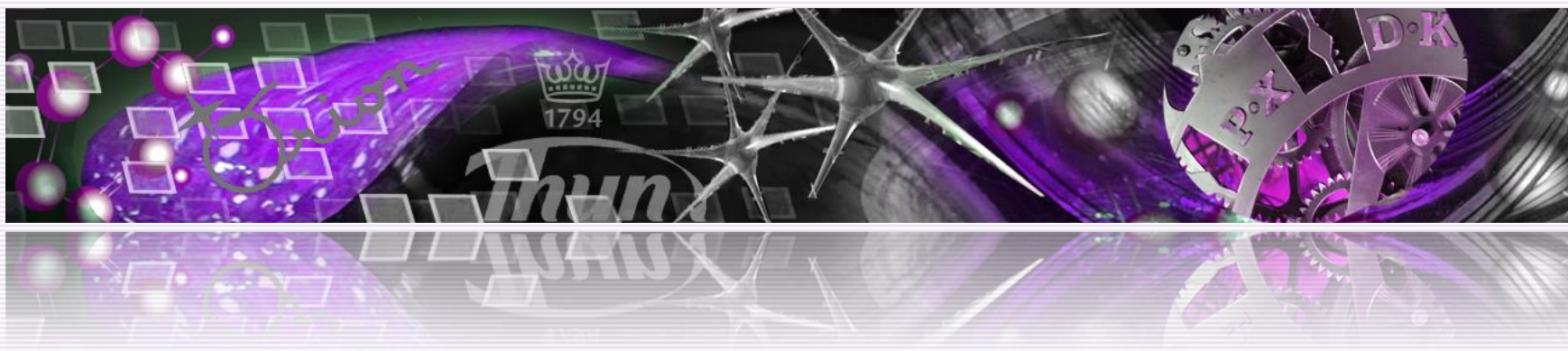


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Hana Churáčková
ÚPV

Brno, MZK, 10. 4. 2019





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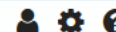


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Analysis

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☐ Side-by-side

Int.Class	Title	Appl.No	Applicant	Ctr	PubDate
					Inventor
1. 212017000134	Griff zum Schieben eines Transportbettes und zum Verbinden eines Infusionsbehälters und des Transportbettes mit diesem Griff			DE	24.01.2019

A61G 7/05

[?](#) 212017000134

Linet spol. s r.o.

Handgriff (3) zum Schieben eines Transportbettes und zum Verbinden eines Infusionsfluidbehälters mit einem Führungsprofil (4) an seinem ersten Ende, das mit dem höhenverstellbaren oberen Rahmen (2) des Bettes verbunden werden kann, wobei das Führungsprofil (4) einen Handgriff trägt, der vom Bediener zu greifen ist, dadurch gekennzeichnet, dass er ferner ein Teleskopprofil (8) umfasst, dessen erstes Ende in das Führungsprofil (4) eingezogen ist, wobei das Führungsprofil (4) mit einer Öffnung zum Einsetzen eines Teleskopprofils (8) an seinem anderen Ende versehen ist und dass das Teleskopprofil (8) an seinem anderen Ende mit einem Infusionshalter (9) versehen ist, wobei das Teleskopprofil (8) in der eingefahrenen Position um mindestens die Hälfte seiner Länge in das Führungsprofil (4) eingesetzt

ist und in der ausgefahrenen Position um mindestens die Hälfte seiner Länge aus dem Führungsprofil (4) ausgefahren ist. [embedded image](#)

2. 1222520 Asa para empujar una cama de transporte y para conectar un recipiente de un fluido de infusión y la cama de transporte con dicha asa ES 02.01.2019

A61G 1/048

[?](#) 201890023

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3. WO/2018/224062 SIDERAIL ASSEMBLY, ESPECIALLY FOR HOSPITAL BED WO 13.12.2018

A61G 7/05

[?](#) PCT/CZ2018/050030

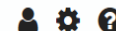
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position, comprising Load-bearing support bracket (16) of the Siderail mechanism (9) of the siderail that is rotationally connected to the load-bearing support bracket (16) for supporting the siderail mechanism (12) and siderail body (8), a pawl (19) rotationally connected to the main arm (9) of the siderail, a dampening element (20) rotationally connected to the main arm (9) of the siderail and a load-bearing support bracket (16), and a handle (11) interconnected with the locking mechanism, wherein the mechanism allows for a smooth and dampened lowering and lifting of the siderail body (8).



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Int.Class	Appl.No	Title	Applicant	Ctr	PubDate
				Inventor	
1. 212017000134		Griff zum Schieben eines Transportbettes und zum Verbinden eines Infusionsbehälters und des Transportbettes mit diesem Griff		DE	24.01.2019

A61G 7/05 212017000134 Linet spol. s r.o.

