



New connection on: : 17-05-2018 : 22:19:10 - Last disconnection on: : 17-05-2018 : 19:23:20

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

Welcome to EPOQUE Rebuild under the Production Environment

[EPODOC: SS 9] ..fi EPODOC

 Database: EPODOC

[EPODOC: SS 9] (furniture OR cabinet+ OR (display AND case) OR showcase OR (pie AND case) OR hutch)

Results in EPODOC **470.774**

[SS 10] (furniture OR cabinet+ OR (display AND case) OR showcase OR (pie AND case) OR hutch)AND modul+ AND (upper OR top OR bottom OR lower) AND section AND (right OR left) AND (frame+ OR structure)

Results in EPODOC **28**

[SS 11] ..v

[EPODOC: SS 11] ..li



1/28 © EPODOC / EPO

PN - [CN206379633U](#) U 20170804

PR - CN201621088398U 20160929

AP - CN201621088398U 20160929

DT - I

PA - BEIJING XINLI CREATE ELECTRONIC EQUIPMENT LLC

TI - **Modular** low -voltage distribution **cabinet**

AB - The utility model relates to a **modular** low -voltage distribution **cabinet**, **modular** low -voltage distribution **cabinet** is by the host computer **cabinet**, separate the **cabinet**, the supplementary **cabinet** and the supplementary **cabinet** A four bibliographic categories divide and form, every **cabinet** is by ten **section** bar welded support bodys by twenty percent discount, the **top** cap, the base forms with front and back door equipment, four **cabinet** and back as an organic whole, its **top** is installed and is led to long angle steel, the curb plate is installed to the **left** and **right** sides, its inside **top** communicates each other, lead to long copper installation in switch board **top**, wherein host computer **cabinet** inside is whole space, it has six layers of fixed compartment to

separate **cabinet** inside, there is the independent compartment of three -layer supplementary **cabinet** inside, there is two -layer independent compartment supplementary **cabinet** A inside, wherein separate the **cabinet**, the shrouding in ventilation hole is all installed to supplementary **cabinet** and 1 **bottom** in the supplementary **cabinet**, four **cabinet** of group all are equipped with the baffle of taking the abate hole between two liang, this switch board simple **structure**, functions are powerful, be convenient for the maintenance and factor of safety higher.

2/28 © EPODOC / EPO

- PN - [CN205791038U](#) U 20161207
- PR - CN20162732889U 20160713
- AP - CN20162732889U 20160713
- DT - I
- PA - TANGSHAN DUNSHI ELECTRIC CO LTD
- TI - Fixed **cabinet** of separating
- AB - The utility model relates to a fixed **cabinet** of separating belongs to rack technical field. Technical scheme is: lintel (1), go up shrouding (2), 150mm compartment door (3), 200mm compartment door (4), 300mm compartment door (5), 100mm compartment door (6), 600mm compartment door (7), shrouding (9) set gradually the front panel at the **cabinet** body from **top** to **bottom** down, 200mm side door (8) set up the **right** side position at **cabinet** body front panel, C **section** bar equipment **frame** (11) supports the whole **cabinet** body, crossbeam (17), the long roof beam that erects is installed on C **section** bar equipment **frame**, horizontal bus (12), horizontal bus presss from both sides (13) and installs on horizontal bus presss from both sides support (14), perpendicular generating line is installed on insulation support. The utility model discloses an assemble the fixed **cabinet** of separating multiloop design of adoption of the many compartments of branch line of **frame** and the design of branch line at the C **section** bar, not only the return circuit line space that connects in large quantity is big for the fixed **cabinet** of separating of the many compartments of branch line, and compact **structure** assembles the convenience and can also adapt to the equipment of complete **modulization** moreover.

3/28 © EPODOC / EPO

- PN - [CN106384955](#) A 20170208
- PR - CN201611041544 20161124
- AP - CN201611041544 20161124
- DT - I
- CT - || STSE (A)
[CN104211433](#) A 20141217 [A] (ANHUI BODA CELLULOSE TECHNOLOGY CO LTD)
 [A] 1-10
 * 全文 *;
[CN105907291](#) A 20160831 [Y] (WANG QIAO)
 [Y] 1-10
 * 权利要求1以及说明书第10段 *;
[CN106025857](#) A 20161012 [A] (PENGLAI POWER SUPPLY COMPANY STATE GRID SHANDONG ELECTRIC POWER COMPANY)

[A] 1-10

* 全文 *;

[CN205680962U](#) U 20161109 [Y] (LONGKOU POWER SUPPLY CO OF STATE GRID SHANDONG ELECTRIC POWER CO)

[Y] 1-10

* 说明书第17,25段 *

- CNOI - [C09D1/00](#) ; [C09D5/14](#) ; [C09D5/18](#) ; [H02B1/28](#) ; [H02B1/32](#) ; [H02B1/565](#) ; [C09D7/61](#) ; [C09D7/63](#)
- PA - TANG LIANG
- TI - Safe and high-performance smart power distribution **cabinet**
- AB - The invention discloses a safe and high-performance smart power distribution **cabinet** which comprises a **cabinet** body, an operation bench fixedly installed on the **right** central **section** of the **cabinet** body, an alarm and an inclined pole installed above the **right** side of the **cabinet** body, a USB interface on the **right** side surface of the operation bench, an RFID recognizer on the front central **section** of the operation bench, a touch screen control panel on the front side of one end of the operation bench, and a fingerprint recognizer on the **right lower** end of the touch screen control panel. A first camera and a second camera are combined to realize remote monitoring, and are in cooperation with the fingerprint recognizer to improve safety. Operation by non-management workers can be prevented, thereby preventing major accidents in a machine room. The **structure** is novel and simple, and the heat radiation performance is good. A ZigBee wireless transmission **module** is networking according to needs, thereby realizing uniform blending control management. The automation level is high, and power supply is reliable. The power distribution **cabinet** saves time and labor, current and voltage qualified rate is high, and reactive compensation effect is good.

4/28 © EPODOC / EPO

- PN - [CN205921383U](#) U 20170201
- PR - CN20162476871U 20160524
- AP - CN20162476871U 20160524
- DT - I
- PA - YISHENG ENERGY EQUIPMENT LTD
- TI - Full -controlled electric energy quality device
- AB - The utility model discloses a full -controlled electric energy quality device, the intelligent **cabinet** temperature adjusting device comprises a **cabinet** body, be provided with isolator, circuit breaker, fast acting fuse, active power filter **module** on the **cabinet** body, synthesize compensation controller, the **cabinet** is internal has put passive compensation filter **module**, passive compensation filter **module** embeds has condenser, reactor, the **left** and **right** both sides of passive compensation filter **module** downside are provided with **bottom** channel -**section** steel, **left** and **right** both sides be connected with **bottom** suspension fagging, condenser **bottom** plate and horizontal double -screw bolt between the channel -**section** steel of **bottom**, the condenser lies in the **bottom** suspension fagging, the condenser is located the condenser **bottom** plate, the device through equitable construction improvement, especially through the **bottom** channel - **section** steel cooperation **bottom** suspension fagging of extension design, the design of condenser **bottom** plate, makes condenser, reactor install together to the

special requirement of passive compensation filter **module** in electric energy monitoring for the installation and the **module** transportation of components and parts are more convenient, the also easy dismounting of both sides **bottom** channel -**section** steel **structure** , and convenient inside components and parts can be changed at any time.

5/28 © EPODOC / EPO

PN - [CN205828924U](#) U 20161221
PR - CN20162699636U 20160706
AP - CN20162699636U 20160706
DT - I
PA - ZHANGJIAGANG FUSHI METAL PRODUCTS CO LTD
TI - Electric power operation **cabinet**
AB - The utility model discloses an electric power operation **cabinet**, one side of the operation **cabinet** body still sets up the power **cabinet** body, the internal power supply that sets up of power **cabinet**, power supply is connected with the internal control operation **module** of operation **cabinet** through the supply cable, fixed surface has the cross - **section** to be the operation panel of **right** trapezoid shape on the operation **cabinet** body, be provided with operating panel on the inclined plane of operation panel, operating panel is connected with control operation **module**, the both sides of operation panel **upper** surface are provided with first lug respectively, the **upper** surface of the power **cabinet** body is provided with cooling fan, set up rectangle ventilation hole on the lateral wall of the power **cabinet** body, be provided with dustproof filter screen on the rectangle ventilation hole. The utility model discloses place electric power operation **cabinet**'s power supply alone to be provided with cooling fan, slowed down the interior electronic component's of electric power operation **cabinet** ages at a rate greatly, and still all be provided with the lug on the operation **cabinet** body, the power **cabinet** body, the installation transportation of being convenient for hoist, simple **structure** realizes having good application prospect easily.

6/28 © EPODOC / EPO

PN - [CN205754106U](#) U 20161130
PR - CN20162691573U 20160705
AP - CN20162691573U 20160705
DT - I
PA - TIANJIN EMPYREAN ELECTRIC CO LTD
TI - Novel multi -functional electronic cubical switchboard
AB - The utility model provides a novel multi -functional electronic cubical switchboard includes insulating substrate, fuse, fin, wide voltage source, radiator fan, controller, control **section** binding post, electronic switch, drivetrain parts binding post, electrothermal relay, quick -witted case, louvre, handle, chamber door, instruction **structure**, control button **structure** and combination hole, the fuse pass through bolted connection and install the **upper left** side at insulating substrate, wide voltage source electric connection at the **right** part of fuse, radiator fan pass through the screw connection and install the **right** part at insulating substrate, controller electric connection in the **lower** part of wide voltage source, control **section** binding

post electric connection in the **lower** part of controller, electronic switch electric connection at the **left** part of controller. The utility model discloses a setting in combination hole is favorable to realizing the **modularization** of electronic switch **cabinet**, can be through the random combination electronic switch **cabinet** in combination hole, increased the electronic switch **cabinet** the function, maintain convenient.

7/28 © EPODOC / EPO

PN - [CN105977814](#) A 20160928

PR - CN20161522600 20160706

AP - CN20161522600 20160706

DT - I

CT - || STSE (A)
[CN201360105Y](#) Y 20091209 [Y] (XIAMEN MINGHAN ELECTRICAL CO L [CN])
[Y] 1-6
* 说明书第1页第1段至第3页最后1段, 图1-5 *;
[CN201378200Y](#) Y 20100106 [Y] (ZHUSHOU ZHONGDA TEKE ELECTRONIC TECHNOLOGY CO LTD)
[Y] 1-6
* 说明书第1页第1段至第2页最后1段, 图1-2 *;
[CN203951355U](#) U 20141119 [A] (NANJING SINENG ELECTRIC CO LTD)
[A] 1-6
* 全文 *;
[CN205828924U](#) U 20161221 [R] (ZHANGJIAGANG FUSHI METAL PRODUCTS CO LTD)
[R] 1-6
* 权利要求1-6 *

CNOI - [H02B1/30](#) ; [H02B1/565](#) ; [H02B15/00](#)

PA - ZHANGJIAGANG FUJI METAL PRODUCTS CO LTD

TI - Electric power operation **cabinet**

AB - The invention discloses an electric power operation **cabinet** which includes an operation **cabinet** body which is provided with a power supply **cabinet** body on one side of the operation **cabinet**. The power supply **cabinet** is provided with a power supply therein. The power supply is in connection to a control operation **module** which is in the operation **cabinet** through a power supply cable. An **upper** surface of the operation **cabinet** is fixedly provided with an operation bench which has a **right** angle trapezoid-shaped cross **section**. An inclined surface of the operation bench is provided with an operation panel thereon. The operation panel is in connection to the control operation **module**. The two sides of the **upper** surface of the operation bench are separately provided with a first lug. An **upper** surface of the power supply **cabinet** body is provided with a heat radiation blower fan. An external side wall of the power supply **cabinet** body is provided with a rectangular ventilation hole thereon. The rectangular ventilation hole is provided with a dust-proof net thereon. According to the invention, the power supply of the electric power operation **cabinet** is independently arranged, and the heat radiation blower fan is arranged, which greatly slow aging speed of electronic elements inside the electric power operation **cabinet**, lugs are disposed on the operation **cabinet** body and the power supply **cabinet** body, which is easy to lift, install and transport. The electric power operation **cabinet** has

simple **structure**, is easy to achieve, and has excellent application potential.

8/28 © EPODOC / EPO

- PN - [CN205544958U](#) U 20160831
- PR - CN2016290992U 20160129
- AP - CN2016290992U 20160129
- DT - I
- PA - BAODING LAITE RECTIFIER CO LTD
- TI - Improved generation electrophoresis rectifier cubicle body
- AB - The utility model belongs to the technical field of **cabinet** body technique and specifically relates to an improved generation electrophoresis rectifier cubicle body, including the base, the base **upper** end is located two downside steel of **left** and **right** border position fixedly connected with, and the base **upper** end is located two preceding, back border position fixedly connected with horizontal steel down, and nearly four the apex angle positions in base **upper** end all are provided with the stand. The utility model discloses an improved generation electrophoresis rectifier cubicle body is through imitating standard **section** bar **cabinet** body characteristic, and the door plant adopts the outer **structure** of buckleing to improve **cabinet** body protection level and aesthetic property, and upward positions such as xia menliang, stand are whole adopts the cold -rolled steel sheet to be processed into 9 **section** bar **cabinet** structural style to the mounting hole of being furnished with standard **modulus**. Its plate thickness and cross -**section** are compared with 9 **section** bars and are all wanted big a lot, satisfy the bearing requirement of the **cabinet** body completely. Also improved simultaneously **cabinet** body design standard, simplified the design of the **cabinet** body, provide convenient for device mounting dimension in the **cabinet** adjusts.

9/28 © EPODOC / EPO

- PN - [CN205544883U](#) U 20160831
- PR - CN20152591521U 20150803
- AP - CN20152591521U 20150803
- DT - I
- CCA - [Y02E10/76](#)
- PA - ZHEJIANG HRV ELECTRIC CO LTD
- TI - Air -cooled wind power converter **cabinet**
- AB - The utility model discloses an air -cooled wind power converter **cabinet**, including the **cabinet** body, the **cabinet** body wherein is equipped with switch board, power **cabinet** on the **left** including **left** and **right** two parts, and the **right** is equipped with the IGBT **cabinet**, and this switch board and power **cabinet** are equipped with the **left** -hand door board outward, install the door plant fan on this **left** -hand door board, the IGBT **cabinet** includes cavity, well cavity and **lower** cavity, and wherein, the indoor lumen of establishing of lumen send the draught fan, has offered lumen ventilation hole on the chamber door board in being somebody's turn to do, installs the ventilation blower behind the lumen on the shrouding, the draught fan is sent in the indoor chamber of setting of cavity of resorption, has seted up ventilation hole before the cavity of resorption on this time chamber door board, has seted up the hole that

ventilates behind the cavity of resorption behind the cavity of resorption on the shrouding. The utility model discloses compact **structure**, occupation space are little, make things convenient for the installation of converter in a wind power generation tower **section** of thick bamboo, the radiating mode of air -out on the air inlet under especially the indoor power unit **module** of the lumen of IGBT **cabinet** part adopts, simple **structure**, easy dismounting, the radiating effect is good, has effectively alleviated the over heating issue of power unit **module**.

10/28 © EPODOC / EPO

- PN - [CN205404666U](#) U 20160727
- PR - CN20162215401U 20160321
- AP - CN20162215401U 20160321
- DT - I
- PA - LUOHE POWER SUPPLY CO STATE GRID HENAN ELECTRIC POWER CO
- TI - Middle -arranged switch **cabinet** tests electric auxiliary device
- AB - The utility model discloses a middle -arranged switch **cabinet** tests electric auxiliary device, including rectangular **frame**, the setting 4 wheels of **frame bottom** with set up the joint at **frame** the place ahead middle part, insulating bar clamps on the joint, **frame** the edge is being close to in 2 wheel settings at the rear, the middle part position is close to at the **frame** to 2 wheel settings in the place ahead, the **frame** both sides are close to the place ahead position and establish the opening, **frame** the place ahead middle part sets up the bar hole, the **frame** front portion sets up a set of side -to -side adjustment **module** that stacks together, the opening is passed to the side -to -side adjustment **module**, set up one or more hole and corresponding with the bar hole in the side -to -side adjustment **module**, the side -to -side adjustment **module** is passed the hole by the fastener and is connected on the bar hole, side -to -side adjustment **module** both sides set up **left** side unlocking **module** and **right** side unlocking **module**, **left** side unlocking **module** and **right** side unlocking **module** are the outside channel -**section** steel of opening. The utility model discloses the supplementary electrician's work of testing of isolation barrier is pushed open to the cubical switchboard of adjustable width in order to be applicable to various sizes before being safety measure.

11/28 © EPODOC / EPO

- PN - [CN205178308U](#) U 20160420
- PR - CN20152844338U 20151028
- AP - CN20152844338U 20151028
- DT - I
- PA - WANG YING
- TI - Theftproof electric power **cabinet** convenient to remove with fixed
- AB - The utility model discloses a theftproof electric power **cabinet** convenient to remove with fixed, including the **cabinet** body, **cabinet** body front side is equipped with the **cabinet** door, and the observation window has been seted up through two **upper** and **lower** hinges and **cabinet** body coupling, **cabinet** door upside to **cabinet** door **left** end, and **cabinet** student side is equipped with heat radiation grille, and **cabinet** door middle **section** keeps **left** and is equipped with fingerprint identification collection **module**, and fingerprint identification collection **module** and the inboard

system control **module** of **cabinet** door are connected, and system control **module** is connected with the fingerprint lock that the **cabinet** inclined in front of the door, the utility model discloses theftproof electric power **cabinet** convenient to remove with fixed, has a reasonable **structure**, long service lifetime, the theftproof ability of electric power **cabinet** that has set up effective improvement of fingerprint lock, and heat dissipation, the drying effect is good, the use maintenance cost is low, can be to the cold wind heating that gets into the internal portion of **cabinet** during winter, avoided electric power **cabinet** internal plant to cross the low phenomenon that can not normally work because of temperature, be convenient for in addition fix and remove, has certain rain -proof waterproof ability, can adapt to the road surface that the height is uneven, therefore, the clothes hanger is strong in practicability.

