

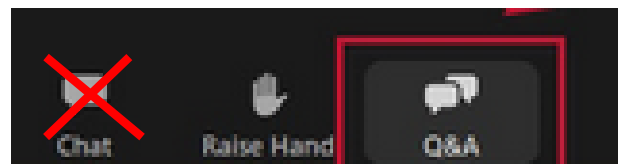
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Updated: February 21, 2022

Country	Latest Biblio	Update Frequency	Biblio Data	Abstract	Chemical Data	Chemical indexed	Doc images	OCR (full-text) Indexed	Nb records
PCT	21.02.2022	Daily	19.10.1978 - 17.02.2022	19.10.1978 - 17.02.2022	11.01.1979 - 10.02.2022	878,349	4,254,312	Total: 4,250,201 English: 2,403,226 French: 140,366 Spanish: 28,867 German: 416,494 Korean: 138,870 Japanese: 710,465 Chinese: 384,513 Russian: 21,735 Portuguese: 5,665	4,254,312
<div style="border: 2px solid red; padding: 10px; width: fit-content; margin: 0 auto;"> <p>PCT: 4,254,312</p> <p>Offices: 97,054,031</p> <p>Overall: 101,308,343</p> </div>									
African Regional Intellectual Property Organization (ARIPO)			03.07.1985 - 28.07.2008	03.07.1985 - 28.07.2008			1,676	Total: 1,671 English: 1,671	1,868
Argentina	16.12.2021	Monthly	11.02.1965 - 24.11.2021	31.10.1990 - 24.11.2021			9,741	Total: 8,906 Spanish: 8,906	169,591
Australia	11.02.2022	Weekly	14.01.1900 - 03.02.2022	08.01.1981 - 03.02.2022				Total: 697,964 English: 697,964	1,805,781

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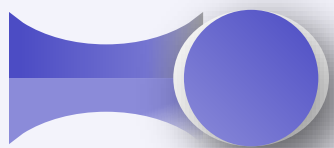
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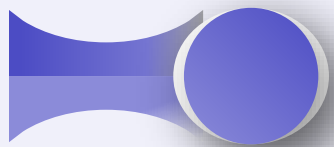
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Publication Date

说明书

技术领域

技术领域

[0001] 本发明涉及一种样本光学检测装置。

背景技术

背景技术

[0002] 血细胞分析仪大多采用激光散射原理进行测量，原理为：将激光照射在细胞上，通过收集细胞被照射后产生的前向散射光、侧向散射光（90度散射光）和侧向荧光（90度荧光），并对细胞进行分类和计数等。

[0003] 图1为一种血细胞分析仪的光学检测装置，细胞在鞘流的作用下逐个通过流动室，当激光光源发出的光被流经准直后向通过流动室的细胞照射，照射到细胞上的光会向四周产生散射，通过一收集透镜来收集前向散射光后，再经过一个光阑来限定最终到达光电探测器的前向散射光的角度，例如将前向散射光限定为低角度（或者说小角度）的前向散射光——这种角度的前向散射光一般用于测量细胞体积；同时，在与照射到细胞的光线垂直的方向通过另一收集透镜来收集侧向光，收集的侧向光再通过二向色镜发生反射和折射，其中侧向光中的侧向散射光在经过二向色镜时发生反射，然后到达相应的光电探测器——侧向散射光一般用于测量细胞的表面复杂度，侧向光中的侧向荧光则经过折射或者透镜后再经过一棱光片也到达相应的光电探测器——侧向荧光一般用于测量细胞内核酸含量。

[0004] 图1中的光学检测装置仅有三路测量通道——即低角度前向散射光通道、侧向散射光通道和侧向荧光通道，因此只能基于这三路测量通道的信号来对细胞进行分类和计数，这在一定程度上限制了对细胞的进一步分数和计数，即无法做到进行更多维度和更加细致的分类和计数，降低了异常细胞的分类能力；技术人员如果将图1中低角度前向散射光通道替换成增加高角度（或者说大角度）散射光通道，可以直接使用光电探测器近距离来接收大角度前向散射光，但这样接收得到的信号信噪比非常差，因此为了保证信号质量，技术人员通常会采用复杂的多个透镜组合来收集大角度前向散射光再出射给对应的光电探测器，这种做法则会大大增加装置的成本；另外，光学检测装置的尺寸一般偏大，这是由于其光路结构所造成的，例如前向散射光通道一般被设计为折射式的光路结构，因此这会造成光学检测装置的尺寸偏大，尤其是当前向散射光通道用于收集多个角度范围（例如低角度和高角度等）的散射光时。

发明概述

技术问题

[0005] 本发明主要提供一种样本光学检测装置，下面说明。

技术方案

[0006] 一实施例的样本光学检测装置，包括：

[0007] 流动室，用于使得待样本中的细胞逐个通过；

[0008] 光源，用于照射通过所述流动室的细胞；

Publication Number
WO/2020/148917
Publication Date
23.07.2020
International Application No.
PCT/AU2019/05376
International Filing Date
13.12.2019
IPC
A47G 19/34 2006.01 G01F 11/24 2006.01
A47J 47/18 2006.01

Title
[EN] A MEASURED POWDER DISPENSER
[FR] DISTRIBUTEUR DE POUVRE MESURÉE

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Agents
PATENTEC PATENT ATTORNEYS
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2000, AU

Priority Data
2019500189 17.01.2019 AU

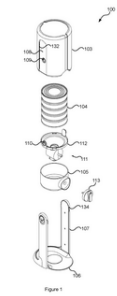
Publication Language
English [EN]

Filing Language
English [EN]

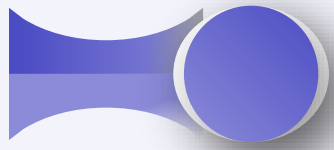
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Abstract
[EN]
A measured powder dispenser has a hopper feeding powder down into a measured dispensing mechanism. The measured dispensing mechanism has an inlet and an outlet and a measuring container operable therebetween. The measuring container is rotatably engaged about a rotation axis generally orthogonal to an inlet axis of the inlet such that an exterior surface thereof moves across the inlet when the measuring container rotates. The measuring container has an interior volume adjustable measurement chamber recessed within the exterior surface such that, in use, at a first rotational position, the measurement chamber aligns with the inlet to accept a measured amount of powder therefrom from the power container and, when rotated to a second rotational position, the exterior surface seals across the inlet and the measurement chamber aligns with the outlet to dispense the measured amount of powder therefrom.
[FR]
La présente invention concerne un distributeur de poudre mesurée présentant une trémie introduisant de la poudre vers le bas dans un mécanisme de distribution mesurée. Le mécanisme de distribution mesurée présente une admission et une évacuation et un contenant de mesure pouvant être actionné entre eux. Le contenant de mesure est en prise rotative autour d'un axe de rotation généralement orthogonal à un axe d'admission de l'admission de sorte qu'une surface extérieure de ce dernier se déplace à travers l'admission lorsque le contenant de mesure tourne. Le contenant de mesure présente une chambre de mesure à volume intérieur réglable en retrait à l'intérieur de la surface extérieure de sorte que, lors de l'utilisation, au niveau d'une première position de rotation, la chambre de mesure s'aligne avec l'admission afin d'accepter une quantité de poudre mesurée en son sein à partir du contenant de poudre et, dans une seconde position de rotation, la surface extérieure sur l'admission et la chambre de mesure s'aligne avec l'évacuation afin de distribuer la quantité de poudre mesurée à partir de cette dernière.



发明名称：一种样本光学检测装置



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Front Page			Query Examples

- car – cable car – «cable car»
- cable NEAR car

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Field	Search terms...
Front Page	(cable NEAR4 car) AND ropetrans

FP:((cable NEAR4 car) AND ropetrans) 🔍

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1. 754576 METHOD FOR OPERATING A CABLE CAR SYSTEM AND CABLE CAR SYSTEM FOR CARRYING OUT THIS OPERATING METHOD NZ - 31.07.2020

Int.Class [B61B 12/06](#) ? Appl.No 754576 Applicant [ROPETRANS AG](#) Inventor LUGER, Peter

The invention relates to a method for operating a cable car system having at least two cable car stations and having at least one carrying cable [13] located between the cable car stations, on which at least one cable car vehicle [15] is moved by means of at least one hauling cable [14], wherein the at least one cable car vehicle [15] is moved between the cable car stations by means of the hauling cable [14], and comprising at least one cable car support [12] via which the carrying cable [13] and the hauling cable [14] are guided. In addition, the travelling positions of the at least one cable car vehicle [15] along the travelling route are determined by means of at least one measuring device, the travelling positions of the at least one cable car vehicle [15] along the travelling route is transmitted to a control unit and processed and stored in same, and a signal is input into the control unit by means of an input device located on the at least one cable car support [12] such that maintenance or assembly works and similar are carried out on this cable car support [12], wherein, when a cable car vehicle [15] is approaching the cable car support [12], the drive for moving the at least one cable car vehicle [15] is controlled by the control unit such that the cable car vehicle [15] is moved at a significantly reduced speed in relation to the operating speed, or is stopped in the region of the cable car support [12].

**NO
IMAGE
AVAILABLE**

2. 201917025726 METHOD FOR OPERATING A CABLE CAR SYSTEM AND CABLE CAR SYSTEM FOR CARRYING OUT THIS OPERATING METHOD IN - 06.09.2019

Int.Class [B61B 12/06B](#) ? Appl.No 201917025726 Applicant [ROPETRANS AG](#) Inventor MATHIS, Michael

The invention relates to a method for operating a cable car system having at least two cable car stations and having at least one carrying cable [13] located between the cable car stations, on which at least one cable car vehicle [15] is moved by means of at least one hauling cable [14], wherein the at least one cable car vehicle [15] is moved between the cable car stations by means of the hauling cable [14], and comprising at least one cable car support [12] via which the carrying cable [13] and the hauling cable [14] are guided. In addition, the travelling positions of the at least one cable car vehicle [15] along the travelling route are determined by means of at least one measuring device, the travelling positions of the at least one cable car vehicle [15] along the travelling route is transmitted to a control unit and processed and stored in same, and a signal is input into the control unit by means of an input device located on the at least one cable car support [12] such that maintenance or assembly works and similar are carried out on this cable car support [12], wherein, when a cable car vehicle [15] is approaching the cable car support [12], the drive for moving the at least one cable car vehicle [15] is controlled by the control unit such that the cable car vehicle [15] is moved at a significantly reduced speed in relation to the operating speed, or is stopped in the region of the cable car support [12].

**NO
IMAGE
AVAILABLE**

3. 3551518 METHOD FOR OPERATING A CABLE CAR SYSTEM AND CABLE CAR SYSTEM FOR CARRYING OUT THIS OPERATING METHOD EP - 16.10.2019

Int.Class [B61B 12/06](#) ? Appl.No 17811922 Applicant [ROPETRANS AG](#) Inventor MATHIS MICHAEL

The invention relates to a method for operating a cable car system having at least two cable car stations and having at least one carrying cable [13] located between the cable car stations, on which at least one cable car vehicle [15] is moved by means of at least one hauling cable [14], wherein the at least one cable car vehicle [15] is moved between the cable car stations by means of the hauling cable [14], and comprising at least one cable car support [12] via which the carrying cable [13] and the hauling cable [14] are guided. In addition, the travelling positions of the at least one cable car vehicle [15] along the travelling route are determined by means of at least one measuring device, the travelling positions of the at least one cable car vehicle [15] along the travelling route is transmitted to a control unit and processed and stored

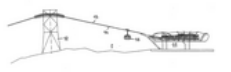
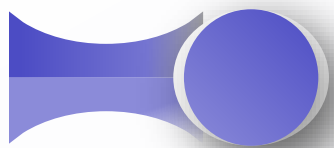


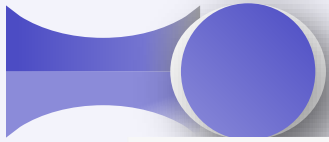
FIG.1



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- Chemical compounds



Search: Field Combination

FIELD COMBINATION ▾

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Operator AND	English Abstract	Value cable NEAR4 car	?
Operator AND	Applicant Name	Value ropetrans	?
Operator AND	Publication Date	Value 2020	?
Operator AND	French Description	Value	?
Operator AND	Abstract	Is Empty: N/A	▾
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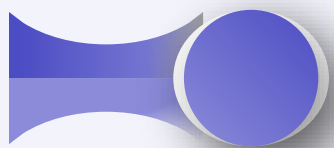
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<input type="checkbox"/> Include NPL	

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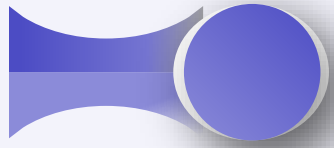
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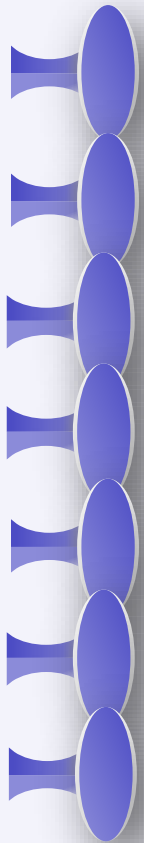
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- Chemical compounds



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Boolean operators: AND, OR, NOT, ANDNOT

Proximity: NEAR, BEFORE

Range operators: [...TO...], {...TO...}

Wildcards: ?, *

Weighting factor: ^

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Applicant Address Country

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Applicant Name

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Application Date

Application Number

Main Applicant Name

National Phase Application Number

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EN_CL:(cable NEAR4 car) AND PA:ropetrans AND DP:[2015 TO 2022]

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Offices All	▾
Languages All	▾
<input checked="" type="checkbox"/> Stemming	
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EN_CL:(cable NEAR4 car) AND PA:ropetrans AND DP:[2015 TO 2022]



5 results Offices all Languages all Stemming true Single Family Member false Include NPL false



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1. **20200094854** METHOD FOR OPERATING A CABLE CAR SYSTEM AND CABLE CAR SYSTEM FOR CARRYING OUT THIS OPERATING METHOD

Int.Class [B61B 12/10](#) Appl.No 16468918 Applicant **ROPETRANS AG** Inventor Michael Mathis

A cable car system has at least two cable car stations and at least one carrying cable between the stations. A cable car vehicle is moved by a hauling cable between the car stations. The travelling positions of the vehicle along the travelling route are determined by a measuring device and transmitted to a control unit and processed and stored in same. A signal is input into the control unit by an input device located on a cable car support such that maintenance or assembly works and similar are carried out on this cable car support. When a cable car vehicle approaches the cable car support, the drive for moving the at least one cable car vehicle is controlled by the control unit such that the cable car vehicle is moved at a significantly reduced speed in relation to the operating speed, or is stopped at the cable car support.