Handgriff (3) zum Schieben eines Transportbettes und zum Verbinden eines Infusionsfluidbehälters mit einem Führungsprofil (4) an seinem ersten Ende, das mit dem höhenverstellbaren oberen Rahmen (2) des Bettes verbunden werden kann, wobei das Führungsprofil (4) einen Handgriff trägt, der vom Bediener zu greifen ist, dadurch gekennzeichnet, dass er ferner ein Teleskopprofil (8) umfasst, dessen erstes Ende in das Führungsprofil (4) eingezogen ist, wobei das Führungsprofil (4) mit einer Öffnung zum Einsetzen eines Teleskopprofils (8) an seinem anderen Ende versehen ist und dass das Teleskopprofil (8) an seinem anderen Ende mit einem Infusionshalter (9) versehen ist, wobei das Teleskopprofil (8) in der eingefahrenen Position um mindestens die Hälfte seiner Länge in das Führungsprofil (4) eingesetzt ist und in der ausgefahrenen Position um mindestens die Hälfte seiner

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Länge aus dem Führungsprofil (4) ausgefahren ist.

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1. (DE212017000134) Griff zum Schieben eines Transportbettes und zum Verbinden eines Infusionsbehälters und des Transportbettes mit diesem Griff

National Biblio. Data

Description

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PermaLink

Application Number: 212017000134 Application Date: 10.05.2017

Publication Number: 212017000134 Publication Date: 24.01.2019

Publication Kind : U1

Prior PCT appl.: Application Number:PCTCZ2017000038 ; Publication Number:WO2017194038 Click to see the data

IPC: A61G 7/05 A61M 5/14

Applicants: Linet spol. s r.o.

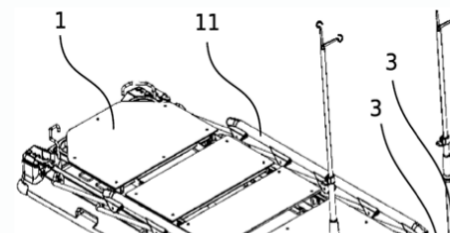
Inventors:

Agents: FRITZ Patent- und Rechtsanwälte Partnerschaft mbB

Priority Data: PV 2016-274 10.05.2016 CZ

Title: (DE) Griff zum Schieben eines Transportbettes und zum Verbinden eines Infusionsbehälters und des Transportbettes mit diesem Griff

Abstract:





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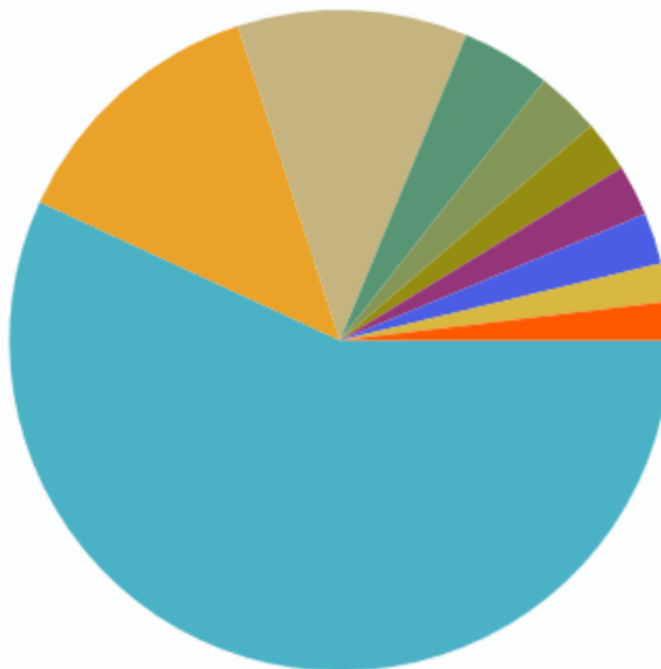
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- A47B
- B60T
- H02P
- A47D
- A61F



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12. (WO2017220055) DEVICE FOR MONITORING OF PATIENT'S VITAL SIGNS

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Pub. No.: WO/2017/220055 International Application No.: PCT/CZ2017/000041