12/28 © EPODOC / EPO

- PN - [CN204906168U](#) U 20151223
- PR - CN20152592479U 20150803
- AP - CN20152592479U 20150803
- DT - I
- PA - ZHEJIANG HRV ELECTRIC CO LTD
- TI - Air -cooled wind power converter **cabinet**
- AB - The utility model discloses an air -cooled wind power converter **cabinet**, including the **cabinet** body, the **cabinet** body is equipped with power **cabinet**, switch board including **left** and **right** two parts, the **left** side, and the **right** is equipped with the IGBT **cabinet**, and switch board and power **cabinet** are equipped with the **left** -hand door board outward, install the door plant fan on this **left** -hand door board, the IGBT **cabinet** includes cavity and **lower** cavity, goes up cavity the place ahead and establishes the epicoele door plant, and shrouding behind the epicoele is established at the rear, installs the epicoele ventilation blower behind the epicoele on the shrouding, down the chamber door plant is set in cavity the place ahead, and shrouding behind the chamber is set at the rear establishes in, and send the draught fan, installs the cavity of resorption ventilation blower behind the cavity of resorption on the shrouding. The utility model discloses compact **structure**, occupation space are little, make things convenient for the installation of converter in a wind power generation tower **section** of thick bamboo, the radiating mode of air -out on the air inlet under especially the indoor power unit **module** of the cavity of resorption of IGBT **cabinet** part adopts, simple **structure**, easy dismounting, the radiating effect is good, has effectively alleviated the over heating issue of power unit **module**.

13/28 © EPODOC / EPO

- PN - [CN204685396U](#) U 20151007
- PR - CN20152288642U 20150507
- AP - CN20152288642U 20150507
- DT - I
- PA - KUNSHAN XINTENGSHUN AUTOMATION EQUIPMENT CO LTD
- TI - Novel point gum machine group
- AB - The utility model discloses a novel point gum machine group, it relates to point gum machine technical field, be provided with Y axle **section** bar slip **module** workstation in

the middle of the **upper** portion of switch board, transversely be provided with point gum machine X axle **section** bar **module** between point gum machine **right** side **section** bar support and the point gum machine **left** side **section** bar support, the vertical point gum machine Z axle **section** bar **module** that is provided with on the point gum machine X axle **section** bar **module**, the servo motor's of point gum machine X axle **section** bar **module** **left** end **upper** portion is provided with the three -colour alarm lamp, 24 inside of organism are provided with point gum machine Y axle **module** with point gum machine X axle **section** bar **module** and the equal vertically direction of point gum machine Z axle **section** bar **module**. Its novel **structure**, the base sets up with the switch board is integrative, and the front portion is provided with the **cabinet** door, can hold toolbox etc. And the lathe be aluminium template **structure**, and convenient operation, installation are quick, the saving cost.

14/28 © EPODOC / EPO

- PN - [CN204315920U](#) U 20150506
- PR - CN20142786703U 20141212
- AP - CN20142786703U 20141212
- DT - I
- PA - TIANJIN RES INST ELECTRIC SCIENCE CO LTD; TIANJIN TIANCHUAN ELECTRIC CONTROL POWER DISTRIB CO LTD
- TI - Novel switchgear 45-degree wing angle G **section** bar
- AB - The utility model relates to a novel switchgear 45-degree wing angle G **section** bar formed by a front flanging, an **upper** vertical edge, an **upper** flat plate, a rear vertical plate, a **lower** flat plate and a **lower** vertical edge integrated together; the **upper** flat plate, the rear vertical plate and the **lower** flat plate are bended into **frame section** bars with front openings in a **right** angle; the front end of the **upper** flat plate bends downwards to form the **upper** vertical edge in a **right** angle; the **lower** portion of the **upper** vertical edge bends forwards to form the front flanging in the **right** angle; two sides of the **lower** flat plate extend outside the rear vertical plate; two ends of the **lower** flat plate employ 45-degree wing angle design; a wing edge is provided with a suspension ring gap; the middle front end of the **lower** flat plate is provided with the **lower** vertical edge in an up direction; the middle of the **upper** flat plate is provided with a function **module** round hole and a function **module** square hole; the novel switchgear 45-degree wing angle G **section** bar is made of aluminized Zn steel plate, is unique in profile, two ends of the **section** bar are 45-degree wing angle structures matched with a metal sheet three way connector, thus assembling multipurpose switchgears like an industrial control **cabinet** and a power distribution **cabinet**; the novel switchgear 45-degree wing angle G **section** bar can be produced by enterprises with metal sheet processing ability and bending equipment, thus reducing outsourcing dependent level of low voltage complete switchgear metal sheet parts.

15/28 © EPODOC / EPO

- PN - [CN203691850U](#) U 20140702
- PR - CN2014243410U 20140123
- AP - CN2014243410U 20140123
- DT - I

PA - SUGON INFORMATION IND BEIJING

TI - **Cabinet fan module**

AB - The utility model provides a **cabinet fan module** which comprises a fan installation rack, a fan **module frame** and a rear cover. A cross **section** of the fan installation rack is L-shaped, and includes a fan fixed **framework** and a slide rail **framework** which are vertical to each other, wherein the fan fixed **framework** and the slide rail **framework** are both rectangular. The fan **module frame** is a rectangular hollow **structure** composed of an **upper** face, a **lower** face, a **left** face and a **right** face. Separator plates parallel to the **left** face and the **right** face are disposed inside the hollow **structure**, and divide the inside of the hollow **structure** into at least two fan **frames**. Internal slide rails matching with the slide rail **framework** are disposed at **lower** ends of a **left** face and a **right** face inside each fan **frame**. The rear cover is a rectangular plate which matches with a rear face of the hollow **structure** in size. A shutter assembly is disposed on the rear cover. According to the **cabinet fan module**, each fan is installed into the fan **module frame** through the slide rail, and is in support of hot plugging; when a fan has a fault or is drawn out, a shutter corresponding to the fan is closed, and therefore a wind current short circuit can be effectively prevented.

16/28 © EPODOC / EPO

PN - [CN203453714U](#) U 20140226

PR - CN20132495005U 20130814

AP - CN20132495005U 20130814

DT - I

PA - YCSR SICHUAN ENGINE CO LTD

TI - Power container for high-power container type diesel generating set

AB - The utility model discloses a power container for a high-power container type diesel generating set. The power container for the high-power container type diesel generating set comprises a container main body, wherein an electric apparatus room is arranged on the **left** end of the container main body, a part of a **top** plate on the **top** surface of the electric apparatus room is removed, corrugated boards are arranged on the **top** surface and the two side surfaces of the electric apparatus room, an electric apparatus room door used for placing an electrical **cabinet** is arranged on the **left** end surface of the container main body, a diesel generating set is arranged in the middle part of the container main body, middle doors are arranged on the two side surfaces of the middle part, a plurality of air inlets are formed in the side plate of the **right** half **section** of the container main body; generator heat dissipation openings, an engine exhaust 2, an engine exhaust 1, an oil gas separator interface and an internal heat dissipation vent are arranged in the **top** plate; a small door is arranged on the **right** end of the container main body, and a series of engine oil water system external interfaces are arranged on the end surface of the **right** end of the container main body. The power container for the high-power container type diesel generating set has the beneficial effects that the **structure** is simple and compact, the layout is reasonable, and the maintenance is convenient; the integrated mode and **modular** form are adopted to facilitate transportation, and the mounting is rapid.

17/28 © EPODOC / EPO

PN - [CN203405862U](#) U 20140122

PR - CN20132526393U 20130827

AP - CN20132526393U 20130827

DT - I

PA - WANG QIANG

TI - Queuing machine for banks

AB - The utility model discloses a queuing machine for banks. The queuing machine comprises a bent **cabinet** body. The **cabinet** body comprises a perpendicular **section** and a bent **section**, and the included angle alpha between the perpendicular **section** and the bent **section** is 30 degrees. A central processor is arranged in the **cabinet** body and connected with a touch screen, a bank card reader, an ID card recognizer, a fingerprint recognizer, keys, a loudspeaker, a printer and a camera. The touch screen is arranged in the middle of the bent **section**. The ID card recognizer and the fingerprint recognizer are arranged on the **lower** portion of the touch screen. The bank card reader is arranged on the **right** side of the touch screen. The loudspeaker and the camera are arranged on the **upper** portion of the touch screen. The paper outlet of the printer is arranged on the **upper** portion of the perpendicular **section**. The central processor is connected with a short message communication **module**. The queuing machine has the advantages of being simple in **structure**, diverse in function and capable of timely and effectively reminding customers to carry out business processing.

18/28 © EPODOC / EPO

PN - [CN203206632U](#) U 20130918

PR - CN2013271894U 20130207

AP - CN2013271894U 20130207

DT - I

PA - BEIJING GREAT WALL ELECTRONIC EQUIPMENT CO LTD

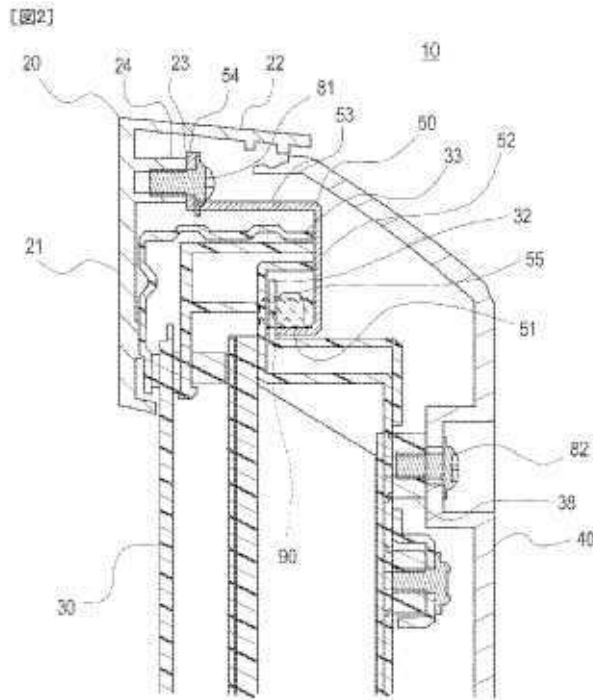
TI - Electric control **cabinet** based on aluminum **section**

AB - The utility model discloses an electric control **cabinet** based on aluminum sections. The electric control **cabinet** comprises a **framework** assembly, a door plate, hinges and a door lock. The **framework** assembly is composed of eight corner connecting pieces, four intermediate connecting pieces, four side **frames**, eight vertical **frames**, eight transverse **frames** and four fixing plates. The eight corner connecting pieces form the eight **top** corners of the **framework** assembly. The eight corner connecting pieces are connected with two ends of the four side **frames**, two ends of the four vertical **frames** and one ends of the four transverse **frames** respectively. The other ends of the four transverse **frames** and the two ends of the other four vertical **frames** are connected through the four intermediate connecting pieces. Every two adjacent intermediate connecting pieces are fixed together through each fixing plate, and the four adjacent intermediate connecting pieces are fixed by the four fixing plates. As a result, a complete **framework** assembly is formed. The door plate is disposed on the **left** side and the **right** side of the side **frames** through connection of screws and the hinges. The door lock is connected with the door and then is inserted into a fixing seat disposed on the middle vertical **frame** through a flat bar-shaped insert bar on the door lock, so that the **cabinet** can be opened and closed. The electric control **cabinet** based on aluminum sections overcomes design defects of conventional control **cabinet** structures and

satisfies demands of **modularized** manufacture.

19/28 © EPODOC / EPO

- PN - [WO2013018398](#) A1 20130207
- PR - JP20110168366 20110801
- AP - WO2012JP58849 20120402
- DT - *; Rep
- CT - [JP] ISR (A1)
[WO2011058846](#) A1 20110519
[Y] (SHARP KK [JP], et al);
[JP2002372917](#) A 20021226
[Y] (MATSUSHITA ELECTRIC IND CO LTD);
[JP2001318613](#) A 20011116
[Y] (CANON KK);
[JPH08162028](#) A 19960621
[Y] (MITSUBISHI ELECTRIC CORP);
[JP2006047979](#) A 20060216
[Y] (CANON KK);
[JP2008256776](#) A 20081023
[A] (MATSUSHITA ELECTRIC IND CO LTD);
[JPH10282896](#) A 19981023
[A] (MITSUBISHI ELECTRIC CORP)
- CCI - [G02F1/133308](#) ; [H04N5/64](#)
- CCA - [G02F2001/133317](#) ;
[G02F2201/46](#)
- PA - SHARP KK [JP]; SHIBUYA
NORIYUKI; FUJIE TSUTOMU;
AMANO YUKI
- TI - THIN DISPLAY DEVICE
- AB - Provided is technology that improves the shape of a metal fixture that fixes a metal front **cabinet**, reliably brings the **cabinet** and a display **module** into contact at the surfaces thereof, and, by stabilizing conduction, suppresses worsening of unnecessary radiation. A liquid crystal television (10) comprises the **frame-shaped front cabinet** (20), such that same covers the outer peripheral **section** on the front surface side of a liquid crystal display **module** (30) and



part of the outer peripheral **section** of the **top**, **bottom**, **left**, and **right** side surface sides. A metal back light chassis (31) for the liquid crystal display **module** (30) is fixed to the front **cabinet** (20) by a fixing angle (50). When fixing, a gasket (90) is interposed in the fixing **section** between the liquid crystal display **module** (30) and the fixing angle (50). The gasket (90) is fixed in a squashed state.

20/28 © EPODOC / EPO

PN - [JP2012161449](#) A 20120830
 PR - JP20110023694 20110207
 AP - JP20110023694 20110207
 DT - I
 FI - A47F11/10; F21S2/00&340; F21Y101/02; F21Y115/10
 FT - 3B110/AA06; 3B110/HA09; 3K243/AA01; 3K243/AB01; 3K243/AC06; 3K243/BA09; 3K243/BB11; 3K243/BC09; 3K243/BE08
 PA - FUKUSHIMA INDUSTRIES CORP
 TI - **SHOWCASE**
 AB - PROBLEM TO BE SOLVED: To provide a **showcase** including an illumination **structure** simultaneously and uniformly illuminating both an electric illumination panel and a display chamber. SOLUTION: The **upper** end front face of an opening part of the display chamber 2 of this **showcase** is disposed with the electric illumination panel 15, and an illumination **section** 13 in the rear thereof is provided with the illumination **structure** 14 for illuminating the electric illumination panel 15 and the display chamber 2. The illumination **structure** 14 includes linear LED **modules** 22, and a light guide body 23 continuing in the **right-and-left** width direction of the electric illumination panel 15. The light guide body 23 is provided with: a first light emission face 31 just facing the electric illumination panel 15; and a second light emission face 32 oriented to the display chamber 2. The electric illumination panel 15 and the display chamber 2 are simultaneously illuminated with planar illumination light emitted from the first light emission face 31 and the second light emission face 32.

21/28 © EPODOC / EPO

PN - [CN102358301](#) A 20120222
 PR - CN20111252778 20110829
 AP - CN20111252778 20110829
 DT - I
 CT - || STSE (A)
[EP0473512](#) B1 19950405 [A] (ALSTHOM GEC [FR])
 [A] 1-5

全文

[CN202175050U](#) U 20120328 [R] (CSR NANJING PUZHEN CO LTD)

[R] 1-5

权利要求1-5

[CN201472383U](#) U 20100519 [YX] (YONGJI XINSHISU ELECTRIC EQUIP)

[Y] 1-4

说明书第5-18段,权利要求2,图1-2

[X] 1-5

[CN201646725U](#) U 20101124 [A] (CSR QINGDAO SIFANG LOCOMOTIVE)

[A] 1-5

全文

[CN2450048Y](#) Y 20010926 [A] (YONGJI ELECTRIC MACHINE PLANT [CN])

[A] 1-5

全文

[CN2763147Y](#) Y 20060308 [Y] (YONGJI DYNAMO FACTORY CHINA NO [CN])

[Y] 1-4

说明书第2页第7-10行,图2,3

- PA - CSR NANJING PUZHEN ROLLING STOCK CO LTD
- TI - Driver control console for railway vehicle
- AB - The invention relates to a driver control console for a railway vehicle. The driver control console comprises a **cabinet** assembly consisting of a **left cabinet**, a middle **cabinet** and a **right cabinet**, wherein adjacent **cabinets** are fixedly connected through bolts; a console panel assembly is fixed above the **cabinet** assembly; a window which is used for mounting a component panel is reserved on the console panel assembly; the component panel which is embedded with an operating device or display device is mounted at the position of the window on the console panel assembly; a connecting angle bar is embedded in the **lower** surface of the edge of the console panel assembly; the connecting angle bar is fixedly connected to a **section** bar of the **cabinet** assembly through a bolt; a steel plate is lined in the console panel assembly; component panel mounting holes are formed on the periphery of the window on the console panel assembly and screw nuts are embedded at the corresponding position on the rear part; and bolts are screwed into the screw nuts so that the component panel is fixed at the position of the window on the console panel assembly. The driver control console has the advantages of reasonable **structure**, high **modularization** degree, simple and smooth lines, convenience in maintenance, and the like. The design of the console panel fit with principles of ergonomics and the console panel has an attractive appearance.