US - 26.03.2020

2. **3551518** METHOD FOR OPERATING A CABLE CAR SYSTEM AND CABLE CAR SYSTEM FOR CARRYING OUT THIS OPERATING METHOD

Int.Class [B61B 12/06](#) Appl.No 17811922 Applicant **ROPETRANS AG** Inventor MATHIS MICHAEL

The invention relates to a method for operating a cable car system having at least two cable car stations and having at least one carrying cable [13] located between the cable car stations, on which at least one cable car vehicle [15] is moved by means of at least one hauling cable [14], wherein the at least one cable car vehicle [15] is moved between the cable car stations by means of the hauling cable [14], and comprising at least one cable car support [12] via which the carrying cable [13] and the hauling cable [14] are guided. In addition, the travelling positions of the at least one cable car vehicle [15] along the travelling route are determined by means of at least one measuring device, the travelling positions of the at least one cable car vehicle [15] along the travelling route is transmitted to a control unit and processed and stored in same, and a signal is input into the control unit by means of an input device located on the at least one cable car support [12] such that maintenance or assembly works and similar are carried out on this cable car support [12], wherein, when a cable car vehicle [15] is approaching the cable car support [12], the drive for moving the at least one cable car vehicle [15] is controlled by the control unit such that the cable car vehicle [15] is moved at a significantly reduced speed in relation to the operating speed, or is stopped in the region of the cable car support [12].

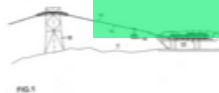


FIG. 1

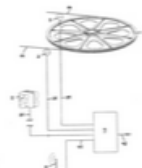


FIG. 2

EP - 16.10.2019

3. **3046276** METHOD FOR OPERATING A CABLE CAR SYSTEM AND CABLE CAR SYSTEM FOR CARRYING OUT THIS OPERATING METHOD

Int.Class [B61B 12/06](#) Appl.No 3046276 Applicant **ROPETRANS AG** Inventor

CA 03046276 2019-06-06

Abstract

The invention relates to a method for operating a cable car system having at least two cable car stations and having at least one carrying cable [13] located between the cable car

stations, on which at least one cable car vehicle [15] is moved by means of at



FIG. 1

CA - 21.06.2018

1. US20200094854 - METHOD FOR OPERATING A CABLE CAR SYSTEM AND CABLE CAR SYSTEM FOR CARRYING OUT THIS OPERATING METHOD



National Biblio. Data Description **Claims** Drawings Patent Family Documents

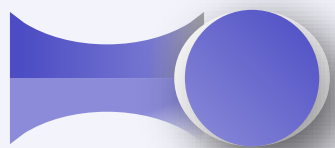
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[EN]

Claims

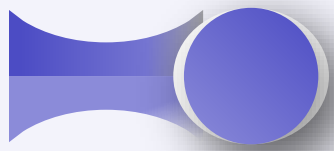
1. A method of operating a cable car system having at least two cable car stations, a cable running between the cable car stations, at least one cable car vehicle moving along a transport path between the cable car stations, and at least one cable car support between the cable car stations for supporting the cable, the method comprising:
 - determining respective moving positions of the at least one cable car vehicle along the transport path with at least one measuring device;
 - transmitting the moving positions of the at least one cable car vehicle along the transport path to a control unit and processing and storing the moving positions in the control unit;
 - notifying that maintenance or assembly work is being performed on the at least one cable car support by transmitting a corresponding signal from an input unit situated on the at least one cable car support to the control unit;
 - controlling a drive for moving the at least one cable car vehicle by way of the control unit when the cable car vehicle approaches the at least one cable car support, to cause the cable car vehicle to move at a speed that is greatly reduced in comparison with an operating speed or is stopped in a region of the cable car support.
2. The method according to **claim 1**, wherein the cable is a self-contained haul cable which runs between the cable car stations and which hauls the at least one cable car vehicle that is coupled thereto and that is supported on at least one suspension cable.
3. The method according to **claim 1**, wherein the cable is a self-contained traction cable onto which the at least one cable car vehicle is clamped and which moves the at least one cable car vehicle between the cable car stations.
4. A cable car system, comprising:
 - at least two cable car stations;
 - at least one self-contained haul cable extending between said cable car stations and having said at least one cable car vehicle coupled thereto, or at least one suspension cable, on which at least one cable car vehicle is moved by way of at least one traction cable, wherein the at least one cable car vehicle is moved along a transport path between said cable car stations by way said haul cable or said traction cable;
 - at least one cable car support, over which said haul cable or said suspension cable and said traction cable are guided;
 - a measuring device configured to determine moving positions of said at least one cable car vehicle along the transport path;
 - a control unit configured to receive, process and store the moving positions of said at least one cable car vehicle along the transport path; and
 - an input unit disposed at said at least one cable car support, said input unit enabling an input signal to be conveyed to said control unit, notifying that maintenance or assembly work is being performed on said cable car support, wherein said control unit controls a drive for the movement of said at least one cable car vehicle such that, upon an approach of said at least one cable car vehicle to said cable car support, said cable car vehicle is moved at a speed which is greatly reduced relative to a regular operating speed or is stopped in a region of said cable car support.
5. The cable car system according to **claim 4**, configured for carrying out the following operating method,
 - determining respective moving positions of the at least one cable car vehicle along the transport path with said measuring device;
 - transmitting the moving positions of the at least one cable car vehicle along the transport path to said control unit and processing and storing the moving positions in said control unit;
 - notifying that maintenance or assembly work is being performed on the at least one cable car support by transmitting a corresponding signal from said input unit to said control unit;
 - controlling the drive for moving the at least one cable car vehicle by way of the control unit when the cable car vehicle approaches said cable car support, to cause the cable car vehicle to move at a speed that is greatly reduced in comparison with an operating speed or is stopped in a region of said cable car support.
6. The cable car system according to **claim 4**, wherein said at least one cable car vehicle is equipped with a signal generator to be set in operation by way of said control unit as soon as said cable car vehicle approaches said cable car support.



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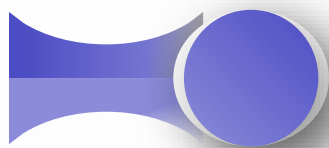
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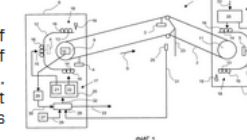
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1. [0002689928](#) PLANT AND METHOD FOR TRANSPORTATION OVER SUSPENSION ROPEWAY

Int.Class [B61B 12/06](#) ⓘ Appl.No 2015138489 Applicant Inventor БАБА Матье (FR)

FIELD: transportation. SUBSTANCE: invention relates to transportation by suspension ropeway, in particular, to transportation of people in [cable cars](#). Transport installation of suspension ropeway [2] includes at least two cars [3-5], in each of which there is a detachable clamp for disconnection of car and connection of car to suspension ropeway [2]; at least one connecting device [17] of cars [3-5] with suspension ropeway [2]; and at least one bending support [23, 24, 40] of suspension ropeway [2]. At that, transport installation of suspension ropeway also contains detection facility [25-27] intended for detection of movement of the first car connected to suspension ropeway [2] through specified support [23, 24, 40], made with possibility to transfer at least one connection signal when movement is detected, and control means [28] of said connecting device [17] connected to detection means [25-27] and configured to transmit a command to connect at least one second car with suspension ropeway [2] when receiving said connection signal. EFFECT: electric power consumption of the suspension ropeway drive motor is reduced and, due to limitation of generated jerks, passenger comfort is provided. 16 cl, 5 dwg

RU - 29.05.2019

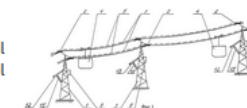


2. [02184665](#) AERIAL TRAMWAY

Int.Class [B61B 7/02](#) ⓘ Appl.No 2000115152/28 Applicant Juzhno-Rossijskij gosudarstvennyj tekhnicheskij universitet (Novocherkasskij politekhnicheskij institut) Inventor Khal'fin M.N.

FIELD: road building; tramways. SUBSTANCE: proposed aerial tramway has carrying wire [ropes](#) resting of shoes hinge-secured on line supports. [Cars](#) are installed on carrying wire [ropes](#). [Cars](#) are moved under action of hauling wire [rope](#). Aerial tramway has [car](#) motion stabilizer which includes hydraulic motor mechanically connected with shoe axle and hydraulic connected with control restrictor. Level is hinge-mounted on line support. Free end of lever is connected with control restrictor by kinematic tie. Lever is connected with line support by means of multiple-core spring to kill vibrations of lever. EFFECT: improved reliability of aerial tramway by adjusting torsional rigidity of shoes. 2 dwg

RU - 10.07.2002



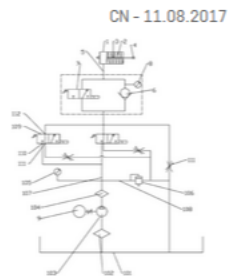


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83. [206394628](#) AERIAL PASSENGER DEVICE'S HYDRAULIC BRAKE DEVICE

Int.Class [B61B 12/06](#) Appl.No 201720039779.7 Applicant ZAOZHUANG DAXING MINING INDUSTRY CO., LTD. Inventor ZHANG BIN

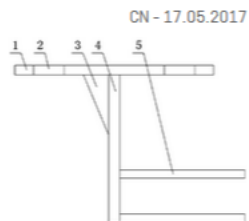
The utility model relates to an aerial passenger device's hydraulic brake device belongs to mining braking equipment. The utility model provides a aerial passenger device's hydraulic brake device, including liquid braking device, liquid braking device sets up in built on stilts people's drive wheel department that takes advantage of, and this liquid braking device embeds there is belleville spring, belleville spring sets up and to establish on the piston rod in liquid braking device's inside and cover, and the piston rod stretches out liquid braking device department and establishes the brake block, and liquid braking device does not have under the voltol oil state belleville spring and extends naturally and drive the piston rod and brake to liquid braking device internal contraction, the brake block contact cage air -service people drive wheel realization of tailpiece of the piston rod portion.