Publication Date: 28.12.2017 International Filing Date: 22.06.2017

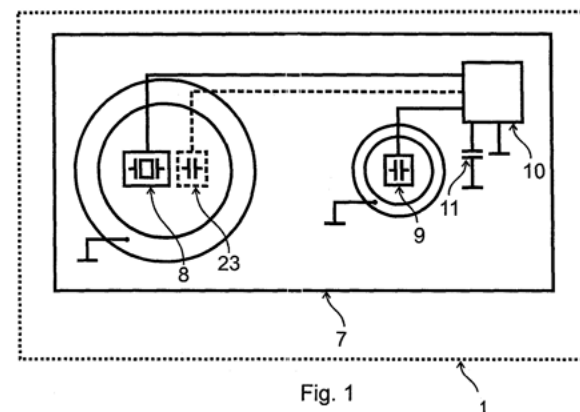
Chapter 2 Demand Filed: 05.04.2018

IPC: **A61B 5/00** (2006.01), **A61B 5/024** (2006.01), **A61B 5/0245** (2006.01), **A61B 5/08** (2006.01), **A61B 5/11** (2006.01), **A61B 5/113** (2006.01) ?Applicants: **LINET SPOL. S R.O.** [CZ/CZ]; Želevčice 5 Slaný 27401, CZInventors: **KOLÁŘ, Vladimír**; CZAgent: **HORÁLKOVÁ, Hana**; LINET spol.s r.o. Želevčice 5 Slaný 27401, CZ

Priority Data: PV 2016-366 22.06.2016 CZ

Title
(EN) DEVICE FOR MONITORING OF PATIENT'S VITAL SIGNS
(FR) DISPOSITIF DE SURVEILLANCE DES SIGNES VITAUX D'UN PATIENT.Abstract:
(EN) The subject of the invention is a device for monitoring patient's vital functions, in particular for measuring respiratory and heart rate. This is achieved by using a piezoelectric transducer which also forms with measuring electrode a measuring capacitor. In addition, a comparator capacitor is used to increase resistance to changes in the measuring conditions.

(FR) L'invention a pour objet un dispositif de surveillance des fonctions vitales d'un patient, en particulier pour la mesure de la fréquence respiratoire et cardiaque. A cet effet, on utilise un transducteur piézo-électrique qui forme, avec l'électrode de mesure, un condensateur de mesure. De plus, un condensateur comparateur augmente la résistance aux changements dans les conditions de mesure.





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Device for monitoring patient's vital functions

Technical field

The invention relates to a device for monitoring patient's vital functions such as respiratory and heart rate and changes or arrhythmia thereof.

Background of the Invention

Various devices for monitoring various vital functions are known in the art. These monitoring devices are used especially in hospitals, mostly in intensive care units, but also in aftercare departments or in nursing homes. Devices are known where there is no need for a direct connection with the patient, which facilitates patient care, as there is no need for patient's cooperation. The direct contact with the patient means various types of for example adhesive sensors or sensors that are inserted into the patient's body.

Majority of the known devices consist of a pad which incorporates one or more sensors of different types. These sensors can detect a change in force applied to the pad, for example by means of various force sensors with offset measurement, strain gauges or sensors employing piezoelectric effect. Furthermore, the sensors can also detect vibrations of the bed-deck caused by the patient, for example, by using various MEMS (micro-electromechanical sensor) sensors. The pad is placed under the area where the patient is located, usually under the mattress.

Device employing appropriately configured strain gauges is described in patent US7699784. The disadvantage of this solution is that there is often an unwanted reaction to the surrounding forces, due to the configuration of the strain gauges so that the patient's breathing and heartbeat can be recorded.

Devices employing the principle of direct piezoelectric effect are utilized because of their low price and simplicity in measuring high-frequency vital functions, such as heartbeat. An example of such device is disclosed in patent US6984207. However, these devices are not suitable for measuring low-frequency vital functions, such as breathing.

For measuring low-frequency vital functions, sensors for measuring offset are used, for example, capacity sensors utilizing capacity changes due to change in the size of the air gap between the electrodes, as disclosed, for example, in patent application WO2006131855.

The device can also be as disclosed in patent application WO2010080794 where the pad is filled with fluid, and the pressure sensor senses changes in the pressure caused by breathing and patient's pulse. The problem with this solution is in the production complexity of the special pad filled with liquid.

The device can also employ the video signal evaluation principle as disclosed in application WO2013027027, where it is possible to evaluate some vital functions on the basis of the light intensity ratio of two different wavelengths reflected from the patient's skin. However, this principle is inaccurate and very difficult to perform