22/28 © EPODOC / EPO

PN - [JP2011206086](#) A 20111020

PR - JP20100073939 20100327

AP - JP20100073939 20100327

DT - I

FI - A47B47/04&B; F16B12/12&Z; F16B12/28; F16B5/02&P

FT - 3B054/BA05; 3B054/BA10; 3B054/BA14; 3B054/BA15; 3B054/BA16; 3B054/BA17; 3J001/FA09; 3J001/GA01; 3J001/GA06; 3J001/GA10; 3J001/GB01; 3J001/HA03; 3J001/HA07; 3J001/JA10; 3J001/KA05; 3J001/KA19; 3J001/KB03; 3J024/AA12;

3J024/AA41; 3J024/CA13

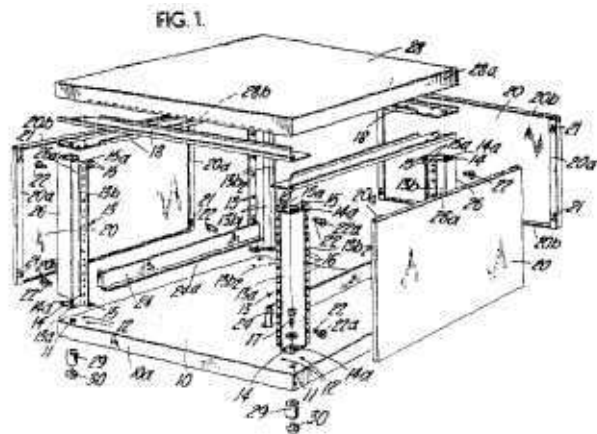
- PA - SUGIMOTO HIROSHI
- TI - KNOCKDOWN **FURNITURE**
- AB - PROBLEM TO BE SOLVED: To respond to various needs on the user side by expanding constructible shapes and uses of **modular furniture**. SOLUTION: A basic **structure** 100 is provided with a connection partition CP of the same thickness t with that of a rectangular side material 1c set on each of four corners which two rectangular side materials 1c bisect at **right** angles. One connection partition CP is composed of a combination of two connection pieces 5, a spacer 15b, a rod body 18, a cap **section** 19 and a **bottom section** 20 and the connection pieces 5 of the rectangular side materials 1c adjacent to the connection partition CP are composed in a way that they fit within the connection partition CP. Each of two connection pieces 5 and the spacer 15b are provided with through holes 6, 16 for the rod bodies 18 to penetrate in a straight manner and the cap sections 19 and the **bottom** sections 20 are installed on both ends of the rod bodies 18 penetrated through the through holes 6, 16 of the two connection pieces 5 and the spacer 15b.

23/28 © EPODOC / EPO

- PN - [JP2009086069](#) A 20090423
- PR - JP20070252913 20070928
- AP - JP20070252913 20070928
- DT - I
- CT - [JP2007121594](#) A []; [JP2005077590](#) A [];
[JP2002303851](#) A []; [JPH1138396](#) A []
- FI - G02F1/1333; G09F9/00&309Z; G09F9/00&350Z
- FT - 2H089/HA40; 2H089/KA15; 2H089/KA17; 2H089/QA01; 2H089/QA02; 2H189/AA54; 2H189/AA55; 2H189/AA57; 2H189/AA59; 2H189/AA60; 2H189/AA63; 2H189/AA64; 2H189/AA65; 2H189/AA67; 2H189/AA70; 2H189/AA73; 2H189/AA78; 2H189/AA79; 2H189/HA02; 2H189/LA22; 2H189/NA05; 5G435/AA07; 5G435/AA14; 5G435/AA17; 5G435/BB12; 5G435/EE07; 5G435/EE13; 5G435/GG33; 5G435/GG43; 5G435/KK02; 5G435/LL07
- PA - CASIO COMPUTER CO LTD
- TI - **DISPLAY MODULE**
- AB - PROBLEM TO BE SOLVED: To provide a **display module** superior in reliability wherein a **display** panel is surely held in a prescribed position over a long period of time.
- SOLUTION: A liquid crystal **display** panel 2, a surface emission backlight unit 6, and a drive control circuit board 7 are stored in a resin **frame case** 1 so as to be held in prescribed positions respectively, and a shield **case** 9 formed by forming a stainless plate is provided so as to cover a **case bottom** wherein the drive control circuit board 7 is installed. An end part of the liquid crystal **display** panel 2, to which a main FPC 4 is made conductive and joined, and a corresponding end part of the **frame case** 1 are elastically held by a channel-shaped cross-**section** part formed by bending a front end part 921 of a shorter-side plate 92 of the shield **case** 9 inward at **right** angles.
- COPYRIGHT: (C)2009,JPO&INPIT

24/28 © EPODOC / EPO

- PN - [GB1101356](#) A 19680131
- PR - GB19640018459 19640504
- AP - GB19640018459 19640504
- DT - **
- CCI - [H05K5/04](#) ; [A47B47/03](#) ;
[H05K7/183](#)
- PA - C & N ELECTRICAL LTD
- TI - Improvements in or relating to structural members and arrangements, particularly for use with **modular** units of equipment
- AB - 1,101,356. Mounting electrical equipment. C. & N. (ELECTRICAL) Ltd. 29 April, 1965 [4 May, 1964], No. 18459/64. Heading HIR. [Also in Divisions A4 and E1] A **cabinet** for **modular** electronic units, Fig. 1, comprises a sheet metal base 10 to each corner of which is bolted a vertical structural member 13. Each member 13 is formed of a first piece 13a of **right-angle section** with a second piece 13b of **W-section** welded or riveted thereto, the centre web of piece 13b embracing the outside of the angle of piece 13a, and the outer arms of piece 13b forming flanges (perforated at 16) which extend outward from the arms of piece 13a at about the mid-width thereof. Square fillets 14, 15, having bolt holes therethrough, close the ends of pieces 13a, 13b respectively; in an alternative embodiment a shingle-shaped fillet is provided at each end of members 13. Shelf-guides 24 are bolted to pieces 13b, and transverse channel- **section** members 18 are bolted to the fillets at the tops of members 13, and a lid 28 slides on to the **structure**; alternatively the



members 18 are omitted and their function is performed by an inward flange around the **lower** periphery of the lid 28. Side panels 20, which may be omitted where desired, comprise inner inward flanges 20a having key-hole slots 21 which engage the heads of bolts 22 secured in pieces 13b; alternatively, clip-on pieces 13b may engage flanges 20a. Corner skins 26 are slid over the members 13. Rubber feet 30 in the form of plugs or sleeves are attached to bushes 29 which are bolted to the base 10.

25/28 © EPODOC / EPO

- PN - [FR2796519](#) A1 20010119
- PNFP - FR2796519 B1 20030411
- PR - FR19990009377 19990716
- AP - FR19990009377 19990716
- DT - *; Rep
- CT - || STSE (A1)
[EP0872930](#) A2 19981021 [X] (SACE SPA [IT])
[X] 1-5,7-11,14
* the whole document *;
[US5194691](#) A 19930316 [X] (MCILWRAITH GEORGE [US])
[X] 1,13,14
* column 4, line 32 - column 5, line 26 *;
[US5202818](#) A 19930413 [XA] (BETSCH FREDERIC [FR], et al)
[X] 5,7-12
* column 3 - column 4 *
[A] 1;
[DE29723537U](#) U1 19980924 [A] (LOH KG RITTAL WERK [DE])
[A] 16
* page 2 - page 3 *
- CCI - [H02B1/301](#) ; [H02B1/308](#)
- CCA - [H02B1/013](#) ; [H02B1/014](#)
- PA - (A1 B1)
SOCOMECA SA [FR]
- TI - (A1)
Modular cabinet in kit form esp. for electronic control gear, has flat side- and end-panels, with access door, assembled on a basic angle-**section frame**
- AB - (A1)
The basic **frame** (2) comprises 4 uprights (3) interconnecting the corresponding corners

of **top** and **bottom** rectangular **frames**, each assembled from 4 horizontal pieces (4). All 12 pieces are cut to length from identical hollow metal rail (30) presenting in cross-**section** a closed isosceles **right**-angled triangle, having its hypotenuse pressed in to form a shallow U-shaped profile (31), while the 90 deg. apex is slightly truncated. Opt., this cross-**section** is obtained as an e.g. aluminum extrusion. All the pieces are assembled with the truncated apex facing inwards diagonally into the **cabinet**, and the U-profile outwards, diagonally, and the main surfaces are regularly perforated to facilitate assembly and to provide support points for internally mounted cables and equipment. At each of the 8 corners the converging members are mutually united in a 3-way junction piece (40) in e.g. cast aluminum. The cladding panels (5,6,7,8) are screwed at intervals along each edge to mounting brackets (20) themselves screwed to the U-profiles. The mounting brackets (20) include hinge supports (26) receiving hinge-pins (92) and brackets (91) which complete the hinges for the front door (9). The door handle (90), on the door's opposite side, operates latches in the **frame** on that side. The **modules** can also be combined in sets of two or more to form wider **cabinets**.

26/28 © EPODOC / EPO

- PN - [FR2245155](#) A5 19750418
- PR - FR19730024185 19730702
- AP - FR19730024185 19730702
- DT - *; Rep
- CCI - [A47B47/0083](#)
- PA - DURANDETABLISSEMENTS MAURICE [FR]
- TI - Method of assembling **modular furniture** - involves sliding boxes into a **frame** from the rear
- AB - Sectionally built **furniture** pieces e.g. wardrobes, designed for rapid amateur assembly with a degree of versatility of finished appearance whilst utilizing standard units, comprise **right** angular **frames** (1 to 5) housing and supporting hollow **right** angular box elements (8, 9) which are assembled by sliding in horizontally from the rear in "inverse drawer" fashion, the foremost **frame** members having lips which conceal box (8, 9) edges. A typical wardrobe type, tall, elongated and narrow **furniture** piece has a solid **top** (5) with a **bottom** (3) and an intermediate (4) horizontal **frame** united by side **frames** (1, 2), this arrangement housing a shallow box unit (9) in the **top** and a deeper unit (8) in the **lower section**.

27/28 © EPODOC / EPO

- PN - [DE2605698](#) A1 19770825
- PR - DE19762605698 19760213
- AP - DE19762605698 19760213
- DT - *; Rep
- CCI - [G09F15/0012](#)
- PA - TEGTMEIER FRIEDRICH
- TI - **Modular** construction display **cabinet** - has interlocking components which provide facility for hinged glass doors and fixed panels
- AB - A **modulator** constructed display **cabinet** designed for ease of assembly has a facility

for ready incorporation of a hinged glass access panel. The preformed **top section** (1) is profiled at the **left** hand edge to receive the hinge (3) locating fitting and the **right** hand edge to retain a fixed panel (6). The hinge (3) locates in a recess (1b) and a retaining force is applied by a set screw (12). Corner sections (4) each have a pin (13) that locates in the hole in the hinge. A main **frame section** (2) is secured to the corner sections and provide a location for a semi-flexible beading (10) that retains a glass panel (9). Fixed panels (6) are retained against a back strip (7) by stepped wedges (8).

28/28 © EPODOC / EPO

PN - [CN2671864Y](#) Y 20050119

PR - CN20032114344U 20031211

AP - CN20032114344U 20031211

DT - I

PA - SHIDAI GROUP CO ZHUZHOU CITY [CN]

TI - Novel electric locomotive auxiliary variable flow screen **cabinet**

AB - Disclosed is a new auxiliary variable flow screen **cabinet** for electric locomotive. The plate girder assembly **structure** is adopted as the integral **structure** form of the variable flow screen **cabinet**. Standard **section** joints and standard **section** beams of cast zinc alloy (also can be replaced by cast steel alloy) are adopted by the internal skeleton of the **cabinet** to be assembled and welded to form a basal body skeleton. With the technique of the conductive foam-rubber, a **left** and a **right** side board are **module**-processed by the assembly-fixing mode to obtain the effect of sealing and electromagnetic shielding. The conductive electromagnetism-shielded foam-rubber being adopted by the side board and a door **structure**, the conductivity-shielded material being also added at a front door and the center joint line, the whole inner of the **cabinet** is shielding-structured. All the internal components with mechanical **structure** are redesigned, and processed according to the requirements of the industrial **module** standard to facilitate the installation with the basal body skeleton. Internal **module** mounting boards, whose middle are equipped with reinforcing ribs, are fixed by the instead mode of the **modular** mounting-mode to considerably abate the weight. A control box at the **top** is designed as an electromagnetism-shielded area isolated from the external. An **upper** control cavity is confined by a baffle board and the side board to obtain an isolated cavity. The front end of a middle **module** cavity is added with a fender board to serve the function of electromagnetic shielding as well as high-pressure electric-shock preventing.

[SS 11] (furniture OR cabinet+ OR (display AND case) OR showcase OR (pie AND case) OR hutch)AND modul+ AND (upper OR top OR bottom OR lower) AND section AND (right OR left)

Results in EPODOC 53

[SS 12] ..v

[EPODOC: SS 12] ..li



1/53 © EPODOC / EPO

PN - [CN206675340U](#) U 20171128
PR - CN201621111256U 20161011
AP - CN201621111256U 20161011
DT - I
PA - UNIV SHANGHAI ENG SCIENCE
TI - Environment -friendly is multi -functional can stand
AB - The utility model discloses an environment -friendly is multi -functional can stand, comprising a base plate, a transparent display **section** of thick bamboo, branch, the lid, the lamp body, servo motor, display stand, the screw spindle, there is a mount pad through threaded connection on the screw spindle, the **left** and **right** sides inner wall of a transparent display **section** of thick bamboo is provided with a plate body respectively, be provided with a spout respectively along vertical direction on the plate body, the **left** and **right** sides outer wall of mount pad be provided with respectively one with spout sliding connection's slide, the **top** of slide is provided with a first bracing piece of being connected with display stand respectively, display stand passes through the second bracing piece with the lid and is connected, the **top** of branch is provided with the electric **cabinet**, be provided with control **module** in the electric **cabinet**, the outer wall of electric **cabinet** is provided with light intensity sensor, servo motor reset button and fingerprint identification device, each the angle punishment of the **bottom** of **bottom** plate do not is provided with one and is used for regulating **bottom** horizontally regulating part. The beneficial effects are that: energy -conserving effect is obvious, degree of automation is high, can prevent that the showpiece is stolen or damaged.

2/53 © EPODOC / EPO

PN - [CN206575716U](#) U 20171020
PR - CN20172274529U 20170321
AP - CN20172274529U 20170321
DT - I
PA - STATE GRID CORP CHINA; STATE GRID HUBEI HUANGLONGTAN HYDROPOWER PLANT
TI - Wall -hanging equipment **cabinet** of communication computer lab
AB - The utility model discloses a wall -hanging equipment **cabinet** of communication computer lab, processing lateral sliding hole on the horizontal hanging guide rail, the vertical slide hole of processing on the vertical hanging guide rail, wheel and the **right** gyro wheel of rolling **left** is installed at lateral sliding downtheholely, it installs in vertical slide hole to go up gyro wheel and **bottom** roller, a **left** side is adjusted the post and is installed and take turns to rolling **left**, the **right** side is adjusted the post and is installed on **right** gyro wheel, a **left** side hangs adjusts the **left** side of **section** of thick bamboo welding at equipment **cabinet** body **top**, the **right** side hangs adjusts the **right** side of **section** of thick bamboo welding at equipment **cabinet** body **top**, a **left** side is adjusted the **bottom** of post and is installed in a **left** side hangs a regulation **section** of thick bamboo, the **right** side is adjusted the **bottom** of post and is installed in the **right** side hangs a regulation **section** of thick bamboo, it installs on last gyro wheel to raise the segmented column, the downward **modulation** segmented column is installed on the **bottom** roller, on hang and adjust the **upper** portion

of **section** of thick bamboo welding at equipment **cabinet** sinistron lateral wall, hang down and adjust the **lower** part of **section** of thick bamboo welding at equipment **cabinet** sinistron lateral wall, the **right** -hand member that raises the segmented column install last hang adjust a **section** of thick bamboo in, the **right** -hand member of downward **modulation** segmented column is installed to hang under and is adjusted in the **section** of thick bamboo. The utility model discloses scientific and reasonable, convenient to use are designed to it.

3/53 © EPODOC / EPO

PN - [CN206379633U](#) U 20170804
 PR - CN201621088398U 20160929
 AP - CN201621088398U 20160929
 DT - I
 PA - BEIJING XINLI CREATE ELECTRONIC EQUIPMENT LLC
 TI - **Modular** low -voltage distribution **cabinet**
 AB - The utility model relates to a **modular** low -voltage distribution **cabinet**, **modular** low -voltage distribution **cabinet** is by the host computer **cabinet**, separate the **cabinet**, the supplementary **cabinet** and the supplementary **cabinet** A four bibliographic categories divide and form, every **cabinet** is by ten **section** bar welded support bodys by twenty percent discount, the **top** cap, the base forms with front and back door equipment, four **cabinet** and back as an organic whole, its **top** is installed and is led to long angle steel, the curb plate is installed to the **left** and **right** sides, its inside **top** communicates each other, lead to long copper installation in switch board **top**, wherein host computer **cabinet** inside is whole space, it has six layers of fixed compartment to separate **cabinet** inside, there is the independent compartment of three -layer supplementary **cabinet** inside, there is two -layer independent compartment supplementary **cabinet** A inside, wherein separate the **cabinet**, the shrouding in ventilation hole is all installed to supplementary **cabinet** and 1 **bottom** in the supplementary **cabinet**, four **cabinet** of group all are equipped with the baffle of taking the abate hole between two liang, this switch board simple structure, functions are powerful, be convenient for the maintenance and factor of safety higher.