84. [206171452](#) 可摘挂式座椅架空乘人装置断轴保护装置

Int.Class [B81B 12/08](#) Appl.No 201621219534.4 Applicant 永城煤电控股集团有限公司 Inventor 管朝辰

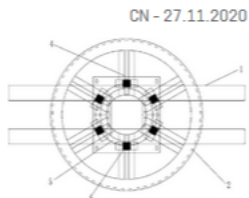
本实用新型公开了一种可摘挂式座椅架空乘人装置断轴保护装置, 它包括底座, 所述底座上设置有螺栓孔, 所述底座的下端与保护架的上端连接, 所述保护架包括立板和横板, 所述立板的上端与所述底座的下端连接, 所述横板为两个以上, 所有所述横板的一端均分别与所述立板的一侧面连接, 并且, 所述横板之间设置有间隔。本实用新型能有效起到保护架空乘人装置驱动轮轴断的预防性保护措施, 有效避免因架空乘人装置轴断带来的安全事故扩大化, 为架空乘人装置安全可靠运行提供一套安全保护屏障, 大大提高架空乘人装置运行的安全性, 安全效益显著。



85. [212022623](#) BROKEN SHAFT PROTECTION DEVICE FOR FIXED SEAT AERIAL PASSENGER DEVICE

Int.Class [B61B 12/06](#) Appl.No 202020771628.3 Applicant YONGCHENG COAL & ELECTRICITY HOLDING GROUP CO., LTD. Inventor ZHANG HAO

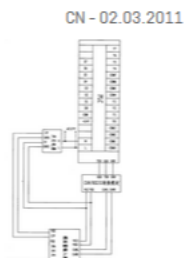
The utility model discloses a broken shaft protection device for a fixed seat overhead man-riding device. Wherein the hub type supporting frame and the broken shaft hanging device are installed on a girder of a rack of the aerial passenger device and nested on the outer side of a driving wheel shaft, and the broken shaft hanging device is fixed to spokes of a driving wheel through a connecting plate and installed on the periphery of the hub type supporting frame. An operation gap of 10 mm to 20 mm is reserved between the hub type supporting frame and the broken shaft hanging device. According to the utility model, preventive protection measures for protecting the drive wheel of the overhead man-riding device from being broken can be effectively taken, safety accident expansion caused by shaft breakage of the overhead man-riding device is effectively avoided, a set of safety protection barrier is provided for safe and reliable operation of the overhead man-riding device, and the safety and reliability of operation are improved.



86. [201754232](#) 矿用架空乘人装置液压驱动装置限速保护电路

Int.Class [G05B 19/05](#) Appl.No 201020280752.5 Applicant 肖公平 Inventor 肖公平

本实用新型公开了一种矿用架空乘人装置液压驱动装置限速保护电路, 由PLC、CAN/RS232转换模块、模拟量输入模块、开关电源组成。本实用新型具有如下的有益效果, 矿用架空乘人装置液压驱动装置限速保护电路的主要特点是通过PLC采集的现场液压驱动装置压力信号进行处理后实现限速保护停车, 从而实现安全保护自动化控制, 达到保护液压驱动装置和架空乘人装置设备和乘坐人员安全的目的; 其性能可靠、使用方便, 是煤矿架空乘人装置液压驱动的理想安全保护电路。



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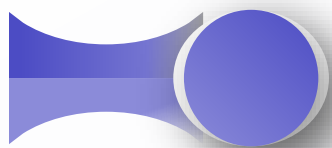
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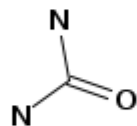
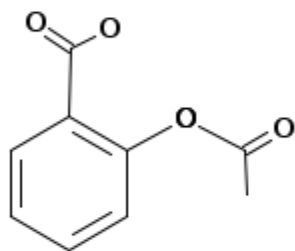
Documents

Title

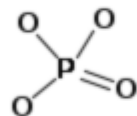
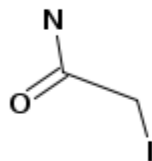
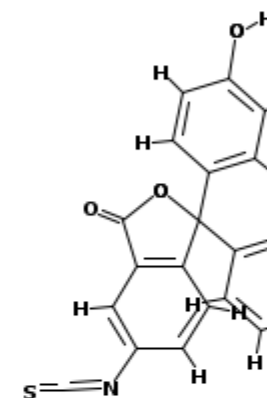
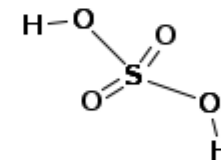
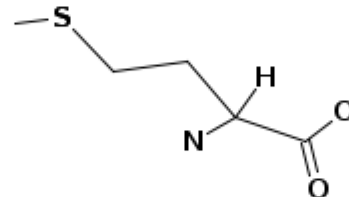
Abstract

Description

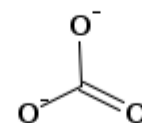
Claims



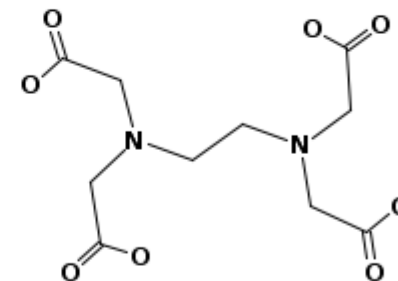
Methionine



Ca²⁺



Edetic acid



Na⁺ Cl⁻

본 발명은 CAPRIN-1을 종양 마커로 하는 암의 검출 방법에 관한 것이다.

배경기술

암은 전체 사망 원인의 제 1위를 차지하는 질환이고, 현재 행해지고 있는 치료는 수술 요법을 주체로 방사선 요법과 화학 요법을 조합시킨 것이다. 지금까지의 의료 기술의 진보에 의해, 암종에 따라서는 조기 발견할 수 있으면 고칠 수 있는 가능성이 높은 질환이 되고 있다. 그 때문에, 암환자의 체력적, 경제적 부담이 없고, 간편하게 검사할 수 있는 암의 검출 방법이 요구되고 있다.

최근에는, 종양 마커 등의 종양 생산물을 측정하는 방법이 보급되어 왔다. 종양 생산물이란, 종양에 관련되는 항원, 효소, 특정 단백질, 대사산물, 종양 유전자, 종양 유전자 생산물 및 종양 억제 유전자 등을 가리키고, 암 태아성 항원 CEA, 당 단백질 CA19-9, 전립선 특이 항원 PSA, 갑상선에서 생산되는 펩티드 호르몬인 칼시토닌 등이 일부의 암에서 종양 마커로서 암진단에 활용되고 있다. 그러나, 다른 많은 암종에 있어서는 암진단에 유용한 종양 마커는 존재하지 않는다. 또한, 현재 알려져 있는 종양 마커의 대부분은 체액 중에 극히 미량(pg/mL 오더 정도)밖에 존재하지 않기 때문에, 그들을 검출하기 위해서는 고감도한 측정법이나 특수한 기술을 필요로 한다. 이러한 현재 상황 중에서, 각종 암을 간편한 조작으로 고감도로 검출할 수 있는 신규한 암 검사 수단을 제공할 수 있으면, 각종 암에 대한 진단 용도가 열린다고 기대된다.

한편, 최근 새로운 수술법의 개발이나 새로운 항암제의 발견에도 불구하고, 일부 암을 제외하고 대부분의 암에서는 효과적인 암 진단 기술이 확립되어 있지 않다. 그러므로, 암을 조기에 발견할 수 없고, 암의 치료 성적은 그다지 향상되지 않은 것이 현재 상황이다.

최근, 분자생물학이나 암면역학의 진보에 의해, 암에 특이적으로 반응하는 항체나, 암화나 암의 악화에 관련되는 암 항원에 대한 분자 표적약 등, 암 항원류를 타깃으로 한 특이적 암 치료법에의 기대가 높아지고 있다. 그 중에서도, 암세포 상의 항원 단백질을 표적으로 한 암을 치료하기 위한 항체 의약이 복수 상시되어 암 치료에 사용되고 있다. 항체 의약은 암 특이적 치료약으로서 일정 약효를 얻을 수 있으므로 주목받고 있지만, 표적이 되는 항원 단백질의 대부분은 정상세포에도 발현되는 것이고, 항체 투여의 결과, 암세포뿐만 아니라 항원이 발현되는 정상세포도 장애되어버려, 그 결과 생기는 부작용이 문제가 되고 있다. 또한, 암환자에 의해 병인은 다양하기 때문에 암 치료의 효과는 개인차가 매우 크다. 예를 들면, 수술, 화학 요법 또는 방사선 요법에 있어서, 암의 진행 단계에 의해 그 치료 및 예후는 크게 좌우된다. 개체의 다양성에 의해, 동일한 암 치료약에 대해서도 개개인으로 다른 감수성을 가진다는 것이 알려져 있고, 어떤 환자에 유효한 약이 다른 환자에게도 유효하다고는 할 수 없다.

그래서, 미리 환자의 질환 관련 유전자나 단백질의 발현을 측정하고, 어떤 특정 약품이 특정 유전자 또는 단백질을 발현하고 있는 암환자에 대하여 유효할 것인지 아닌지를 평가한 후에, 그 암환자에의 치료약의 투여 결정이 이루어지고 있다. 구체적으로는, 어느 종류의 암에 대한 질환 관련 유전자나 단백질을 측정하는 검출법을 사용하여, 임상 현장에서 암환자 유래의 시료, 예를 들면 혈청이나 조직 중에 암 항원이 존재하는지 아닌지를 검사한 후에 암 항원 특이적인 치료약의 투여 결정이 이루어지고 있다. 예를 들면, 면역 조직 화학 염색 EGFR 검출법 「EGFRpharm(DAKO Corporation)」에 의해 평가하고, 대장암에 있어서의 열화학 염색 Her2검출법 「허셉 테스트」에 의해 평가하고, 유방암에 있어서의 허셉틴의 유효성을 예측한 후에,

그런데, 반려동물은 가족의 일원으로서 사육되고, 기르는 주인과 동행하는 것이 알려져 있다.

대표적인 반려동물인 개는 인간과 비교하여 7배 빨리 나이를 먹는 것으로 등의 혼합백신이 일반적으로 보급되고, 개 파보바이러스 감염증, 개 렙토스피라병이라는 치사율이 높은 감염증이 감소했다. 그 때문에, 개 일로를 걷고 있다. 미국에서는 1년에 약 400만마리의 개가 암으로 진단기 때문에 발견이 늦어, 종양이 커지고 처음으로 주인이 알고 내원하는 때문에, 수의사가 악성이라고 판단했을 경우에는 수술하지 않고 항암치 실시할 필요가 있다. 수술 후 즉시 항암제 치료를 시작하고, 경과 관찰도 짧은 간격으로 행하는 것이 바람직하다. 따라서, 암에 걸린 반려동물에 있어서도 암 치료약의 투약은 필수적이고, 어떤 종류의 암에 대한 질환관련 유전자나 단백질을 측정하는 검출법이 존재하면, 지금까지 보다 효과적인 치료가 가능하게 되어 주인에게도 수의사에 있어서도 메리트가 크다.

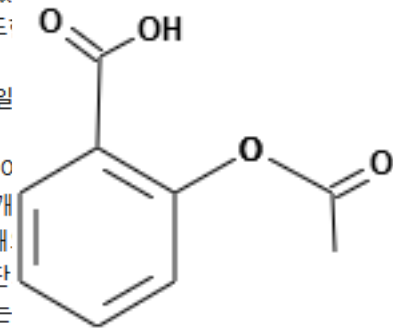
Cytoplasmic-and proliferation-associated protein 1(CAPRIN-1)은 휴지기의 정상세포가 활성화나 세포분열을 일으킬 때에 발현되고, 또한 세포내에서 RNA와 세포내 스트레스 과립을 형성하여 mRNA의 수송, 번역의 제어에 관여하는 것 등이 알려져 있는 세포내 단백질이다. 한편으로, 본 발명자들은 유방암세포의 막 표면에 CAPRIN-1이 고발현하고 있는지, CAPRIN-1에 대한 항체가 유방암세포에 대하여 강한 항종양 효과를 발휘하는지를 밝혀냈다(특허문헌 1). 또한, 세포 표면에 발현하고 있는 CAPRIN-1에 결합하는 항체를 사용하여, 환자에 유래하는 시료 중의 CAPRIN-1의 발현을 측정함으로써, 암의 검출 및 암의 악성도를 평가할 수 있는 것이 보고되고 있다 즉, 세포막 단백질의 하나인 CAPRIN-1은 암 치료 등의 타깃이 될 수 있는 것이 기재되어 있다. 한편 상술한 바와 같이, 암환자의 다양성으로부터 CAPRIN-1을 표적으로 한 치료약, 예를 들면 항체의 투여를 결정하기 위해서는 미리 암환자 유래 시료 중의 CAPRIN-1의 발현을 검증할 필요가 있다. 그러나, 이와 같이 특이적인 치료약을 적용하기 위한 CAPRIN-1의 검출 방법에 관한 보고는 없고, 또한 암환자 시료를 사용한 암을 검출하는 시약은 존재하지 않는다.