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CLAIMS

1. Device for monitoring patient's vital functions comprising a computing unit, a piezoelectric transducer (8), a measuring electrode (4), forming together with the piezoelectric transducer (8) a measuring capacitor (23), wherein the piezoelectric transducer (8) and the measuring capacitor (23) are electrically connected with the computing unit (10), wherein the measuring electrode (4) is connected to the board, characterized in that the piezoelectric transducer (8) is propped against the board, on which the measuring electrode (4) is located, in least at two positions, wherein between the at least two locations is located a flexible portion of the piezoelectric transducer (8).
2. Device for monitoring patient's vital functions according to claim 1, characterized in that the piezoelectric transducer (8) comprises a first electrode (25) and a second electrode (2) and a piezoelectric element (1) positioned between them formed by piezoelectric material, wherein the first electrode (25) and the second electrode (2) are electrically connected with the computing unit (10).
3. Device for monitoring patient's vital functions according to claim 2 characterized in that the piezoelectric element (1) is formed by piezoceramics.
4. Device for monitoring patient's vital functions according to any of claims 2 to 3 characterized in that the measuring electrode (4) forms together with the first electrode (25) or the second electrode (2) the measuring capacitor (23).
5. Device for monitoring patient's vital functions according to any of the preceding claims characterized in that the board is the printed circuit board (7) on which the computing unit (10), the piezoelectric transducer (8) and the measuring capacitor (23) are located.
6. Device for monitoring patient's vital functions according to claim 4 characterized in that the second electrode (2) or the first electrode (25) is in three places of the perimeter of the area of the adjoining printed circuit board (7) attached so that each attachment enables deformation of the piezoelectric transducer (8).
7. Device for monitoring patient's vital functions according to any of the preceding claims characterized in that it further comprises a comparator capacitor (9) which is electrically connected with the computing unit (10).
8. Device for monitoring patient's vital functions according to claim 7 characterized in that the comparator capacitor (9) comprises a first comparator electrode (26) and a second comparator electrode (5), wherein the first comparator electrode (26) and the second comparator electrode (5) are electrically connected with the computing unit (10).
9. Device for monitoring patient's vital functions according to any of the preceding claims characterized in that it further comprises a sampling capacitor (11) which is electrically connected with the computing unit (10).



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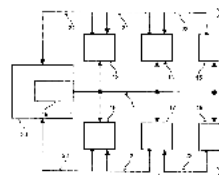
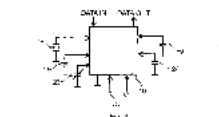
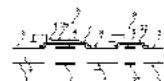
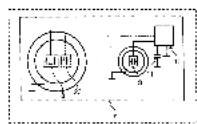
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Available information on National Phase entries(more information)

Office	Entry Date	National Number	National Status
Canada	24.10.2018	3022264	
European Patent Office (EPO)	22.01.2019	2017746268	
Israel		263018	Published: 31.12.2018

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The State of Israel - Ministry of Justice

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פרסום הגשת הבקשה: 31/12/2018

סימן סיווג בינלאומי (IPC): A61B 05/00 , A61B 05/08 , A61B 05/113 , A61B 05/0245 , A61B 05/024 , A61B 05/11

סימן סיווג בינלאומי (CPC): A61B 5/72 , A61B 5/02444 , A61B 5/0245 , A61B 5/0816 , A61B 5/1115 , A61B 5/113 , A61B 5/1135 , A61B 5/6892 ,

A61B 5/7285 , A61B 2562/0247

מבקשים: LINET SPOL. S R.O.

תאריך הבקשה: 22/06/2017

מס' טיפול: מוצג טיפול

מס' קדימה: PV 2016-366 CZ 22/06/2016

מספר בקשה בינלאומי: CZ/2017/000041



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Notifications of changes after publication

Publication Date	Publication Kind	Publication Reason
28.12.2017	A1	Initial Publication with ISR
17.05.2018		Demand for international preliminary examination filed within the applicable time limit <i>After 19 Months</i>



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International Application Status

Date	Title	View	Download
04.03.2019	International Application Status Report	HTML, PDF, XML	PDF, XML

Published International Application

Date	Title	View	Download
28.12.2017	Initial Publication with ISR((A1 52/2017))	PDF (19p.)	PDF (19p.), ZIP(XML + TIFFs)

Search and Examination-Related Documents

Date	Title	View	Download
28.12.2017	(ISA/237) Written Opinion of the International Searching Authority	PDF (7p.)	PDF (7p.), ZIP(XML + TIFFs)
28.12.2017	(ISA/210) International Search Report	PDF (4p.)	PDF (4p.), ZIP(XML + TIFFs)
28.12.2017	Search Strategy	PDF (1p.)	PDF (1p.), ZIP(XML + TIFFs)

Related Documents on file at the International Bureau

Date	Title	View	Download
16.10.2018	(IB/308) Notice Informing the Applicant of the Communication of the International Application to the Designated Offices	PDF (1p.)	PDF (1p.), ZIP(XML + TIFFs)
16.01.2018	(IB/308) Notice Informing the Applicant of the Communication of the International Application to the Designated Offices	PDF (1p.)	PDF (1p.), ZIP(XML + TIFFs)
28.12.2017	(RO/102) Notification Concerning Payment of Prescribed Fees	PDF (2p.)	PDF (2p.), ZIP(XML + TIFFs)



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Compound name

monohydricum

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- **Compound name** e.g. 4-{5-[Bis(2-chloroethyl)amino]-1-methyl-1H-benzimidazol-2-yl}butanoic acid
- **InChI** e.g. InChI=1S/C18H15N2O.ClH/c1-20(2)13-8-9-15-17(11-13)21-16-10-7-12-5-3-4-6-14(12)18(16)19-15;/h3-11H,1-2H3;1H/q+1;/p-1
- **SMILES** e.g. CC(=O)OC1=CC=CC=C1C(=O)O



