



New connection on: : 13-03-2018 : 14:37:28 - Last disconnection on: : 13-03-2018 : 14:36:34

V 4.0.0.44358(LP,U,linux) (Rev:43856 2017-04-27 09:03:29 +0200#(D201802)) (RPM D201802)

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[No database/cluster active] ..fi

Select a database: ..FI EPODOC

 Database: EPODOC

[EPODOC: SS 1] SCREEN AND FRAME AND CONFIGURATION AND SCREEN AND CABINET

Results in EPODOC 16

[SS 2] ..li



1/16 © EPODOC / EPO

PN - [CN106624414](#) A 20170510
PR - CN201611254243 20161230
AP - CN201611254243 20161230
DT - I
CNOI - [B23K37/003](#) ; [B23K37/02](#) ; [B23K37/0443](#) ; [B23K31/02](#)
PA - TIANJIN AUTO WEIDE WELDING TECH CO LTD
TI - Double-station special welding machine
AB - The invention provides a double-station special welding machine. The technical scheme of the invention lies in that: the double-station special welding machine consists of a machine **frame**, a plurality of welding heads, a welding transformer, an electrode platform, a microcomputer resistance welding control **cabinet**, a cooling waterway control device, a main transformer, a welding fixture 1, a welding fixture 2 and a touch-**screen** parameter adjusting and choosing console, wherein a head, a pressurized cylinder, an electrode head, a welding secondary conductive circuit, a welding cooling waterway device and a pneumatic system are arranged on each of the welding heads; two links, an electromagnetic directional valve and a pressure reducing valve are arranged on the pneumatic system; and each set of the welding fixture consists of a conductive platform, a positioning pin, a positioning block, a clamping cylinder and a tooling secondary conductive circuit. The mechanism is used for automatic welding of seat frames, adopts **configuration** of shifting between double stations and welds multiple points in turn, so that industrial production requirements for frequent use can be met, and the utilization rate of the special welding machine is improved; and the double-station special welding machine has the advantages of energy conservation, zero pollution, and clear structural idea, the working time is saved, and the production efficiency is improved.

2/16 © EPODOC / EPO

PN - [CN206097652U](#) U 20170412
PR - CN20162848790U 20160808
AP - CN20162848790U 20160808

DT - I

PA - JIANGSU JIAOTONG COLLEGE

TI - Electric automatization synthesizes real examining device that instructs

AB - The utility model discloses an electric automatization synthesizes real examining device that instructs, bench including the L type, the metal mesh orifice plate, the operation mesa, and a **frame**, the power panel, the tool **cabinet**, computer places and removes the **frame**, the platform is placed in the display **screen** rotation, the operation mesa lies in bench's horizontal plane, and a **frame**, the power panel lies in bench's perpendicular, the tool **cabinet**, computer places and moves the lower part of chord position in the operation mesa, one side of operation mesa has the display **screen** rotation to place the platform through the hinge mount, the power panel has been arranged the debugging and has been used the three -phase, the single phase alternating current power, the electric leakage of **configuration** protection operator safety, the short circuit, an overload protection circuit. The top of metal mesh orifice plate sets up L type couple, and the metal mesh orifice plate is hung on the **frame**, and the bottom of metal mesh orifice plate sets up magnet, with the chase actuation of **frame** relevant position. The utility model discloses the metal mesh orifice plate adopts the wall -hanging, has saved the operating space, and the design of double -deck indent is adopted at mesh link plate rear, can be used to the storage of spare module.

3/16 © EPODOC / EPO

PN - [CN205700808U](#) U 20161123

PR - CN20162481501U 20160525

AP - CN20162481501U 20160525

DT - I

PA - UNIVXUCHANG

TI - Hierarchical rubbing crusher of multi -functional powder medicine to be taken after being mixed with boiling water

AB - The utility model provides a hierarchical rubbing crusher of multi -functional powder medicine to be taken after being mixed with boiling water, including hypodermis cover tape, the shale shaker, the ring grizzly, **screen frame** elevating system, lift locking device, the feeding fill, a machine support, epithelium cover tape, smash the motor, smash the motor **cabinet**, shale shaker transmission and **screen frame** motor, hypodermis cover tape sets up the left lower part in the **frame**, the shale shaker sets up the well lower part in the **frame**, the ring grizzly sets up on shale shaker upper portion, **screen frame** elevating system sets up on ring grizzly upper portion, lift locking device sets up on **screen frame** elevating system upper portion, the feeding is fought and is set up on lift locking device upper portion, the welding of epithelium cover tape is at **screen frame** elevating system's rear portion, the utility model relates to a rationally, convenient to use, goes up thick thin two sieve **configuration** scenarios down at the rotor shaft vertical type layout of adoption, has greatly improved productivity ratio, reduces the energy consumption, the natural ejection of compact mode that need not assist suction system has reduced the fault rate of machine.

4/16 © EPODOC / EPO

PN - [CN105534028](#) A 20160504

PR - CN20161107538 20160226

AP - CN20161107538 20160226

DT - I

CT - || STSE (A)
[KR100274377B](#) B1 20001215 [A] (UM DIGITAL [KR])
 [A] 1-8
 * 全文 *;
[CN204087057U](#) U 20150107 [X] (SICHUAN XLY INFORMATION SAFETY TECHNOLOGY CO LTD)
 [X] 1-8

* 说明书第0002、0009、0015-0022段，附图1-4 *;
[CN104924282](#) A 20150923 [A] (SICHUAN QIAODUOTIANGONG PREC EQUIPMENT CO LTD)
 [A] 1-8
 * 全文 *;
[CN204930770U](#) U 20160106 [A] (SICHUAN MASTERPIECE PREC EQUIPMENT CO LTD)
 [A] 1-8
 * 全文 *

CNOI - [A47B21/00](#) ; [A47B21/04](#)
 PA - SICHUAN QIAODUOTIANGONG PREC EQUIPMENT CO LTD
 TI - Double-**screen** data analysis platform
 AB - The invention discloses a double-**screen** data analysis platform. The double-**screen** data analysis platform comprises a **cabinet** body, a multimedia mounting table is arranged on a table top of the **cabinet** body, and four mounting holes are formed in the surface of the multimedia mounting table and used for mounting and detaching hardware of any CD driver position size and multifunctional table top sockets; two folding supports used for displays are mounted at the positions, close to the back side, of the upper surface of the **cabinet** body, and the displays are mounted on the supports; a detachable panel, a cross beam behind the panel and supporting pillars are arranged on the front side of the **cabinet** body, so that a **frame** is formed; a host mounting plate and array supports are arranged on a back panel inside the **cabinet** body, and a groove is further formed in the lower end of the back panel and internally provided with openings used for mounting a host power source and an Internet access. By means of the double-**screen** data analysis platform, **configuration** of the table top hardware can be replaced, and data analysis of multiple mobile phones and hard discs can be supported at the same time; work efficiency is high, and space is saved; the double-**screen** data analysis platform is reasonable in internal space arrangement, convenient to maintain and apply and safer; the platform is firm and stable in overall structure and not prone to damage; compatibility is high, and work efficiency is improved.

5/16 © EPODOC / EPO

PN - [CN204740814U](#) U 20151104
 PR - CN20152332936U 20150521
 AP - CN20152332936U 20150521
 DT - I
 PA - SHENZHEN LIANTRONICS CO LTD; SHENZHEN LIANTRONICS CO LTD
 TI - LED display **screen** transparent **configuration**
 AB - The utility model discloses a LED display **screen** transparent **configuration**, put up, fix including the LED installation back of the body LED loop bar, both ends on the LED installation back of the body **frame** are fixed on the LED loop bar and LED lamp strip that have a LED lamp pearl with cooperate in the electric **cabinet** subassembly of LED lamp pearl on the LED lamp strip is controlled to LED lamp strip and being used for, the electric **cabinet** subassembly is built -in to have electrically controlled device and the quantity to mate in the connecting insertion hole of LED lamp strip quantity, LED lamp strip one end is provided with the connecting plug who cooperates in this connecting insertion hole and just passes through connecting plug can pull out and insert the electrically controlled device of ground electric connection in the electric **cabinet** subassembly, LED lamp pearl interval inlay on LED lamp strip, the embedded metal wire that has each LED lamp pearl of electric connection of LED lamp strip. This kind of LED display **screen** transparent **configuration** has simple structure, with low costs, the advantages that the existing product did not possess such as equipment convenience, luminousness height.

6/16 © EPODOC / EPO

PN - [CN204605626U](#) U 20150902
 PR - CN20152293087U 20150508
 AP - CN20152293087U 20150508

DT - I

PA - LONGYAN HELIOS AUTOMOBILE CO LTD

TI - Emergent drainage wrecking truck

AB - The utility model relates to a special automotive filed's emergent drainage is equipped, especially relates to an emergent drainage wrecking truck. This emergent drainage wrecking truck including chassis car, carriage, generating set, water pump, switch board, has set up the structure of advancing to air exhaust including turnover door, electronic bracing piece, exhaust fan and shutter in the carriage. Be provided with unit control **screen**, workstation in the operation room in carriage, attend lower floor's sofa, fall to install in the exhaust room of making an uproar and fall the exhaust device that makes an uproar, indoor storing **frame** and the pump control **cabinet** of being provided with of unit, the carriage top is provided with guardrail, a floor-lamp and lift light, the carriage both sides have set up the lower door of the door of airing exhaust, cleaning door and area upset ladder. The structural **configuration** of this drainage wrecking truck is reasonable, can solve the used power matching problem of the on-the-spot water pump of drainage, the the noise reduction effect that airs exhaust is good, is one kind and collects electricity generation, illumination, rest and can supply many water pumps to supply power in the emergent drainage wrecking truck of an organic whole simultaneously.

7/16 © EPODOC / EPO

PN - [CN204582668U](#) U 20150826

PR - CN20152158685U 20150320

AP - CN20152158685U 20150320

DT - I

PA - SONAC LUOHE BIOLOGY CO LTD

TI - Production coagulated pig's blood used as a food globulin powder is with former blood filter equipment

AB - The utility model relates to a production coagulated pig's blood used as a food globulin powder is with former blood filter equipment, including filtering the cavity and filtering the core, filtering the cavity and compriseing the uncovered **cabinet** body and **cabinet** body rear side upper end articulated lid, the bottom of the **cabinet** body be from the inclined plane of the right side to left bank, and the left side upper end of the **cabinet** body is by preceding being equipped with former blood input channel and irrigation channel after to in proper order, is equipped with former blood output channel bottom the **cabinet** body of former blood input channel homonymy, and the **cabinet** is personally experienced sth. Part of the body the rear side and is equipped with former blood washing liquid transfer passage, it constitutes to filter the handle that the core was equipped with on by **screen** cloth **frame**, **screen** cloth, panel and panel, the front side of the **cabinet** body be equipped with with **screen** cloth **frame** assorted slide, former blood washing liquid transfer passage is greater than the distance of slide apart from **cabinet** body bottom apart from the distance of **cabinet** body bottom. The utility model discloses **configuration** operation is simple, the filter effect good.