선행기술문헌

특허문헌

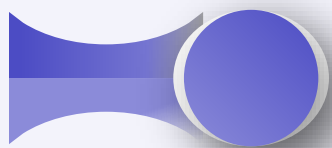
[특허문헌 0001] WO2010/016526

[특허문헌 0002] WO2010/016527



다. 그 때문에, 반려동물의 암 감염에 의해, 기르는 주인이 장래 암을 발병할 위험성이 높은 것을 예측할 수 있

본에서는 약 670만마리, 또한 미국에서는 약 1764만마리라고 알려져 있다. 광견병 예방접종 이외에 5종, 7종, 8플루엔자(컨넬코프), 개 아데노바이러스 2형 감염증(컨넬코프), 개 전염성 간염, 개 코로나바이러스 감염증, 및 고령개는 전체 사육수의 35.5%를 차지하고 있다. 사망 원인도 인간과 같이 암이나 고혈압, 심장병 등이 증가의 160만마리에 어떤 종양이 있다고 알려져 있다. 그러나, 반려동물은 인간과 같이 건강진단이 보급되어 있지 않은 경우, 수술 등의 외과적 요법이나 항암제 등의 투약을 행한다 해도, 이미 너무 늦은 경우가 대부분이다. 그 수술을 행할 경우에도, 마진 확보의 크기나 수술 중의 혈액, 세포 비산 대책이라고 한 수술 중의 대책도 엄중하게



Results

EN_AB:("cable car" OR "cableway" OR "cable wagon"~21 OR "rope car"~21 OR "rope wagon"~21) OR FR_AB:("téléphérique" OR "télécabine" OR "câble" OR "téléférique" OR "blondin" OR "téléphéragé") OR DE_AB:("Seilbahn" OR "



127,413 results Offices all Languages all Stemming true Single Family Member false Include NPL false



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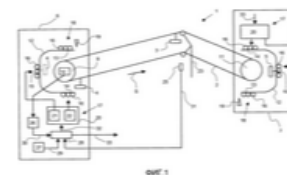
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1. [0002689928](#) PLANT AND METHOD FOR TRANSPORTATION OVER SUSPENSION ROPEWAY

RU - 29.05.2019

Int.Class [B61B 12/06](#) ⓘ Appl.No 2015136489 Applicant Inventor БАБА Матье (FR)

FIELD: transportation. SUBSTANCE: invention relates to transportation by suspension ropeway, in particular, to transportation of people in **cable cars**. Transport installation of suspension ropeway [2] includes at least two cars [3-5], in each of which there is a detachable clamp for disconnection of car and connection of car to suspension ropeway [2]; at least one connecting device [17] of cars [3-5] with suspension ropeway [2]; and at least one bending support [23, 24, 40] of suspension ropeway [2]. At that, transport installation of suspension ropeway also contains detection facility [25-27] intended for detection of movement of the first car connected to suspension ropeway [2] through specified support [23, 24, 40], made with possibility to transfer at least one connection signal when movement is detected, and control means [28] of said connecting device [17] connected to detection means [25-27] and configured to transmit a command to connect at least one second car with suspension ropeway [2] when receiving said connection signal. EFFECT: electric power consumption of the suspension ropeway drive motor is reduced and, due to limitation of generated jerks, passenger comfort is provided. 16 cl, 5 dwg

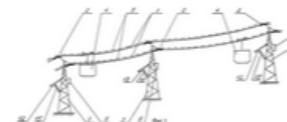


2. [02184665](#) AERIAL TRAMWAY

RU - 10.07.2002

Int.Class [B61B 7/02](#) ⓘ Appl.No 2000115152/28 Applicant Juzhno-Rossijskij gosudarstvennyj tekhnicheskij universitet [Novocherkasskij politekhnicheskij institut] Inventor Khal'fin M.N.

FIELD: road building; tramways. SUBSTANCE: proposed aerial tramway has carrying wire **ropes** resting of shoes hinge-secured on line supports. **Cars** are installed on carrying wire **ropes**. **Cars** are moved under action of hauling wire **rope**. Aerial tramway has **car** motion stabilizer which includes hydraulic motor mechanically connected with shoe axle and hydraulic connected with control restrictor. Level is hinge-mounted on line support. Free end of lever is connected with control restrictor by kinematic tie. Lever is connected with line support by means of multiple-core spring to kill vibrations of lever. EFFECT: improved reliability of aerial tramway by adjusting torsional rigidity of shoes. 2 dwg

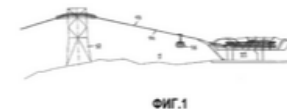


3. [0002723573](#) OPERATING METHOD OF SUSPENDED CABLE RAILWAY SYSTEM AND SUSPENSION CABLEWAY SYSTEM FOR IMPLEMENTATION OF OPERATION METHOD THEREOF

RU - 16.06.2020

Int.Class [B61B 12/06](#) ⓘ Appl.No 2019119831 Applicant Inventor МАТИС, Михаэль (AT)

FIELD: transportation. SUBSTANCE: invention relates to aerial ropeway. Method of operating suspension ropeway system with at least two stations of aerial ropeway and with at least one carrying rope [13] located between stations of suspended aerial ropeway, at least one vehicle [15] of aerial ropeway is moved by means of at least one traction cable [14]. At that, by means of at least one measuring device, transport positions of said at least one vehicle [15] of aerial ropeway along motion section are determined, said transport positions of said at least one suspension ropeway vehicle [15] along said traffic section are transmitted to a control unit and processed therein, as well as stored therein, and by means of located on said at least one support [12] suspension **cableway** device input into control unit is entered a signal that on this support [12] suspension **cableway** is maintenance work, respectively, installation work. At that, by means of control unit at approach of **cable car** [15] of aerial ropeway to suspension **rope** road [12] support drive for movement of said at least one vehicle [15] of aerial ropeway is adjusted in the sense that the suspension **cableway** vehicle [15] in the area of suspension [12] of the aerial ropeway with a speed which is considerably reduced relative to the operating speed is moved, respectively, delayed. EFFECT: as a result, safety of ropeway, including safety of installation and repair works, is increased. 4 cl, 3 dwg



EN_AB:("cable car" OR "cableway" OR "cable wagon"~21 OR "rope car"~21 OR "rope wagon"~21) OR FR_AB:("téléphérique" OR "télécabine" OR "câble" OR "téléférique" OR "blondin" OR "téléphérage") OR DE_AB:("Seilbahn" OR "



127,413 results Offices all Languages all Stemming true Single Family Member false Include NPL false



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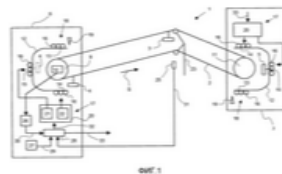
Download Machine translation

1. [0002689928](#) PATENT AND METHOD FOR TRANSPORTATION OVER SUSPENSION ROPEWAY

Int.Class [B61B 12/08](#) Appl.No 2015136489 Applicant Inventor БАБА Матье (FR)

FIELD: transportation. SUBSTANCE: invention relates to transportation by suspension ropeway, in particular, to transportation of people in cable cars. Transport installation of suspension ropeway [2] includes at least two cars [3-5], in each of which there is a detachable clamp for disconnection of car and connection of car to suspension ropeway [2]; at least one connecting device [17] of cars [3-5] with suspension ropeway [2]; and at least one bending support [23, 24, 40] of suspension ropeway [2]. At that, transport installation of suspension ropeway also contains detection facility [25-27] intended for detection of movement of the first car connected to suspension ropeway [2] through specified support [23, 24, 40], made with possibility to transfer at least one connection signal when movement is detected, and control means [28] of said connecting device [17] connected to detection means [25-27] and configured to transmit a command to connect at least one second car with suspension ropeway [2] when receiving said connection signal. EFFECT: electric power consumption of the suspension ropeway drive motor is reduced and, due to limitation of generated jerks, passenger comfort is provided. 16 cl, 5 dwg

RU - 29.05.2019

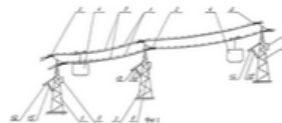


2. [02184665](#) AERIAL TRAMWAY

Int.Class [B61B 7/02](#) Appl.No 2000115152/28 Applicant Juzhno-Rossijskij gosudarstvennyj tekhnicheskij universitet [Novocherkasskij politekhnicheskij institut] Inventor Khal'fin M.N.

FIELD: road building; tramways. SUBSTANCE: proposed aerial tramway has carrying wire ropes resting of shoes hinge-secured on line supports. Cars are installed on carrying wire ropes. Cars are moved under action of hauling wire rope. Aerial tramway has car motion stabilizer which includes hydraulic motor mechanically connected with shoe axle and hydraulic connected with control restrictor. Level is hinge-mounted on line support. Free end of lever is connected with control restrictor by kinematic tie. Lever is connected with line support by means of multiple-core spring to kill vibrations of lever. EFFECT: improved reliability of aerial tramway by adjusting torsional rigidity of shoes. 2 dwg

RU - 10.07.2002

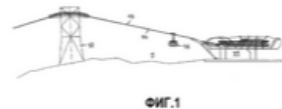


3. [0002723573](#) OPERATING METHOD OF SUSPENDED CABLE RAILWAY SYSTEM AND SUSPENSION CABLEWAY SYSTEM FOR IMPLEMENTATION OF OPERATION METHOD THEREOF

Int.Class [B61B 12/08](#) Appl.No 2019119831 Applicant Inventor МАТИС, Михаэль (AT)

FIELD: transportation. SUBSTANCE: invention relates to aerial ropeway. Method of operating suspension ropeway system with at least two stations of aerial ropeway and with at least one carrying rope [13] located between stations of suspended aerial ropeway, at least one vehicle [15] of aerial ropeway is moved by means of at least one traction cable [14]. At that, by means of at least one measuring device, transport positions of said at least one suspension ropeway vehicle [15] along motion section are determined, said transport positions of said at least one suspension ropeway vehicle [15] along said traffic section are transmitted to a control unit and processed therein, as well as stored therein, and by means of located on said at least one support [12] suspension cableway device input into control unit is entered a signal that on this support [12] suspension cableway is maintenance work, respectively, installation work. At that, by means of control unit at approach of cable car [15] of aerial ropeway to suspension rope road [12] support drive for movement of said at least one vehicle [15] of aerial ropeway is adjusted in the sense that the suspension cableway vehicle [15] in the area of suspension [12] of the aerial ropeway with a speed which is considerably reduced relative to the operating speed is moved, respectively, delayed. EFFECT: as a result, safety of ropeway, including safety of installation and repair works, is increased. 4 cl, 3 dwg

RU - 16.08.2020



4. [3292033](#) VEHICLE FOR AN ENDLESS CABLEWAY

Int.Class [B61B 12/00](#) Appl.No 18722142 Applicant INNOVA PATENT GMBH Inventor EILER AUGUST

Vehicle [1] for an endless cableway, said vehicle [1] being transportable in a direction of travel [10] by way of an endless traction or conveying cable [2] of the endless cableway, comprising a passenger unit [8] for accommodating passengers, a

EP - 14.03.2018



5. WO2016177877 - VEHICLE FOR AN ENDLESS CABLEWAY



[PCT Biblio. Data](#) [Description](#) [Claims](#) [Drawings](#) [ISR/WOSA/A17\(2\)\[a\]](#) [National Phase](#) [Patent Family](#) [Notices](#) [Documents](#)

[PermaLink](#) [Machine translation](#)

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PCT/EP2016/060175

International Filing Date

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CPC

B61B 12/002

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Filing Language

German [de]

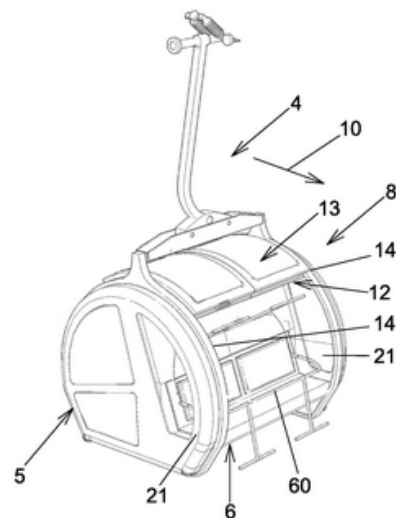
Title

[DE] FAHRZEUG FÜR EINE UMLAUFSEILBAHN

[EN] VEHICLE FOR AN ENDLESS CABLEWAY

[FR] VÉHICULE POUR UN TÉLÉPHÉRIQUE À CÂBLE SANS FIN

Fig. 3



Abstract

[DE] Fahrzeug [1] für eine **Umlaufseilbahn**, welches mit einem umlaufenden Zug- oder Förderseil [2] der **Umlaufseilbahn** in eine Fahrrichtung [10] transportierbar ist, umfassend eine Fahrgasteinheit [8] zur Aufnahme von Fahrgästen, eine Klemmvorrichtung [3] zur Verbindung des Fahrzeugs [1] mit einem umlaufenden Zug- oder Förderseil [2] der **Umlaufseilbahn** und ein Gehänge [4], an welchem die Fahrgasteinheit [8] angebracht ist und welches mit der Klemmvorrichtung [3] verbunden ist, wobei die Fahrgasteinheit [8] mindestens ein, insbesondere zumindest bereichsweise durchsichtig ausgebildetes, Schiebeelement [12, 13] aufweist, welches im Bereich von gegenüberliegenden Rändern von Schiebeführungen [14, 14', 15, 15'] verschiebbar geführt ist. Die Schiebeführungen [14, 14', 15, 15'] verlaufen bogenförmig und das Schiebeelement [12, 13] ist zwischen einer heruntergeschobenen Schließstellung und einer hinaufgeschobenen Offenstellung verschiebbar.

