



New connection on: : 14-07-2017 : 16:43:26 - Last disconnection on: : 14-07-2017 : 16:24:18

V 4.0.0.43847(LP,U,linux) (Rev:41675 2016-01-15 13:33:59 +0100#(D201706)) (RPM D201706)

Welcome to EPOQUE Rebuild under the Production Environment

[EPODOC: SS 2] ..fi

Select a database: ..FI EPODOC

Database: EPODOC

Records: 104.553.774

Terms: 1.463.770.055

Occurrences: 20.485.124.384

Last Update: 20170712

[EPODOC: SS 2] access and ladder and vehycle

Results in EPODOC 0

[SS 3] access and ladder

Results in EPODOC 1.413

[SS 4] vehycle and ladder

Results in EPODOC 0

[SS 5] machine and access and ladder

Results in EPODOC 56

[SS 6] ../ ic E02F9/00

Unknown command or preparation. [More info](#) ERROR(-104000)

[SS 6] /ic E02F9/00

Results in EPODOC 13.671

[SS 7] 6 and 5

Results in EPODOC 0

[SS 8] SWING AND TYPE AND ACCESS AND SYSTEM AND EARTH MOVER

Results in EPODOC 0

EPODOC: term 'EARTH MOVER' not found in index 'BI'. WARNING(1)

[SS 9] ACCESS AND SYSTEM AND EARTH MOVER

Results in EPODOC 0

EPODOC: term 'EARTH MOVER' not found in index 'BI'. WARNING(1)

[SS 10] ACCESS AND SYSTEM AND EARTH AND MOVER

Results in EPODOC 4

[SS 11] SWING AND TYPE AND ACCESS AND SYSTEM AND EARTH AND MOVER

Results in EPODOC 4

[SS 12] 5 AND 11

Results in EPODOC 0

[SS 13] 5

Results in EPODOC 56

[SS 14] ..LI

1/56 © EPODOC / EPO

- PN - [CN205936987U](#) U 20170208
- PR - CN20162969252U 20160827
- AP - CN20162969252U 20160827
- DT - I
- PA - WUXI BAOYE MACHINERY MFG CO LTD
- TI - Blade measuring force device for aerogenerator
- AB - The utility model relates to a blade measuring force device for aerogenerator, measuring force device installs at the blade of wind -powered electricity generation **machine** and becomes between the oar bearing inner race, measuring force device is including the installation shell, installation shell both ends set up flange, the last connecting hole of evenly seting up of flange, set up the collar in the installation shell, set up the proving ring on the collar, the proving ring electricity is the one -way pressure sensor that draws even, the installation is located in the shell and sets up the shrouding on the

proving ring, upward set up the **access** door on the shrouding, **access** door one side sets up the maintenance cat **ladder**, overhauling the cat **ladder** lower extreme and passing through the welded plate welding in the installation shell, upper end and connecting rod pass through bolted connection, and the connecting rod other end passes through the bolt fastening on last shrouding, blade stress is collected to the blade measuring force device for aerogenerator detectable to carry out the actual motion operating mode of analysis air -out motor, guarantee the normal operating of wind -powered electricity generation **machine**.

2/56	© EPODOC / EPO
PN	- RU2604763 C1 20161210
PR	- RU20150140735 20150924
AP	- RU20150140735 20150924
DT	- I
CNOI	- B66C5/02
PA	- KRASNOV NIKOLAJ TITOVICH [RU]
TI	-METHOD OF SINGLE-PIECE/MULTI-UNIT FUEL FILLING STATION VERTICAL UNITS ARRANGEMENT AND INSTALLATION BY SCREW EMBEDMENT
AB	-FIELD: machine building.SUBSTANCE: invention relates to fuel filling stations (FFS) with possibility of operation in automatic mode without operator. Single-piece/multi-unit FFS one or more unit layout consists in these units vertical structure mounted and prepared for operation by their “just-in-time” screw embedment. As FFS unit base along entire unit from FFS foundation to upper elevation vertical central hollow cylinder is arranged, which is closed from above with top cover, along cylinder length two or more transverse partition walls and tightly closed bottom are arranged. Around central cylinder upper part, from top cover to first transverse partition wall, upper reservoir containing one or more compartments is placed. From above on FFS unit reservoirs service platform with fencing is arranged, on its floor are located: inspection hatch, breather valves outlets, detachable lightning rod, antennae, automation and fire extinguishing equipment, and attaching platform access ladder to unit side. In central cylinder central part process compartment is arranged, comprising: reservoirs compartments filling lines without pumps or with pressure-type pumps, fuel distribution lines without pumps or with pumps, water separating filters. Outside along process compartment periphery fuel compartments-terminals are located with fuel filling guns hoses and payment terminals. Central cylinder lower part, which is separated from process compartment by second partition, is made

of bearing and embedded part of FFS unit, which simultaneously is lower liquid fuel storage and/or its emergency discharge reservoir. FFS unit lower part bottom is made in form of a sealed conical tip with helical ribs-blades, rigidly fixed on its surface and continued upwards to cylinder surface to mark, defined by design unit embedment. To increase FFS unit vertical stability, at its embedment level horizontal alignment plate is installed, which is rigidly attached to unit external part so, that plate simultaneously was part of road surface, or said stability is provided without centering plates installation due to structure of elements, fixing adjacent FFS units.EFFECT: enabling improvement of FFS configuration and assembly.19 cl, 1 dwg