8/16 © EPODOC / EPO

PN - [CN204012266U](#) U 20141210

PR - CN20142483486U 20140826

AP - CN20142483486U 20140826

DT - I

PA - CHENGDU HEYUAN DESIGN CONSULTING CO LTD

TI - **Screen cabinet** for intelligent substation

AB - The utility model relates to power system equipment and particularly relates to a **screen cabinet** for an intelligent substation. The **screen cabinet** for the intelligent substation is formed by a **cabinet** body and a **cabinet** door. The **cabinet** body comprises an upper **cabinet** body and a lower **cabinet** body. Both the upper **cabinet** body and the lower **cabinet** body are provided with independent **cabinet** doors. The left side in

the **cabinet** body is equipped with a **cabinet** internal groove box, and the right side in the **cabinet** body is equipped with a matched unit. The upper **cabinet** body is orderly equipped with an equipment unit and a switching equipment unit from up to down. The lower **cabinet** body is also internally equipped with a disk fiber box and a fiber distribution **frame** orderly. The **screen cabinet** has the advantages of compact structure and reasonable **configuration**, the maintenance and repair of a fiber are facilitated, the attenuation and loss of an optical signal can be effectively reduced, and the accuracy and effectiveness of information transmission are ensured. Both the upper **cabinet** body and the lower **cabinet** body are provided with the independent **cabinet** doors, the **cabinet** body is divided into an upper layer and a lower layer from the space, the clear and definite interfaces division by a design side, a supplier and a construction side are facilitated, and the improvement of the installation and operation efficiency is facilitated.

9/16 © EPODOC / EPO

- PN - [CN103514336](#) A 20140115
- PR - CN20131491347 20131018
- AP - CN20131491347 20131018
- DT - I
- CT - || STSE (A)
[WQ2011011913](#) A1 20110203 [A] (ABB TECHNOLOGY LTD [CH], et al)
 [A]
[CN102832715](#) A 20121219 [Y] (JINAN RONGFU TECHNOLOGY CO LTD)
 [Y]
[CN102611199](#) A 20120725 [A] (CYG SUNRI AUTOMATION CO LTD, et al)
 [A]
[CN201994565U](#) U 20110928 [A] (JIANGSU ELEC POWER DES INST)
 [A]
- CTNP - || STSE (A)
 [] 陈波,
 "500kV变电站二次系统智能化设计关键问题研究", <<中国优秀硕士学位论文全文数据库 工程科技II辑>>, (20130715), no. 07
 [] 仪荣等,
 "智能变电站二次系统设计及试验技术", <<中小企业管理与科技(上旬刊)>>,
 (20121205)
 [X] 孙一民等,
 "智能变电站设计配置一体化技术及方案", <<电力系统自动化>>, (20130725), vol.
 37, no. 14, PAGE 70 - 74
 [X]
 第70-74页
 [Y] 孙一民等,
 "智能变电站设计配置一体化技术及方案", <<电力系统自动化>>, (20130725), vol.
 37, no. 14, PAGE 70 - 74
 [Y]
 第70-74页
 [A] 修黎明等,
 "智能变电站二次系统设计方法研究", <<电力系统保护与控制>>, (20121116), vol.
 40, no. 22, PAGE 124 - 128
 [A]
 第124-128页
 [Y] 林俊等,
 "智能变电站中基于CAD的图形化模型设计", <<电力自动化设备>>, (20120910), vol.
 32, no. 9, PAGE 142 - 148
 [Y]
 第142-148页
- CCA - [Y04S40/22](#) ; [Y02E60/76](#)
- PA - STATE GRID CORP CHINA; ELECTRIC POWER RES INST STATE GRID LIAONING ELECTRIC POWER SUPPLY CO LTD; NORTHEAST ELECTRIC POWER RES INST CO LTD; LIAONING

DONGKE ELECTRIC POWER

- TI - Intelligent substation optical cable connection automatic design method based on virtual-true mapping mode
- AB - The invention relates to the technical field of electric power cables, in particular to an intelligent substation optical cable connection automatic design method based on a virtual-true mapping mode. Connection of virtual terminals of all IEDs is automatically judged, physical deployment information of an existing device is combined, a virtual-true mapping rule is adopted, and therefore optical cable connection relations and tail cable connection relations are generated. The method is mainly suitable for designers of an electric power design institute to use aided design tool software to complete design of an intelligent substation in design effort. According to the method, optical cable connection, tail cable connection and the like can be automatically generated through a substation cell at an early stage, **screen cabinet configuration** and **configuration** of an IED physical port, a switch physical port and an optical distribution **frame** physical port in a **screen cabinet** by combination of completed connection work of the virtual terminals, and thus the workload and error probability in the aspect of intelligent substation cable design are greatly reduced, design efficiency is improved, and errors caused by manual design are reduced.

10/16 © EPODOC / EPO

- PN - [CN202838736U](#) U 20130327
- PR - CN20122323198U 20120705
- AP - CN20122323198U 20120705
- DT - I
- PA - ZHEJIANG TIANHUANG SCIENCE & TECHNOLOGY IND CO LTD
- TI - Comprehensive training platform for water environment monitoring and control technology
- AB - The utility model discloses a comprehensive training platform for water environment monitoring and control technology. The adopted technical scheme is that the comprehensive training platform for water environment monitoring and control technology mainly comprises a platform and is characterized in that a water feeding system, a sewage treatment system and a control system are installed on the platform, wherein the water feeding system consists of a water tank, a water pipe, a water tank liquid level indicating tube and a valve; the sewage treatment system consists of a dosing pool, a grille, a regulation pool, a horizontal flow grit chamber, an AAO system, an SBR1 pool, an SBR2 pool, a vertical flow sedimentation tank, a sand filtration column, a stainless steel **frame**, a mixer, a DO dissolved oxygen sensor, a pH sensor, a liquid level switch, a water decanter, a water pump, fans, a dosing pump, an aeration disc, combined filling material and filtering materials; and the control system consists of an electrical control **cabinet**, a touch **screen**, an operation switch, a working state indicating lamp, a PLC controller, a relay, an alternating-current contactor, a speed regulation module, a DO instrument, a pH instrument and a piece of **configuration** monitoring software. Compared with the prior art, the comprehensive training platform for water environment monitoring and control technology, adopting the technical scheme, has the advantages that the problem of the single type of a system is solved, free connection and combination of a variety of water treatment processes is realized in one set of system, and meanwhile, a main reaction tank is fixed on the stainless steel **frame**, and different treatment processes can be realized without the need to move the reaction tank but just to change the connection of a pipeline.

11/16 © EPODOC / EPO

PN - [EP2471418](#) A1 20120704
 PNFP - EP2471418 B1 20161005
 PR - EP20100425400 20101230
 AP - EP20100425400 20101230
 DT - *; Rep
 CT - || STSE (A1)
 [DE4110942](#) A1 19911024
 [XVI] (NORPE OY [FI])
 [X] 1,3,5,7-10,12,13,15,17,19
 * the whole document *
 [Y] 6,18
 [I] 2,4,11,14;
 [EP0659371](#) A1 19950628
 [X] (ELECTROLUX
 BEDRIJFSKOELING B V [NL])
 [X] 1,3,5,7,8,10,12,13,15,17,19
 * the whole document *;
 [DE1877819U](#) U 19630814
 [X] (GRAEBNER & KRETZSCHMAR
 FABRIK [DE])
 [X] 1,4,7-13,16
 * figure 5 *;
 [NL6502319](#) A 19660825
 [YA] (ABRAHAMMATTHEUS)
 [Y] 6,18
 * figure - *
 [A] 1
 CCI - [A47F3/0456](#)
 CCA - [A47F2003/008](#)
 PA - (A1 B1)
 EPTA S P A [IT]
 TI - (A1 B1)
 Refrigerated horizontal
 display **cabinet** for assisted
 service commutable for self-
 service
 AB - (A1)
 The invention relates to a
 refrigerated horizontal
 display **cabinet** for assisted
 service commutable for self-
 service, comprising: a tank 2
 which defines a compartment 3
 for the display of goods,
 provided with a parapet 4 on an
 assistance side 2a; a **screen** wall
 10, associated to the tank on the
 customer side 2b to prevent
 access to the compartment 3
 from the customer side; - a
 supporting **frame** 31,35 which
 connects the wall 10 to the tank
 2. The **cabinet** is characterised in
 that the wall 10 is divided into a
 lower portion 11 and an upper
 portion 12 and by the fact that
 the upper portion (12) is
 connected to the

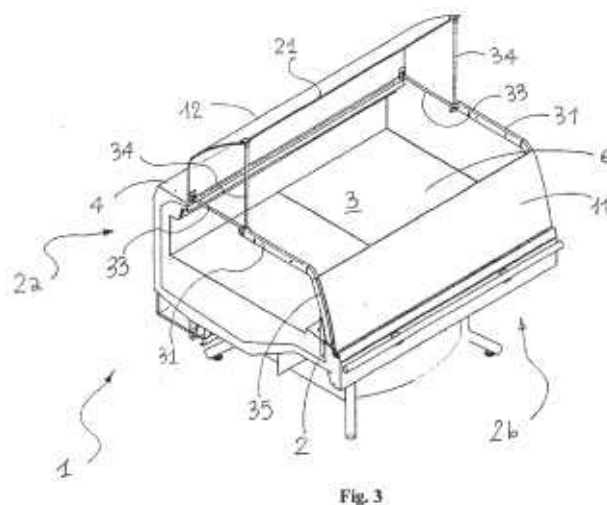


Fig. 3

supporting **frame** (31,35) so that it can be moved between an assisted service **configuration** to a self service **configuration**.

12/16 © EPODOC / EPO

PN - [CN201377875Y](#) Y 20100106
 PR - CN2009232793U 20090427
 AP - CN2009232793U 20090427
 DT - I
 PA - UNIV XI AN POLYTECHNIC
 TI - Visual monitoring system for evaporative cooling air conditioner
 AB - The utility model discloses a visual monitoring system for an evaporative cooling air conditioner, which comprises an upper computer and a control **cabinet**, wherein, a controller and a touch **screen** which are connected with each other are arranged in the control **cabinet**. The monitoring system not only realize control over field data of the evaporative cooling air conditioner through soft hardware design of a PLC (programmable logic controller), but also realizes, through WINcc **configuration**, the connection and the communication between the upper computer, the touch **screen** and the PLC for data processing and data exchange. The monitoring home page displays vivid layout of the whole air conditioner system, the present running state of each equipment, real-time failure protection warnings and records, as well as a real-time indoor humidity data curve. The utility model not only stores the field operating data into a database, but also provides a man-computer dialog window, so that users can print the data at any time and change parameters in the PLC control program in a monitoring **frame** on the monitoring system. The utility model has the benefits of reducing energy consumption by equipment operation, improving operating reliability of equipment, and improving energy-saving effect.