[EN] Vehicle [1] for an endless **cableway**, said vehicle [1] being transportable in a direction of travel [10] by way of an endless traction or conveying cable [2] of the endless **cableway**, comprising a passenger unit [8] for accommodating passengers, a clamping device [3] for connecting the vehicle [1] to a circulating traction or conveying cable [2] of the endless **cableway** and a suspension means [4] to which the passenger unit [8] is attached and which is connected to the clamping device [3], wherein the passenger unit [8] has at least one sliding element [12, 13] that is configured in particular at least regionally in a transparent manner, said sliding element [12, 13] being guided in a slidable manner in the region of opposite edges of sliding guides [14, 14', 15, 15']. The sliding guides [14, 14', 15, 15'] extend in an arcuate manner and the sliding element [12, 13] is slidable between a pushed-down **closed position** and a pushed-up **open position**.

EN_AB:("cable car" OR "cableway" OR "cable wagon"~21 OR "rope car"~21 OR "rope wagon"~21) OR FR_AB:("téléphérique" OR "télécabine" OR "câble" OR "téléférique" OR "blondin" OR "téléphéragé") OR DE_AB:("Seilbahn" OR "

127,413 results Offices all Languages all Stemming true Single Family Member false Include NPL false



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1/1,275

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Relevance

Pub Date Desc

Pub Date Asc

App Date Desc

App Date Asc

10

50

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Simple

Double

All

All+Image

Image

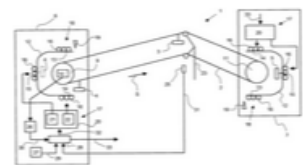
Multi-columns

R SUSPENSION ROPEWAY

БАБА Матье (FR)

Suspension ropeway, in particular, for transportation of people in cable cars. Transport installation of suspension ropeway (2) includes at least two cars (3-5), in each of which is provided with a suspension rope (1) and at least one connecting device (17) of cars (3-5) with suspension ropeway (2); and at least one bending support (23, 24, 40) of suspension ropeway (2); also contains detection facility (25-27) intended for detection of movement of the first car connected to suspension ropeway (2) through specified support (23, 24, 40). Effect is detected, and control means (28) of said connecting device (17) connected to detection means (25-27) and configured to transmit a command to connect at least one car (3-5) to suspension ropeway (2) in response to detection signal. EFFECT: electric power consumption of the suspension ropeway drive motor is reduced and, due to limitation of generated jerks, passenger comfort is improved. 2 cl, 3 dwg

RU - 29.05.2019

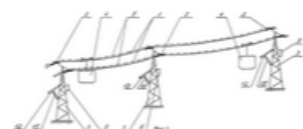


2. 02184665 AERIAL TRAMWAY

Int.Class B61B 7/02 Appl.No 2000115152/28 Applicant Juzhno-Rossijskij gosudarstvennyj tekhnicheskij universitet [Novocherkasskij politekhnicheskij institut] Inventor Khal'fin M.N.

FIELD: road building; tramways. SUBSTANCE: proposed aerial tramway has carrying wire ropes resting of shoes hinge-secured on line supports. Cars are installed on carrying wire ropes. Cars are moved under action of hauling wire rope. Aerial tramway has car motion stabilizer which includes hydraulic motor mechanically connected with shoe axle and hydraulic connected with control restrictor. Level is hinge-mounted on line support. Free end of lever is connected with control restrictor by kinematic tie. Lever is connected with line support by means of multiple-core spring to kill vibrations of lever. EFFECT: improved reliability of aerial tramway by adjusting torsional rigidity of shoes. 2 dwg

RU - 10.07.2002

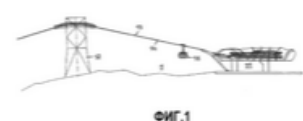


3. 0002723573 OPERATING METHOD OF SUSPENDED CABLE RAILWAY SYSTEM AND SUSPENSION CABLEWAY SYSTEM FOR IMPLEMENTATION OF OPERATION METHOD THEREOF

Int.Class B61B 12/06 Appl.No 2019119831 Applicant Inventor МАТИС, Михаэль (AT)

FIELD: transportation. SUBSTANCE: invention relates to aerial ropeway. Method of operating suspension ropeway system with at least two stations of aerial ropeway and with at least one carrying rope (13) located between stations of suspended aerial ropeway, at least one vehicle (15) of aerial ropeway is moved by means of at least one traction cable (14). At that, by means of at least one measuring device, transport positions of said at least one vehicle (15) of aerial ropeway along motion section are determined, said transport positions of said at least one suspension ropeway vehicle (15) along said traffic section are transmitted to a control unit and processed therein, as well as stored therein, and by means of located on said at least one support (12) suspension cableway device input into control unit is entered a signal that on this support (12) suspension cableway is maintenance work, respectively, installation work. At that, by means of control unit at approach of cable car (15) of aerial ropeway to suspension rope road (12) support drive for movement of said at least one vehicle (15) of aerial ropeway is adjusted in the sense that the suspension cableway vehicle (15) in the area of suspension (12) of the aerial ropeway with a speed which is considerably reduced relative to the operating speed is moved, respectively, delayed. EFFECT: as a result, safety of ropeway, including safety of installation and repair works, is increased. 4 cl, 3 dwg

RU - 18.08.2020



4. 3292033 VEHICLE FOR AN ENDLESS CABLEWAY

Int.Class B61B 12/00 Appl.No 16722142 Applicant INNOVA PATENT GMBH Inventor EILER AUGUST

Vehicle (1) for an endless cableway, said vehicle (1) being transportable in a direction of travel (10) by way of an endless traction or conveying cable (2) of the endless cableway, comprising a passenger unit (8) for accommodating passengers, a

EP - 14.03.2018



EN_AB:("cable car" OR "cableway" OR "cable wagon"~21 OR "rope car"~21 OR "rope wagon"~21) OR FR_AB:("téléphérique" OR "télécabine" OR "câble" OR "téléférique" OR "blondin" OR "téléphéage") OR DE_AB:("Seilbahn" OR "

127,413 results Offices all Languages all Stemming true Single Family Member false Include NPL false

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1. [000268992](#)

Int.Class [B61B 12](#)

FIELD: transportat
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Offices

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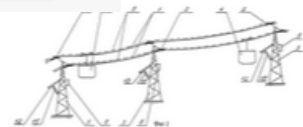
Single Family Member

Include NPL

2. [02184665](#)

Int.Class [B61B 7/02](#) Appl.No [2000115152/28](#) Applicant [Juzhno-Rossijskij gosudarstvennyj tekhnicheskij universitet \(Novocherkasskij politekhnicheskij institut\)](#) Inventor [Khal'tin M.N.](#)

FIELD: road building; tramways. SUBSTANCE: proposed aerial tramway has carrying wire **ropes** resting of shoes hinge-secured on line supports. **Cars** are installed on carrying wire **ropes**. **Cars** are moved under action of hauling wire **rope**. Aerial tramway has **car** motion stabilizer which includes hydraulic motor mechanically connected with shoe axle and hydraulic connected with control restrictor. Level is hinge-mounted on line support. Free end of lever is connected with control restrictor by kinematic tie. Lever is connected with line support by means of multiple-core spring to kill vibrations of lever. EFFECT: improved reliability of aerial tramway by adjusting torsional rigidity of shoes. 2 dwg



3. [0002723573](#) OPERATING METHOD OF SUSPENDED CABLE RAILWAY SYSTEM AND SUSPENSION CABLEWAY SYSTEM FOR IMPLEMENTATION OF OPERATION METHOD THEREOF

Int.Class [B61B 12/08](#) Appl.No [2019119831](#) Applicant [МАТИС, Михаэль \(АТ\)](#) Inventor [МАТИС, Михаэль \(АТ\)](#)

FIELD: transportation. SUBSTANCE: invention relates to aerial ropeway. Method of operating suspension ropeway system with at least two stations of aerial ropeway and with at least one carrying rope [13] located between stations of suspended aerial ropeway, at least one vehicle [15] of aerial ropeway is moved by means of at least one traction cable [14]. At that, by means of at least one measuring device, transport positions of said at least one vehicle [15] of aerial ropeway along motion section are determined, said transport positions of said at least one suspension ropeway vehicle [15] along said traffic section are transmitted to a control unit and processed therein, as well as stored therein, and by means of located on said at least one support [12] suspension **cableway** device input into control unit is entered a signal that on this support [12] suspension **cableway** is maintenance work, respectively, installation work. At that, by means of control unit at approach of **cable car** [15] of aerial ropeway to suspension **rope** road [12] support drive for movement of said at least one vehicle [15] of aerial ropeway is adjusted in the sense that the suspension **cableway** vehicle [15] in the area of suspension [12] of the aerial ropeway with a speed which is considerably reduced relative to the operating speed is moved, respectively, delayed. EFFECT: as a result, safety of ropeway, including safety of installation and repair works, is increased. 4 cl, 3 dwg



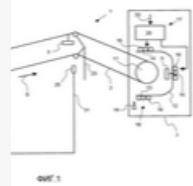
4. [3292033](#) VEHICLE FOR AN ENDLESS CABLEWAY

Int.Class [B61B 12/00](#) Appl.No [16722142](#) Applicant [INNOVA PATENT GMBH](#) Inventor [EILER AUGUST](#)

Vehicle [1] for an endless **cableway**, said vehicle [1] being transportable in a direction of travel [10] by way of an endless traction or conveying cable [2] of the endless **cableway**, comprising a passenger unit [8] for accommodating passengers, a



RU - 29.05.2019



RU - 10.07.2002

RU - 16.06.2020

EP - 14.03.2018

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127,413 results Offices all Languages all Stemming true Single Family Member false Include NPL false



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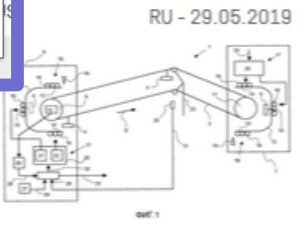
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100 results
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1. [0002689928](#) PLANT AND METHOD FOR TRANSPORTATION OVER SUSPENSION ROPEWAY

Int.Class [B61B 12/06](#) ? Appl.No 2015138489 Applicant Inventor БАБА Матъе (FR)

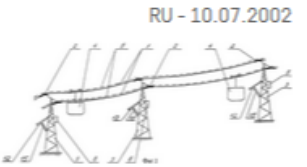
FIELD: transportation. SUBSTANCE: invention relates to transportation by suspension ropeway, in particular, to transportation of people in **cable cars**. Transport installation of suspension ropeway [2] includes at least two cars [3-5], in each of which there is a detachable clamp for disconnection of car and connection of car to suspension ropeway [2]; at least one connecting device [17] of cars [3-5] with suspension ropeway [2]; and at least one bending support [23, 24, 40] of suspension ropeway [2]. At that, transport installation of suspension ropeway also contains detection facility [25-27] intended for detection of movement of the first car connected to suspension ropeway [2] through specified support [23, 24, 40], made with possibility to transfer at least one connection signal when movement is detected, and control means [28] of said connecting device [17] connected to detection means [25-27] and configured to transmit a command to connect at least one second car with suspension ropeway [2] when receiving said connection signal. EFFECT: electric power consumption of the suspension ropeway drive motor is reduced and, due to limitation of generated jerks, passenger comfort is provided. 18 cl, 5 dwg



2. [02184665](#) AERIAL TRAMWAY

Int.Class [B61B 7/02](#) ? Appl.No 2000115152/28 Applicant Juzhno-Rossijskij gosudarstvennyj tekhnicheskij universitet [Novocherkasskij politekhnicheskij institut] Inventor Khal'fin M.N.