4/53 © EPODOC / EPO

PN - [CN206371729U](#) U 20170804
 PR - CN201621177380U 20161027
 AP - CN201621177380U 20161027
 DT - I
 PA - UNIV TIANJIN COMMERCE
 TI - **Furniture module** of variable combination
 AB - The utility model discloses a **furniture module** of variable combination. The **furniture module** is formed by two monomer combinations of symmetry setting, and every monomer comprises the **upper** slot body and the plug body of **lower** floor, and **upper** slot body cross -**section** is **right** angle " S " type, and the **upper** slot body constitutes the cross - **section** by first diaphragm, outside riser, second diaphragm, inboard riser and third diaphragm fixed connection in proper order and is **right** angle " S " type, and the plug body of **lower** floor constitutes the cross -**section** by riser and grafting diaphragm

and is " L " type, third diaphragm and the fixed **upper** slot body and the plug body fixed connection of **lower** floor of making in riser **top**. The utility model discloses the structural element that uses during the combination is back the interlude combination of type line, inserts the **upper** slot body of another **module** with the plug body of **lower** floor of a **module**, and simple do not have the burden of decoration.

5/53 © EPODOC / EPO

- PN - [CN206327279U](#) U 20170714
- PR - CN201621434929U 20161226
- AP - CN201621434929U 20161226
- DT - I
- PA - DONGGUAN NAVIWIN AUTOMOBILE AUDIO-VIDEO CO LTD
- TI - Easy cleaning vehicle of adaptability installation carries navigation head
- AB - The utility model discloses an easy cleaning vehicle of adaptability installation carries navigation head, including base, cleaning box, mounting box and main **case**, the mounting groove has been seted up on the mounting box, be equipped with the main **case** in the mounting groove, install navigation **module** and controller in the inner chamber of main **case**, the surface mounting of main **case** has **display module** and touch **module**, the **bottom** of main **case** is equipped with to the backup plate, the **bottom** of supporting the backup plate still is equipped with a plurality of springs, the **left** side of mounting box is located to the base, the **right** side **upper** portion and the **lower** part of base all are equipped with a support **section** of thick bamboo, the bracing piece has been cup jointed on two support **section** of thick bamboos, the other end of two bracing pieces corresponds respectively with to locate about the mounting box **left** side the first lug at both ends articulated through the articulated shaft, the **right** side middle part of base still is equipped with cleaning box. The utility model discloses installation adaptability is better, and the main **case** is taken off to the convenience, and easily the clearance can be adjusted the inclination of mounting box to be convenient for more navigate and operate, and the information of looking over is also more clear.

6/53 © EPODOC / EPO

- PN - [CN205791038U](#) U 20161207
- PR - CN20162732889U 20160713
- AP - CN20162732889U 20160713
- DT - I
- PA - TANGSHAN DUNSHI ELECTRIC CO LTD
- TI - Fixed **cabinet** of separating
- AB - The utility model relates to a fixed **cabinet** of separating belongs to rack technical field. Technical scheme is: lintel (1), go up shrouding (2), 150mm compartment door (3), 200mm compartment door (4), 300mm compartment door (5), 100mm compartment door (6), 600mm compartment door (7), shrouding (9) set gradually the front panel at the **cabinet** body from **top** to **bottom** down, 200mm side door (8) set up the **right** side position at **cabinet** body front panel, C **section** bar equipment frame (11) supports the whole **cabinet** body, crossbeam (17), the long roof beam that erects is installed on C **section** bar equipment frame, horizontal bus (12), horizontal bus presss from both

sides (13) and installs on horizontal bus presss from both sides support (14), perpendicular generating line is installed on insulation support. The utility model discloses an assemble the fixed **cabinet** of separating multiloop design of adoption of the many compartments of branch line of frame and the design of branch line at the C **section** bar, not only the return circuit line space that connects in large quantity is big for the fixed **cabinet** of separating of the many compartments of branch line, and compact structure assembles the convenience and can also adapt to the equipment of complete **modulization** moreover.

7/53 © EPODOC / EPO

PN - [CN106384955](#) A 20170208

PR - CN201611041544 20161124

AP - CN201611041544 20161124

DT - I

CT - || STSE (A)

[CN104211433](#) A 20141217 [A] (ANHUI BODA CELLULOSE TECHNOLOGY CO LTD)

[A] 1-10

* 全文 *;

[CN105907291](#) A 20160831 [Y] (WANG QIAO)

[Y] 1-10

* 权利要求1以及说明书第10段 *;

[CN106025857](#) A 20161012 [A] (PENGLAI POWER SUPPLY COMPANY STATE GRID

SHANDONG ELECTRIC POWER COMPANY)

[A] 1-10

* 全文 *;

[CN205680962U](#) U 20161109 [Y] (LONGKOU POWER SUPPLY CO OF STATE GRID

SHANDONG ELECTRIC POWER CO)

[Y] 1-10

* 说明书第17,25段 *

CNOI - [C09D1/00](#) ; [C09D5/14](#) ; [C09D5/18](#) ; [H02B1/28](#) ; [H02B1/32](#) ; [H02B1/565](#) ; [C09D7/61](#) ; [C09D7/63](#)

PA - TANG LIANG

TI - Safe and high-performance smart power distribution **cabinet**

AB - The invention discloses a safe and high-performance smart power distribution **cabinet** which comprises a **cabinet** body, an operation bench fixedly installed on the **right** central **section** of the **cabinet** body, an alarm and an inclined pole installed above the **right** side of the **cabinet** body, a USB interface on the **right** side surface of the operation bench, an RFID recognizer on the front central **section** of the operation bench, a touch screen control panel on the front side of one end of the operation bench, and a fingerprint recognizer on the **right lower** end of the touch screen control panel. A first camera and a second camera are combined to realize remote monitoring, and are in cooperation with the fingerprint recognizer to improve safety. Operation by non-management workers can be prevented, thereby preventing major accidents in a machine room. The structure is novel and simple, and the heat radiation performance is good. A ZigBee wireless transmission **module** is networking according to needs, thereby realizing uniform blending control management. The automation level is high, and power supply is reliable. The power distribution **cabinet** saves time and labor, current

and voltage qualified rate is high, and reactive compensation effect is good.

8/53 © EPODOC / EPO

- PN - [CN205921383U](#) U 20170201
- PR - CN20162476871U 20160524
- AP - CN20162476871U 20160524
- DT - I
- PA - YISHENG ENERGY EQUIPMENT LTD
- TI - Full -controlled electric energy quality device
- AB - The utility model discloses a full -controlled electric energy quality device, the intelligent **cabinet** temperature adjusting device comprises a **cabinet** body, be provided with isolator, circuit breaker, fast acting fuse, active power filter **module** on the **cabinet** body, synthesize compensation controller, the **cabinet** is internal has put passive compensation filter **module**, passive compensation filter **module** embeds has condenser, reactor, the **left** and **right** both sides of passive compensation filter **module** downside are provided with **bottom** channel -**section** steel, **left** and **right** both sides be connected with **bottom** suspension fagging, condenser **bottom** plate and horizontal double -screw bolt between the channel -**section** steel of **bottom**, the condenser lies in the **bottom** suspension fagging, the condenser is located the condenser **bottom** plate, the device through equitable construction improvement, especially through the **bottom** channel - **section** steel cooperation **bottom** suspension fagging of extension design, the design of condenser **bottom** plate, makes condenser, reactor install together to the special requirement of passive compensation filter **module** in electric energy monitoring for the installation and the **module** transportation of components and parts are more convenient, the also easy dismounting of both sides **bottom** channel -**section** steel structure, and convenient inside components and parts can be changed at any time.

9/53 © EPODOC / EPO

- PN - [CN205828924U](#) U 20161221
- PR - CN20162699636U 20160706
- AP - CN20162699636U 20160706
- DT - I
- PA - ZHANGJIAGANG FUSHI METAL PRODUCTS CO LTD
- TI - Electric power operation **cabinet**
- AB - The utility model discloses an electric power operation **cabinet**, one side of the operation **cabinet** body still sets up the power **cabinet** body, the internal power supply that sets up of power **cabinet**, power supply is connected with the internal control operation **module** of operation **cabinet** through the supply cable, fixed surface has the cross - **section** to be the operation panel of **right** trapezoid shape on the operation **cabinet** body, be provided with operating panel on the inclined plane of operation panel, operating panel is connected with control operation **module**, the both sides of operation panel **upper** surface are provided with first lug respectively, the **upper** surface of the power **cabinet** body is provided with cooling fan, set up rectangle ventilation hole on the lateral wall of the power **cabinet** body, be provided with dustproof filter screen on the rectangle ventilation hole. The utility model

discloses place electric power operation **cabinet**'s power supply alone to be provided with cooling fan, slowed down the interior electronic component's of electric power operation **cabinet** ages at a rate greatly, and still all be provided with the lug on the operation **cabinet** body, the power **cabinet** body, the installation transportation of being convenient for hoist, simple structure realizes having good application prospect easily.

10/53 © EPODOC / EPO

- PN - [CN205657329U](#) U 20161019
- PR - CN20162317221U 20160418
- AP - CN20162317221U 20160418
- DT - I
- PA - STATE GRID SHANDONG ELECTRIC POWER COMPANY LAIZHOU POWER SUPPLY COMPANY
- TI - Special anti - isolated island of distributing type photovoltaic **cabinet** that is incorporated into power networks
- AB - The utility model discloses a special anti - isolated island of distributing type photovoltaic **cabinet** that is incorporated into power networks, including the **cabinet** body, concentrator, test **section**, anti - isolated island device, networking switch, display part, control part. The **cabinet** body is fixed at wall or subaerial. The concentrator is fixed in **cabinet** body **bottom** surface, anti - isolated island unit bit in the **cabinet** body **upper left** corner, and the networking switch lies in anti - isolated island device **right** side, and the test **section** is fixed in **cabinet** body middle part **right** side, networking switch below. The utility model discloses a **cabinet** large -scale production of being incorporated into the power networks, on -the -spot standardized installation to net **cabinet** configuration **modularization**, the integrated level is higher, has saved material consumption and cost of labor, carry out real time monitoring and show on **cabinet** body display screen the operating condition of the **cabinet** that is incorporated into the power networks, when superpressure, low pressure, surpass that frequency, low frequency, humidity are too high, during the high temperature, the automatic cutout switch that is incorporated into the power networks, and utilize that the LED lamp flashing glitters, the warning of bee calling organ has improved the fail safe nature of equipment.

11/53 © EPODOC / EPO

- PN - [CN205754106U](#) U 20161130
- PR - CN20162691573U 20160705
- AP - CN20162691573U 20160705
- DT - I
- PA - TIANJIN EMPYREAN ELECTRIC CO LTD
- TI - Novel multi -functional electronic cubical switchboard
- AB - The utility model provides a novel multi -functional electronic cubical switchboard includes insulating substrate, fuse, fin, wide voltage source, radiator fan, controller, control **section** binding post, electronic switch, drivetrain parts binding post, electrothermal relay, quick -witted case, louvre, handle, chamber door, instruction structure, control button structure and combination hole, the fuse pass through bolted connection and install the **upper left** side at insulating substrate, wide voltage source electric connection at the **right** part of fuse, radiator fan pass through the screw

connection and install the **right** part at insulating substrate, controller electric connection in the **lower** part of wide voltage source, control **section** binding post electric connection in the **lower** part of controller, electronic switch electric connection at the **left** part of controller. The utility model discloses a setting in combination hole is favorable to realizing the **modularization** of electronic switch **cabinet**, can be through the random combination electronic switch **cabinet** in combination hole, increased the electronic switch **cabinet** the function, maintain convenient.

12/53 © EPODOC / EPO

PN - [CN105977814](#) A 20160928

PR - CN20161522600 20160706

AP - CN20161522600 20160706

DT - I

CT - || STSE (A)

[CN201360105Y](#) Y 20091209 [Y] (XIAMEN MINGHAN ELECTRICAL CO L [CN])
[Y] 1-6

* 说明书第1页第1段至第3页最后1段, 图1-5 *;

[CN201378200Y](#) Y 20100106 [Y] (ZHUSHOU ZHONGDA TEKE ELECTRONIC TECHNOLOGY CO LTD)

[Y] 1-6

* 说明书第1页第1段至第2页最后1段, 图1-2 *;

[CN203951355U](#) U 20141119 [A] (NANJING SINENG ELECTRIC CO LTD)

[A] 1-6

* 全文 *;

[CN205828924U](#) U 20161221 [R] (ZHANGJIAGANG FUSHI METAL PRODUCTS CO LTD)

[R] 1-6

* 权利要求1-6 *

CNOI - [H02B1/30](#) ; [H02B1/565](#) ; [H02B15/00](#)

PA - ZHANGJIAGANG FUJI METAL PRODUCTS CO LTD

TI - Electric power operation **cabinet**

AB - The invention discloses an electric power operation **cabinet** which includes an operation **cabinet** body which is provided with a power supply **cabinet** body on one side of the operation **cabinet**. The power supply **cabinet** is provided with a power supply therein. The power supply is in connection to a control operation **module** which is in the operation **cabinet** through a power supply cable. An **upper** surface of the operation **cabinet** is fixedly provided with an operation bench which has a **right** angle trapezoid-shaped cross **section**. An inclined surface of the operation bench is provided with an operation panel thereon. The operation panel is in connection to the control operation **module**. The two sides of the **upper** surface of the operation bench are separately provided with a first lug. An **upper** surface of the power supply **cabinet** body is provided with a heat radiation blower fan. An external side wall of the power supply **cabinet** body is provided with a rectangular ventilation hole thereon. The rectangular ventilation hole is provided with a dust-proof net thereon. According to the invention, the power supply of the electric power operation **cabinet** is independently arranged, and the heat radiation blower fan is arranged, which greatly slow aging speed of electronic elements inside the electric power operation **cabinet**, lugs are disposed on the operation **cabinet** body and the power supply **cabinet** body, which is

easy to lift, install and transport. The electric power operation **cabinet** has simple structure, is easy to achieve, and has excellent application potential.

13/53 © EPODOC / EPO

- PN - [CN205544958U](#) U 20160831
- PR - CN2016290992U 20160129
- AP - CN2016290992U 20160129
- DT - I
- PA - BAODING LAITE RECTIFIER CO LTD
- TI - Improved generation electrophoresis rectifier cubicle body
- AB - The utility model belongs to the technical field of **cabinet** body technique and specifically relates to an improved generation electrophoresis rectifier cubicle body, including the base, the base **upper** end is located two downside steel of **left** and **right** border position fixedly connected with, and the base **upper** end is located two preceding, back border position fixedly connected with horizontal steel down, and nearly four the apex angle positions in base **upper** end all are provided with the stand. The utility model discloses an improved generation electrophoresis rectifier cubicle body is through imitating standard **section** bar **cabinet** body characteristic, and the door plant adopts the outer structure of buckleing to improve **cabinet** body protection level and aesthetic property, and upward positions such as xia menliang, stand are whole adopts the cold -rolled steel sheet to be processed into 9 **section** bar **cabinet** structural style to the mounting hole of being furnished with standard **modulus**. Its plate thickness and cross -**section** are compared with 9 **section** bars and are all wanted big a lot, satisfy the bearing requirement of the **cabinet** body completely. Also improved simultaneously **cabinet** body design standard, simplified the design of the **cabinet** body, provide convenient for device mounting dimension in the **cabinet** adjusts.

14/53 © EPODOC / EPO

- PN - [CN205544883U](#) U 20160831
- PR - CN20152591521U 20150803
- AP - CN20152591521U 20150803
- DT - I
- CCA - [Y02E10/76](#)
- PA - ZHEJIANG HRV ELECTRIC CO LTD
- TI - Air -cooled wind power converter **cabinet**
- AB - The utility model discloses an air -cooled wind power converter **cabinet**, including the **cabinet** body, the **cabinet** body wherein is equipped with switch board, power **cabinet** on the **left** including **left** and **right** two parts, and the **right** is equipped with the IGBT **cabinet**, and this switch board and power **cabinet** are equipped with the **left** -hand door board outward, install the door plant fan on this **left** -hand door board, the IGBT **cabinet** includes cavity, well cavity and **lower** cavity, and wherein, the indoor lumen of establishing of lumen send the draught fan, has offered lumen ventilation hole on the chamber door board in being somebody's turn to do, installs the ventilation blower behind the lumen on the shrouding, the draught fan is sent in the indoor chamber of setting of cavity of resorption, has seted up ventilation hole before

the cavity of resorption on this time chamber door board, has seted up the hole that ventilates behind the cavity of resorption behind the cavity of resorption on the shrouding. The utility model discloses compact structure, occupation space are little, make things convenient for the installation of converter in a wind power generation tower **section** of thick bamboo, the radiating mode of air -out on the air inlet under especially the indoor power unit **module** of the lumen of IGBT **cabinet** part adopts, simple structure, easy dismounting, the radiating effect is good, has effectively alleviated the over heating issue of power unit **module**.