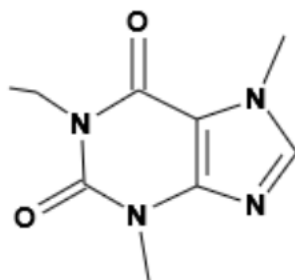
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Int.Class	Appl.No	Title	Applicant	Ctr	PubDate	Inventor	Image
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1. WO/2018/211425 THEACRINE-BASED SUPPLEMENT AND METHOD OF USE THEREOF IN A SYNERGISTIC COMBINATION WITH CAFFEINE

A61K 31/522 PCT/IB2018/053410 ORTHO-NUTRA, LLC LOPEZ, Hector L.

A human dietary supplement comprises theacrine and optionally other compounds that modulate the effects of theacrine. Uses for the theacrine-containing supplement include improvement of at least one of mood, energy, focus, concentration or sexual desire or a reduction of at least one of anxiety or fatigue. A synergistic composition comprises co-administration of theacrine and caffeine, wherein the co-administered caffeine reduces theacrine oral clearance (CL/F) and oral volume of distribution (Vd/F). In addition, the co-administered caffeine increases area under the plasma concentration time curve (AUC) of theacrine, and increases theacrine maximum plasma concentration (C_{max}) in comparison with the corresponding pharmacokinetic parameters when theacrine is administered alone.

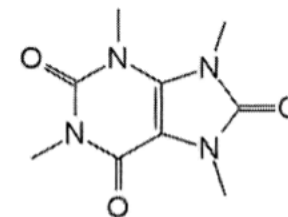
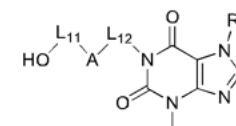


FIG. 1

4. WO/2016/054971 HYDROXYL PURINE COMPOUNDS AND APPLICATIONS THEREOF

C07D 473/30 PCT/CN2015/090294 GUANGDONG ZHONGSHENG PHARMACEUTICAL CO., LTD WU, Lingyun

Hydroxyl purine compounds represented by formula (I), tautomers or pharmaceutically acceptable salts thereof, and applications thereof as PDE2 or TNF- α inhibitors.



(I)



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Portal to patent registers

	Kind	Appl.No	IPC	Applicant
1. (WO/2019/039426) WATER-ABSORBING LIQUID, WATER ABSORBING COMPOSITION AND METHOD FOR PRODUCING SAME	Initial Publication with ISR [A1]	JP2018/030628	C08L 101/14	SUMITOMO SEIKA CHEMICALS CO., LTD.
2. (WO/2019/040241) WIRELESS POWER-TRANSMISSION SHIELD	Initial Publication with ISR [A1]	US2018/044689	H02J 50/70	QUALCOMM INCORPORATED
3. (WO/2019/040531) CANNULA ATTACHMENT DEVICES AND METHODS FOR A SURGICAL ROBOTIC SYSTEM	Initial Publication with ISR [A1]	US2018/047388	A61B 17/34	VERB SURGICAL INC.
4. (WO/2019/040532) LIGHT-ABSORBING COMPOSITIONS AND METHODS OF USE	Initial Publication with ISR [A1]	US2018/047390	A61C 17/06	ALLELE BIOTECHNOLOGY & PHARMACEUTICALS, INC.
5. (WO/2019/038079) ROTOR FOR AN ELECTRIC MACHINE OF A VEHICLE	Initial Publication with ISR [A1]	EP2018/071385	H02K 21/02	CONTINENTAL AUTOMOTIVE GMBH
6. (WO/2019/039869) ELECTRONIC DEVICE AND OPERATION	Initial	KR2018/009679	G06F 1/20	SAMSUNG ELECTRONICS CO., LTD.



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Text to be translated:

anderen Ende mit einem Infusionshalter (9) versehen ist, wobei das Teleskopprofil (8) in der eingefahrenen Position um mindestens die Hälfte seiner Länge in das Führungsprofil (4) eingesetzt ist und in der ausgefahrenen Position um mindestens die Hälfte seiner Länge aus dem Führungsprofil (4) ausgefahren ist.