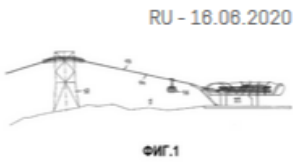
FIELD: road building; tramways. SUBSTANCE: proposed aerial tramway has carrying wire **ropes** resting of shoes hinge-secured on line supports. **Cars** are installed on carrying wire **ropes**. **Cars** are moved under action of hauling wire **rope**. Aerial tramway has **car** motion stabilizer which includes hydraulic motor mechanically connected with shoe axle and hydraulic connected with control restrictor. Level is hinge-mounted on line support. Free end of lever is connected with control restrictor by kinematic tie. Lever is connected with line support by means of multiple-core spring to kill vibrations of lever. EFFECT: improved reliability of aerial tramway by adjusting torsional rigidity of shoes. 2 dwg



3. [0002723573](#) OPERATING METHOD OF SUSPENDED CABLE RAILWAY SYSTEM AND SUSPENSION CABLEWAY SYSTEM FOR IMPLEMENTATION OF OPERATION METHOD THEREOF

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4. [3292033](#) VEHICLE FOR AN ENDLESS CABLEWAY

Int.Class [B61B 12/00](#) ? Appl.No 16722142 Applicant INNOVA PATENT GMBH Inventor EILER AUGUST

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127,413 results Offices all Languages all Stemming true Single Family Member false Include NPL false



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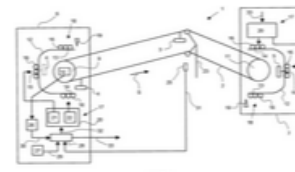
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1. [0002689928](#) PLANT AND METHOD FOR TRANSPORTATION OVER SUSPENSION ROPEWAY

Int.Class [B61B 12/06](#) Appl.No 2015138489 Applicant Inventor БАБА Матье (FR)

FIELD: transportation. SUBSTANCE: invention relates to transportation by suspension ropeway, in particular, to transportation of people in **cable cars**. Transport installation of suspension ropeway [2] includes at least two cars [3-5], in each of which there is a detachable clamp for disconnection of car and connection of car to suspension ropeway [2]; at least one connecting device [17] of cars [3-5] with suspension ropeway [2]; and at least one bending support [23, 24, 40] of suspension ropeway [2]. At that, transport installation of suspension ropeway also contains detection facility [25-27] intended for detection of movement of the first car connected to suspension ropeway [2] through specified support [23, 24, 40], made with possibility to transfer at least one connection signal when movement is detected, and control means [28] of said connecting device [17] connected to detection means [25-27] and configured to transmit a command to connect at least one second car with suspension ropeway [2] when receiving said connection signal. EFFECT: electric power consumption of the suspension ropeway drive motor is reduced and, due to limitation of generated jerks, passenger comfort is provided. 16 cl, 5 dwg

RU - 29.05.2019

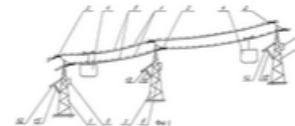


2. [02184665](#) AERIAL TRAMWAY

Int.Class [B61B 7/02](#) Appl.No 2000115152/28 Applicant Juzhno-Rossijskij gosudarstvennyj tekhnicheskij universitet [Novocherkasskij politekhnicheskij institut] Inventor Khal'fin M.N.

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RU - 10.07.2002

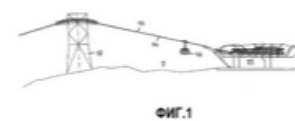


3. [0002723573](#) OPERATING METHOD OF SUSPENDED CABLE RAILWAY SYSTEM AND SUSPENSION CABLEWAY SYSTEM FOR IMPLEMENTATION OF OPERATION METHOD THEREOF

Int.Class [B61B 12/06](#) Appl.No 2019119831 Applicant Inventor МАТИС, Михаэль (AT)

FIELD: transportation. SUBSTANCE: invention relates to aerial ropeway. Method of operating suspension ropeway system with at least two stations of aerial ropeway and with at least one carrying rope [13] located between stations of suspended aerial ropeway, at least one vehicle [15] of aerial ropeway is moved by means of at least one traction cable [14]. At that, by means of at least one measuring device, transport positions of said at least one vehicle [15] of aerial ropeway along motion section are determined, said transport positions of said at least one suspension ropeway vehicle [15] along said traffic section are transmitted to a control unit and processed therein, as well as stored therein, and by means of located on said at least one support [12] suspension **cableway** device input into control unit is entered a signal that on this support [12] suspension **cableway** is maintenance work, respectively, installation work. At that, by means of control unit at approach of **cable car** [15] of aerial ropeway to suspension **rope** road [12] support drive for movement of said at least one vehicle [15] of aerial ropeway is adjusted in the sense that the suspension **cableway** vehicle [15] in the area of suspension [12] of the aerial ropeway with a speed which is considerably reduced relative to the operating speed is moved, respectively, delayed. EFFECT: as a result, safety of ropeway, including safety of installation and repair works, is increased. 4 cl, 3 dwg

RU - 18.06.2020



4. [3292033](#) VEHICLE FOR AN ENDLESS CABLEWAY

Int.Class B61B 12/00 Appl.No 18722142 Applicant INNOVA PATENT GMBH Inventor EILER AUGUST

EP - 14.03.2018



Relevance ▾ 100 ▾ All+Image ▾

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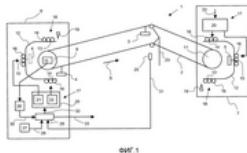
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1. [0002689928](#) PLANT AND METHOD FOR TRANSPORTATION OVER SUSPENSION ROPEWAY

RU - 29.05.2019

Int.Class [B61B 12/06](#) [?](#) Appl.No 2015136489 Applicant Inventor БАБА Матье [FR]

FIELD: transportation. SUBSTANCE: invention relates to transportation by suspension ropeway, in particular, to transportation of people in **cable cars**. Transport installation of suspension ropeway [2] includes at least two cars [3-5], in each of which there is a detachable clamp for disconnection of car and connection of car to suspension ropeway [2]; at least one



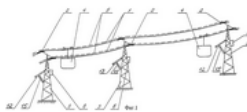
2. [02184665](#) AERIAL TRAMWAY

RU - 10.07.2002

Int.Class [B61B 7/02](#) [?](#) Appl.No 2000115152/28

Applicant Juzhno-Rossijskij gosudarstvennyj tekhnicheskij universitet [Novocherkasskij politekhnicheskij institut]
Inventor Khal'fin M.N.

FIELD: road building; tramways. SUBSTANCE: proposed aerial tramway has carrying wire **ropes** resting of shoes hinge-secured on line supports. **Cars** are installed on carrying wire **ropes**. **Cars** are moved under action of hauling wire **rope**. Aerial tramway has **car** motion stabilizer which includes hydraulic motor mechanically connected with shoe axle and hydraulic connected

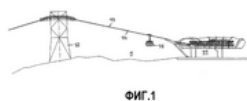


3. [0002723573](#) OPERATING METHOD OF SUSPENDED CABLE RAILWAY SYSTEM AND SUSPENSION CABLEWAY SYSTEM FOR IMPLEMENTATION OF OPERATION METHOD THEREOF

RU - 18.06.2020

Int.Class [B61B 12/06](#) [?](#) Appl.No 2019119831 Applicant Inventor МАТИС, Михаэль [AT]

FIELD: transportation. SUBSTANCE: invention relates to aerial ropeway. Method of operating suspension ropeway system with at least two stations of aerial ropeway and with at least one carrying rope [13] located between stations of suspended aerial ropeway, at least one vehicle [15] of aerial ropeway is moved by means of at least one traction cable [14]. At that, by means



4. [3292033](#) VEHICLE FOR AN ENDLESS CABLEWAY

EP - 14.03.2018

Int.Class [B61B 12/00](#) [?](#) Appl.No 18722142 Applicant INNOVA PATENT GMBH Inventor EILER AUGUST

Vehicle [1] for an endless **cableway**, said vehicle [1] being transportable in a direction of travel [10] by way of an endless traction or conveying cable [2] of the endless **cableway**, comprising a passenger unit [8] for accommodating passengers, a



1. RU0002689928 - PLANT AND METHOD FOR TRANSPORTATION OVER SUSPENSION ROPEWAY

National Biblio. Data Description Claims Drawings Patent Family

PermaLink Machine translation ▾

Office

Russian Federation

Application Number

2015136489

Application Date

27.08.2015

Publication Number

0002689928

Publication Date

29.05.2019

Grant Number

Grant Date

29.05.2019

Publication Kind

C2

IPC

[B61B 12/06](#) [B61B 7/04](#) [B61B 12/04](#)

CPC

[B61B 12/06](#) [Y02T 30/00](#) [B61B 7/04](#)

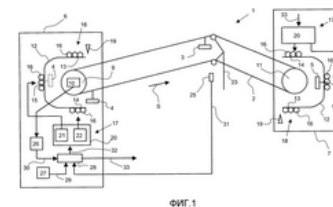
[B61B 12/04](#)

Inventors

БАБА М

Title

[EN] PLANT AND METHOD FOR TRANSPORTATION OVER SUSPENSION ROPEWAY
[RU] УСТАНОВКА И СПОСОБ ДЛЯ ТРАНСПОРТИРОВКИ ПО ПОДВЕСНОЙ КАНАТНОЙ ДОРОГЕ



Abstract

[EN] FIELD: transportation. SUBSTANCE: invention relates to transportation by suspension ropeway, in particular, to transportation of people in **cable cars**. Transport installation of suspension ropeway [2] includes at least two cars [3-5], in each of which there is a detachable clamp for disconnection of car and connection of car to suspension ropeway [2]; at least one connecting device [17] of cars [3-5] with suspension ropeway [2]; and at least one bending support [23, 24, 40] of suspension ropeway [2]. At that, transport installation of suspension ropeway also contains detection facility [25-27] intended for detection of movement of the first car connected to suspension ropeway [2] through specified support [23, 24, 40], made with possibility to transfer at least one connection signal when movement is detected, and control means [28] of said connecting device [17] connected to detection means [25-27] and configured to transmit a command to connect at least one second car with suspension ropeway [2] when receiving said connection signal. EFFECT: electric power consumption of the suspension ropeway drive motor is reduced and, due to limitation of generated jerks, passenger comfort is provided. 16 cl, 5 dwg

[RU] Изобретение относится к транспортировке по **подвесной канатной дороге**, в частности к транспортировке людей в **вагонах канатных дорог**. Транспортная установка **подвесной канатной дороги** [2] содержит по меньшей мере два **вагона** [3-5], в каждом из которых предусмотрен отсоединяемый зажим для отсоединения **вагона** и соединения **вагона** с **подвесной канатной дорогой** [2]; по меньшей мере одно соединительное устройство [17] **вагона** [3-5] с **подвесной канатной дорогой** [2]; и по меньшей мере одну изгибающую опору

EN_AB:("cable car" OR "cableway" OR "cable wagon"~21 OR "rope car"~21 OR "rope wagon"~21) OR FR_AB:("téléphérique" OR "télécabine" OR "câble" OR "téléférique" OR "blondin" OR "téléphéage") OR DE_AB:("Seilbahn" OR "



27,413 results Offices all Languages all Stemming true Single Family Member false Include NPL false



Sort: Relevance ▾ Per page: 100 ▾ View: All+Image ▾

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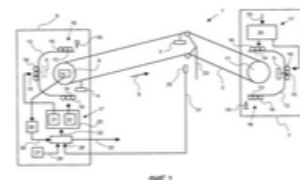
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1. [0002689928](#) PLANT AND METHOD FOR TRANSPORTATION OVER SUSPENSION ROPEWAY

Int.Class [B61B 12/06](#) Appl.No 2015138489 Applicant Inventor БАБА Матъе (FR)

FIELD: transportation. SUBSTANCE: invention relates to transportation by suspension ropeway, in particular, to transportation of people in **cable cars**. Transport installation of suspension ropeway [2] includes at least two cars [3-5], in each of which there is a detachable clamp for disconnection of car and connection of car to suspension ropeway [2]; at least one connecting device [17] of cars [3-5] with suspension ropeway [2]; and at least one bending support [23, 24, 40] of suspension ropeway [2]. At that, transport installation of suspension ropeway also contains detection facility [25-27] intended for detection of movement of the first car connected to suspension ropeway [2] through specified support [23, 24, 40], made with possibility to transfer at least one connection signal when movement is detected, and control means [28] of said connecting device [17] connected to detection means [25-27] and configured to transmit a command to connect at least one second car with suspension ropeway [2] when receiving said connection signal. EFFECT: electric power consumption of the suspension ropeway drive motor is reduced and, due to limitation of generated jerks, passenger comfort is provided. 18 cl, 5 dwg

RU - 29.05.2019

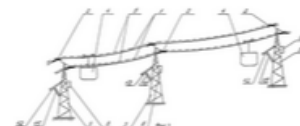


2. [02184665](#) AERIAL TRAMWAY

Int.Class [B61B 7/02](#) Appl.No 2000115152/28 Applicant Juzhno-Rossijskij gosudarstvennyj tekhnicheskij universitet [Novocherkasskij politekhnicheskij institut] Inventor Khal'fin M.N.