15/53 © EPODOC / EPO

- PN - [CN205429460U](#) U 20160803
- PR - CN201521047561U 20151215
- AP - CN201521047561U 20151215
- DT - I
- PA - GUODIANKANGNENG TECH STOCK CO LTD
- TI - **Modularization** electric power **cabinet** with resistant corrosion -resistant base that rusts
- AB - The utility model discloses a **modularization** electric power **cabinet** with resistant corrosion -resistant base that rusts, the intelligent **cabinet** temperature adjusting device comprises a **cabinet** body, the pillar has been arranged on the **top** lateral wall of the **cabinet** body, install the sunshade on the pillar, the pull board has been arranged through the stores pylon in the below of sunshade, the inside **top** of handle is provided with liquid crystal display, input distribution unit sets up the middle part at the **cabinet** body with output distribution unit, the **lower** part from the **top** down of the **cabinet** body has still set gradually the ac contactor **module**, data acquisition unit and automatic control equipment, the below of the **cabinet** body is provided with the base, the base is including a **left** side, the channel -**section** steel is propped on the **right** side, it is preceding, the back brace channel -**section** steel, apron and closure plate. The utility model discloses inside adopt the **modularized** design, arrange in order between each **module**, provide convenience for operation and maintenance in the future to, the base is whole to adopt the pickling spraying plastics to form, and it is corrosion -resistant to be able to bear or endure to rust, in addition, it provides sun -proof rainproof fender canopy for personnel to pull out the pull board.

16/53 © EPODOC / EPO

- PN - [CN205404666U](#) U 20160727
- PR - CN20162215401U 20160321
- AP - CN20162215401U 20160321
- DT - I
- PA - LUOHE POWER SUPPLY CO STATE GRID HENAN ELECTRIC POWER CO
- TI - Middle -arranged switch **cabinet** tests electric auxiliary device
- AB - The utility model discloses a middle -arranged switch **cabinet** tests electric auxiliary device, including rectangular frame, the setting 4 wheels of frame **bottom** with set up the joint at frame the place ahead middle part, insulating bar clamps on the joint, frame the edge is being close to in 2 wheel settings at the rear, the middle part position is close to at the frame to 2 wheel settings in the place ahead, the frame both sides are close to the place ahead position and establish the opening, frame the place ahead

middle part sets up the bar hole, the frame front portion sets up a set of side -to -side adjustment **module** that stacks together, the opening is passed to the side -to -side adjustment **module**, set up one or more hole and corresponding with the bar hole in the side -to -side adjustment **module**, the side -to -side adjustment **module** is passed the hole by the fastener and is connected on the bar hole, side -to -side adjustment **module** both sides set up **left** side unlocking **module** and **right** side unlocking **module**, **left** side unlocking **module** and **right** side unlocking **module** are the outside channel -**section** steel of opening. The utility model discloses the supplementary electrician's work of testing of isolation barrier is pushed open to the cubical switchboard of adjustable width in order to be applicable to various sizes before being safety measure.

17/53 © EPODOC / EPO

- PN - [CN205270476U](#) U 20160601
- PR - CN20152981153U 20151130
- AP - CN20152981153U 20151130
- DT - I
- PA - XI'AN AIRCRAFT BRANCH OF XI'AN AIRCRAFT INT CORP
- TI - Crooked mould of aircraft **section** bar part
- AB - The utility model provides a crooked mould of aircraft **section** bar part, by semi - closed **section** bar bending, crooked mould contains last mould and **lower** mould, and the **lower** mould is made up in proper order through the connecting pin by **left** dog, **left module**, pellet, **right module**, **right** baffle block and forms, still has the guide post on **left** dog and the **right** baffle block respectively, corresponds with the guiding hole of the last mould **left** and **right** sides, pack the backing material in the both sides of semi - closed **section** bar body, with crooked mould and the semi -closed **section** bar of having packed the backing material at heating **cabinet** internal heating to operating temperature, move fast again to the hydraulic press bed, carry out the compound die and make semi -closed **section** bar formed part.

18/53 © EPODOC / EPO

- PN - [CN205178308U](#) U 20160420
- PR - CN20152844338U 20151028
- AP - CN20152844338U 20151028
- DT - I
- PA - WANG YING
- TI - Theftproof electric power **cabinet** convenient to remove with fixed
- AB - The utility model discloses a theftproof electric power **cabinet** convenient to remove with fixed, including the **cabinet** body, **cabinet** body front side is equipped with the **cabinet** door, and the observation window has been seted up through two **upper** and **lower** hinges and **cabinet** body coupling, **cabinet** door upside to **cabinet** door **left** end, and **cabinet** student side is equipped with heat radiation grille, and **cabinet** door middle **section** keeps **left** and is equipped with fingerprint identification collection **module**, and fingerprint identification collection **module** and the inboard system control **module** of **cabinet** door are connected, and system control **module** is connected with the fingerprint lock that the **cabinet** inclined in front of the door, the utility model discloses theftproof electric power **cabinet** convenient to remove with

fixed, has a reasonable structure, long service lifetime, the theftproof ability of electric power **cabinet** that has set up effective improvement of fingerprint lock, and heat dissipation, the drying effect is good, the use maintenance cost is low, can be to the cold wind heating that gets into the internal portion of **cabinet** during winter, avoided electric power **cabinet** internal plant to cross the low phenomenon that can not normally work because of temperature, be convenient for in addition fix and remove, has certain rain -proof waterproof ability, can adapt to the road surface that the height is uneven, therefore, the clothes hanger is strong in practicability.

19/53 © EPODOC / EPO

PN - [CN105509392](#) A 20160420

PR - CN201511011694 20151230

AP - CN201511011694 20151230

DT - I

CT - || STSE (A)

[WO9947023](#) A1 19990923 [A] (MONETTI SPA [IT], et al)

[A] 1-9

* 全文 *;

[CN103171828](#) A 20130626 [Y] (UNIV ZHEJIANG)

[Y] 1-9

* 说明书第2、10-16段, 附图1-2 *;

[CN104634155](#) A 20150520 [Y] (GUANGZHOU BAIER COLD CHAIN POLYURETHANE SCIENCE & TECHNOLOGY CO LTD)

[Y] 1-9

* 说明书第17-21段, 附图1-3 *;

[CN104913581](#) A 20150916 [Y] (FUZHOU DEV ZONE YINSHE LOW TEMPERATURE REFRIGERATION TECHNOLOGY CO LTD)

[Y] 1-9

* 说明书第15-18段, 附图1-2 *;

[CN205441409U](#) U 20160810 [R] (GUANGZHOU BAIER COLD-CHAIN POLYURETHANE SCIENCE AND TECH CO LTD)

[R] 1-9

* 权利要求1-9 *

CNOI - [F25D3/00](#)

PA - GUANGZHOU BAIER COLD-CHAIN POLYURETHANE SCIENCE & TECH CO LTD

TI - Cold accumulating plate for refrigerated transportation

AB - The invention discloses a cold accumulating plate for refrigerated transportation. The cold accumulating plate is strip-shaped, and the **section** thereof is rectangular; the cold accumulating plate is surrounded by a **top** plate, a baseplate, a **left** side plate and a **right** side plate, and is provided with a cold accumulating space inside; multiple first fin bones are arranged on the inner wall of the **top** plate in the length direction of the cold accumulating plate; multiple second fin bones are arranged on the inner wall of the baseplate in the length direction of the cold accumulating plate; a third fin bone is arranged on the inner wall of the **left** side plate in the length direction of the cold accumulating plate; and a fourth fin bone is arranged on the inner wall of the **right** side plate in the length direction of the cold accumulating plate. As the fin bones are arranged on the inner walls of the cold accumulating plate, the contact area between

secondary refrigerant and the cold accumulating plate is larger, and the heat exchange efficiency is improved; and the strip-shaped cold accumulating plate is **modular** and easy to be spliced, and is laid in a cold storage **cabinet** as needed during mounting.

20/53 © EPODOC / EPO

PN - [CN205068190U](#) U 20160302
PR - CN20152661174U 20150830
AP - CN20152661174U 20150830
DT - I
PA - CHONGQING SUZHANWEI TECH CO LTD
TI - Fast buffet constant temperature control system
AB - The utility model discloses a fast buffet constant temperature control system, including **cabinet** window, electric heater, compressor and the **cabinet** body, the **cabinet** window is installed to the **top** of the **cabinet** body, electric heater and the equal electrical output of compressor are connected the relay, relay electrical output connects central control unit, the two -way electric connection liquid crystal display of central control unit, liquid crystal display installs the **left** side **upper** portion at the **cabinet** body, central control unit electrical property input connection voice **module**, voice **module** electrical property input connection speaker, the **left** side **lower** part at the **cabinet** body is installed to the speaker, central control unit electrical output connects temperature control unit, temperature control unit electrical output connects AD conversion **module**, AD conversion **module** electrical output connect temperature sensor, the supporting legs is installed to the below of the **cabinet** body. The utility model discloses convenient and practical can be with the temperature control in the **cabinet** window in the uniform temperature **section**.

21/53 © EPODOC / EPO

PN - [CN105352040](#) A 20160224
PR - CN20151863013 20151130
AP - CN20151863013 20151130
DT - I
CT - || STSE (A)
[CN202040903U](#) U 20111116 [Y] (GUANGDONG MIDEA ELECTRIC APLNC)
[Y] 1-8、21-32
* 说明书第[0023]-[0030]段, 附图1-2 *;
[CN203163558U](#) U 20130828 [A] (WUHAN REFRIGERATION EQUIPMENT CO LTD OF MIDEA GROUP)
[A] 1-32
* 全文 *;
[CN104110733](#) A 20141022 [A] (GUANGDONG MEDIA REFRIGERATION EQUIPMENT CO LTD)
[A] 1-32
* 全文 *;
[CN104344520](#) A 20150211 [A] (GUANGDONG MEDIA REFRIGERATION EQUIPMENT CO LTD)
[A] 1-32

* 全文 *;

[CN104344521](#) A 20150211 [Y] (GUANGDONG MIDEA REFRIGERATION EQUIPMENT CO LTD)

[Y] 1-8、21-32

* 说明书第[0025]-[0036]段，附图1-8 *;

[CN205279261U](#) U 20160601 [R] (GUANGDONG MIDEA REFRIGERATION EQUIPMENT CO LTD, et al)

[R] 1-32

* 权利要求1-32 *

CNOI - [F24F13/20](#) ; [F24F13/30](#) ; [F24F1/0025](#)

CNOA - [F24F2001/004](#)

PA - GUANGDONG MIDEA REFRIGERATION EQUIPMENT CO LTD; MIDEA GROUP CO LTD

TI - **Cabinet** air conditioner

AB - The invention discloses a **cabinet** air conditioner. The **cabinet** air conditioner comprises: a housing **module** open on a front side thereof, wherein air inlets are formed in a **left** sidewall, a **right** sidewall and a rear sidewall of the housing **module**, respectively; a heat exchanger **module**, wherein a cross **section** of the heat exchanger **module** is U-shaped, and the heat exchanger **module** is arranged on an inner wall of the housing **module**; an air duct **module** located within the housing **module** and fixed on a front sidewall of the heat exchanger **module**; an electric control **module** arranged on the inner wall of the housing **module** and located on a **lower** portion of the air duct **module**; and a front housing **module**. According to the **cabinet** air conditioner of the present invention, on one hand, a heat exchange area between the heat exchanger **module** and air can be increased favorably so that the heat exchange efficiency can be improved, and therefore, refrigeration and heating effects of the **cabinet** air conditioner can be improved; on the other hand, the **cabinet** air conditioner is simple to assemble, and further, the time of assembling is saved and the working efficiency of a worker is improved.

22/53 © EPODOC / EPO

PN - [CN204906168U](#) U 20151223

PR - CN20152592479U 20150803

AP - CN20152592479U 20150803

DT - I

PA - ZHEJIANG HRV ELECTRIC CO LTD

TI - Air -cooled wind power converter **cabinet**

AB - The utility model discloses an air -cooled wind power converter **cabinet**, including the **cabinet** body, the **cabinet** body is equipped with power **cabinet**, switch board including **left** and **right** two parts, the **left** side, and the **right** is equipped with the IGBT **cabinet**, and switch board and power **cabinet** are equipped with the **left** -hand door board outward, install the door plant fan on this **left** -hand door board, the IGBT **cabinet** includes cavity and **lower** cavity, goes up cavity the place ahead and establishes the epicoele door plant, and shrouding behind the epicoele is established at the rear, installs the epicoele ventilation blower behind the epicoele on the shrouding, down the chamber door plant is set in cavity the place ahead, and shrouding behind the chamber is set at the rear establishes in, and send the draught fan, installs

the cavity of resorption ventilation blower behind the cavity of resorption on the shrouding. The utility model discloses compact structure, occupation space are little, make things convenient for the installation of converter in a wind power generation tower **section** of thick bamboo, the radiating mode of air -out on the air inlet under especially the indoor power unit **module** of the cavity of resorption of IGBT **cabinet** part adopts, simple structure, easy dismounting, the radiating effect is good, has effectively alleviated the over heating issue of power unit **module**.

23/53 © EPODOC / EPO

PN - [CN204685396U](#) U 20151007
 PR - CN20152288642U 20150507
 AP - CN20152288642U 20150507
 DT - I
 PA - KUNSHAN XINTENGSHUN AUTOMATION EQUIPMENT CO LTD
 TI - Novel point gum machine group
 AB - The utility model discloses a novel point gum machine group, it relates to point gum machine technical field, be provided with Y axle **section** bar slip **module** workstation in the middle of the **upper** portion of switch board, transversely be provided with point gum machine X axle **section** bar **module** between point gum machine **right** side **section** bar support and the point gum machine **left** side **section** bar support, the vertical point gum machine Z axle **section** bar **module** that is provided with on the point gum machine X axle **section** bar **module**, the servo motor's of point gum machine X axle **section** bar **module left** end **upper** portion is provided with the three -colour alarm lamp, 24 inside of organism are provided with point gum machine Y axle **module** with point gum machine X axle **section** bar **module** and the equal vertically direction of point gum machine Z axle **section** bar **module**. Its novel structure, the base sets up with the switch board is integrative, and the front portion is provided with the **cabinet** door, can hold toolbox etc. And the lathe be aluminium template structure, and convenient operation, installation are quick, the saving cost.

24/53 © EPODOC / EPO

PN - [RU2013157708](#) A 20150627
 PNFP - RU2566494 C2 20151027
 PR - RU20130157708 20131224
 AP - RU20130157708 20131224
 DT - I
 PA - (C2)
 FEDERAL NOE GUP URAL SKIJ EHLEKTROMEKHANICHESKIJ ZD [RU]
 TI - (C2)
 WORKPLACE OF CONSTRUCTION ELECTRICIAN
 AB - (C2)
 FIELD: personal use articles.SUBSTANCE: invention relates to a **furniture** industry and can be used as a workplace of a construction electrician. The workplace comprises a table and a power **module** which is located along the long side of the table. The table contains two file **cabinets**, each of which comprises a door. The table **top** is covered

with anti-static plastic. Edging of the tabletop protrudes over the table along its perimeter, with the exception of the workplace. In the centre under the table **top** a box for collecting industrial wastes is mounted. The power **module** comprises a rack, a **section** of central air duct. Above the **section** housing is attached, in which at the front and rear sides there are electrical **cabinets**. The **cabinets** contain an electrical panel with sockets, a switch and a fuse. In the centre of the housing there are two built-in slots. The flexible air duct with a funnel and a control handle is docked to the slot on the **left** and **right** sides. The racks of tubular **section** are mounted over the housing. The V-shaped brackets for hanging a lamp of general lighting are mounted on the racks. The U-shaped casing covers the housing at three sides. The universal holder of drawings is attached to the rack of tubular **section**. The power **module** also comprises height-adjustable supports. EFFECT: main advantages of the proposed workplace of a construction electrician are following: the opportunity to make the table surface free of foreign objects and different holes for mounting org-equipment; the ability to move the table, if necessary; easy and simple installation of the workplace that does not require a long time, which is especially important in case of possible relocation, and also the workplace of a construction electrician enables to set in row an unlimited amount of workplaces; it is possible to form a row in the centre of the room, as well as along the wall, which vacates significantly the area of the occupied room.2 cl, 6 dwg

25/53 © EPODOC / EPO

PN - [CN204315945U](#) U 20150506

PR - CN20142790771U 20141212

AP - CN20142790771U 20141212

DT - I

PA - TIANJIN RES INST ELECTRIC SCIENCE CO LTD; TIANJIN TIANCHUAN ELECTRIC CONTROL POWER DISTRIB CO LTD

TI - Switchgear reinforced opening **section** bar

AB - The utility model relates to a switchgear reinforced opening **section** bar formed by a vertical long edge, a **bottom** long edge, a front flanging, a front short edge, a **bottom** flanging, and a **bottom** short edge through **right** angle bending in one body; the front flanging and the front short edge are respectively formed by a vertical long edge through **right** angle bending inwards; the vertical long edge, the **bottom** long edge, the front flanging, the front short edge, the **bottom** flanging and the **bottom** short edge are respectively matched in width and length; the **bottom** flanging and the **bottom** short edge are respectively formed by the **bottom** long edge through **right** angle bending inwards; two sides of the vertical long edge and the **bottom** long edge are respectively and symmetrically provided with an indenting counter hole; two positioning holes are respectively coaxially and symmetrically arranged on two sides of the indenting counter hole; middle portions of the front flanging and **bottom** flanging are respectively provided with a plurality of function **modulus** holes. The switchgear reinforced opening **section** bar is formed by five-bending formation through a bender, and is arranged in a surrounding shape; small edges are enhanced in design so as to improve **section** bar linearity, so deformation is hard to happen; compared with a nine-bend **section** bar of an industrial control **cabinet**, the switchgear reinforced opening **section** bar is convenient in processing, welding process free, and high in production efficiency.