Language pair:

German->English

Domain:

ADMN-Admin, Business, Management & Soc Sci

Translate

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- Please hover your mouse over parallel segments of text
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Handgriff (3) zum Schieben eines Transportbettes und zum Verbinden eines Infusionsfluidbehälters mit einem Führungsprofil (4) an seinem ersten Ende, das mit dem höhenverstellbaren oberen Rahmen (2) des Bettes verbunden werden kann, wobei das Führungsprofil (4) einen Handgriff trägt, der vom Bediener zu greifen ist, dadurch gekennzeichnet, dass er ferner ein Teleskopprofil (8) umfasst, dessen erstes Ende in das Führungsprofil (4) eingezogen ist, wobei das Führungsprofil (4) mit einer Öffnung zum Einsetzen eines Teleskopprofils (8) an seinem anderen Ende versehen ist und dass das Teleskopprofil (8) an seinem anderen Ende mit einem Infusionshalter (9) versehen ist, wobei das Teleskopprofil (8) in der eingefahrenen Position um mindestens die Hälfte seiner Länge in das Führungsprofil (4) eingesetzt ist und in der ausgefahrenen Position um mindestens die Hälfte seiner Länge aus dem Führungsprofil (4) ausgefahren ist.

Handle (3) for pushing a transport bed and for connecting an infusion fluid container with a guide profile (4) at its first end to the height-adjustable upper frame (2) of the bed can be connected, the guide profile (4) a handle which from the operator to be gripped, characterized in that it further comprises a telescopic profile (8), the first end in the guide profile (4) is retracted, wherein the guide profile (4) with an opening for inserting a telescopic section (8) at its other end is provided and in that the telescopic profile (8) at its other end to an infusion holder (9) is provided, wherein the telescopic profile (8) in the retracted position by at least half of its length in the guide profile (4) is inserted and in the extended position by at least half of its length from the guide profile (4) is extended.

Edit translation



http://patents.google.com



seat belt



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Elizabeth Lee Hazen

Nystatin (Antifungal / Antibiotic)



SEARCH TERMS ?



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seat belt x or + Synonym

+ Synonym

SEARCH FIELDS

Date · Priority ▾

YYYY-MM-DD — YYYY-MM-DD

+ Inventor

+ Assignee

Patent Office ▾ Language ▾

Status ▾ Type ▾

Side locking seat belt buckle



[US](#) • [CA](#) • [DE](#) • [FR](#) • [US3605210A](#) • Thomas E Lohr • Jim Robbing Seat Belt Co

Priority 1969-04-21 • Filing 1969-04-21 • Grant 1971-09-20 • Publication 1971-09-20

A SAFETY **SEAT BELT** BUCKLE HAVING A PAIR OF LOCKING MEMBERS WHICH ENGAGE OPPOSITE SIDE EDGES OF A PLATE-LIKE TONGUE TO PREVENT ITS REMOVAL FROM A LATCHED POSITION IN THE BUCKLE. A RELEASE MEMBER ON THE BUCKLE IS CONNECTED TO THE LOCKING MEMBERS SUCH THAT THEY CAN BE MOVED TOWARD RELEASE POSITIONS ...

Seat belt buckle latch



[US](#) • [US3523342A](#) • John P Spires • John P Spires

Priority 1968-01-22 • Filing 1968-11-29 • Grant 1970-08-11 • Publication 1970-08-11

Aug. 411, 1970 1 p SPIRES 3,523,342 'Y **SEAT BELT** BUCKLE LATCH Filed NOV. 29, 1968 3 Sheets-Sheet 1
JOHN P. SPIRES AT TO RN EYS **SEAT BELT** BUCKLE LATCH Filed Nov. 29, 1968 3 Sheets-Sheet 2 INVENTOR
JOHN 4I? SPIRES ATTORNEYS Aug.11,1970 J, R SmRES 3,523,342 **SEAT -BELT** BUQKLE LATVCH Filed Nov.
29, ...

Seat belt assembly



[US](#) • [US3482872A](#) • Thomas E Chamberlain • Thomas E Chamberlain

Priority 1968-02-12 • Filing 1968-02-12 • Grant 1969-12-09 • Publication 1969-12-09

10. The **seat belt** assembly of claim 9 in which said safety release means includes a release pin connected with said energy dissipator structure so as to be displaced thereby from its operative position by such deformation thereof to so release said **seat belt** assembly. 11. The **seat belt** assembly of ...



Google Patents

(seat belt) (heated) assignee:ford



SEARCH TERMS ?



seat belt x or + Synonym

heated x or + Synonym

+ Synonym

SEARCH FIELDS

📅 Date · Priority ▾

YYYY-MM-DD — YYYY-MM-DD

👤 + Inventor

🏢 ford 🔗 Ford Global Tech Llc or

+ Assignee

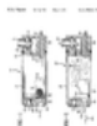
Patent Office ▾ Language ▾

Status ▾ Type ▾

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Seatbelt system having seamless inflatable member



[US](#) • [US6419263B1](#) • Alexander Büsgen • The B. F. Goodrich Company

Priority 1998-05-11 • Filing 1998-05-11 • Grant 2002-07-16 • Publication 2002-07-16

A passenger restraint system (100) for an occupant of a vehicle (102) includes an inflatable belt portion comprising a seamless hollow inflatable textile member that becomes inflated upon the occurrence of a collision. The inflatable textile member may vary in size and construction along its ...

