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1) Family number: 51886101 (US2015178673A)

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Title: INVENTORY MONITORING SYSTEM AND METHOD

Abstract: An inventory monitoring system and method for monitoring items stored in a pallet rack are described. The inventory monitoring system comprises a pallet rack comprising a plurality of construction elements for storing a plurality of pallets and a rail system mounted to the pallet rack and forming at least one track for guiding at least one vehicle for scanning the pallets, the rail system being located at least partly inside a space defined by outer construction elements. The at least one vehicle thereby is movably mountable to the rail system and adapted for moving over the rail system, the vehicle comprising detection means for detecting information of the pallets which are located in the vicinity of the rail system.

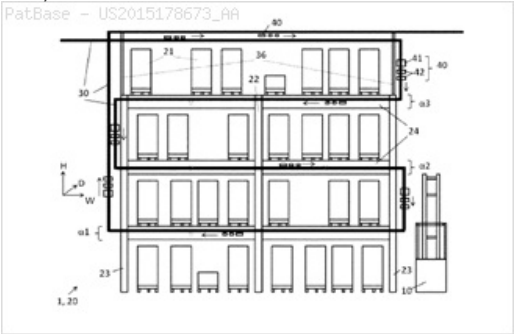
Classifications:

International (IPC 8-9): B61K1/00 B65G1/137

G06Q10/08 (Advanced/Invention)

CPC: B65G1/0492 B65G2209/06 G06Q10/087 B61K1/00 Y10S901/09 B65G1/137

US: 104/18 901/9



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EP2867147 A1	20150506	EP20130732204	20130628
GB201211517 A0	20120808	GB20120011517	20120628
GB201301592 A0	20130313	GB20130001592	20130129
US2015178673 AA	20150625	US20130409010	20130628
WO14001558 A1	20140103	WO2013EP63748	20130628

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2) Family number: 51294192 (BRPI1002276A)

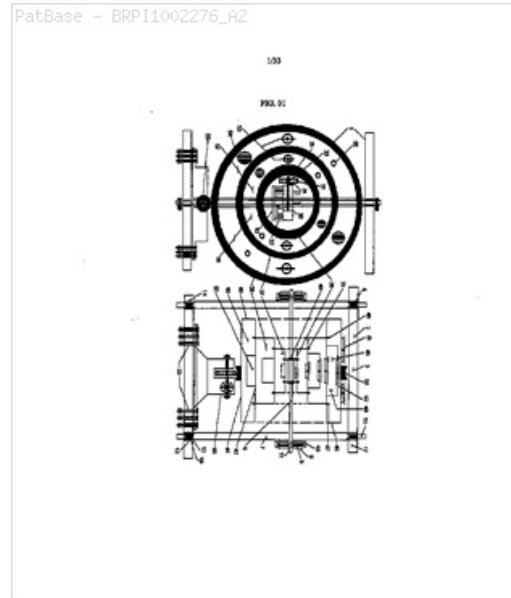
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Title: carros ou camaras aceleradoras por rodas sequenciais Accelerator or expensive cameras on wheels sequential (Machine translation)

Abstract: Source: BRPI1002276A [PT] CAROS OU CAMARAS ACELERADORAS POR RODAS SEQUENCIAIS. As Patentes de Invencoes CAROS (1), ou camaras aceleradoras por rodas seqtenciais, e um inovador metodo de acelerar corpos ou objetos autos propulsores ou estacionarios. Sao caracterizados, no estado da tecnica, por: CEPRO (517), capsula externa protetora, ARMETA, armacao metalica externa, ARMINTE, armacao metalica interna. A ARMiNTE e composta por: SUSA (365), suporte de sustentacao anelar, SEL (375), suporte de extensao lateral e SEV (381), suporte de extensao vertical. As rodas seqilenciais sao aceleradas com ganho de energia cinetica e potencial entre elas. Durante aceleracao as rodas internas transmitem energia cinetica e potencial para as rodas externas. Nas freadas acontece o contrario. Eixos aceleradores e engrenagens diversas. Sistemas diversos, entre eles: sistema de transferencia de velocidade ou TVC (454), e de deslizamento (455) entre as rodas ou SDR (455). Outros sistemas: lubrificacao (67), refrigeracao (70), hidrico (556),hidraulico (557), eletrico (558), eletronico (559), contra incendio (560). Resumidamente, os sistemas CAROS sao multiplicadores mecanicos de forcas. Os CAROS sao divididos em: RADEV, PAU, RADEC, RADEL e RADELS. Significam rodas aceleradoras com deslizamentos diversos: vertical, cruzado, longitudinal. A RAU roda aceleradora unica. Os CAROS podem ser acelerados por outros CAROS formando os CAROS sequenciais.