13/16 © EPODOC / EPO

PN - [JPH1013772](#) A 19980116
 PR - JP19960159435 19960620
 AP - JP19960159435 19960620
 DT - I
 FI - G03B21/00&D; G03B21/62; H04N5/74&C; H04N5/74&F
 FT - 2H021/AA05; 2K103/AA17; 2K103/AA25; 2K103/CA01; 2K103/CA06; 2K103/CA49; 2K103/CA50; 2K103/CA55; 5C058/BA05; 5C058/BA31; 5C058/EA01; 5C058/EA38
 PA - FUJITSUGENERALLTD
 TI - REAR FACE PROJECTION DISPLAY DEVICE
 AB - PROBLEM TO BE SOLVED: To display a bright and easy to see image by selecting a **screen** with a different characteristic depending on the number of persons or applications. SOLUTION: A container to contain screens 3, 4 with different angle of distinct is provided by using an arrangement space of a light source at a lower part of an image display **frame** 2, and the **screen** used depending on purpose is selected from the container and supported by an image display **frame** 2. Drive rollers 5-7 winding/rewinding strings 23, 24 to pending down pending down parts 16, 22 at the left end of screens 3, 4, 18 are provided to a lower left of a **cabinet** 1. The drive rollers 5-7 are driven by drive shafts 8-10 from drive sections 11-13 using a motor in the middle of a ceiling of the **cabinet** 1. Drive shafts 19-21 are extended to the right from the drive sections 11-13 to drive a **screen** replacement means provided to the right with a similar **configuration**.

14/16 © EPODOC / EPO

PN - [FR2285103](#) A1 19760416
 PR - FR19740031951 19740923

AP - FR19740031951 19740923
DT - *; Rep
CCI - [A47B83/001](#) ; [A47B87/002](#)
CCA - [A47B2037/005](#)
PA - SANSEN [FR]
TI - Desk with angle shaped top and tubular **frame** - has bias cut corner on top allowing arrangement with similar desks
AB - The top has a rectangular portion (10) with a similar rectangular portion (11) of smaller length and width at 90 deg. at one end. The outer corner (12) of the top is cut off at a 45 deg. angle. This top is supported on free standing legs (22), of tubular construction a drawer **cabinet** (23) being fitted underneath. A side **screen** and a false top covering a recessed area for an office machine can be provided. The **configuration** of the top permits tables to be fitted together in any suitable arrangement, using the sides or the angled corners contacting each other. The length of the cut off corner is as long as the outer edge of the shorter portion (11) of the top.

15/16 © EPODOC / EPO

PN - [CN2892388Y](#) Y 20070425
PR - CN2006220411U 20060314
AP - CN2006220411U 20060314
DT - I
PA - XIN ZHENTAO [CN]
TI - Railway wagon bogie cross bar torsional moment trigger
AB - The utility model discloses a torque trigger for cross rods of freight train bogies, and is aimed to provide an intelligent electromechanical integration device driven by a servo motor. The utility model has a PLC with a HMI, and operations are carried out through a contact **screen**, e.g. **configuration**, control, operation or display and print of relevant parameters. The utility model comprises a trolley underframe, a rail, a sliding rail, a sliding block, a sliding plate, a universal ball, a reducer, a servo motor, a coder, a torque sensor, an electric control **cabinet**, a PLC and a servo controller. The device is arranged on the trolley, the universal ball, the reducer, the servo motor and the coder are integrated, and one end of the universal ball is connected with the torque sensor through a connecting sleeve and a coupler. The torque sensor is connected with the positioning **frame** assembly, the positioning **frame** assembly is provided with a plate head installation seat at the front end, and the plate head installation seat is sleeved on the output shaft of the torque sensor. The utility model can ensure quality and reduce labor strength, and can be used for train plants or railway sections.

16/16 © EPODOC / EPO

PN - [CN2091591U](#) U 19920101
PR - CN1991210931U 19910722
AP - CN1991210931U 19910722
DT - I
PA - WU GUANGHUI [CN]
TI - DETACHABLEMETAL-GLASSBED
AB - The utility model relates to a detachable metal-glass bed, which is characterized in that a glass channel block is welded on one end of the bed head; the glass channel block on the bed head which can adhere to the rubber skin is welded to a **frame**, being fixed by a glass sealed cross bar and being supported by a glass L-shaped bracket in the middle of the both ends of the bed head; the down glide is prevented. A bedside **cabinet** or an upright **frame** is connected and fastened with both sides of upright posts on the both ends of the bed head by an angle iron through a support **frame**; the separation and the deformation of the bed head can be prevented. A decorated board **screen** housing is fixed on the glass channel block through an M5 screw. The utility model has the advantages of reasonable structure, shapely **configuration**. The bed body is transparent

and clean.

[SS 2] door and cabinet and screen and configuration

Results in EPODOC 25

[SS 3] CONFIGURATION AND DOOR AND ENTERTAINMENT AND DEVICE

Results in EPODOC 8

[SS 4] ..v

[EPODOC: SS 4] 3

Results in EPODOC 8

[SS 5] ..li



1/8 © EPODOC / EPO

PN - [MX2016009089](#) A 20161013

PR - AT20140000019
20140113; WO2015EP50278
20150108

AP - MX20160009089 20150108

DT - I

CCI - [G07F17/3216](#)

PA - NOVOMATIC AG [AT]

TI - SCREEN FRAME CONFIGURATION
AND SCREEN DEVICE.

AB - Disclosed is a screen **device**, preferably an automatic game and/or **entertainment device**, comprising a **device** housing that has a **door** for opening and closing the **device** housing. The **door** of the housing forms a frame for at least one screen. The legs of said frame surround the at least one screen and delimit a frame opening. The frame has a modular structure and can be variably composed of a plurality of frame parts in different configurations in which the frame has different numbers of frame openings and/or frame openings of different sizes.

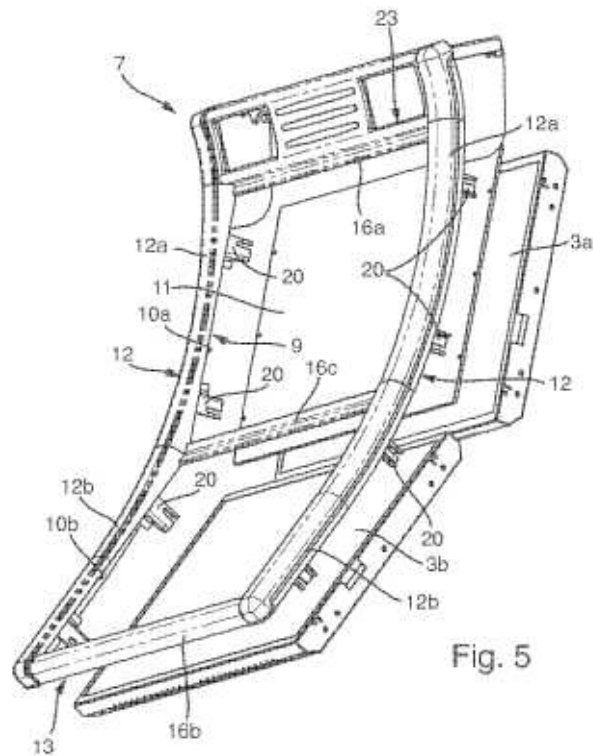


Fig. 5

2/8 © EPODOC / EPO

PN - [PH12016501369](#) A1 20160815
PR - AT20140000019
20140113; WO2015EP50278
20150108
AP - PH12016501369 20160711
DT - I
CCI - [G07F17/3216](#)
PA - NOVOMATIC AG [AT]
TI - SCREEN FRAME **CONFIGURATION**
AND SCREEN **DEVICE**
AB - Disclosed is a screen **device**,
preferably an automatic game
and/or **entertainment device**,
comprising a **device** housing that
has a **door** for opening and
closing the **device** housing.
The **door** of the housing forms a
frame for at least one screen. The
legs of said frame surround the
at least one screen and delimit a
frame opening. The frame has a
modular structure and can be
variably composed of a plurality
of frame parts in different
configurations in which the
frame has different numbers of
frame openings and/or frame
openings of different sizes.

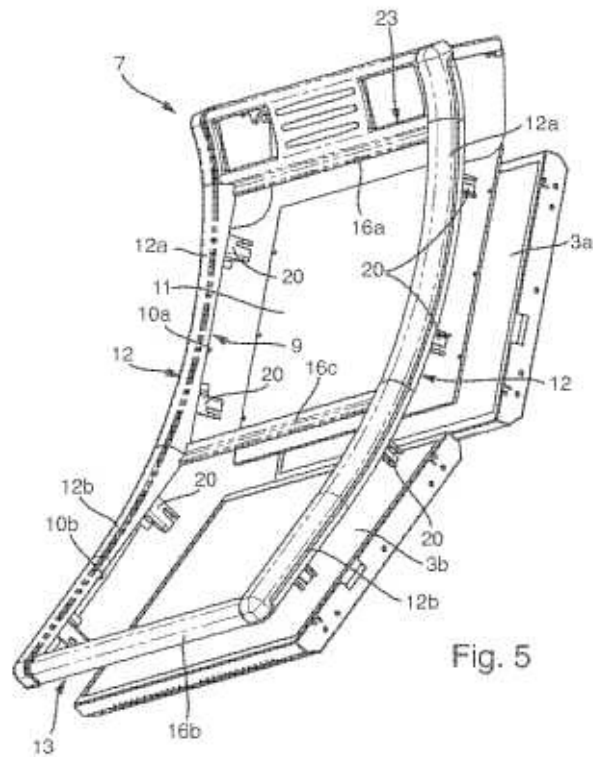


Fig. 5

3/8 © EPODOC / EPO

PN - [CN105981078](#) A 20160928
PR - AT20140000019
20140113; WO2015EP50278
20150108
AP - CN2015808146 20150108
DT - I
CCI - [G07F17/3216](#)
PA - NOVOMATIC AG
TI - Screen frame **configuration** and
screen **device**
AB - Disclosed is a screen **device**,
preferably an automatic game
and/or **entertainment device**,
comprising a **device** housing that
has a **door** for opening and
closing the **device** housing.
The **door** of the housing forms a
frame for at least one screen. The
legs of said frame surround the
at least one screen and delimit a
frame opening. The frame has a
modular structure and can be
variably composed of a plurality
of frame parts in different
configurations in which the
frame has different numbers of