26/53 © EPODOC / EPO

- PN - [CN204315920U](#) U 20150506
- PR - CN20142786703U 20141212
- AP - CN20142786703U 20141212
- DT - I
- PA - TIANJIN RES INST ELECTRIC SCIENCE CO LTD; TIANJIN TIANCHUAN ELECTRIC CONTROL POWER DISTRIB CO LTD
- TI - Novel switchgear 45-degree wing angle G **section** bar
- AB - The utility model relates to a novel switchgear 45-degree wing angle G **section** bar formed by a front flanging, an **upper** vertical edge, an **upper** flat plate, a rear vertical plate, a **lower** flat plate and a **lower** vertical edge integrated together; the **upper** flat plate, the rear vertical plate and the **lower** flat plate are bended into frame **section** bars with front openings in a **right** angle; the front end of the **upper** flat plate bends downwards to form the **upper** vertical edge in a **right** angle; the **lower** portion of the **upper** vertical edge bends forwards to form the front flanging in the **right** angle; two sides of the **lower** flat plate extend outside the rear vertical plate; two ends of the **lower** flat plate employ 45-degree wing angle design; a wing edge is provided with a suspension ring gap; the middle front end of the **lower** flat plate is provided with the **lower** vertical edge in an up direction; the middle of the **upper** flat plate is provided with a function **module** round hole and a function **module** square hole; the novel switchgear 45-degree wing angle G **section** bar is made of aluminized Zn steel plate, is unique in profile, two ends of the **section** bar are 45-degree wing angle structures matched with a metal sheet three way connector, thus assembling multipurpose switchgears like an industrial control **cabinet** and a power distribution **cabinet**; the novel switchgear 45-degree wing angle G **section** bar can be produced by enterprises with metal sheet processing ability and bending equipment, thus reducing outsourcing dependent level of low voltage complete switchgear metal sheet parts.

27/53 © EPODOC / EPO

- PN - [CN204189397U](#) U 20150304
- PR - CN20142676560U 20141113
- AP - CN20142676560U 20141113
- DT - I
- PA - CHENXI GUTON TECHNOLOGY CO LTD
- TI - Efficient heat dissipation LED display screen **cabinet**
- AB - The utility model provides an efficient heat dissipation LED display screen **cabinet** and relates to the technical field of LED rental screens. The efficient heat dissipation LED display screen **cabinet** comprises extruded aluminum sections, a **module** fixing panel and a back door panel. Each extruded aluminum **section** comprises a **top** plate, a first extension portion and a second extension portion, the first extension portion and the second extension portion of each extruded aluminum **section** are oppositely arranged at the two ends of the corresponding **top** plate in the width direction, the two ends of each **top** plate extend to form a first clamping portion and a second clamping portion respectively in the length direction, and the first clamping portions and the second clamping portions are used for connection of the extruded aluminum sections; a

supporting rib plate is arranged in the middle of the **bottom** end of the **module** fixing panel, and the **module** fixing panel is connected with the second extension portions through screws; the back door panel comprises a **left** door panel, a **right** door panel and a middle door panel, the **left** door panel and the **right** door panel are arranged on the two sides of the middle door panel respectively, and the **left** door panel, the **right** door panel and the middle door panel are located on the same plane. The efficient heat dissipation LED display screen **cabinet** has the advantages of being efficient in heat dissipation, low in weight, convenient to install, convenient to maintain in a later period and attractive in overall appearance.

28/53 © EPODOC / EPO

- PN - [CN203691850U](#) U 20140702
- PR - CN2014243410U 20140123
- AP - CN2014243410U 20140123
- DT - I
- PA - SUGON INFORMATION IND BEIJING
- TI - **Cabinet fan module**
- AB - The utility model provides a **cabinet fan module** which comprises a fan installation rack, a fan **module** frame and a rear cover. A cross **section** of the fan installation rack is L-shaped, and includes a fan fixed framework and a slide rail framework which are vertical to each other, wherein the fan fixed framework and the slide rail framework are both rectangular. The fan **module** frame is a rectangular hollow structure composed of an **upper** face, a **lower** face, a **left** face and a **right** face. Separator plates parallel to the **left** face and the **right** face are disposed inside the hollow structure, and divide the inside of the hollow structure into at least two fan frames. Internal slide rails matching with the slide rail framework are disposed at **lower** ends of a **left** face and a **right** face inside each fan frame. The rear cover is a rectangular plate which matches with a rear face of the hollow structure in size. A shutter assembly is disposed on the rear cover. According to the **cabinet fan module**, each fan is installed into the fan **module** frame through the slide rail, and is in support of hot plugging; when a fan has a fault or is drawn out, a shutter corresponding to the fan is closed, and therefore a wind current short circuit can be effectively prevented.

29/53 © EPODOC / EPO

- PN - [CN203453714U](#) U 20140226
- PR - CN20132495005U 20130814
- AP - CN20132495005U 20130814
- DT - I
- PA - YCSR SICHUAN ENGINE CO LTD
- TI - Power container for high-power container type diesel generating set
- AB - The utility model discloses a power container for a high-power container type diesel generating set. The power container for the high-power container type diesel generating set comprises a container main body, wherein an electric apparatus room is arranged on the **left** end of the container main body, a part of a **top** plate on the **top** surface of the electric apparatus room is removed, corrugated boards are arranged on the **top** surface and the two side surfaces of the electric apparatus room, an electric apparatus

room door used for placing an electrical **cabinet** is arranged on the **left** end surface of the container main body, a diesel generating set is arranged in the middle part of the container main body, middle doors are arranged on the two side surfaces of the middle part, a plurality of air inlets are formed in the side plate of the **right** half **section** of the container main body; generator heat dissipation openings, an engine exhaust 2, an engine exhaust 1, an oil gas separator interface and an internal heat dissipation vent are arranged in the **top** plate; a small door is arranged on the **right** end of the container main body, and a series of engine oil water system external interfaces are arranged on the end surface of the **right** end of the container main body. The power container for the high-power container type diesel generating set has the beneficial effects that the structure is simple and compact, the layout is reasonable, and the maintenance is convenient; the integrated mode and **modular** form are adopted to facilitate transportation, and the mounting is rapid.

30/53 © EPODOC / EPO

- PN - [CN203405862U](#) U 20140122
- PR - CN20132526393U 20130827
- AP - CN20132526393U 20130827
- DT - I
- PA - WANG QIANG
- TI - Queuing machine for banks
- AB - The utility model discloses a queuing machine for banks. The queuing machine comprises a bent **cabinet** body. The **cabinet** body comprises a perpendicular **section** and a bent **section**, and the included angle alpha between the perpendicular **section** and the bent **section** is 30 degrees. A central processor is arranged in the **cabinet** body and connected with a touch screen, a bank card reader, an ID card recognizer, a fingerprint recognizer, keys, a loudspeaker, a printer and a camera. The touch screen is arranged in the middle of the bent **section**. The ID card recognizer and the fingerprint recognizer are arranged on the **lower** portion of the touch screen. The bank card reader is arranged on the **right** side of the touch screen. The loudspeaker and the camera are arranged on the **upper** portion of the touch screen. The paper outlet of the printer is arranged on the **upper** portion of the perpendicular **section**. The central processor is connected with a short message communication **module**. The queuing machine has the advantages of being simple in structure, diverse in function and capable of timely and effectively reminding customers to carry out business processing.

31/53 © EPODOC / EPO

- PN - [CN203206632U](#) U 20130918
- PR - CN2013271894U 20130207
- AP - CN2013271894U 20130207
- DT - I
- PA - BEIJING GREAT WALL ELECTRONIC EQUIPMENT CO LTD
- TI - Electric control **cabinet** based on aluminum **section**
- AB - The utility model discloses an electric control **cabinet** based on aluminum sections. The electric control **cabinet** comprises a framework assembly, a door plate, hinges and a door lock. The framework assembly is composed of eight corner connecting pieces, four

intermediate connecting pieces, four side frames, eight vertical frames, eight transverse frames and four fixing plates. The eight corner connecting pieces form the eight **top** corners of the framework assembly. The eight corner connecting pieces are connected with two ends of the four side frames, two ends of the four vertical frames and one ends of the four transverse frames respectively. The other ends of the four transverse frames and the two ends of the other four vertical frames are connected through the four intermediate connecting pieces. Every two adjacent intermediate connecting pieces are fixed together through each fixing plate, and the four adjacent intermediate connecting pieces are fixed by the four fixing plates. As a result, a complete framework assembly is formed. The door plate is disposed on the **left** side and the **right** side of the side frames through connection of screws and the hinges. The door lock is connected with the door and then is inserted into a fixing seat disposed on the middle vertical frame through a flat bar-shaped insert bar on the door lock, so that the **cabinet** can be opened and closed. The electric control **cabinet** based on aluminum sections overcomes design defects of conventional control **cabinet** structures and satisfies demands of **modularized** manufacture.

32/53 © EPODOC / EPO

PN - [CN203174158U](#) U 20130904

PR - CN20132154729U 20130330

AP - CN20132154729U 20130330

DT - I

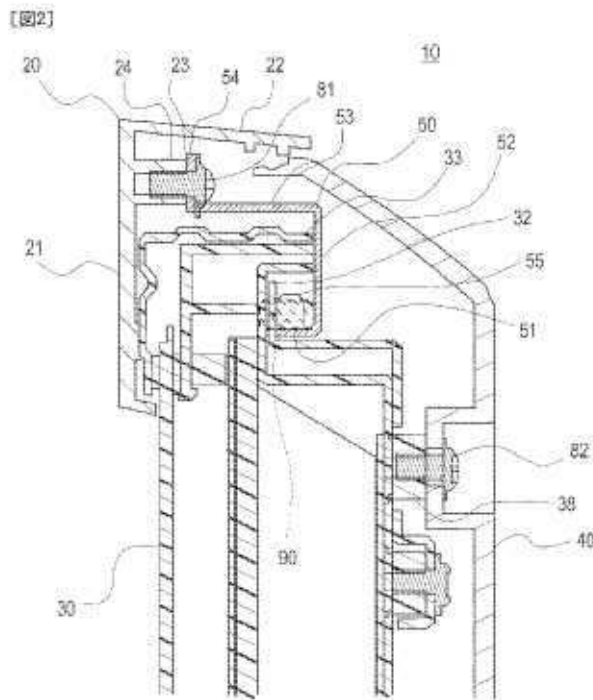
PA - BEIJING SHOUGANG AUTOMATION INFORMATION TECHNOLOGY CO LTD

TI - Purging device with liquid steel quenching part

AB - The utility model relates to a purging device with a liquid steel quenching part, which belongs to the technical field of automatic control of steel rolling. The purging device comprises two nozzles, two flow meters and two proportional valves, wherein a first flow meter is installed on a broadband steel purging pipeline, a second proportional valve is installed at the rear side of the first flow meter on the same pipeline, the tail end of the pipeline is divided into two sections to be respectively provided with a first broadband steel nozzle and a second broadband steel nozzle, and the two nozzles are **right** opposite to the **upper** parts of two sides of a band steel; the other pipeline is provided with a second flow meter and a first proportional valve, the tail end of the pipeline is provided with a first narrow-band steel nozzle and a second narrow-band steel nozzle, and the two nozzles are respectively arranged on the **upper** parts of two sides of the band steel; the first flow meter and the second flow meter are accessed to a first analog quantity input **module** through a data line, and the first proportional valve and the second proportional valve are connected to a second analog quantity output **module**; and the first analog quantity input **module** and the second analog quantity output **module** are installed in a procedural **section** PLC (programmable logic controller) **cabinet** of a cold-rolling PLC control chamber. The purging device has the advantages that the purging effect can be guaranteed, and the energy waste can be avoided.

33/53 © EPODOC / EPO

PN - [WO2013018398](#) A1 20130207
 PR - JP20110168366 20110801
 AP - WO2012JP58849 20120402
 DT - *; Rep
 CT - [JP] ISR (A1)
 [WO2011058846](#) A1 20110519
 [Y] (SHARP KK [JP], et al);
 [JP2002372917](#) A 20021226
 [Y] (MATSUSHITA ELECTRIC IND
 CO LTD);
 [JP2001318613](#) A 20011116
 [Y] (CANON KK);
 [JPH08162028](#) A 19960621
 [Y] (MITSUBISHI ELECTRIC CORP);
 [JP2006047979](#) A 20060216
 [Y] (CANON KK);
 [JP2008256776](#) A 20081023
 [A] (MATSUSHITA ELECTRIC IND
 CO LTD);
 [JPH10282896](#) A 19981023
 [A] (MITSUBISHI ELECTRIC CORP)
 CCI - [G02F1/133308](#) ; [H04N5/64](#)
 CCA - [G02F2001/133317](#) ;
 [G02F2201/46](#)
 PA - SHARP KK [JP]; SHIBUYA
 NORIYUKI; FUJIE TSUTOMU;
 AMANO YUKI
 TI - THIN DISPLAY DEVICE
 AB - Provided is technology that
 improves the shape of a metal
 fixture that fixes a metal
 front **cabinet**, reliably brings
 the **cabinet** and a
 display **module** into contact at
 the surfaces thereof, and, by
 stabilizing conduction,
 suppresses worsening of
 unnecessary radiation. A liquid
 crystal television (10) comprises
 the frame-shaped front **cabinet**
 (20), such that same covers the
 outer peripheral **section** on the
 front surface side of a liquid
 crystal display **module** (30) and
 part of the outer
 peripheral **section** of the **top**,
 bottom, **left**, and **right** side



surface sides. A metal back light chassis (31) for the liquid crystal display **module** (30) is fixed to the front **cabinet** (20) by a fixing angle (50). When fixing, a gasket (90) is interposed in the fixing **section** between the liquid crystal display **module** (30) and the fixing angle (50). The gasket (90) is fixed in a squashed state.

34/53 © EPODOC / EPO

PN - [JP2012161449](#) A 20120830
 PR - JP20110023694 20110207
 AP - JP20110023694 20110207
 DT - I
 FI - A47F11/10; F21S2/00&340; F21Y101/02; F21Y115/10
 FT - 3B110/AA06; 3B110/HA09; 3K243/AA01; 3K243/AB01; 3K243/AC06; 3K243/BA09; 3K243/BB11; 3K243/BC09; 3K243/BE08
 PA - FUKUSHIMA INDUSTRIES CORP
 TI - **SHOWCASE**
 AB - PROBLEM TO BE SOLVED: To provide a **showcase** including an illumination structure simultaneously and uniformly illuminating both an electric illumination panel and a display chamber.SOLUTION: The **upper** end front face of an opening part of the display chamber 2 of this **showcase** is disposed with the electric illumination panel 15, and an illumination **section** 13 in the rear thereof is provided with the illumination structure 14 for illuminating the electric illumination panel 15 and the display chamber 2. The illumination structure 14 includes linear LED **modules** 22, and a light guide body 23 continuing in the **right-and-left** width direction of the electric illumination panel 15. The light guide body 23 is provided with: a first light emission face 31 just facing the electric illumination panel 15; and a second light emission face 32 oriented to the display chamber 2. The electric illumination panel 15 and the display chamber 2 are simultaneously illuminated with planar illumination light emitted from the first light emission face 31 and the second light emission face 32.

35/53 © EPODOC / EPO

PN - [CN102358301](#) A 20120222
 PR - CN20111252778 20110829
 AP - CN20111252778 20110829
 DT - I
 CT - || STSE (A)
[EP0473512](#) B1 19950405 [A] (ALSTHOM GEC [FR])
 [A] 1-5
 全文
[CN202175050U](#) U 20120328 [R] (CSR NANJING PUZHEN CO LTD)
 [R] 1-5

权利要求1-5

[CN201472383U](#) U 20100519 [YX] (YONGJI XINSHISU ELECTRIC EQUIP)

[Y] 1-4

说明书第5-18段,权利要求2,图1-2

[X] 1-5

[CN201646725U](#) U 20101124 [A] (CSR QINGDAO SIFANG LOCOMOTIVE)

[A] 1-5

全文

[CN2450048Y](#) Y 20010926 [A] (YONGJI ELECTRIC MACHINE PLANT [CN])

[A] 1-5

全文

[CN2763147Y](#) Y 20060308 [Y] (YONGJI DYNAMO FACTORY CHINA NO [CN])

[Y] 1-4

说明书第2页第7-10行,图2,3

- PA - CSR NANJING PUZHEN ROLLING STOCK CO LTD
- TI - Driver control console for railway vehicle
- AB - The invention relates to a driver control console for a railway vehicle. The driver control console comprises a **cabinet** assembly consisting of a **left cabinet**, a middle **cabinet** and a **right cabinet**, wherein adjacent **cabinets** are fixedly connected through bolts; a console panel assembly is fixed above the **cabinet** assembly; a window which is used for mounting a component panel is reserved on the console panel assembly; the component panel which is embedded with an operating device or display device is mounted at the position of the window on the console panel assembly; a connecting angle bar is embedded in the **lower** surface of the edge of the console panel assembly; the connecting angle bar is fixedly connected to a **section** bar of the **cabinet** assembly through a bolt; a steel plate is lined in the console panel assembly; component panel mounting holes are formed on the periphery of the window on the console panel assembly and screw nuts are embedded at the corresponding position on the rear part; and bolts are screwed into the screw nuts so that the component panel is fixed at the position of the window on the console panel assembly. The driver control console has the advantages of reasonable structure, high **modularization** degree, simple and smooth lines, convenience in maintenance, and the like. The design of the console panel fit with principles of ergonomics and the console panel has an attractive appearance.