FIELD: road building; tramways. SUBSTANCE: proposed aerial tramway has carrying wire **ropes** resting of shoes hinge-secured on line supports. **Cars** are installed on carrying wire **ropes**. **Cars** are moved under action of hauling wire **rope**. Aerial tramway has **car** motion stabilizer which includes hydraulic motor mechanically connected with shoe axle and hydraulic connected with control restrictor. Level is hinge-mounted on line support. Free end of lever is connected with control restrictor by kinematic tie. Lever is connected with line support by means of multiple-core spring to kill vibrations of lever. EFFECT: improved reliability of aerial tramway by adjusting torsional rigidity of shoes. 2 dwg

RU - 10.07.2002

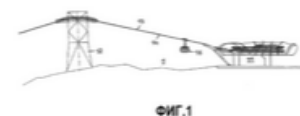


3. [0002723573](#) OPERATING METHOD OF SUSPENDED CABLE RAILWAY SYSTEM AND SUSPENSION CABLEWAY SYSTEM FOR IMPLEMENTATION OF OPERATION METHOD THEREOF

Int.Class [B61B 12/06](#) Appl.No 2019119831 Applicant Inventor МАТИС, Михаэль (AT)

FIELD: transportation. SUBSTANCE: invention relates to aerial ropeway. Method of operating suspension ropeway system with at least two stations of aerial ropeway and with at least one carrying rope [13] located between stations of suspended aerial ropeway, at least one vehicle [15] of aerial ropeway is moved by means of at least one traction cable [14]. At that, by means of at least one measuring device, transport positions of said at least one vehicle [15] of aerial ropeway along motion section are determined, said transport positions of said at least one suspension ropeway vehicle [15] along said traffic section are transmitted to a control unit and processed therein, as well as stored therein, and by means of located on said at least one support [12] suspension **cableway** device input into control unit is entered a signal that on this support [12] suspension **cableway** is maintenance work, respectively, installation work. At that, by means of control unit at approach of **cable car** [15] of aerial ropeway to suspension **rope** road [12] support drive for movement of said at least one vehicle [15] of aerial ropeway is adjusted in the sense that the suspension **cableway** vehicle [15] in the area of suspension [12] of the aerial ropeway with a speed which is considerably reduced relative to the operating speed is moved, respectively, delayed. EFFECT: as a result, safety of ropeway, including safety of installation and repair works, is increased. 4 cl, 3 dwg

RU - 18.06.2020



4. [3292033](#) VEHICLE FOR AN ENDLESS CABLEWAY

Int.Class [B61B 12/00](#) Appl.No 16722142 Applicant INNOVA PATENT GMBH Inventor EILER AUGUST

Vehicle [1] for an endless **cableway**, said vehicle [1] being transportable in a direction of travel [10] by way of an endless traction or conveying cable [2] of the endless **cableway**, comprising a passenger unit [8] for accommodating passengers, a

EP - 14.03.2018



ANALYSIS

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Countries		Offices		Applicants		IPC code		CPC code		Publication Dates		Kind code	
PCT	58,180	PCT	58,180	MITSUBISHI ELECTRIC CO	1,239	H01R	11,253	h01r	6,294	1993	1,414	A	62,158
European Patent Office	29,878	European Patent Office	35,255	SIEMENS AG	896	H02G	10,641	h02g	5,488	1994	1,459	B1	27,646
France	17,045	China	23,470	KONE CO	842	H01B	8,630	g02b	4,571	1995	1,529	A1	15,981
China	10,048	United States of America	17,752	BRIDGESTONE CO	753	G02B	7,873	h01b	4,448	1996	1,717	U	5,619
Russian Federation	4,120	France	17,045	SUMITOMO WIRING SYSTEMS LTD	750	B66B	7,780	y10t	3,339	1997	2,108	A4	4,456
Japan	2,177	Canada	6,570	SUMITOMO ELECTRIC INDUSTRIES LTD	691	A61B	4,084	a61b	2,579	1998	2,228	C1	1,567
Russian Federation(USSR data)	1,876	Russian Federation	6,222	YAZAKI CO	639	B61B	3,905	y02e	2,328	1999	2,296	B2	1,533
Canada	1,682	Republic of Korea	6,040	NEXANS	596	H04L	3,481	h04l	2,308	2000	2,698	A2	1,484
Spain	764	Japan	5,166	HITACHI LTD	586	E21B	3,334	h04n	2,066	2001	2,823	B	1,469
United States of America	632	Germany	3,343	ADC TELECOMMUNICATIONS INC	495	H04B	3,199	e21b	1,980	2002	3,009	U1	1,137
Republic of Korea	566	India	2,863	COMMSCOPE TECH LLC	492	H04N	3,127	h04b	1,978	2003	2,950	C	961
United Kingdom	484	Brazil	2,669	AUTONETWORKS TECH LTD	462	F16L	3,012	g06f	1,746	2004	3,095	C2	902
Portugal	353	Mexico	1,959	INNOVA PATENT GMBH	452	G06F	2,920	g01r	1,474	2005	3,046	T3	748
Germany	189	Russian Federation(USSR data)	1,876	HUAWEI TECH CO LTD	444	G01R	2,552	b60r	1,436	2006	3,026	A3	452
Eurasian Patent Organization	169	United Kingdom	1,529	PRYSMIAN SPA	406	B60R	2,471	f16l	1,416	2007	3,456	B3	359
Australia	157	Norway	1,432	HALLIBURTON ENERGY SERVICES INC	371	E01D	2,466	h05k	1,398	2008	3,884	E	352
Brazil	138	New Zealand	862	PEUGEOT CITROEN	369	B66C	2,315	h02j	1,339	2009	3,980	Y	181
Poland	127	Spain	841			B60C	2,064	b66b	1,210	2010	4,028	B8	154
						B63B	2,029	y02t	1,104	2011	4,261	B9	42

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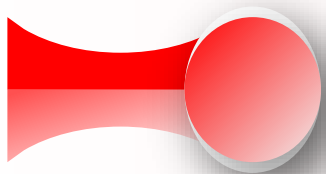
Offices	Applicants	Inventors	IPC code	CPC code	Publication Dates	Kind code
United States of America	GENENTECH INC	RIEL-MEHAN, MICHAEL	601N	c12q 1/6886	2007	A
PCI	NOVARTIS AG	ZHANG ZHEN	C12Q	C12Q 2600/108	2008	A1
China	THE JOHNS HOPKINS UNIVERSITY	NAKAMURA YUSUKE	A61K	g01n	2009	B2
European Patent Office	DANA FARBER CANCER INSTITUTE INC	DAIGO YATARO	C12N	a61p 35/00	2010	B1
Canada	SOMALOGIC INC	GOLD, LARRY	C07K	c12q	2011	NPL
Republic of Korea	THE UNIVERSITY OF ULSAN	JEDDELOH JEFFREY A.	A61P	c12q 2600/118	2012	B

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固的右干上挂杆，大环的两侧均安装有悬挂表面，限位垫的一端安装有弹簧，上固定杆的一端设置有一下杆，下固定杆的一端设置有第二卡杆，该线束KIT车，第一卡杆和第二卡杆卡紧，并将挂环固定在悬挂杆整体内部，而悬挂杆设置在夹环的两侧进而使得布线人员能够在车体两侧进行组装工作，减少布线人员的走动，从而提高工作效率，安装板和凹槽为垂直状态，安装板卡在凹槽表面，线束能够从钩槽处取出，安装板与凹槽平行状态时，安装板卡入凹槽内部，使得钩槽卡在凹槽内，能够将线束固定在挂钩内，便于对线束的取拿与放置。

Language pair:

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Domain:

AUTO-Automotive & Road Vehicle Engineering ▾

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the invention relates to the technical field of machinery, in particular to a wire harness kit vehicle which comprises a vehicle body, a foot wheel installed at the bottom of the car body, and a plurality of hanging rods arranged on the outer surface of the car body; the two sides of the clamping ring are respectively provided with a suspension device, a spring is arranged at one end of the limiting pad, a first clamping rod is arranged at one end of the upper fixing rod, and a second clamping rod is arranged at one end of the lower fixing rod, the wire harness kit vehicle, the first clamping rod and the second clamping rod are clamped, and the hanging ring is fixed in the whole suspension rod, and the suspension rods are arranged on the two sides of the clamp ring, so that the wiring personnel can assemble and work on the two sides of the vehicle body, the walking of wiring personnel is reduced, so that the working efficiency is improved, the mounting plate and the groove are in a vertical state, and the mounting plate is clamped on the surface of the groove, the wire harness can be taken out from the hook groove, and when the mounting plate is parallel to the groove, the mounting plate is clamped into the groove, so that the hook groove is clamped in the groove, the wire harness can be fixed in the hook, and the wire harness can be taken and placed conveniently.

Edit translation

本实用新型涉及机械技术领域，尤其为一种线束 kit 车，包括车体，安装在车体底部的脚轮以及安装在车体外表面的若干个挂杆，夹环的两侧均安装有悬挂装置，限位垫的一端安装有弹簧，上固定杆的一端设置有第一卡杆，下固定杆的一端设置有第二卡杆，该线束 kit 车，第一卡杆和第二卡杆卡紧，并将挂环固定在悬挂杆整体内部，而悬挂杆设置在夹环的两侧，进而使得布线人员能够在车体两侧进行组装工作，减少布线人员的走动，从而提高工作效率，安装板和凹槽为垂直状态，安装板卡在凹槽表面，线束能够从钩槽处取出，安装板与凹槽平行状态时，安装板卡入凹槽内部，使得钩槽卡在凹槽内，能够将线束固定在挂钩内，便于对线束的取拿与放置。

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the invention relates to the technical field of machinery, in particular to a wire harness kit vehicle which comprises a vehicle body, a foot wheel installed at the bottom of the car body, and a plurality of hanging rods arranged on the outer surface of the car body; the two sides of the clamping ring are respectively provided with a suspension device, a spring is arranged at one end of the limiting pad, a first clamping rod is arranged at one end of the upper fixing rod, and a second clamping rod is arranged at one end of the lower fixing rod, the wire harness kit vehicle, the first clamping rod and the second clamping rod are clamped, and the hanging ring is fixed in the whole suspension rod, and the suspension rods are arranged on the two sides of the clamp ring, so that the wiring personnel can assemble and work on the two sides of the vehicle body, the walking of wiring personnel is reduced, so that the working efficiency is improved, the mounting plate and the groove are in a vertical state, and the mounting plate is clamped on the surface of the groove, the wire harness can be taken out from the

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the walking of wiring personnel is reduced, so that the working efficiency is improved, the mounting plate and the groove are in a vertical

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the walking of wiring personnel is reduced, so that the working efficiency is improved, the mounting plate and the groove are in a vertical state, and the mounting plate is clamped on the surface of the groove

the walking of wiring personnel is reduced, **and therefore the working efficiency is improved;** the mounting plate and the groove are in a vertical state, and the mounting plate is clamped on the surface of the groove

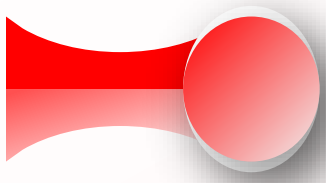
the walking of wiring personnel is reduced, so that the working efficiency is improved, the mounting plate and the groove are in **the** vertical state, and the mounting plate is clamped on the surface of the groove

the walking of wiring personnel is reduced, the working efficiency is improved, the mounting plate and the groove are in a vertical state, and the mounting plate is clamped on the surface of the groove

the walking of wiring personnel is reduced, **and therefore the working efficiency is improved;** the mounting plate and the groove are in **the** vertical state, and the mounting plate is clamped on the surface of the groove

and therefore the working efficiency is improved; the mounting plate and the groove are in a vertical state, and the mounting plate is clamped on the surface of the groove

and the walking of wiring personnel is reduced, so that the working efficiency is improved, the mounting plate and the groove are in a vertical state, and the mounting plate is clamped on the surface of the groove



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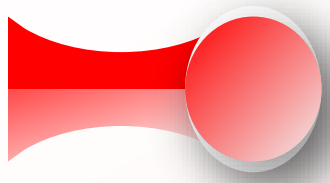
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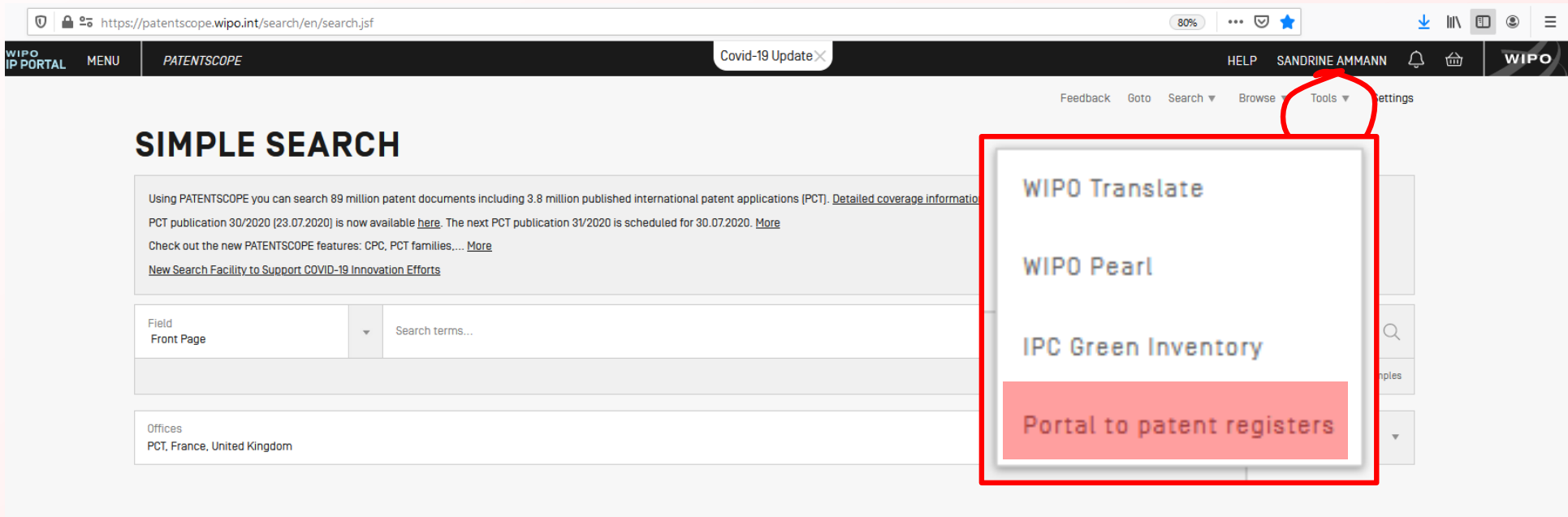
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▾ Fuel cells	H01M 4/86-4/98 , 8/00-8/24 , 12/00-12/08	H01M 4/86-4/98 , 8/00-8/24 , 12/00-12/08
Pyrolysis or gasification of biomass	C10B 53/00	C10B 53/00