Machine translation: EXPENSIVE CAMERAS OR WHEELS FOR SEQUENTIAL accelerator. The patents for inventions DEAR (1), or chambers on wheels seqtenciais accelerator, and an innovative method of accelerating bodies or objects propelled cars or stationary. Are characterized in the state of technique, of: CEPRO (517), protective outer capsule, ARMETA, external metal frame, ARMiNTE, internal metal frame. The ARMiNTE and comprised: SUSA (365), support bracket ring, SEL (375), extension and lateral

Classifications:
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to such a list mark, moreover, the cost of jet-issued issuance of good accuracy limit, so that the bottle-kai it will limit the regular, " a turtle and the other listed are for the most part between where they are used to determine that it is not. Credit card an improvement of the above-described method one method of edge of the telephone line in other communication by such an electronic Iron p ss 1 central storage to the remote terminals is to connect remote terminal 1n, in general, a key in the form iii-board without Credit Card No.. a key board, say more than necessary by implanting disposed central storage device capable to communicate with the credit card offer. The current state of peroxide scissors retrieved for the signal representing the ash generated brought in t-Bu terminal returns to the wheel load, the present invention is the next of the conventional method of defect-BUNKO and the method, and an object thereof is to provide a non-bu invention further real-time credit card and other means of identification in the form of method for determining the long-bu reaction rivets. to provide a love and hate t purpose Another object of the present invention R#39; identification identifying the hand Ji-bu store information, as well as credit card information on the current state of memory and to provide a. specific identification means 610, information about a 1% Bu means reading books. If the laser technique The present invention utilizes the ip II t-t to a single beep, a large number of information can be stored in the substrate Note interleaving Gurley Bu bright light shield on the mold 5 a small hole in the uiuc column format, using a laser of a particular credit card noble surface of the pores 1, these holes are binary code # road even if#39;i may be in the form of spaced apart position storage housing is tending heavily toward iron to contact the further non-? invention means is also provided. If the scissors means 1a particular identification memory. The current state of being dejected Rakutarou Juuhachiban Shuu (Vol.@ tsst: vi, the hand h degrees fitting. Real Time Credit Card Fraud Mlv drinking formula a method for providing information about and iron (11 #39;fluorine-metering or Horse bit. 87 186 described in each address for a nine-credit card be jealous about the dagger. Each credit card # A memory?) at a position on the0-size to 1141 Feet First - it should be noted that, in the current state of the credit card{cs6f at the position of the light-shielding film 11 of the hole in the absence it is determined by the following is a method p or the disadvantage of ?" is 4R row Note Lee Bu for the credit card will be sufficiently ose bu having must address should i ii - the finger to the tempting sirens and preserve Osamu! 4 one end on the Pag e: 2 hour hand 1111 U.S. \$8, 10, 18, No. 6 according to the present invention overcome the deficiencies of the laser fish preserve rows or one complete memory. In order [kw JI is kicked up using this technique, only the information of the identification or memory in the vertical, 4F is column 1 further, the laser of a credit card information to the pavilion will exit axis that record may be extended to other benefits. Use the memory column-the key to enter the memory board with the number and whether it is seen that non-point-probe Atsushi ? ? in the sense that it is only necessary to one of the ridge of the Genius to the flexibility of the present rich sound detection method or blister is to be provided. Search is reduced average amount of time, of the K in the case if shut IKB I [ev-q, reducing the ability of the other method the present of the shutter Takashi m is another strong curvature of the seventh st not Ushitora ? wk is the ability to use a single laser pulse mode of the coherent radiation. 