36/53 © EPODOC / EPO

- PN - [JP2011206086](#) A 20111020
- PR - JP20100073939 20100327
- AP - JP20100073939 20100327
- DT - I
- FI - A47B47/04&B; F16B12/12&Z; F16B12/28; F16B5/02&P
- FT - 3B054/BA05; 3B054/BA10; 3B054/BA14; 3B054/BA15; 3B054/BA16; 3B054/BA17; 3J001/FA09; 3J001/GA01; 3J001/GA06; 3J001/GA10; 3J001/GB01; 3J001/HA03; 3J001/HA07; 3J001/JA10; 3J001/KA05; 3J001/KA19; 3J001/KB03; 3J024/AA12; 3J024/AA41; 3J024/CA13
- PA - SUGIMOTO HIROSHI

- TI - KNOCKDOWN **FURNITURE**
- AB - PROBLEM TO BE SOLVED: To respond to various needs on the user side by expanding constructible shapes and uses of **modular furniture**. SOLUTION: A basic structure 100 is provided with a connection partition CP of the same thickness t with that of a rectangular side material 1c set on each of four corners which two rectangular side materials 1c bisect at **right** angles. One connection partition CP is composed of a combination of two connection pieces 5, a spacer 15b, a rod body 18, a cap **section** 19 and a **bottom section** 20 and the connection pieces 5 of the rectangular side materials 1c adjacent to the connection partition CP are composed in a way that they fit within the connection partition CP. Each of two connection pieces 5 and the spacer 15b are provided with through holes 6, 16 for the rod bodies 18 to penetrate in a straight manner and the cap sections 19 and the **bottom** sections 20 are installed on both ends of the rod bodies 18 penetrated through the through holes 6, 16 of the two connection pieces 5 and the spacer 15b.

37/53 © EPODOC / EPO

- PN - [JP2009086069](#) A 20090423
- PR - JP20070252913 20070928
- AP - JP20070252913 20070928
- DT - I
- CT - [JP2007121594](#) A []; [JP2005077590](#) A [];
[JP2002303851](#) A []; [JPH1138396](#) A []
- FI - G02F1/1333; G09F9/00&309Z; G09F9/00&350Z
- FT - 2H089/HA40; 2H089/KA15; 2H089/KA17; 2H089/QA01; 2H089/QA02; 2H189/AA54; 2H189/AA55; 2H189/AA57; 2H189/AA59; 2H189/AA60; 2H189/AA63; 2H189/AA64; 2H189/AA65; 2H189/AA67; 2H189/AA70; 2H189/AA73; 2H189/AA78; 2H189/AA79; 2H189/HA02; 2H189/LA22; 2H189/NA05; 5G435/AA07; 5G435/AA14; 5G435/AA17; 5G435/BB12; 5G435/EE07; 5G435/EE13; 5G435/GG33; 5G435/GG43; 5G435/KK02; 5G435/L07
- PA - CASIO COMPUTER CO LTD
- TI - **DISPLAY MODULE**
- AB - PROBLEM TO BE SOLVED: To provide a **display module** superior in reliability wherein a **display** panel is surely held in a prescribed position over a long period of time.
- SOLUTION: A liquid crystal **display** panel 2, a surface emission backlight unit 6, and a drive control circuit board 7 are stored in a resin frame **case** 1 so as to be held in prescribed positions respectively, and a shield **case** 9 formed by forming a stainless plate is provided so as to cover a **case bottom** wherein the drive control circuit board 7 is installed. An end part of the liquid crystal **display** panel 2, to which a main FPC 4 is made conductive and joined, and a corresponding end part of the frame **case** 1 are elastically held by a channel-shaped cross-**section** part formed by bending a front end part 921 of a shorter-side plate 92 of the shield **case** 9 inward at **right** angles.
- COPYRIGHT: (C)2009,JPO&INPIT

38/53 © EPODOC / EPO

PN - [US4192106](#) A 19800311

PR - IT19770049978 19770624

AP - US19780902987 19780504

DT - **

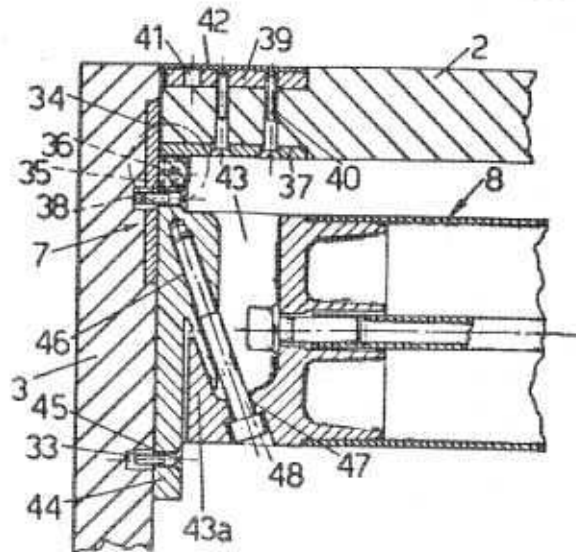
CT - [BE544122](#) A []; [DE2212645](#) A1 [];
[GB399544](#) A []; [US641525](#) A [];
[US3809142](#) A []; [US4059058](#) A []

CCI - [E04B2/7425](#) ; [E04B2/7427](#)

PA - CASTELLI SAS ANONIMA [IT]

TI - **Modular** elements for composing disassemblable walls, **cabinets**, writing-desks or other pieces of **furniture**

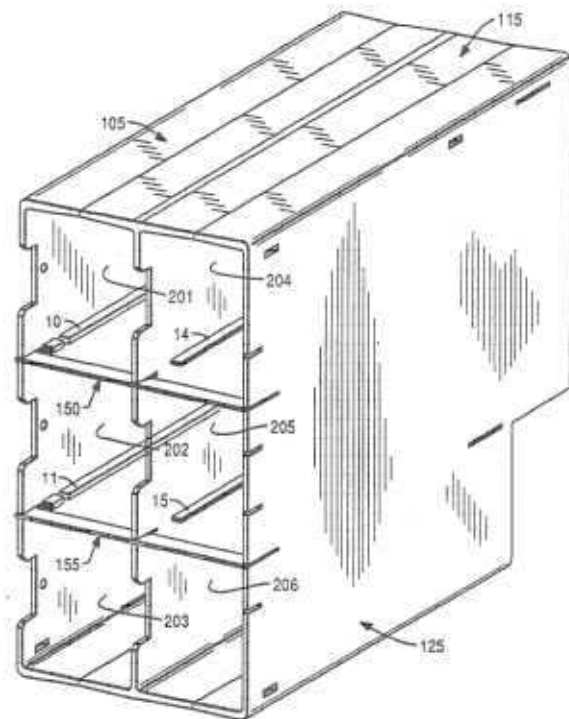
AB - **Modular** elements for composing disassemblable walls, **cabinets**, writing tables and other pieces of **furniture** comprising: panels; box-like metal sections provided on three surfaces thereof with a groove defining a longitudinal slot of a width **lower** than that of the groove while from the remaining surface, anchoring means extend outwardly to connect each **section** to a panel; column devices having, at its ends, pieces to be received inside the central grooves of said sections and cooperating with means for locking said pieces in its engaged position, said column housing a hollow tubular pivot member, into which passes a threaded rod having a **upper** control head and which at its **lower** end rests on an adjustable ground engaging foot; cylindrical rods for the connection of wall panels, in coplanar relationship; expansion screws to be inserted into the front grooves of the sections for carrying hooks, and the like; hinge devices for the connection of adjacent wall panels at **right** angles and to allow said panels to be fold one



on the other; through rods passing from the **top** to the **bottom** through the vertical panels, and provided with a **upper** control head and with a **lower** adjustable ground engaging foot; and bars having shaped end portions, acting as spacers between two parallel panels.

39/53 © EPODOC / EPO

- PN - [US5124886](#) A 19920623
- PR - US19910659771 19910225
- AP - US19910659771 19910225
- DT - *
- CT - [US4688864](#) A []; [US4700275](#) A [];
[US4754397](#) A []; [US4833554](#) A [];
[SU712984](#) A1 []
- CCI - [G11B33/128](#) ; [G11B33/02](#) ;
[H05K7/1422](#)
- PA - NCR CO [US]
- TI - Drive canister mounting **module**
- AB - A **modular cabinet** for enclosing a plurality of disk drive canisters. The **cabinet** includes **left** and **right** sides and a center **section**, each formed of molded structural foam. Each side includes horizontal **top** and **bottom** portions which include tongue-like projections for mating with similar features in **top** and **bottom** portions of the center **section**. The sides and center **section** are secured together through the use of four latching members which cooperate with features molded into the sides. The design of the components permits easy assembly of the **cabinet** without the use of tools. Horizontal rails molded into the internal surfaces of the sides and both



surfaces of the center **section**
form the bays for receiving disk
drive canisters.

40/53 © EPODOC / EPO

PN - [US2007170823](#) A1 20070726

PR - US20060336601 20060120

AP - US20060336601 20060120

DT - *; Rep

CT - || R141 (A1)

[US4002831](#) A [];

[US5303057](#) A [];

[US5738422](#) A [];

[US3446546](#) A [];

[US4752106](#) A [];

[US5782544](#) A [];

[US2002084727](#) A1 [];

[US2714625](#) A [];

[US5138462](#) A [];

[US2806754](#) A [];

[US5558418](#) A [];

[US3110533](#) A [];

[US2004222721](#) A1 [];

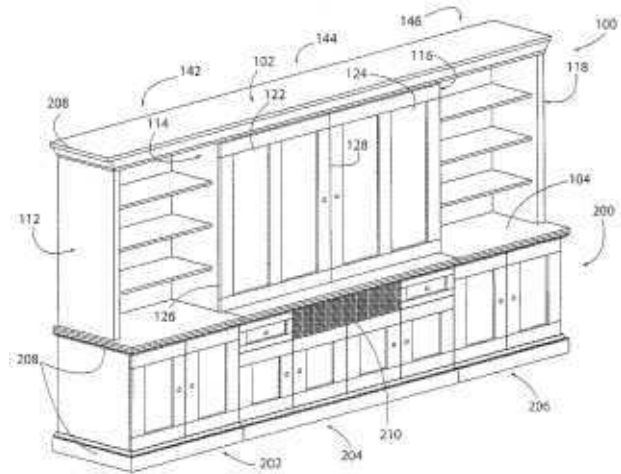
[US6830299](#) B2 []

CCI - [A47B81/06](#)

PA - SLIGH FURNITURE COMPANY

TI - Display **cabinet** with **modular**
slide door

AB - A display **cabinet** with **modular**
slide door is adapted to house a
video display device. A **cabinet**
top is spaced above a base, and
is generally aligned with the
base. The door is slidably
connected with the **top** and
adapted to selectively conceal
and reveal the display device.
The **cabinet** may have **left**
and **right module** sections, each
of a **modular** width. The door
preferably has the same **modular**
width and may slide from
one **section** to the other and
alternatively reveal or conceal
each **section**. The **cabinet** may
further have a center **section** of
two **modular** widths and a



second **modular** slide door. The center **section** may define a display space. The **modular** slide doors may alternatively slide to conceal the display space, revealing the **left** and **right module** sections, and slide to reveal the display space, concealing the **left** and **right module** sections.

41/53 © EPODOC / EPO

PN - [SE510783](#) C2 19990621
 PNFP - SE9503277 L 19970322
 PR - SE19950003277 19950921
 AP - SE19950003277 19950921
 DT - I
 CNOI - (C2 L)
[A47B46/00](#)
 PA - (C2 L)
 BERTIL DAVIDSSON [SE]
 TI - (C2)
 Item of work **furniture**
 AB - (C2)

The inner under support comprises a box-shaped casing (20) provided with wheels on which the table **top** (12) is located with its under outer support (18) and is lowerable into an open side to a storage position inside the box-shaped casing. In order to develop the item of **furniture** into a **module** system, the box-shaped casing has a quadratic horizontal cross-**section** and forms a base for one or more stacked structural units (30,50,60) which have a quadratic horizontal cross-**section** coinciding with that of the box-shaped casing in order to be orientated in the horizontal plane in at least three reciprocal **right**-angled directions in relation to the box-shaped casing.

42/53 © EPODOC / EPO

PN - [JPH06252802](#) A 19940909
 PNFP - JP3156422B B2 20010416
 PR - JP19930033786 19930224
 AP - JP19930033786 19930224
 DT - I
 FI - H04B1/38; H04B1/74
 FT - 5K011/AA03; 5K011/AA04; 5K011/AA11; 5K011/AA16; 5K011/BA10; 5K011/DA15; 5K011/DA27; 5K011/DA29; 5K011/HA05; 5K011/KA12; 5K011/KA18; 5K011/LA02; 5K021/AA06; 5K021/BB02; 5K021/CC05; 5K021/CC11; 5K021/DD02; 5K021/EE00; 5K021/FF04; 5K021/FF11
 PA - (A)

FUJITSU LTD

TI - (A)
MULTIPLEX RADIO EQUIPMENT

AB - (A)
PURPOSE: To simplify the work at installation of the equipment and to improve the operability in the operation by containing all functions of the equipment to one **case** and collecting operating locations of each function to one position. CONSTITUTION: A digital signal processing **section**, modulation **section**, demodulation **section**, transmission **section**, reception **section**, line changeover **section**, ordering line signal processing **section** and a power supply **section** are contained in an **upper** container shelf 110 of a **case**. A branch **section** is contained in a **lower** container part 120. A line changeover operation **section**, a line device state **display section** are contained in a front container **section** 130 in the front part of the branch **section**. A line changeover control **section** and a line device state monitor **section** are contained in a **left** container **section** 140 of the **case**. Then a telephone set for an ordering line is installed to a **left** front support metallic fixture 141. Thus, one **case** has only to be installed at the installation of equipment by containing all the functions to one **case** and wiring between equipments is not required. Moreover, operating positions are collected to one position to facilitate the operation.

43/53 © EPODOC / EPO

PN - [GB823218](#) A 19591111

PR - GB19540037171 19541223

AP - GB19550034964 19541223

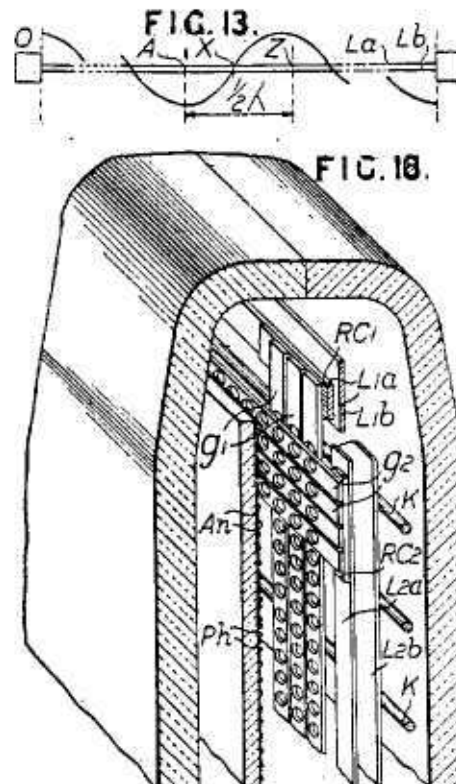
DT - **

CCI - [H01J31/123](#) ; [G11C11/06007](#) ;
[H01J29/46](#) ; [H01J29/52](#) ;
[H01J29/525](#) ; [H01P7/02](#) ;
[H03K17/88](#) ; [H04N3/122](#)

PA - PHILIPS ELECTRICAL IND LTD

TI - Improvements in or relating to position-selecting, scanning and like systems

AB - 823,218. Discharge apparatus. PHILIPS ELECTRICAL INDUSTRIES Ltd. Dec. 6, 1955 [Dec. 23, 1954], No. 34964/55. Divided out of 823,201. Class 39(1). [Also in Group XL(b)] The node X of a standing wave established on an electrically conductive double line La, Lb, Fig. 13, is employed to select a position along a half wavelength **section** AZ of the line. The position selected may be varied either by changing the frequency of the oscillator O



feeding the line, or by varying in a complementary manner, so as to keep the total length constant, the lengths of line preceding and following **section** AZ. The invention is stated to be of use generally where it is desired to select from a plurality of positions or elements, such as in information storage devices of switching systems, but is described in detail only as applied to a cathode-ray **display** tube for use in television where the position of a luminous element on a screen is selected. The tube is constructed as shown in Fig. 18 with a planar cathode K comprising a plurality of filaments fed in parallel, an anode An in the form of a mesh of thin wires or a transparent conductive coating carrying a phosphor Ph, and a pair of grid assemblies g1, g2 disposed at **right**-angles to each other and each comprising strips of sheet metal perforated at regular intervals to permit passage of cathode-anode current. The ends of the strips are brought out to double lines L1a, Lib and L2a, L2b and are bonded to the respective **upper** conductors of the lines with the interposition of strips RC1, RC2 of imperfect insulating material. In operation, standing waves are established on the two lines and, except at the position of the nodes, cause current to be drawn from each grid strip. In effect, each grid functions as a diode, and due to the CR couplings provided between the lines and strips by the insulating strips RC1, RC2, the strips require a negative cut-off bias. The sharpness of a node may be such

as to embrace only a single grid strip. As a consequence, only a single strip in each grid assembly, as determined by the positions of the nodes, will be above cut-off level allowing cathode-anode current to flow and luminance to be produced only at the intersection of the two strips. **Modulation** of the intensity of the luminance may be effected by signal applied either to the cathode or a grid assembly located between grid g2 and the anode. The ends of the grid strips opposite to the lines may be extended to provide marginal zones exposed to the cathode. The extensions then function to provide the diode action referred to above. This is particularly necessary in the **case** of grid g2 whose current is restricted by grid g1. If this feature is adopted, it is necessary, where cathode **modulation** is to be employed, to provide separate cathode filaments for the marginal zones insulated from the remainder of the cathode. Reference is made to the use of a pair of spaced wires connected together in place of each grid strip, and an arrangement in which only one grid is controlled by a line carrying a standing wave, the other being controlled by a switching device. The sharpness of the nodes may be improved by superimposing on the line standing waves at a higher harmonic frequency.