Patent Register Portal



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Inventor/Applicant Name

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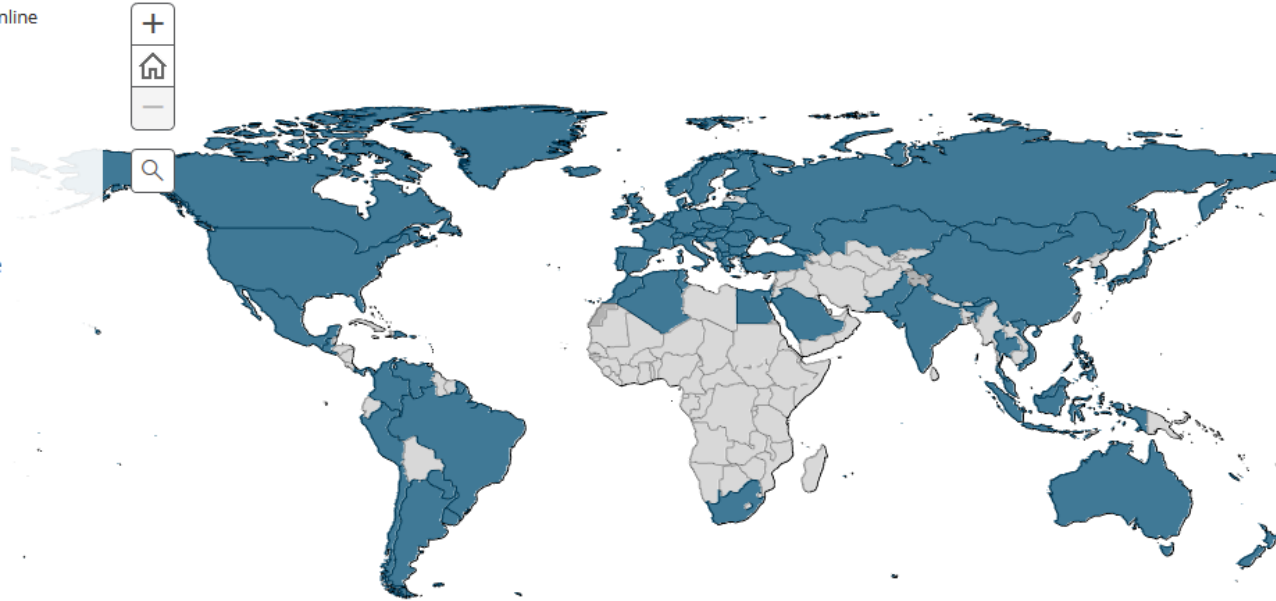
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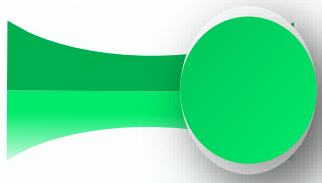
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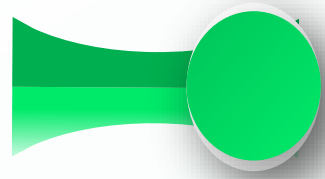
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Title	Kind	Appl.No	IPC	Applicant
1. WO/2019/174287 SLAG RESIDUAL HEAT UTILIZATION DEVICE AND MOLTEN SLAG GRANULATION METHOD	Initial Publication with ISR[A1]	CN2018/1151...	F27D 17/00	NANJING YOU RONG ENERGY-SAVING TECHNOLOGY CO., LTD
2. WO/2019/174288 TOUCH PANEL, PRESSURE TOUCH DETECTION METHOD THEREFOR, AND TOUCH DEVICE	Initial Publication with ISR[A1]	CN2018/1154...	G06F 3/041	BOE TECHNOLOGY GROUP CO., LTD.
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4. WO/2019/174291 CONTROL METHOD FOR PORTABLE READ-WRITE PEN AND PORTABLE READ-WRITE PEN	Initial Publication with ISR[A1]	CN2018/1159...	G06F 3/033	MPEN TECHNOLOGY (SHENZHEN) CO., LTD.
5. WO/2019/174292 PRINT, AND PRODUCTION METHOD AND PRODUCTION SYSTEM FOR TOUCH-AND-TALK CONTENT OF PRINT	Initial Publication with ISR[A1]	CN2018/1159...	G09B 5/06	MPEN TECHNOLOGY (SHENZHEN) CO., LTD



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<input type="checkbox"/>	A61P 35/00 ?	<u>62</u>	<u>53</u>	<u>78</u>	<u>63</u>	<u>44</u>	<u>300</u>	-19	-20.00
<input type="checkbox"/>	H04N 19/176 ?	<u>28</u>	<u>8</u>	<u>23</u>	<u>40</u>	<u>42</u>	<u>141</u>	+2	+17.25
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<input type="checkbox"/>	A24F 47/00 ?	<u>15</u>	<u>22</u>	<u>21</u>	<u>30</u>	<u>28</u>	<u>116</u>	-2	+6.00



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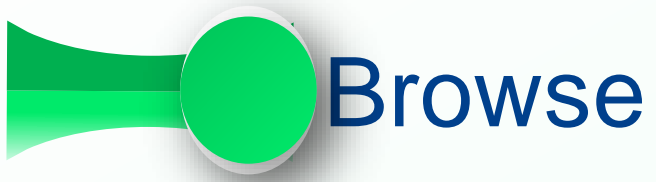
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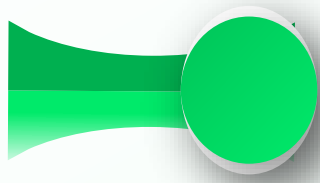
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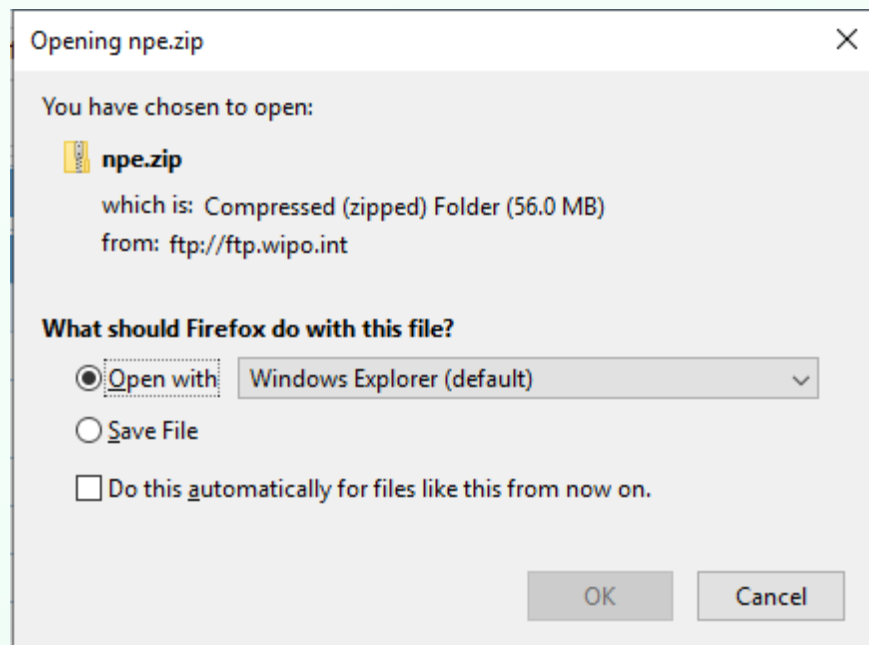
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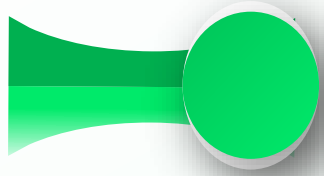
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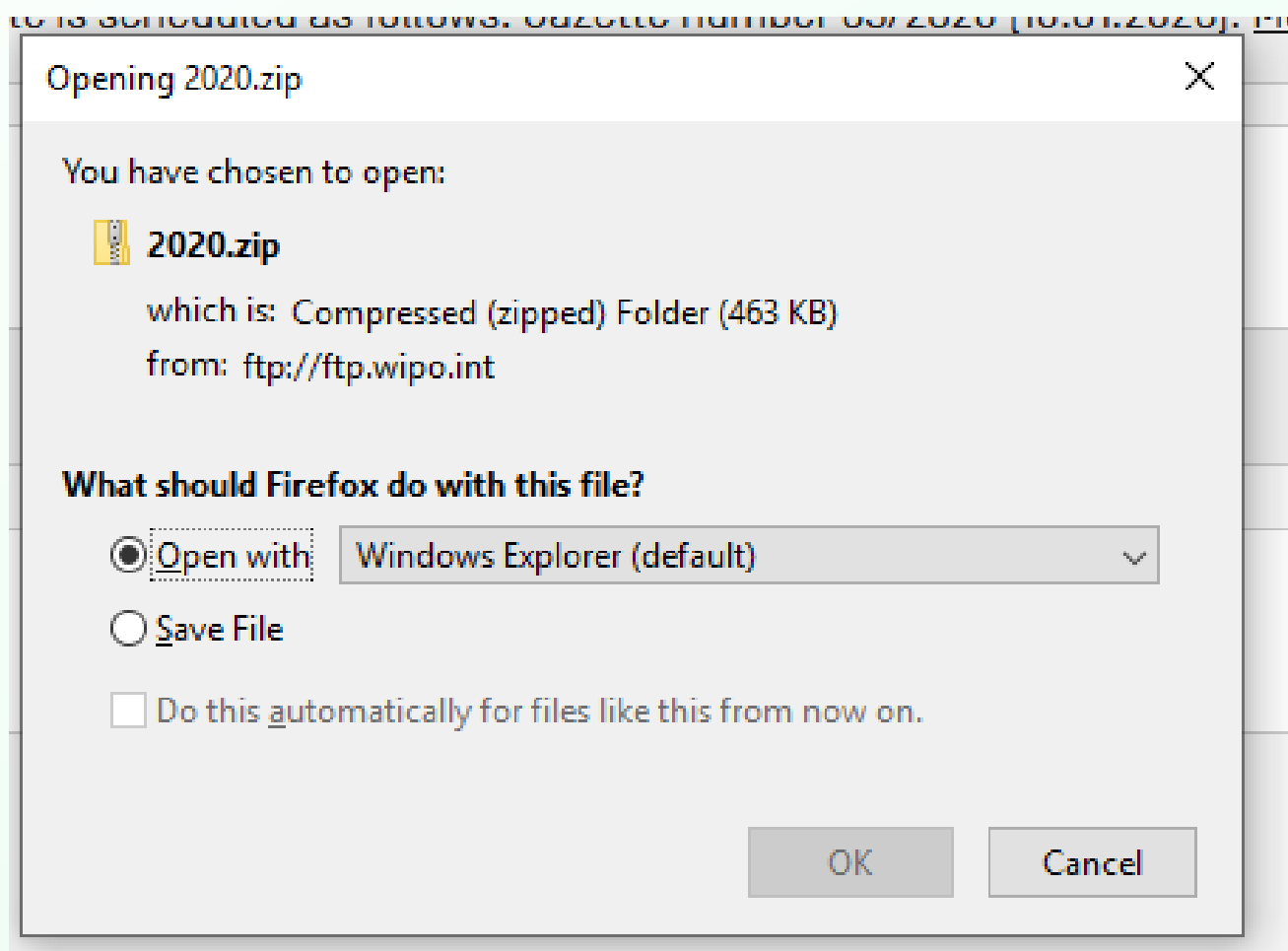
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