Heated seat belt

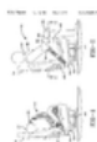


[US DE](#) • [US10143043B1](#) • John Craig Elson • Ford Global Technologies, Llc

Priority 2017-12-07 • Filing 2017-12-07 • Grant 2018-11-27 • Publication 2018-11-27

14. The **seat belt** system of claim 13 , wherein the sewn resistance **heating** element comprises a resistance wire sewn into the webbing and coupled in parallel between positive and negative bus bars. 15. The **seat belt** system of claim 13 , wherein the resistance **heating** element comprises a resistance ...

Inflatable air bag for an inflatable restraint system



[WO EP US JP](#) • [US6378898B1](#) • Donald J. Lewis • The B.F. Goodrich Company

Priority 1999-06-09 • Filing 1999-06-09 • Grant 2002-04-30 • Publication 2002-04-30

wherein said deflation member is a **heating** element in contact with said envelope, and wherein a deflation igniting device is in fluid communication with said **heating** element and said control system and capable of actuating said **heating** element. 61. The inflatable **seat belt** restraint system ...

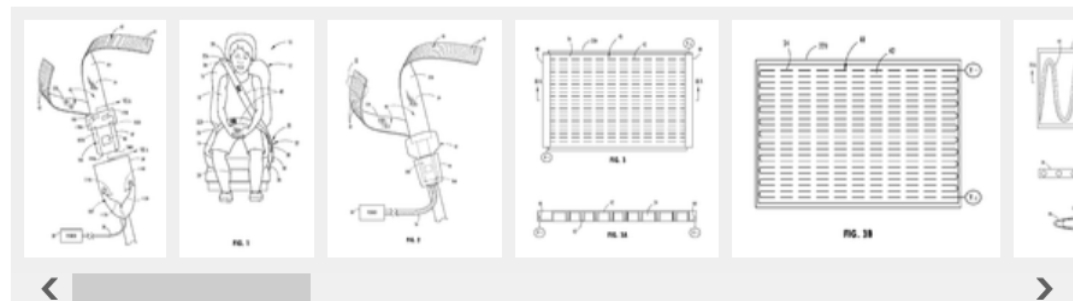


Heated seat belt

Abstract

A vehicle **seat belt** system is provided. The vehicle **seat belt** system includes a **seat belt** comprising a webbing, an electric powered device such as a heater coupled to the webbing, electrical circuitry connected to the heater and extending through a **seat belt** buckle and connector tongue, and an electric power source for providing electric power to the electric heater via the electrical circuitry. The electrical circuitry supplies power through the connector tongue and **seat belt** buckle.

Images (23)



Classifications

H05B3/347 Heating elements having extended surface area substantially in a two-dimensional plane, e.g. plate-heater flexible, e.g. heating nets or webs heaters used in textiles woven fabrics

[View 2 more classifications](#)

US10143043B1

United States



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Similar

Inventor: John Craig Elson, Kerrie Gath, Clay Wesley Maranville, Victoria Schein

Current Assignee : Ford Global Technologies LLC

Worldwide applications

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Application US15/834,191 events ⓘ

2017-12-07 • Application filed by Ford Global Technologies LLC

2017-12-07 • Priority to US15/834,191

2017-12-07 • Assigned to FORD GLOBAL TECHNOLOGIES, LLC ⓘ

2018-11-27 • Application granted

2018-11-27 • Publication of US10143043B1

2019-03-11 • Application status is Active



US010143043B1

(12) **United States Patent**
Elson et al.

(10) **Patent No.:** **US 10,143,043 B1**
(45) **Date of Patent:** **Nov. 27, 2018**

(54) **HEATED SEAT BELT**

(71) Applicant: **Ford Global Technologies, LLC,**
Dearborn, MI (US)

(72) Inventors: **John Craig Elson,** Bloomfield
Township, MI (US); **Kerrie Gath,**
Pittsfield, MI (US); **Clay Wesley**
Maranville, Ypsilanti, MI (US);
Victoria Schein, Dearborn, MI (US)

(73) Assignee: **Ford Global Technologies, LLC,**
Dearborn, MI (US)

(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 0 days.

(21) Appl. No.: **15/834,191**

(22) Filed: **Dec. 7, 2017**

(51) **Int. Cl.**
H05B 1/02 (2006.01)
H05B 3/34 (2006.01)
B60R 22/48 (2006.01)

(52) **U.S. Cl.**
CPC **H05B 3/347** (2013.01); **B60R 22/48**
(2013.01); **H05B 2203/005** (2013.01)

(58) **Field of Classification Search**
CPC H05B 3/247; H05B 2203/005; H05B
2203/002; H05B 22/48; H05B 1/0236;
H05B 1/0238; H05B 3/026; H05B 3/34;
H05B 3/342
USPC 219/202, 494, 528, 539, 541, 545
See application file for complete search history.