PN - [GB1101356](#) A 19680131

PR - GB19640018459 19640504

AP - GB19640018459 19640504

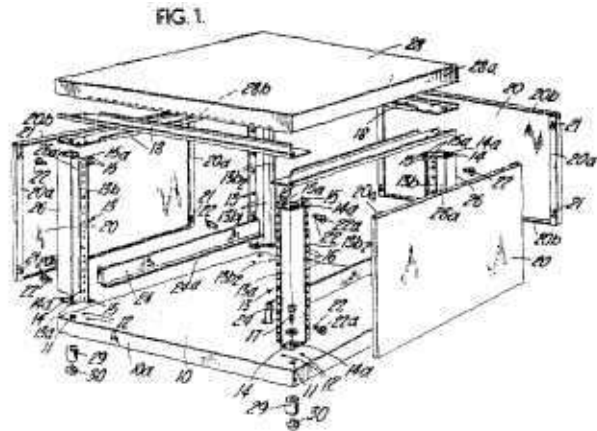
DT - **

CCI - [H05K5/04](#) ; [A47B47/03](#) ;
[H05K7/183](#)

PA - C & N ELECTRICAL LTD

TI - Improvements in or relating to structural members and arrangements, particularly for use with **modular** units of equipment

AB - 1,101,356. Mounting electrical equipment. C. & N. (ELECTRICAL) Ltd. 29 April, 1965 [4 May, 1964], No. 18459/64. Heading HIR. [Also in Divisions A4 and E1] A **cabinet** for **modular** electronic units, Fig. 1, comprises a sheet metal base 10 to each corner of which is bolted a vertical structural member 13. Each member 13 is formed of a first piece 13a of **right-angle section** with a second piece 13b of **W-section** welded or riveted thereto, the centre web of piece 13b embracing the outside of the angle of piece 13a, and the outer arms of piece 13b forming flanges (perforated at 16) which extend outward from the arms of piece 13a at about the mid-width thereof. Square fillets 14, 15, having bolt holes therethrough, close the ends of pieces 13a, 13b respectively; in an alternative embodiment a shingle-shaped fillet is provided at each end of members 13. Shelf-guides 24 are bolted to pieces 13b, and transverse channel- **section** members 18 are bolted to the fillets at the tops of members 13, and a lid 28 slides on to the structure; alternatively the members 18 are omitted and



their function is performed by an inward flange around the **lower** periphery of the lid 28. Side panels 20, which may be omitted where desired, comprise inner inward flanges 20a having key-hole slots 21 which engage the heads of bolts 22 secured in pieces 13b; alternatively, clip-on pieces 13b may engage flanges 20a. Corner skins 26 are slid over the members 13. Rubber feet 30 in the form of plugs or sleeves are attached to bushes 29 which are bolted to the base 10.

45/53 © EPODOC / EPO

- PN - [FR2796519](#) A1 20010119
- PNFP - FR2796519 B1 20030411
- PR - FR19990009377 19990716
- AP - FR19990009377 19990716
- DT - *; Rep
- CT - || STSE (A1)
[EP0872930](#) A2 19981021 [X] (SACE SPA [IT])
[X] 1-5,7-11,14
* the whole document *;
[US5194691](#) A 19930316 [X] (MCILWRAITH GEORGE [US])
[X] 1,13,14
* column 4, line 32 - column 5, line 26 *;
[US5202818](#) A 19930413 [XA] (BETSCH FREDERIC [FR], et al)
[X] 5,7-12
* column 3 - column 4 *
[A] 1;
[DE29723537U](#) U1 19980924 [A] (LOH KG RITTAL WERK [DE])
[A] 16
* page 2 - page 3 *
- CCI - [H02B1/301](#) ; [H02B1/308](#)
- CCA - [H02B1/013](#) ; [H02B1/014](#)
- PA - (A1 B1)
SOCOMECA SA [FR]
- TI - (A1)
Modular cabinet in kit form esp. for electronic control gear, has flat side- and end-panels, with access door, assembled on a basic angle-**section** frame
- AB - (A1)
The basic frame (2) comprises 4 uprights (3) interconnecting the corresponding corners of **top** and **bottom** rectangular frames, each assembled from 4 horizontal pieces (4). All

12 pieces are cut to length from identical hollow metal rail (30) presenting in cross-**section** a closed isosceles **right**-angled triangle, having its hypotenuse pressed in to form a shallow U-shaped profile (31), while the 90 deg. apex is slightly truncated. Opt., this cross-**section** is obtained as an e.g. aluminum extrusion. All the pieces are assembled with the truncated apex facing inwards diagonally into the **cabinet**, and the U-profile outwards, diagonally, and the main surfaces are regularly perforated to facilitate assembly and to provide support points for internally mounted cables and equipment. At each of the 8 corners the converging members are mutually united in a 3-way junction piece (40) in e.g. cast aluminum. The cladding panels (5,6,7,8) are screwed at intervals along each edge to mounting brackets (20) themselves screwed to the U-profiles. The mounting brackets (20) include hinge supports (26) receiving hinge-pins (92) and brackets (91) which complete the hinges for the front door (9). The door handle (90), on the door's opposite side, operates latches in the frame on that side. The **modules** can also be combined in sets of two or more to form wider **cabinets**.

46/53 © EPODOC / EPO

PN - [FR2265315](#) A1 19751024

PNFP - FR2265315 B1 19780623

PR - DE19740011141U 19740329

AP - FR19750009636 19750327

DT - *; Rep

CCI - [A47B47/03](#)

PA - (A1 B1)
SIEMENS AG [DE]

TI - (A1)
Instrument **cabinet** for dental surgery - **modular** contruction, built up from separate parts to suit individual requirements

AB - (A1)
Each sheet steel side piece (11, 12) comprises a flat face with flanged sides and edges (10, 21) at 90 deg. The spacer bars (16-19) are also made from sheet steel, fabricated in one piece from a blank formed by two rectangles, one longer than the other, joined along the common side. These are folded, on each other, to give a double thickness **right** angle **section**. The single thickness end tabs (18', 18'') of front and rear **top** spacers (16, 19) and the rear **bottom** (17) are welded beneath the side piece flanges, the front **bottom** (18) being screwed only. Vertical plates (23) are provided inside for positioning the drawer slides and runners.

47/53 © EPODOC / EPO

PN - [FR2245155](#) A5 19750418

PR - FR19730024185 19730702

AP - FR19730024185 19730702

DT - *; Rep

CCI - [A47B47/0083](#)

PA - DURAND ETABLISSEMENTS MAURICE [FR]

TI - Method of assembling **modular furniture** - involves sliding boxes into a frame from the

rear

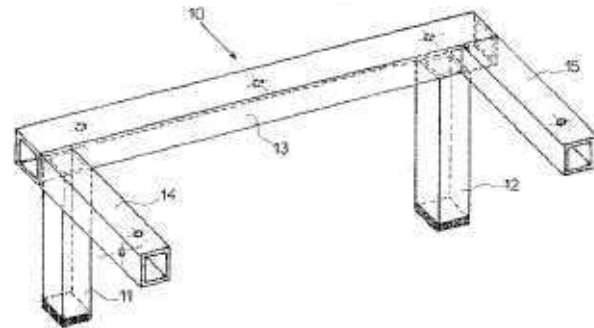
- AB - Sectionally built **furniture** pieces e.g. wardrobes, designed for rapid amateur assembly with a degree of versatility of finished appearance whilst utilizing standard units, comprise **right** angular frames (1 to 5) housing and supporting hollow **right** angular box elements (8, 9) which are assembled by sliding in horizontally from the rear in "inverse drawer" fashion, the foremost frame members having lips which conceal box (8, 9) edges. A typical wardrobe type, tall, elongated and narrow **furniture** piece has a solid **top** (5) with a **bottom** (3) and an intermediate (4) horizontal frame united by side frames (1, 2), this arrangement housing a shallow box unit (9) in the **top** and a deeper unit (8) in the **lower section**.

48/53 © EPODOC / EPO

- PN - [FR2850259](#) A1 20040730
PNFP - FR2850259 B1 20061201
PR - FR20030000814 20030124
AP - FR20030000814 20030124
DT - *; Rep
CT - || STSE (A1)
[FR1472872](#) A 19670310
[X] (CHARLES SCHNEIDER S A)
[X] 1-3
* the whole document *;
[FR1245042](#) A 19601104
[XA] (MEUBLES T V)
[X] 1
* the whole document *
[A] 2,3;
[GB2143122](#) A 19850206
[XA] (WARD JEFFREY GEORGE)
[X] 1,3
* page 2, line 31 - line 87;
figures 1-4 *
[A] 2

- CCI - [A47B13/06](#) ; [A47B91/005](#)
PA - (A1 B1)
EUROP DE VENTES ET DE PRESTATI
[FR]

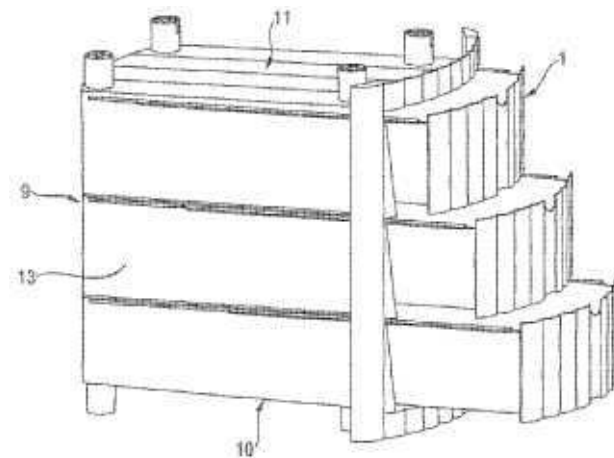
- TI - (A1)
Modular base for
metallic **furniture** comprises two
feet connected at **upper** end by
square **section** element extended
at each end by two transverse
square sections forming **right**
angle with each foot and
connecting element



- AB - (A1)
- The base is constituted from two feet (11,12) connected at their **upper** end by a square **section** element (13) with a length corresponding to the depth of the **furniture**. The element is extended at each end by two transverse square sections (14,15) forming a **right** angle with each foot and with the connecting element.

49/53 © EPODOC / EPO

- PN - [DE10154116](#) A1 20031009
- PR - DE2001154116 20011103
- AP - DE2001154116 20011103
- DT - *
- CCI - [B29C45/26](#) ; [A47B67/04](#) ; [A47B87/008](#) ; [B29C45/37](#)
- CCA - [B29C45/0025](#) ; [B29L2031/445](#) ; [B29L2031/446](#)
- PA - JELENIA PLAST SP ZO O [PL]
- TI - Molded plastic drawer to fit a plastic **cabinet** has side walls and front and rear walls angled towards each other in drawer base direction



- AB - The drawer(1) has two side walls (3) angled towards each other in the drawer base(2) direction. The drawer front(5) and rear wall(6) are also angled towards each other in the direction of the drawer base. Drawers are injection molded in one piece. The drawer front (5) and base(2) form a **right** angle between them. Both the front and base have a wave-form cross- **section** and the front is arched outwards. Independent claims are also included for: (1) a drawer **cabinet** with a plastic housing having one or more openings for drawers(1), side walls angled towards each other

in the direction of the housing rear end and a housing cover and base which are also angled towards each other in the direction of the back of the housing; (2) a **cabinet module** for arrangement alongside or on **top** of each other with feet in each corner of the housing cover and base having vertical connections for engaging stacked **cabinets** and horizontal connections for engagement with hooked ends of long connecting arms to prevent horizontal movement; (3) a tool with corresponding male and female parts for molding a drawer where each tool part has two adjacent walls forming a **right** angle and one wall is at a small angle to the tool opening direction.

50/53 © EPODOC / EPO

PN - [DE3116165](#) A1 19821111

PR - DE19813116165 19810423

AP - DE19813116165 19810423

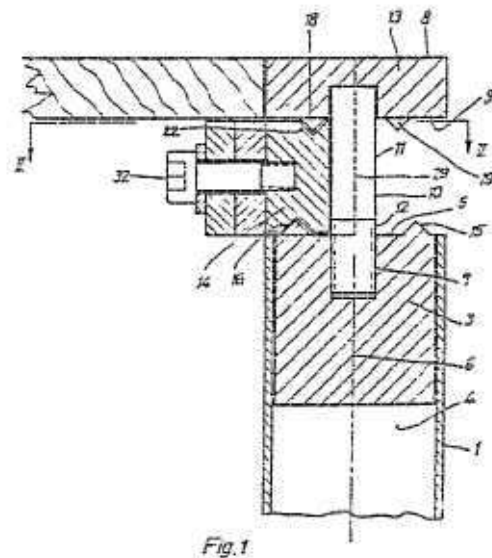
DT - *

CCI - [F16B12/48](#) ; [F16B12/14](#)

PA - HASCHER RAINER DIPL ING ARCHIT

TI - Connecting device for the **modular**-construction-type attachment of **furniture** parts and/or of fittings on a leg of a piece of **furniture**

AB - The invention relates to a connecting device for the **modular**-construction-type attachment of **furniture** parts, in particular a table **top**, and/or of fittings, e.g. a lamp, on a leg of a piece of **furniture**. The device has a fastening part (3) which can be anchored, expediently on the end side, on the leg (1) of the piece of **furniture** and has a first clamping surface (5), directed



away from said leg (1) in the mounted state, and a central threaded bore (7) which opens out at the first clamping surface (5) and extends at **right** angles thereto. The invention further provides a clamping part having a second clamping surface (9), which lies opposite, parallel to, and at a distance from the first clamping surface (5) in the mounted state, and having a threaded bolt (10) which projects centrally from the second clamping surface (9), is assigned to the threaded bore (7) and can be screwed into the latter. Furthermore, there is provided a connecting part which comprises, corresponding to the number of **furniture** parts and/or fittings to be attached, one or more separate connecting pieces (14) which are distributed in a segment-like fashion over the periphery and can be fastened on the respective **furniture** part or fitting. Said connecting part can be braced between the two clamping surfaces (5, 9) of the fastening part and of the clamping part. At least one of the two clamping surfaces (5, 9) has a centering protrusion (15) which runs around the periphery, is of annular configuration and has the connecting-device axis (6) as central point. The end face, directed towards the centering protrusion, of each connecting piece (14) has a centering groove (16), corresponding to the centering protrusion (15) in cross- **section** and radius and extending over the spandrel of the connecting piece, or vice versa. <IMAGE>

51/53 © EPODOC / EPO

- PN - [DE2605698](#) A1 19770825
- PR - DE19762605698 19760213
- AP - DE19762605698 19760213
- DT - *; Rep
- CCI - [G09F15/0012](#)
- PA - TEGTMEIER FRIEDRICH
- TI - **Modular** construction display **cabinet** - has interlocking components which provide facility for hinged glass doors and fixed panels
- AB - A **modulator** constructed display **cabinet** designed for ease of assembly has a facility for ready incorporation of a hinged glass access panel. The preformed **top section** (1) is profiled at the **left** hand edge to receive the hinge (3) locating fitting and the **right** hand edge to retain a fixed panel (6). The hinge (3) locates in a recess (1b) and a retaining force is applied by a set screw (12). Corner sections (4) each have a pin (13) that locates in the hole in the hinge. A main frame **section** (2) is secured to the corner sections and provide a location for a semi-flexible beading (10) that retains a glass panel (9). Fixed panels (6) are retained against a back strip (7) by stepped wedges (8).

52/53 © EPODOC / EPO

- PN - [CN2671864Y](#) Y 20050119
- PR - CN20032114344U 20031211
- AP - CN20032114344U 20031211
- DT - I
- PA - SHIDAI GROUP CO ZHUZHOU CITY [CN]
- TI - Novel electric locomotive auxiliary variable flow screen **cabinet**
- AB - Disclosed is a new auxiliary variable flow screen **cabinet** for electric locomotive. The plate girder assembly structure is adopted as the integral structure form of the variable flow screen **cabinet**. Standard **section** joints and standard **section** beams of cast zinc alloy (also can be replaced by cast steel alloy) are adopted by the internal skeleton of the **cabinet** to be assembled and welded to form a basal body skeleton. With the technique of the conductive foam-rubber, a **left** and a **right** side board are **module**-processed by the assembly-fixing mode to obtain the effect of sealing and electromagnetic shielding. The conductive electromagnetism-shielded foam-rubber being adopted by the side board and a door structure, the conductivity-shielded material being also added at a front door and the center joint line, the whole inner of the **cabinet** is shielding-structured. All the internal components with mechanical structure are redesigned, and processed according to the requirements of the industrial **module** standard to facilitate the installation with the basal body skeleton. Internal **module** mounting boards, whose middle are equipped with reinforcing ribs, are fixed by the instead mode of the **modular** mounting-mode to considerably abate the weight. A control box at the **top** is designed as an electromagnetism-shielded area isolated from the external. An **upper** control cavity is confined by a baffle board and the side board to obtain an isolated cavity. The front end of a middle **module** cavity is added with a fender board to serve the function of electromagnetic shielding as well as

high-pressure electric-shock preventing.

53/53 © EPODOC / EPO

PN - [BE1011644](#) A6 19991109

PR - IT1997PN00015U 19970310

AP - BE19980000163 19980303

DT - *

CCI - [E06B5/006](#)

PA - ALTA SPA [IT]

TI - System for opening small drawers, flaps, and similar, particularly suited to **modular furniture**

AB - The invention concerns a system for opening small drawers, flaps, and similar, particularly suited to **modular furniture**. The system is characterised in that the front edge (111) of the **lower** panel (11) is the **bottom** of a suspended piece of **furniture**, and a profiled **section** (3) is applied in more or less an L shape, a first side (31) of which is fixed to the front edge (111) and a second side (32) extends in a **right** angle direction from one end of the first side (31).<IMAGE>