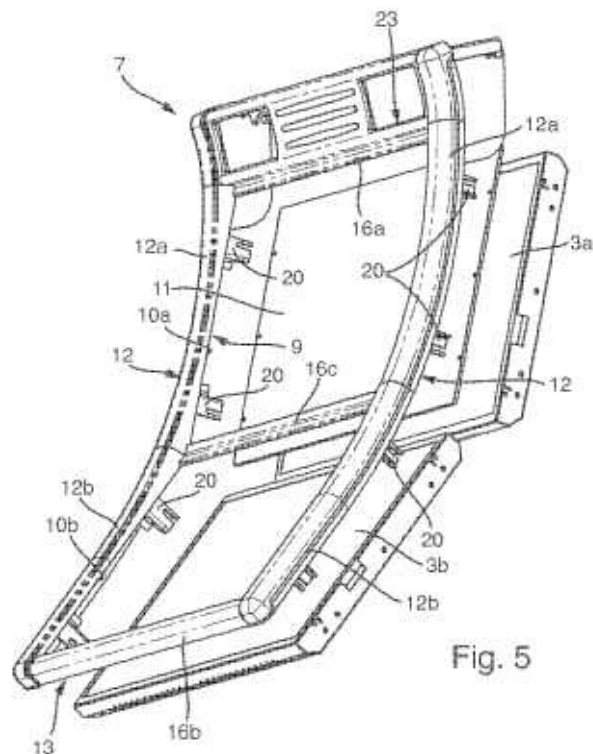


Fig. 5

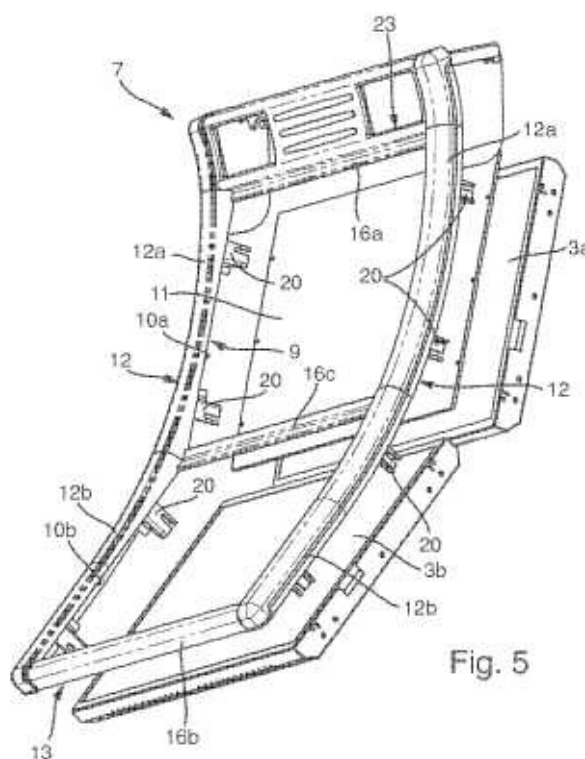
frame openings and/or frame openings of different sizes.

4/8 © EPODOC / EPO

- PN - [CN105980511](#) A 20160928
- PR - JP20140026456 20140214; WO2015JP53835 20150212
- AP - CN2015807686 20150212
- DT - I
- CCI - [B01J13/14](#) ; [C08G18/7671](#) ; [C09K5/063](#) ; [C08G18/3206](#) ; [C08G18/3228](#) ; [F28D20/023](#)
- CCA - [Y02E60/145](#)
- PA - HITACHI CHEMICAL CO LTD
- TI - Screen frame **configuration** and screen **device**
- AB - Disclosed is a screen **device**, preferably an automatic game and/or **entertainment device**, comprising a **device** housing that has a **door** for opening and closing the **device** housing. The **door** of the housing forms a frame for at least one screen. The legs of said frame surround the at least one screen and delimit a frame opening. The frame has a modular structure and can be variably composed of a plurality of frame parts in different configurations in which the frame has different numbers of frame openings and/or frame openings of different sizes.

5/8 © EPODOC / EPO

- PN - [AU2015205563](#) A1 20160728
- PR - AT20140000019
20140113; WO2015EP50278
20150108
- AP - AU20150205563 20150108
- DT - I
- CCI - [G07F17/3216](#)
- PA - NOVOMATIC AG
- TI - Screen frame **configuration** and screen **device**
- AB - Disclosed is a screen **device**, preferably an automatic game and/or **entertainment device**, comprising a **device** housing that has a **door** for opening and closing the **device** housing. The **door** of the housing forms a frame for at least one screen. The legs of said frame surround the at least one screen and delimit a frame opening. The frame has a modular structure and can be variably composed of a plurality of frame parts in different configurations in which the frame has different numbers of frame openings and/or frame openings of different sizes.



6/8 © EPODOC / EPO

PN - [CA2936451](#) A1 20150716
 PR - AT20140000019
 20140113; WO2015EP50278
 20150108
 AP - CA20152936451 20150108
 DT - I
 CCI - [G07F17/3216](#)
 PA - NOVOMATIC AG [AT]
 TI - SCREEN-FRAME CONFIGURATION
 AND SCREEN DEVICE
 AB - Disclosed is a screen **device**,
 preferably an automatic game
 and/or **entertainment device**,
 comprising a **device** housing that
 has a **door** for opening and
 closing the **device** housing.
 The **door** of the housing forms a
 frame for at least one screen. The
 legs of said frame surround the
 at least one screen and delimit a
 frame opening. The frame has a
 modular structure and can be
 variably composed of a plurality
 of frame parts in different
 configurations in which the
 frame has different numbers of
 frame openings and/or frame
 openings of different sizes.

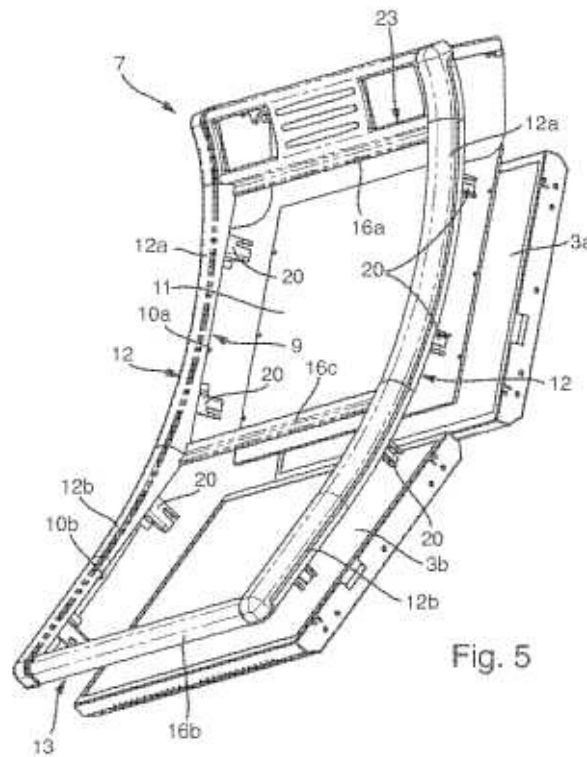


Fig. 5

7/8 © EPODOC / EPO

PN - [WO2015104348](#) A1 20150716
 PR - AT20140000019 20140113
 AP - WO2015EP50278 20150108
 DT - *; Rep
 CT - [EP] ISR (A1)
[US2011136573](#) A1 20110609
 [XI] (MCCOMB RYAN D [US], et al)
 [X] 18
 * the whole document *
 [I] 1-17;
[US2005130746](#) A1 20050616
 [A] (STEPHENSON ORLANDO W III
 [US], et al)
 [A] 1-18
 * the whole document *;
[US2007225079](#) A1 20070927
 [A] (COLE JOSEPH W [US])
 [A] 1-18
 * the whole document *
 CCI - [G07F17/3216](#)
 PA - NOVOMATIC AG [AT]
 TI - SCREEN FRAME CONFIGURATION
 AND SCREEN DEVICE
 AB - Disclosed is a screen **device**,
 preferably an automatic game
 and/or **entertainment device**,

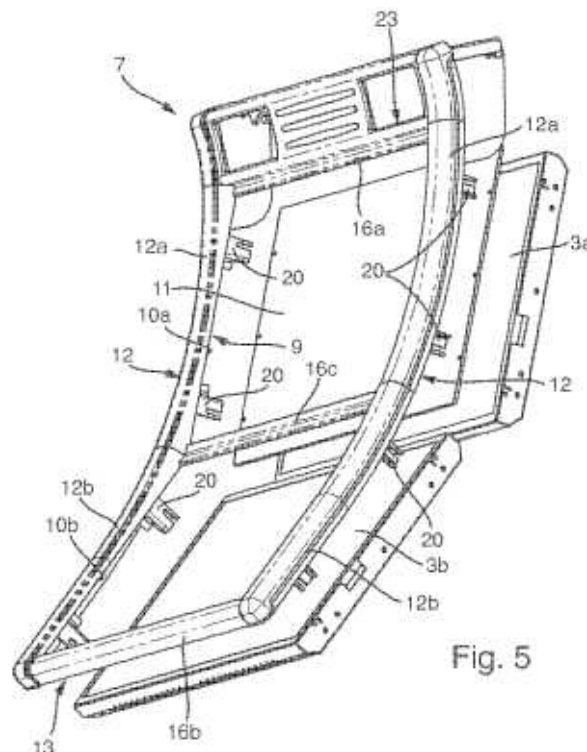


Fig. 5

comprising a **device** housing that has a **door** for opening and closing the **device** housing.

The **door** of the housing forms a frame for at least one screen. The legs of said frame surround the at least one screen and delimit a frame opening. The frame has a modular structure and can be variably composed of a plurality of frame parts in different configurations in which the frame has different numbers of frame openings and/or frame openings of different sizes.