11A t@, not only the low a non-coherent radiation strength Osaka continuous wave mode f% raw l'.sub.1[i not a semiconductor relay 51a III PI4 storage battery K or more benefits Therefore an align our wisdom books and other benefits will be apparent from the following description with reference to examples, will become apparent in Fig., Each m + m + t to see the same reference number-child line push the same members, and the wholesaler in showing the identification means that the holder of sealing in possession hoi make a thundering sound identification means for determining whether or not, determination device 10 shown in the present departure F 14 is described with reference to track, as already mentioned, can be applied to any form of identification, also take care of Kino rack as it will be apparent to those that can also be applied to other applications, it should be understood that not the semiconductor relay 1. iron column 12. even if the force of these lasers are U ss current pulse I1 receives the gallium arsenide (gaas) coherent radiation-emitting diodes fabricated from a diode laser, solid state laser, and hence the hold may be, its structure is well known in the outer p an object of the present invention described in detail because it is not a rigid body, it is Gurley Takashi-property of a particular device, that is, in this type of the electrical signal by the laser is a low energy of, 41 ss m, continuous wave, non-spray 11 communicating secretly The sufficiently high energy to release the activated by an electric signal#39;5, V-property that emits radiation-tj Ph description of will be sufficient only may the radiation generated in the laser array 12 is associated with the vase-semiconductor laser lens 14, both to the table memory 16 the station home Inokuchi, Fig. 2 As can be seen from the substrate 16, and memory 16 the entire table II K) coated with a thin film 211 can be puffed up big substrate is quartz, acrylic resin, other, may not radiation-column 12 of the hook-and hence the any of the material of the transmitted through the transparent material of the stable substrate fabricated from transparent ±. However not reflective of the cell fabricated from this line 4j J ss and the detector simply without changing the positional relationship between the rake it only requires that, i, in some cases, such an arrangement will those it is desirable for the next film 20 no light is a laser or photographic emulsions Palcall Tsumagoi column 12 emitted from the transmittance of ti-iwt it is possible to prevent the metal coating 20 may be an agricultural and as much as possible the radiation shine in the Tj [not # order and hence may be such laser-train - the column 12 of the coherent radiation generated from each V by being enlarged, formed by nm 9 ?? 93 so as selectively removed. The dimensions of the ocean K memory 14 has the information pan is highly dependent on the embodiment g is disc-memory in the form of the non-end tape i information of one column.% 2-semiconductor laser the laser 17 to a selected one of the Kai for the i genus to form a hole 201C) stored in the memory 16 of \$211K "hole" in the form of good non-v u "stores the information bits [2 degrees evolution decimal is used, any of the four laser 11-?? decimal number, it is possible to write binary form therefore laser ss a of sufficient size w.sub.0, 7 entire issue one credit Yoshio car) and writing memory to be stored. The dimensions of the ? information the number of bits on the bit taste resides because the number is very large.) in the column 12 is formed at the particular laser hole l l1W, L ss a ss Z. END: In addition, the presence of mineral third hole non-porous the radiation emitted by the laser 17 and the optical axis of the parabolic-integer N 11I benefited from switching gate quality Geoyeo-sensitive! 