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OTHER PUBLICATIONS

U.S. Appl. No. 15/834,170, filed Dec. 7, 2017, entitled "Vehicle
Seat Belt System Having Electrical Connector," (21 pages of
specification and 22 pages of drawings) and filing receipt.

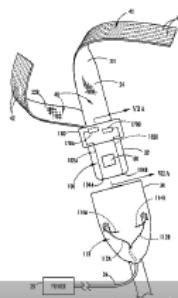
(Continued)

Primary Examiner — Mark Paschall
(74) Attorney, Agent, or Firm — Vichit Chea; Price
Heneveld LLP

(57) **ABSTRACT**

A vehicle seat belt system is provided. The vehicle seat belt
system includes a seat belt comprising a webbing, an electric
powered device such as a heater coupled to the webbing,
electrical circuitry connected to the heater and extending
through a seat belt buckle and connector tongue, and an
electric power source for providing electric power to the
electric heater via the electrical circuitry. The electrical
circuitry supplies power through the connector tongue and
seat belt buckle.

20 Claims, 22 Drawing Sheets



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US 10,143,043 B1

1
HEATED SEAT BELT

FIELD OF THE INVENTION

The present invention generally relates to vehicle seat
belts, and more particularly relates to seat belts having
electric power and/or heaters.

BACKGROUND OF THE INVENTION

Automotive vehicles are typically equipped with seat
belts for restraining passengers seated in vehicle seats.
Conventional seat belts typically include a lap belt and a
shoulder belt connected to a buckle which, in turn, connects
to the vehicle structure, such as a seat or floor. The seat belt
is typically made of a seat belt webbing that contacts the
body of the seated passenger. It is desirable to provide for a
seat belt system that provides enhanced heat control and/or
power for the seated passenger(s).

SUMMARY OF THE INVENTION

According to one aspect of the
vehicle seat belt system is provided.
system includes a seat belt comprising
powered heater coupled to the webbing
for providing electric power to the he

Embodiments of the first aspect
include any one or a combination of t
the seat belt system further includ
connecting the heater to an elect
the seat belt system further includes
connector tongue, wherein the el
nects through a seat belt buckle a
the electric heater comprises a resis

sewn into the webbing;
the sewn resistance heating eleme
tance wire sewn into the web
parallel between positive and ne
the resistance heating element comp
sewn into the webbing in series;
the webbing comprises a tubular
passageway, and wherein the hea
the passageway;
the heater is connected to an ou
webbing;
the seat belt system further inclu
thermally conductive material di
heater;

the heater comprises a thermoelect
the webbing comprises a tubular
passageway, wherein the thermo
posed within the passageway; an
the seat belt system further includ
for delivering air to the passag

According to another aspect of the
vehicle seat belt system includes a s
webbing, an electric powered heater co
electrical circuitry connected to the
through a seat belt buckle and conn
electric power source for providing
electric heater via the electrical circui

Embodiments of the second aspect

include any one or a combination of the following features:
The electric heater includes a resistance heating element
sewn into the webbing.

2
the sewn resistance heating element comprises a resis
tance wire sewn into the webbing and coupled in
parallel between positive and negative bus bars;
the resistance heating element comprises a resistance wire
sewn into the webbing in series;
the webbing comprises a tubular webbing defining a
passageway, and wherein the heater is disposed within
the passageway;
the heater is connected to an outside surface of the
webbing;
the heater comprises a thermoelectric device; and
the webbing comprises a tubular webbing defining a
passageway, wherein the thermoelectric device is dis
posed within the passageway.
These and other aspects, objects, and features of the
present invention will be understood and appreciated by
those skilled in the art upon studying the following specifi
cation, claims, and appended drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

To the Reader:

U.S. Patent

Nov. 27, 2018

Sheet 1 of 22

US 10,143,043 B1

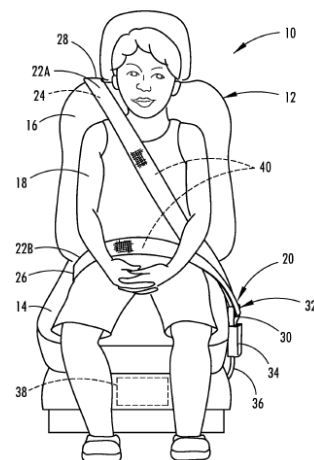


FIG. 1

FIG. 6 is an enlarged view of a portion of the seat belt
further illustrating an electric heater and cooler formed with
thermoelectric devices, according to a fourth embodiment;



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25 / 31



Děkuji Vám za pozornost.



Úřad průmyslového vlastnictví

Antonína Čermáka 2a,
160 68 Praha 6-Bubeneč