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PN - [US5934718](#) A 19990810

PR - US19980007416 19980115

AP - US19980007416 19980115

DT - *; Rep

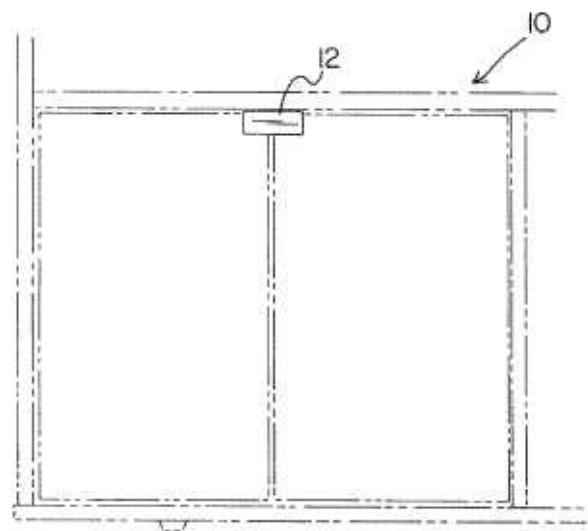
CT - || STSE (A)
[US1246585](#) A 19171113 [] (GERAERDTS GERARD H [US]);
[US1627476](#) A 19270503 [] (BARRETT JOHN H);
[US2954253](#) A 19600927 [] (TEETOR MACY O);
[US3403933](#) A 19681001 [] (ROSSOW LE ROY J);
[US3623268](#) A 19711130 [] (HARRY C ZEPF);
[US4372592](#) A 19830208 [] (BEESE MIKI E [CA]);
[US4915430](#) A 19900410 [] (MOBIL SERVICE SYSTEMS INC [US]);
[GB300539](#) A 19281105 []

CCI - [A47B81/06](#) ; [E05C19/16](#)

CCA - [E05B65/0014](#) ; [Y10S292/65](#) ;
[Y10T292/03](#) ; [Y10T292/34](#) ;
[Y10T292/37](#)

TI - **Entertainment** system cabinet locking **device**

AB - An **entertainment** cabinet **door** locking apparatus is provided including a front extent having a planar **configuration** with a front face, a rear face, and a periphery formed therebetween. Also included is a rear extent including at least one plate coupled at a top edge thereof to a top edge of the front extent in parallel relationship therewith.



[SS 6] ..li

**1/25** © EPODOC / EPO

- PN - [CN206261135U](#) U 20170620
- PR - CN201621071068U 20160922
- AP - CN201621071068U 20160922
- DT - I
- PA - UNIVSICHUAN AGRICULTURAL
- TI - Multi -functional english lecturing of university lectern
- AB - The utility model discloses a multi -functional english lecturing of university lectern, including convenient jack panel, pen container box, the apron that slides, fixed apron, the **cabinet** body, convenient drawer, upset keyboard, main **cabinet door**, display **screen** and handwriting pad, the beneficial effects of the utility model are that: this lectern structural connection is compact, the tennis ball retriever is simple in structure, and reasonable design, the price is suitable, the installation is comparatively convenient with the use, can realize the combination of blackboard teaching and internet science and technology teaching, the drawer of accomodating and pen container setting have, change lectern environment in disorder in the past, the convertible keyboard groud mode of closing, the **configuration** mode of cooperation handwriting pad input, can be more in a careless way save space and improve teaching effect, the apron that slides adopts the design of built -in two section spout, it is durable firm, the rear portion of the main **cabinet door** and the **cabinet** body all is provided with the transom structure, operating efficiency and service life are improved to the guarantee radiating while of host computer, during operation stability is strong, and is suitable for being generalized to use.

2/25 © EPODOC / EPO

- PN - [CN206041643U](#) U 20170322
- PR - CN20162982738U 20160830
- AP - CN20162982738U 20160830
- DT - I
- PA - JIANGXI ELECTRIC POWER DESIGN INST
- TI - Reserve dispatch support system of middle -size and small -size electric wire netting of local level integrates **screen cabinet**
- AB - The utility model discloses a reserve dispatch support system of middle -size and small -size electric wire netting of local level integrates **screen cabinet**, including the standard **cabinet** who has the **cabinet door**, support module, second dispatch to support module and KVM to switch equipment by installing first dispatch in the standard **cabinet**. The utility model discloses a first dispatch supports module and second dispatch to support the module, regards as homophony degree support system and reserve dispatch support system respectively to the dispatch support of regional middle -size and small -size electric wire netting is realized to the different passageway of **configuration**. The utility model discloses simple structure, one set public output device of homophony degree support system and reserve dispatch support system only needs 1 **cabinet**, can accomplish the installation of local level power dispatching technique support system. Can the direct mount when system arranges in the automatic computer lab of little computer lab or transformer substation of local level electric wire netting, the equipment of saving is invested in with the place.

3/25 © EPODOC / EPO

- PN - [CN205247518U](#) U 20160518
- PR - CN201521064601U 20151217

AP - CN201521064601U 20151217

DT - I

PA - SUZHOU MINICUT DEHUI EQUIPMENT CABINET SYSTEM CO LTD

TI - Express delivery **cabinet**, peddle **cabinet** integrated **configuration**

AB - The utility model discloses an express delivery **cabinet**, peddle **cabinet** integrated **configuration**, its assembled **cabinet** body inlays dress main control unit including automatic **cabinet**, switch board, the intelligent express delivery **cabinet** sell, the switch board holding intracavity of switch board inside, and the switch board front surface is installed and is sell **cabinet** touch display **screen**, express delivery **cabinet** touch display **screen**, the ware of punching the card, voluntarily, it sets up the commodity storing compartment to peddle the **cabinet**, and transparent **cabinet door** is installed respectively to each commodity storing compartment front end opening part, inlays the dress light in each commodity storing compartment respectively, and infrared human body sensor is installed to switch board or the automatic front surface of peddling the **cabinet**, and the light of infrared human body sensor, each commodity storing compartment is connected with the main control unit electricity respectively. By the above design, the utility model discloses an aspect can convenience of customers be collected the express delivery and is lightened express delivery person's work load, and on the other hand can convenience of customers buys commodity, can buy commodity simultaneously collecting the express delivery, therefore, the utility model has the advantages of novel in design, the function is various, and convenience of customers lives and improves user experience and feel effectively.

4/25 © EPODOC / EPO

PN - [CN204680099U](#) U 20150930

PR - CN20152359961U 20150529

AP - CN20152359961U 20150529

DT - I

PA - LAN HAIQING

TI - Take long -range real time monitoring's of video humiture automatic vending machine

AB - The utility model discloses a take long -range real time monitoring's of video humiture automatic vending machine, including organism, packing cupboard, refrigerating plant, goods shelves and cargo discharging device, **cabinet door**, interactive installations, receipts make change at present the device, dodge and pay a device and a circuit board, goods shelves and cargo discharging device's below sets up gets the goods mouth, use central processing unit and storage unit as the core on circuit board's the printed circuit board, dispose shipment control module, **cabinet door** monitoring module, temperature monitoring unit, complete machine power module and video recording module, goods shelves and cargo discharging device's cargo discharging device's electrical control part and shipment control module electricity are connected, video recording module **configuration** dress is at the positive camera of packing cupboard, the temperature monitoring unit is connected with the temperature sensor electricity that refrigerating plant's electrical control subtotal was installed in the packing cupboard, the openly installation and the electric speaker of being connected of voice module of packing cupboard. Further dispose spraying humidification device and telecommunication module, realize the remote monitoring, control, look **screen** dialogue and video recording recording function.

5/25 © EPODOC / EPO

PN - [CN204605626U](#) U 20150902

PR - CN20152293087U 20150508

AP - CN20152293087U 20150508

DT - I

PA - LONGYAN HELIOS AUTOMOBILE CO LTD

TI - Emergent drainage wrecking truck

AB - The utility model relates to a special automotive filed's emergent drainage is equipped,

especially relates to an emergent drainage wrecking truck. This emergent drainage wrecking truck including chassis car, carriage, generating set, water pump, switch board, has set up the structure of advancing to air exhaust including turnover **door**, electronic bracing piece, exhaust fan and shutter in the carriage. Be provided with unit control **screen**, workstation in the operation room in carriage, attend lower floor's sofa, fall to install in the exhaust room of making an uproar and fall the exhaust device that makes an uproar, indoor storing frame and the pump control **cabinet** of being provided with of unit, the carriage top is provided with guardrail, a floor-lamp and lift light, the carriage both sides have set up the lower **door** of the **door** of airing exhaust, cleaning **door** and area upset ladder. The structural **configuration** of this drainage wrecking truck is reasonable, can solve the used power matching problem of the on-the-spot water pump of drainage, the the noise reduction effect that airs exhaust is good, is one kind and collects electricity generation, illumination, rest and can supply many water pumps to supply power in the emergent drainage wrecking truck of an organic whole simultaneously.

6/25 © EPODOC / EPO

- PN - [CN104848387](#) A 20150819
- PR - CN20141575415 20141025
- AP - CN20141575415 20141025
- DT - I
- PA - QINGDAO WANLI TECHNOLOGY CO LTD
- TI - Control system for heat exchange hot water supply of cascading tap water pipe network
- AB - Disclosed is a control system for heat exchange hot water supply of a cascading tap water pipe network. The control system mainly comprises a control **cabinet**, a hot water sterilization and disinfection instrument, a temperature control transmitter, a negative pressure eliminator and a hot water variable-frequency pump, wherein the control **cabinet** comprises a **cabinet** body, a control panel, a monitoring module, a touch **screen** and an intelligent controller in an integration mode, the hot water sterilization and disinfection instrument is installed in a pressure-superposed steady-flow coil heat exchanger, and the temperature control transmitter is installed on the pressure-superposed steady-flow coil heat exchanger. The intelligent controller of the control **cabinet** is arranged in the **cabinet** body, a **cabinet door** and a **cabinet** lock are mounted on the **cabinet** body in a matched mode, and the control panel is arranged on the **cabinet** body. The touch **screen** is mounted on the control panel, and a voice alarm device, a power indicator lamp and a fault indicator lamp are further arranged on the control panel. The control system has the advantages that the system **configuration** is complete, adjustment and control are advanced and reasonable, the using effect is good, the protection functions are complete, energy-saving automatic control over the constant temperature and the constant pressure of hot water is conveniently achieved, and the control system has the good popularization and application prospect.

7/25 © EPODOC / EPO

- PN - [CN104846959](#) A 20150819
- PR - CN20141592079 20141030
- AP - CN20141592079 20141030
- DT - I
- PA - QINGDAO WANLI TECHNOLOGY CO LTD
- TI - Pipe network pressure-superposed secondary water supply control system
- AB - The invention discloses a pipe network pressure-superposed secondary water supply control system. The pipe network pressure-superposed secondary water supply control system mainly comprises a control **cabinet**, a pressure sensor P1, a flow sensor Q1, a no-negative-pressure controller, a pressure sensor P0, a flow sensor Q2, a pressure sensor P2, water pumps and a pneumatic water tank, wherein the control **cabinet** integrates a **cabinet** body, a control panel, a monitoring module, a touch **screen** and a controller; the pressure sensor P1 and the flow sensor Q1 are mounted on a water inlet pipe; the no-negative-pressure controller and the pressure sensor P0 are mounted on a

steady-flow tank; the flow sensor Q2 and the pressure sensor P2 are mounted on a water outlet pipe; the controller is arranged in the **cabinet** body; a **cabinet door** and a **cabinet** lock, as well as the control panel, are mounted on the **cabinet** body in a matched manner; the touch **screen** is mounted on the control panel; and a voice alarming device, a power supply indicator, a fault indicator and a hand-operated/automatic intercutting switch are further arranged on the control panel. The pipe network pressure-superposed secondary water supply control system has the benefits that a no-negative-pressure pipe network pressure-superposed frequency conversion and speed regulation control function is achieved, the **configuration** is complete, the regulation and control are advanced and reasonable, the using effect is good, the protection functions are complete, intelligent unattended control can be realized, and an excellent popularization and application prospect is achieved.