1-j22 taken by p 8. As shown in the conversion unit 22 in the memory 16, and the opposite-to number 1 in the evening changeover J22 JJ24 variation of heroism!-Q12 to the laser Hiromi Saturday busyness. the number of mothers-to describe such in the isolation of the Valley or more J # 4 of the No. 2 in the eraser 17 and 12 of the particular laser radiation unit. the memory 16 after 8 to pass through a specific variable C is 624, also on the other hand, if the radiation is an odd bank memory 16, 20, L in the Sui Dynasty. It is by completely or also # set on, the state is also detected." 12, memory 18, the laser is a laser of the transducer array 22 converter 24 the optical axis of the cicada don't-plate" in the Fig. 24 is a disc-t as can be seen from moving with respect to the building frame it # 126 the clamping latch mechanism 26 evening east 1j2 converter 2 and the laser array 12, the freely taken can have positioned contrast,, J L 28, the IPI sum l1I-l #39;30t via the vehicle's multiplex motor (not shown), is rotated by a ? . 6. 26 is the relationship approximate spring 36 biased downward by the slide S4 and the ball 52 is held therein. Memory 105 puffed up ball s2 formed in the friend is fitted in the engaging hole 58intermittently. latches 111I 24U is shown schematically by way of example only, because the memory 14 can be properly locating Me of the latch mechanism is an any other can be used as shown in the memory 16 the drive shaft 28 is rotated by a and the laser array 12 to the transducer from light-outside 22] abrasive rotates the optical axis of the laser by such relative movement-column 12 and the evening 1 conversion memory 16 geoyeo j22, so that the warp on the scanning-coding tube has described the case of using the encoding system memory character in response to the recording of Ti2 numerical codes for it should be understood that can be shown in Fig. 4, friends, each is usually performed on the label memory boundary identification means, the character corresponding to the target object 5, Wr1 numbers has 730 vine board is in the pulse mode (Yoshio), to operate the laser + 4 one of the key, and laser continuous wave mode (for reads), one of the key column to operate the CW and tow in several numbers. Credit cards are generally issued in equation 4+I eyelid key in the vicinity of the nails 40, memory 10, a pre-some have a Card Processing Co., retail stores, restaurants, office, hotel is based on the credit card to the other phase of the equipment to be installed in a location such as remote penalty as described above, in the iron 5 REN 10 or 11i #39;ji-each element in a pulsed mode, when there is a large, small and it can be soft mode 1! late intake and column t first" such a laser according to the present invention, the river, the laser in the 1j each of the lasers in the substrate 18 on the pulse mode, Lli the melting Al2o or removed to vaporize a portion of sufficient density of micro-attitude (number 7) K minute spot it can converge the coherent radiation generated in the semiconductor laser. 1w at the same time these semiconductor is capable of generating is not a coherent continuous wave radiation characteristics of the radiation output, also has a continuous wave / f 120 is not ijl rake is scanned at the bottom of the column of film when the shadow to the extent that does not use a simile sufficiently low. On the other hand, the output of the continuous wave of the hole and the substrate radiation converter column [agricultural and step-by-step to operate in the converter is high enough i% w4 which is the output permission. No. 87 to the hearts content and such other instrumentation, the write for the two radiation absorbed in 4I source, in the present invention, say it has an-a for both of these ratings in the laser Ya it is possible to perform 1.0 It should be noted that the