8/25 © EPODOC / EPO

- PN - [CN204537214U](#) U 20150805
- PR - CN20142836177U 20141225
- AP - CN20142836177U 20141225
- DT - I
- PA - SUZHOU ASEN SEMICONDUCTORS CO LTD
- TI - **Cabinet** and spare part management system of mill are stored to electron
- AB - The utility model relates to a **cabinet** and spare part management system of mill are stored to electron. The utility model discloses an electron of mill's spare part management is stored the **cabinet** and is included: a plurality of storage compartments, attention device, information acquisition district and controller. The information acquisition district includes: a display **screen**. First card reader, it is through the **configuration** in order to read staff ID, the second card reader, it is through the **configuration** in order to read the spare part code. The controller through the **configuration** with: control **door** partly at least in a plurality of storage compartments is opened, control the attention device is in order to send the guard signal. The utility model discloses an in the at least partial scheme, receiving or giving back through the system, record truly and receive the information of giving back, avoid personnel to receive or give back the mistake, simultaneously through system's operation, replace making at present this grade note paper or the electronics shelves mode through the manual record, resources are saved improves the rate of accuracy, improves work efficiency.

9/25 © EPODOC / EPO

- PN - [CN204311489U](#) U 20150506
- PR - CN20142662093U 20141108
- AP - CN20142662093U 20141108
- DT - I
- PA - QINGDAO WANLI TECHNOLOGY CO LTD
- TI - Pipe network pressure-superposed secondary water supply control system
- AB - The utility model discloses a pipe network pressure-superposed secondary water supply control system. The control system mainly comprises a control **cabinet** integrating a **cabinet** body, a control panel, a monitoring module, a touch **screen** and a controller, a pressure sensor P1 and a flow sensor Q1 installed on a water inlet pipe, a non-negative pressure controller and a pressure sensor P0 installed on a steady flow tank, a flow sensor Q2 and a pressure sensor P2 installed on a water outlet pipe, water pumps and a gas pressure water tank. The controller is arranged in the **cabinet** body, a **cabinet door** and a **cabinet** lock are installed on the **cabinet** body in a matched mode, the control panel is also arranged on the **cabinet** body, the touch **screen** is installed on the control panel, and the control panel is provided with a voice alarm device, a power indicating lamp, a fault indicating lamp and a manual/automatic switchover switch. The pipe network pressure-superposed secondary water supply control system has the advantages of having the function of non-negative pressure pipe network pressure-superposed frequency control, being complete in the system **configuration**, advanced

and reasonable in the adjustment and control, good in using effects, complete in the protective function and capable of achieving the intelligentized unattended operation control and having a good popularization and application prospect.

10/25 © EPODOC / EPO

- PN - [CN204214333U](#) U 20150318
- PR - CN20142662082U 20141108
- AP - CN20142662082U 20141108
- DT - I
- PA - QINGDAO WANLI TECHNOLOGY CO LTD
- TI - Plate heat exchanger unit circulating pump variable frequency energy saving control system
- AB - The utility model discloses a plate heat exchanger unit circulating pump variable frequency energy saving control system. The plate heat exchanger unit circulating pump variable frequency energy saving control system mainly comprises a control **cabinet** which is integrated by a **cabinet** body, a control panel, a monitoring module, a touch **screen** and a controller; the controller is arranged inside the **cabinet** body; a **cabinet door** and a **cabinet** lock are installed on the **cabinet** body in a matching mode; the **cabinet** body is provided with the control panel; the touch **screen** is arranged on the control panel; the control panel is also provided with a voice warning device, a power light and a fault indicating light; a communication externally arranged interface which is connected with the controller is arranged on the control panel; the controller is respectively connected with an analog input-output unit and an on-off input-output unit; the analog input-output unit and the on-off input-output unit are respectively used for collecting and transmitting analog data and on-off data; the controller is also connected with the touch **screen**. The plate heat exchanger unit circulating pump variable frequency energy saving control system has the advantages of being complete in system **configuration**, advanced and reasonable in regulation, strong in adaptability, efficient and energy saving and good in using effect.

11/25 © EPODOC / EPO

- PN - [CN204214039U](#) U 20150318
- PR - CN20142669092U 20141111
- AP - CN20142669092U 20141111
- DT - I
- CCA - [Y02B30/745](#)
- PA - QINGDAO WANLI TECHNOLOGY CO LTD
- TI - Tandem connection tap water pipe network heat transfer hot water supply control system
- AB - The utility model discloses a tandem connection tap water pipe network heat transfer hot water supply control system. The tandem connection tap water pipe network heat transfer hot water supply control system comprises a control **cabinet**, a hot water sterilization sterilizer, a temperature control transmitter, a negative pressure canceller and a hot water variable frequency pump, wherein a **cabinet** body, a control panel, a monitoring module, a touch **screen** and an intelligent controller are integrated into the control **cabinet**; the hot water sterilization sterilizer is arranged inside a pressure-superposed current stabilization coil heat exchanger; the temperature control transmitter is arranged on the pressure-superposed current stabilization coil heat exchanger; the intelligent controller of the controller is arranged inside the **cabinet** body, the **cabinet** body is provided with a **cabinet door**, a **cabinet** lock and the control panel, the **cabinet door** and the **cabinet** lock are matched, the touch **screen** is arranged on the control panel, and the control panel is provided with a voice alarm system, a power supply indicator and a malfunction indicator light. The tandem connection tap water pipe network heat transfer hot water supply control system has the advantages of being complete in system **configuration**, advanced and reasonable in regulation, good in using effect and complete in protection function, conveniently achieves energy-saving

automatic control of hot water constant temperature and constant pressure and has a good popularization and application prospect.

12/25 © EPODOC / EPO

- PN - [CN204012266U](#) U 20141210
- PR - CN20142483486U 20140826
- AP - CN20142483486U 20140826
- DT - I
- PA - CHENGDU HEYUAN DESIGN CONSULTING CO LTD
- TI - **Screen cabinet** for intelligent substation
- AB - The utility model relates to power system equipment and particularly relates to a **screen cabinet** for an intelligent substation. The **screen cabinet** for the intelligent substation is formed by a **cabinet** body and a **cabinet door**. The **cabinet** body comprises an upper **cabinet** body and a lower **cabinet** body. Both the upper **cabinet** body and the lower **cabinet** body are provided with independent **cabinet** doors. The left side in the **cabinet** body is equipped with a **cabinet** internal groove box, and the right side in the **cabinet** body is equipped with a matched unit. The upper **cabinet** body is orderly equipped with an equipment unit and a switching equipment unit from up to down. The lower **cabinet** body is also internally equipped with a disk fiber box and a fiber distribution frame orderly. The **screen cabinet** has the advantages of compact structure and reasonable **configuration**, the maintenance and repair of a fiber are facilitated, the attenuation and loss of an optical signal can be effectively reduced, and the accuracy and effectiveness of information transmission are ensured. Both the upper **cabinet** body and the lower **cabinet** body are provided with the independent **cabinet** doors, the **cabinet** body is divided into an upper layer and a lower layer from the space, the clear and definite interfaces division by a design side, a supplier and a construction side are facilitated, and the improvement of the installation and operation efficiency is facilitated.

13/25 © EPODOC / EPO

- PN - [CN203727624U](#) U 20140723
- PR - CN20132894273U 20131231
- AP - CN20132894273U 20131231
- DT - I
- PA - ZHOUSHAN HAICHUAN MARINE MACHINERY CO LTD
- TI - Multi-tank water level monitoring device
- AB - The utility model relates to a multi-tank water level monitoring device comprising a power adapter mounted in a control **cabinet** body. The device is characterized in that a PLC (programmable logic controller) master station is further mounted in the control **cabinet** body, a display **screen** is mounted on a panel of a **door** of a control **cabinet**, the PLC master station is connected with one to four PLC substation modules, each PLC substation module is connected with one to four water level sensors mounted inside ballast tanks, and all the devices are connected via data bus signal cables. PLC control technology is adopted, the purpose that one PLC master station controls and processes the sixteen ballast tanks with high energy efficiency can be achieved, data can be intelligently processed, the transmission technology of data bus control is adopted, circuits are few but effective, and convenience is brought to future maintenance. The touch **screen configuration** control technology is adopted, so that efficient management and simplified display of various and multiple sets of data is realized, and the device is easy for workers to use, easy to operate and high in working efficiency. The multi-tank water level monitoring device is particularly suitable for controlling water levels of the ballast tanks during loading and unloading of semi-submerged ship or ro-ro ships.

14/25 © EPODOC / EPO

- PN - [CN202662979U](#) U 20130109

PR - CN20122331995U 20120710

AP - CN20122331995U 20120710

DT - I

PA - ELECTRIC POWER RES INST OF JILIN ELECTRIC POWER CO LTD; JILIN ELECTRIC POWER RES INST; STATE GRID CORP CHINA

TI - Electrically-controlled monitoring **cabinet** for transformer substation

AB - The utility model relates to an electrically-controlled monitoring **cabinet** for a transformer substation, belonging to monitoring cabinets. According to the utility model, a control **cabinet** is composed of a **cabinet door** and a **cabinet door**, wherein a voltmeter, an ammeter, a **configuration touch screen**, a control button, an indication lamp, an electrically-controlled **cabinet** lock and a heat dissipation area are arranged on the **cabinet door**; a stroke switch, a motor I and a motor II are arranged on the **cabinet** body; and an air switch, a time relay, a PLC (programmable logic controller), a contactor, a thermal relay, a frequency converter, a direct-current power supply, terminal banks and an electric wire box are arranged in the **cabinet** body. The electrically-controlled monitoring **cabinet** disclosed by the utility model has the advantages that the structure is novel, and a logical control device, a process control device and a movement control device access a same network via a multilevel-distributed control system composed of the PLC, thus conveniently realizing field control and detection. Due to many connecting wires and limited wiring ports, the two terminal banks are adopted, so that electric wire layout is more reasonable and beautiful, and electricity transformation users and operating personnel are facilitated to safely and efficiently use electricity.