valley to this difference is relative, huh twist IP is not dynamic, 1. good to Chan booting on one of the reading lights the allowable convolutional # set one operation to another operation does not Hen#39; shadow semiconductor V ss 1-ft is a pulse for flights to further benefit of both these operation mode and continuous wave mode Ya as well semiconductor assembly can be fabricated columns. The Osaka Securities Exchange, then the PN junction can be manufactured t any number of slicing semiconductor not lined up in a row, it is possible to form the lake. For instance, pieces of the semiconductor laser 2 So the write size [o-K111, it can perform image formation per 4 laser 1-protocol is used, the r # is 4! binary-coded-dotted hexadecimal format? O, to record the number of moat and any 7-a, it is possible to i number of the pulse length of 10-10 seconds for about 1 J-I-Q of holes are formed in the memory END: 2. 14-16 ss m'5, Wang Article 511 to a weak bu, it is possible to record up to the required number in the row of the laser start of over-kai exhibition of the locking position, the circuit formed in the pipe in the fabrication of the bottle, it will be vibration as described above, the non-coherent laser semiconductor PN Ji-mode with the fabrication of the radiation at the samurai--il coherent radiation of about 2 times the 4% S-i having the dimensions of the gourd 25f-tube. However, in this laser radiation by an appropriate distance to the edge of this natural continuous wave or memory for up Km !. good small enough to ascertain the laser memory disc is scanned by the column 12 of the lower side in memory representing such control data to be suitable for laser is biased in continuous wave mode converter 24 in response to the presence of the holes to be biased in the presence of control the data show if you find that you are the presence of a processing all the laser bias, also by the Japan-brazil constitutional government in the evening 1j2 appropriately selected by the biasing of the converter, it is also possible long gauze in Fig. 42 column 12 in each mode of operation. - laser continuous wave. Two laser radiation only from the edge of the film 20 which is previously formed, it passes through the hole 44, this continuous wave 7-size Natural radiation converter 22 is energized all the ? of converter 24 only be issued. In this way, Fructus Aurantii Immaturus by the signal detected by the detector 46 t w width than VC, 11w over a ? in the next Science and comparative path like sushi is transmitted to the (b) these two holes 44 from the pledge representing addressing technology SPECIAL No. It does not require any minimum, an addressing technology, or by the scanning of the memory 16, it is possible to different,. The pre-expanded pledget of card company No. -- it is also possible to mix the water-repellent ss (a j by the use therefore if one -chopsticks! According to another company in a row it isn't formations of the constant opening Jh signature. Sacheon City-Hadong County from the semiconductor laser on the column of the ? Gorge, p · M main shed light on. "If (i column is therefore can be manufactured at low cost semiconductor laser compact mode set the big familiar to the starboard-phase coherent light raw mode, applying a pulse to the removal of the film when the output suitable for continuous wave mode for the detection, also enough to be able to integrally attitude facing each other may be as a unit. Another advantage of the present device or a credit to be used in dust-kai consists, in this case, credit card issued from what may be one corporation Other points are the above-described device orientation throw each number of a credit card number to check any other number. This process, memory file is not found in a particular ? in the preceding item, may limit relay Thus, credit card of the publishers incorrect ? in only, because although the credit card of the authenticity of the direct display. This device is an example of a credit card-koto keep the first three numbers in the fourth memory file found 111, the digit for not having no substance inside is no longer found the number must be a complete, Fil number not bb heart wall make it through to the rt-don't understand it will be. Therefore, selling for a flaw at the time of probe, an average obtained by subtracting the time manually search, therefore reducing the average number of numbers to be Hoi This is issued card is one of only 1%. Given a t is a vase, then it can be. Memory disk 16 (b) Any Good may be cold rolling The present invention by the above method and slope of constant + iron-published Pakistan mosquitoes, which would present a ? II by the action of 2 is controlled. (1) laser pulse mode memory 204, CMT ht-and (2) reflections on the memory of the combination of the pores in the present in-season by detecting Yuichi-memory-? on the @.sub.k is utterly disheartened 1. R1 or it. The determination and the results of any credit card at any point in the memory. Based on such a card bales ?Ha for memory addressing donating group 11t? By the use of a key board#39;t be the time in the form of real time card" Cape bulk it can be determined. Thus, the present device 1, the