15/25 © EPODOC / EPO

PN - [CN202166891U](#) U 20120314

PR - CN20112285905U 20110808

AP - CN20112285905U 20110808

DT - I

CCA - [Y02P90/02](#)

PA - UNIVCHANGCHUNTECHNOLOGY

TI - Electrically-controlled monitoring **cabinet**

AB - The utility model relates to an electrically-controlled monitoring **cabinet**, belonging to a monitoring **cabinet**. The control **cabinet** consists of a **cabinet door** and a **cabinet** body, wherein a voltage meter, a electricity meter, a **configuration touch screen**, a control button, an indicator lamp, an electric control **cabinet** lock and a radiating area are arranged on the **cabinet door**; a travel switch, a motor 1 and a motor 2 are arranged on the **cabinet** body; and the **cabinet** body is internally provided with an air switch, a time relay, a PLC (programmable logic controller), a contactor, a thermal relay, a frequency converter, a direct-current power supply, a terminal row and an electric wire box. The electrically-controlled monitoring **cabinet** has the advantages that the structure is simple; a multi-level distributive control system consisting of the PLC leads a logic control device, a process control device and a motion control device to get access in the same network, thus facilitating the realization of field control and detection. Due to many connected wires and limited wiring ports, two wiring terminal rows are provided, and the layout of the electric wires is more reasonable and more beautiful.

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PN - [WO2010033707](#) A2 20100325

PNFP - WO2010033707 A3 20100617

PR - US20080234583 20080919

AP - WO2009US57328 20090917

DT - **

CT - |KR| ISR (A3)
[JPH06207488](#) A [A];
[US4231191](#) A [A];
[US6346889](#) B1 [A]

CCI - [E06B3/925](#)

CCA - [E05Y2900/106](#) ; [E05D15/165](#) ;
[E05Y2900/20](#) ; [E05F15/686](#)

PA - (A2 A3)
ANVIL CONSTRUCTION INC [US];
DEEM RANDY O [US]; DEEM KIP W [US];
DEEM RUSSELL O [US]; DEEM NATHAN R [US];
PACKER JOHN W [US]; YATES DUSTIN E [US];
EDDINGTON RYAN B [US]; BAIR TIM B [US];
HALL NATHAN D [US]

TI - (A2 A3)
CABINET DOOR SYSTEM

AB - (A2 A3)
An automated **door** system comprising a plurality of overlapping horizontal slats; wherein the plurality of overlapping slats are individually selectably removable. The plurality of overlapping horizontal slats further comprise an inward stair-step **configuration**. In addition, the system further comprises a control module, wherein the control module includes a touch **screen** interface. Furthermore, the system still further comprises a lifting system coupled to the plurality of slats and in communication with the control module; wherein the lifting system is configured to raise and lower the plurality of slats. The lifting system further comprises a rotor coupled to a stepped wheel and a pulley system configured to raise and lower the plurality of slats. The lifting system further comprises a plurality of tracks configured to guide the plurality of slats when raised and lowered.



PN - [US2010072868](#) A1 20100325
 PR - US20080234583 20080919
 AP - US20080234583 20080919
 DT - *; Rep
 CT - || R141 (A1)
 [US3304994](#) A [
 [US3430676](#) A [
 [US2004049984](#) A1 [
 [US1183402](#) A [
 [US2007096872](#) A1 [
 [US2007552](#) A [
 [US5133398](#) A [
 [US1238704](#) A [
 [US4345802](#) A [
 [US5549150](#) A [
 [US3981343](#) A [
 [US2006238085](#) A1 [
 [US6311757](#) B1 [
 [US3874117](#) A [
 [US4231191](#) A [
 [US4543746](#) A [
 [US5247232](#) A [
 [US6346889](#) B1 [
 [US6938372](#) B2 [

 CCI - [E06B3/925](#)
 CCA - [E05Y2900/106](#) ; [E05D15/165](#) ;
 [E05Y2900/20](#) ; [E05F15/686](#)
 PA - ANVIL CONSTRUCTION INC [US]
 TI - **CABINET DOOR SYSTEM**
 AB - An automated **door** system comprising a plurality of overlapping horizontal slats; wherein the plurality of overlapping slats are individually selectably removable. The plurality of overlapping horizontal slats further comprise an inward stair-step **configuration**. In addition, the system further comprises a control module, wherein the control module includes a touch **screen** interface. Furthermore, the system still further comprises a lifting system coupled to the plurality of slats and in communication with the control module; wherein the lifting system is configured to raise and lower the plurality of slats. The lifting system further comprises a rotor coupled to a stepped wheel and a pulley system configured to raise and lower the plurality of slats. The lifting system further comprises a plurality of tracks configured to guide the plurality



of slats when raised and lowered.

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PN - [US2008278041](#) A1 20081113

PR - US20070901581
20070918; US20070928510P
20070510

AP - US20070901581 20070918

DT - *; Rep

CT - || R141 (A1)
[US3811250](#) A [];
[US3874754](#) A [];
[US5401212](#) A [];
[US5408740](#) A [];
[US5561272](#) A [];
[US5730777](#) A [];
[US5789707](#) A [];
[US6318581](#) B1 [];
[US6368206](#) B1 [];
[US6634676](#) B1 [];
[US7282650](#) B2 [];
[US2008278040](#) A1 [];
[US7780248](#) B2 [];
[US6530504](#) B2 [];
[US2007184769](#) A1 [];
[US3779585](#) A [];
[US6294734](#) B1 [];
[US3251139](#) A [];
[US4666228](#) A [];
[US6851769](#) B2 [];
[US2008207034](#) A1 []

CTNP - || R141 (A1)
[] Blue Sea Systesms web page,
December 17, 2003,
<http://web.archive.org/web/20031217054913/http://blueseas.com/request.htm>
[] Blue Sea Systems Product
Catalog 2003, p. 61
[] Definition of "opening",
Webster's Third New
International
Dictionary, Unabridged,
1993, Merriam-Webster,
Incorporated

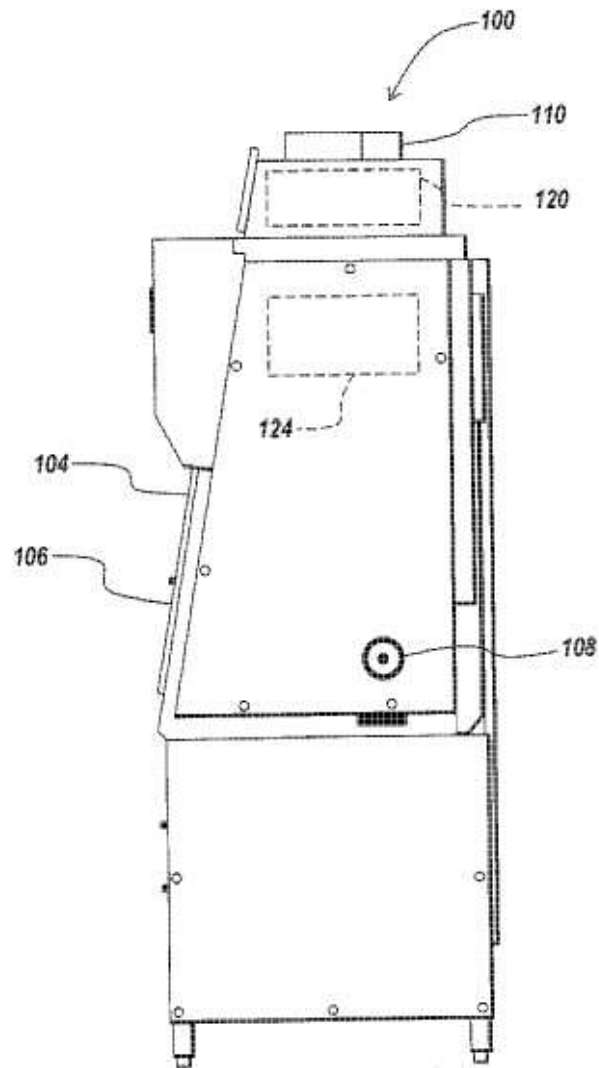
CCI - [B01L1/04](#) ; [F24F3/1607](#)

CCA - [B01L2200/082](#) ; [F24F2011/0005](#)

PA - BAKER COMPANY [US]

TI - Cable port for biosafety **cabinet**

AB - A biosafety **cabinet** includes at
least one cable port disposed in
a wall of the **cabinet** that allows
small tubing and/or cables to
enter the **cabinet** through the
walls. The cable port eliminates
problems associated with
running the tubing and/or cables



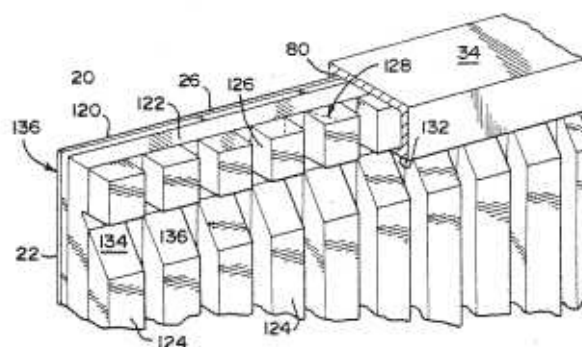
through an open **door** at the front of the **cabinet**. The cable ports enable the user to fully close the view **screen door**, while maintaining the ability to connect various tubes and/or cables to devices in the interior work area of the **cabinet**. The biosafety **cabinet** further includes a double wall **configuration** with negative pressure air space between the two walls. Air and byproducts or contaminants attempting to escape from the **cabinet** into the room or enter the **cabinet** from the outside environment is captured in the negative pressure area between the walls and transported directly to an air filter.

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- PN - [CN201107589Y](#) Y 20080827
- PR - CN20072191207U 20071115
- AP - CN20072191207U 20071115
- DT - I
- PA - HANGZHOU DAYOU TECHNOLOGY DEV [CN]
- TI - Intelligent watch box controller
- AB - The utility model discloses an intelligent controller of **cabinet** body based on the control of single chip microprocessor, which comprises a processor chip, a detection module of the open-close status of **door**, a detection module of electronic key, an output control module, a warning output module and an auxiliary control module. A logic control module is embedded in the processing chip for realizing the control function of the controller. The detection module of the open-close status of **door** is equipped with an input module of travel switch for detecting the open-close status of **door**. The auxiliary control module is the another travel switch positioned on **cabinet** body or **screen** body, and the output terminal is connected with the control end of the relay for immediately locking the relay after opening the **cabinet** or the **screen**. The detection module of electronic key is used to detect if the electronic key inserted is right. The output control module is used to control if a breaker breaks. The controller can effectively prevent that the **cabinet door** or the **screen door** is opened illegally and the internal **configuration** is operated illegally, thereby achieving the purpose of protecting national resources and facilities and having the advantages of the low cost and the reliable control.

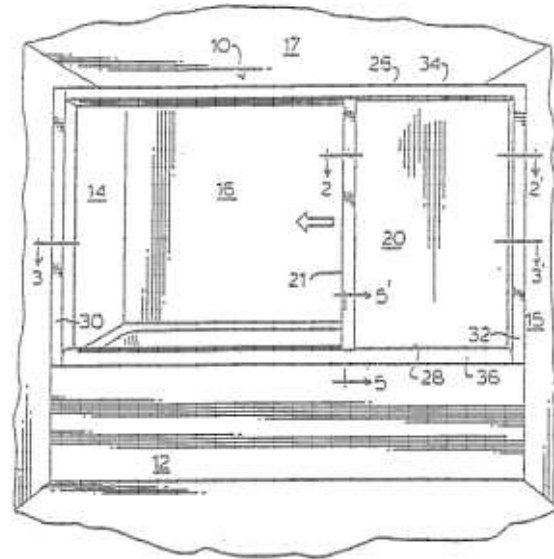
20/25 © EPODOC / EPO

- PN - [US5332021](#) A 19940726
- PR - US19910757602
19910911; US19920880491
19920508
- AP - US19920880491 19920508
- DT - **
- CT - [US778228](#) A []; [US1295712](#) A [];
[US2610681](#) A []; [US2852143](#) A [];
[US3110533](#) A []; [US3195616](#) A [



	]; US3241899 A []; US3542445 A [];
	]; US3552470 A []; US3811370 A [];
	]; US3992751 A []; US4122559 A [];
	]; US4235494 A []; US4288992 A [];
	]; US4294302 A []; US4323105 A [];
	]; US4403641 A []; US4471500 A [];
	]; US4563034 A []; US4687246 A [];
	]; US4809760 A []; US4848437 A [];
	]; US4916764 A []; US5033132 A [];
	]; AU255074 A []; JPS5223842 A []
CCI	- E06B9/115 ; A47K3/38 ; E06B9/08 ; E06B9/13
PA	- TODD JOHN M [CA]; GRIEVE JAMES A [CA]
TI	- Flexible retractable door
AB	- A flexible, retractable assembly for use as a door , space divider, covering or the like which comprises a sheet such as Mylar polyester film having a permanent memory set to roll up on itself or otherwise retract automatically into a coil, accordion, or other compact configuration . The assembly is adapted to be stored on one side of an opening and then guided across the opening to fully or partially cover the opening. The permanent memory set of the sheet permits it to retract at least partially under its own force to eliminate or minimize the need for separate rewinding apparatus. The sheet may substitute for a variety of standard products including entryway doors, closet, cabinet and shower doors, screen doors and windows, room dividers, machinery guards and covers for various items such as florescent light fixtures. The sheet may be combined with decorative finishes including a tambour composite structure providing aesthetic and functional advantages.

- PN - [US6435254](#) B1 20020820
- PR - US19910757602
19910911; US19940230634
19940421; US19920880491
19920508
- AP - US19940230634 19940421
- DT - **
- CT - [US1295712](#) A []; [US2584369](#) A [];
[US3105542](#) A []; [US3195616](#) A [];
[US3911990](#) A []; [US4651797](#) A [];
[US4809760](#) A []; [US4848437](#) A [];
[US5123474](#) A []; [US5505244](#) A []
- CCI - [E06B9/115](#) ; [A47K3/38](#) ;
[E06B9/08](#) ; [E06B9/13](#)
- TI - Flexible retractable **door**
- AB - A flexible, retractable assembly for use as a **door**, space divider, covering or the like which comprises a sheet such as Mylar polyester film having a permanent memory set to roll up on itself or otherwise retract automatically into a coil, accordion, or other compact **configuration**. The assembly is adapted to be stored on one side of an opening and then guided across the opening to fully or partially cover the opening. The permanent memory set of the sheet permits it to retract at least partially under its own force to eliminate or minimize the need for separate rewinding apparatus. The sheet may substitute for a variety of standard products including entryway doors, closet, **cabinet** and shower doors, **screen** doors and windows, room dividers, machinery guards and covers for various items such as florescent light fixtures. The sheet may be combined with decorative finishes including a tambour composite structure providing aesthetic and functional advantages.



PN - [US2002092628](#) A1 20020718

PR - US19910757602
19910911; US19920880491
19920508; US19940230634
19940421; US20020090839
20020306

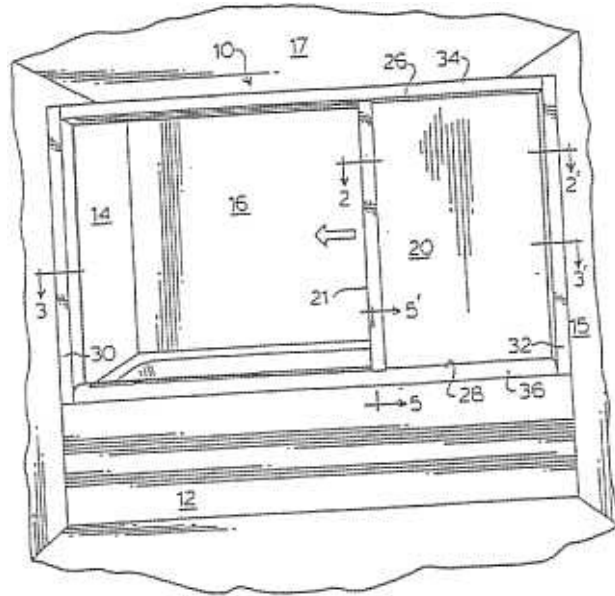
AP - US20020090839 20020306

DT - **

CCI - [E06B9/115](#) ; [A47K3/38](#) ;
[E06B9/08](#) ; [E06B9/13](#)

TI - Flexible retractable **door**

AB - A flexible, retractable assembly for use as a **door**, space divider, covering or the like which comprises a sheet such as Mylar polyester film having a permanent memory set to roll up on itself or otherwise retract automatically into a coil, accordion, or other compact **configuration**. The assembly is adapted to be stored on one side of an opening and then guided across the opening to fully or partially cover the opening. The permanent memory set of the sheet permits it to retract at least partially under its own force to eliminate or minimize the need for separate rewinding apparatus. The sheet may substitute for a variety of standard products including entryway doors, closet, **cabinet** and shower doors, **screen** doors and windows, room dividers, machinery guards and covers for various items such as florescent light fixtures. The sheet may be combined with decorative finishes including a tambour composite structure providing aesthetic and functional advantages.



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PN - [CN200983507Y](#) Y 20071128

PR - CN2006236326U 20061120

AP - CN2006236326U 20061120

DT - I

CCA - [Y02E40/30](#)

PA - CHENGDU YISIDA ENERGY SAVING E [CN]

TI - Intelligent energy-saving integration device

AB - The utility model discloses an intelligent energy-saving integrated device, a no-load compensating capacitor (15) is connected to the output port of a frequency-converter (13), a dual-head change-over switch (12) is arranged between the no-load compensating capacitor (15) and the frequency-converter, a reactor (1), an air switch

(3), a control circuit (11), the dual-head change-over switch (12), the frequency-converter (13) and the no-load compensating capacitor (15) are arranged in a control **cabinet** (14), a heat radiation outlet is arranged on the top of the control **cabinet** (14) a touch **screen** (4), a start button (5), a stop button (6), a running indicator (9) and a stopping indicator (7) are on a **door** (10) of the control **cabinet** and separately connected to the control circuit (11). The utility model has the advantages of compact structure, saving space, excellent dust prevention effect, safety protection and attractive **configuration**, the operation is simplified and convenient for operators and the energy-saving effect is excellent.

24/25 © EPODOC / EPO

PN - [WO9304619](#) A1 19930318

PR - US19910757602
19910911; US19920880491
19920508

AP - WO1992CA00393 19920911

DT - *; Rep

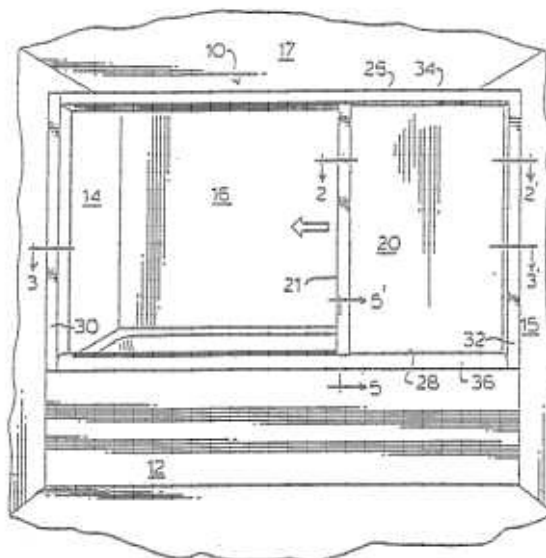
CT - |EP| ISR (A1)
[DE3622696](#) A1 [X];
[US4916764](#) A [X];
[DE2838787](#) A1 [Y];
[BE655971](#) A [A];
[DE3212373](#) A1 [A]

CCI - [A47K3/38](#) ; [E06B9/08](#) ;
[E06B9/115](#) ; [E06B9/13](#)

PA - TODD JOHN M [CA]; GRIEVE
JAMES A [CA]

TI - FLEXIBLERETRactable **DOOR**

AB - A flexible, retractable assembly for use as a **door**, space divider, covering or the like which comprises a sheet (20) such as Mylar <TM> polyester film having a permanent memory set to roll up on itself or otherwise retract automatically into a coil (42), accordion, or other compact **configuration**. The assembly is adapted to be stored on one side of an opening and then guided across the opening to fully or partially cover the opening. The permanent memory set of the sheet permits it to retract at least partially under its own force to eliminate or minimize the need for separate rewinding apparatus. The sheet may substitute for a variety of standard products including entryway doors, closet, **cabinet** and shower doors, **screen** doors and windows, room dividers, machinery guards and covers for various items such as fluorescent light fixtures. The sheet may be combined with decorative finishes including a



tambour composite structure
providing aesthetic and
functional advantages.

- 25/25** © EPODOC / EPO
- PN - [CA2118787](#) A1 19930318
- PNFP - CA2118787 C 19980414
- PR - US19920880491
19920508; US19910757602
19910911
- AP - CA19922118787 19920911
- DT - I
- CCI - [E06B9/115](#) ; [A47K3/38](#) ;
[E06B9/08](#) ; [E06B9/13](#)
- PA - (A1 C)
TODD JOHN M [CA]; GRIEVE
JAMES A [CA]
- TI - (A1 C)
FLEXIBLERETRactable **DOOR**
- AB - (C)
A flexible, retractable assembly
for use as a **door**, space divider,
covering or the like which
comprises a sheet (20) such as
Mylar™ polyester film having a
permanent memory set to roll up
on itself or otherwise retract
automatically into a coil (42),
accordion, or other
compact **configuration**. The
assembly is adapted to be stored
on one side of an opening and
then guided across the opening
to fully or partially cover the
opening. The permanent memory
set of the sheet permits it to
retract at least partially under
its own force to eliminate or
minimize the need for separate
rewinding apparatus. The sheet
may substitute for a variety of
standard products including
entryway doors, closet, **cabinet**
and shower doors, **screen** doors
and windows, room dividers,
machinery guards and covers for
various items such as
fluorescent light fixtures. The
sheet may be combined with
decorative finishes including a
tambour composite structure
providing aesthetic and
functional advantages.