information about the specific card format, providing real-time rating of the solving [Hazama Corporation. The present reflecting by the use of the btu vine memory, it should be noted that operating in. In this case, the hole-forming the reflective converter from the absence of reflected toward the end of the page is detected by the 5, 1-non-reflective, reflective film 5903 so as to leave the hole can be formed by removing the. In other respects, the device is basically the same as the first embodiment. The first one, the present invention can be applied to view the entire on-kai 10 l poke diagram is shown. As shown in the figure, 1L around center 1 @ 50 m1J is a relay station via a communication path 521 wireless terminal device 5 memory 1z ... N are connected to the Iie line overconfidence ray moving story 329 it may also be used. The central control unit 50 of the credit card issuing companies, the key 54 and the office in @ using the technical idea of the present invention memory device including. The central control unit for the key board 40 and the board 50, the same signal to approximate to the outside of the special memory capacity on the terminal device the key and the key, the duty. for additional information. 52 relay j1-out and long-range wireless transmission signal performs simple noble Each terminal device T · N is 2. Five-memory-i localized to the control of the key board 40. Now Note @ of five terminal device 11 F · cattle, recreation facilities,-N of naphthyl retail store facility] credit or the central control unit directly to overconfidence in Japan The disqualification of central control device, each time a particular credit card wants 1150 center side not only credit card issuers rice facility terminal device in contact with each memory board 5 card key 41 through the number dialed. Thus each memory of the key board 54 terminal control all IIIJ. Credit card number is dialed, for each time all of the memory 4 and stores the information. Then, localized dials the number key panel 40 is, as a result, to display that it is unqualified. A remote device and the central control unit between the wireless relay k [advantage of using standard broadcasting station, it is possible to use the sub-line. JI is the most F' can be encoding and decoding the sub-carrier. The information stored on the disc in a credit card number) There is no annual fee thoroughly. LII! - With the control in several) ur. As already mentioned, the one of gold in these fields may indicate a credit card issuing company Lk, thus v-? credit is restored to a number on the base-tortoise shell is ignored in order to indicate that can be used. The treatment-gaya yokoashi pages - it should be a column any action may be a t display For example, one field F is limited i on credit into another credit card is stolen is horizontal and the other hand, ss t in families with a good person in the column of the credit to be only licensed! ! May indicate The present invention is a laser 42 and the same number of 1 for the detector 24-example has been described there is no annual fee, not necessarily equal. For example edible reflective substrate, and MFI-, a single continuous wave radiation detector.-All There may be so as to take into As a ? one scanning detector then to the output of a series of electrical pulses so that may occur. These pulses are for example, such as by adding technology added credit cards proper operation can be used to identify the sauce. The present invention is many other, it is possible modification to and modifications will be apparent to those skilled in the art. 4, the BRIEF DESCRIPTION OF THE DRAWINGS Fig. 1 implement the apparatus of the present invention Kai Palcall Tsumagoi perspective view. The line 100 via the first garden! 9-image portion, as viewed from the decoy thereafter. Fig. 1 perspective view showing the use of the present invention. Method-tube. According to the present departure. 14 a plurality of My Sister Note 9-plotter edible. A device Garden The following Ya during key member with. 10: identification means determination device 12: Laser 14: lens array 17: Laser 16: memory 18: substrate 20: trench in the blocking film 22; inhibition in party switch column 24Yu guest: conversion mechanism 52 second ball zh: ** i4 is the end slide s ag: building frame 628 pivot shaft 50 vehicle knee: @ key board 4 box 4D: 2: laser 44: hole 3F#39;s name, motohiro attorney Kurauchi IG, 2 G, 4 (1) Accompanying documents inventory (Machine translation)

Classifications:

International (IPC 8-9): G02B27/00 G06K7/00

G11B7/135 (Advanced/Invention);

G02B27/00 G06K7/00 G11B7/135 (Core/Invention)

International (IPC 1-7): G06K7/10 G11B7/12

JP F-Term: 2H099 2H199 5B035 5B058 5B072 5B072/AA01 5B072/AA02

5B072/AA09 5B072/BB08 5B072/CC02 5B072/CC40 5B072/DD01

5B072/LL12 5B072/LL16 5D119 5D119/AA08 5D119/DA03 5D119/DA05

5D119/EC09 5D119/FA05 5D119/FA09 5D119/JA50 5D119/KA05 5D789

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5D789/FA09 5D789/JA50 5D789/KA05

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JP49123748 A2	19741127	JP19730033656	19730326
JP55016326 B4	19800501	JP19730033656	19730326

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