3/56 © EPODOC / EPO

PN - [CN205637093U](#) U 20161012
PR - CN20162369931U 20160428
AP - CN20162369931U 20160428
DT - I
PA - JIANGSU ZHONGXING WATER SERVICE CO LTD
TI - Integration pump station with scrubbing, ventilation and illumination function

AB - The utility model provides one kind has the scrubbing, the integrated pump station of ventilation and illumination function, the novel nipple rectifier comprises a cylindrical shel, overhaul the platform, the cat **ladder**, the outlet pipe, the inlet tube, the submersible sewage pump, manhole and handhole door, hole for hoist and handhole door, comminuted grating de -dirt **machine**, the ventilation pipe, the light, the cable conductor goes out the spool, the ventilation pipe top at barrel top has big cap, cap upper portion is dull and stereotyped, there are many ventholes the lower part, there is the inlet tube barrel side, the outlet pipe, inlet tube department installs comminuted grating de -dirt **machine**, there is the water channel who overflows the side fence and enclose between inlet tube and the comminuted grating de -dirt **machine**. Be equipped with the light in the integration pump station, the easy **access** personnel get into the pump station and examine and repair, integration pump station hole for hoist wall mounting has the cable conductor to go out the spool. Through the utility model discloses, make the convenient clearance of integration pump station, the automatic clear peculiar smell, area illumination certainly, prevent still in the time of the ventilation that the rainwater from spattering the pump station in, the water pump cable conductor of being convenient for is passed in and out.

4/56 © EPODOC / EPO

PN - [CN205621088U](#) U 20161005

PR - CN201521088914U 20151225

AP - CN201521088914U 20151225

DT - I

PA - RONGCHENG SMART CITY INFORMATION TECH CO LTD

TI - Gate inhibition system

AB - The utility model discloses a gate inhibition system relates to input port or delivery outlet logger technical field alone. Including networking controller, be connected through interface module between networking controller and the **access** control ware for carry out two -way data interaction between the two, the lock accuse signal output part of **ladder** way **machine** with the signal input part of **access** control ware connects, electric control lock and electric control lock power are controlled by respectively **access** control ware and **ladder** way **machine**, **access** control ware and **ladder** way **machine** get electricly or lose the electricity, the action of unblanking through control electric control lock power control electric control lock. The interface protocol of system through providing uniform standard makes the product of different producers reach the higher authorities into comprehensive compatibility in entrance guard's function to establish the unified data interface of backstage management system, the standardization that realizes entrance guard's data is convenient for realize in the future with unitized that complex system is integrated from this.

5/56 © EPODOC / EPO

PN - [CN205545656U](#) U 20160831

PR - CN20162310495U 20160414

AP - CN20162310495U 20160414

DT - I

PA - SHANGHAI JINYI INTELLIGENTTECH CO LTD

TI - Building visual intercom system

AB - The utility model discloses a building visual intercom system, including POE power module, keyboard, indoor extension, villa gate **machine**, quick -witted, the central management **machine** of **ladder** way, voice module, display screen, camera, audio frequency module and alarm module. The utility model discloses building visual intercom system mainly includes indoor extension, **ladder** way **machine**, center management **machine**, villa gate **machine** etc, the indoor extension of user's accessible is had **access** to community's internal control, **ladder** way personnel and is visited video, and facilitating function such as the effectual burglar alarm that has integrateed, background music, elevator calling. The product design is basic to be adopted advance three -layer exchange network

deployment mode, provides visit mutually simultaneously between user and user, user and the **ladder** way **machine** in the TCPIP digital network framework, and when adopting the design of distributed data effectively to ensure the platform software trouble, functions of the equipments are not influenced.

6/56 © EPODOC / EPO

- PN - [CN205444982U](#) U 20160810
- PR - CN20162228594U 20160323
- AP - CN20162228594U 20160323
- DT - I
- PA - CHINA NAT OFFSHORE OIL CORP; TIANJIN BRANCH OF CHINA NAT OFFSHORE OIL CORP
- TI - Rely on newly -increased accommodation module of marine fixed platform life building
- AB - The utility model discloses a rely on newly -increased accommodation module of marine fixed platform life building, including parallel **ladder access** module and accommodation module, be equipped with stair in the **ladder access** module, the **ladder access** module is equipped with the corridor door with platform life building path connection, accommodation module includes the parallel standard life unit of arranging of a plurality of successive layers the standard life unit and one side that the **ladder access** module is adjacent is equipped with unit door. The utility model discloses adjacent with platform life building, communicate with each other, but near the unoccupied space in make full use of platform life building, and the life is convenient, comfortable. Accommodation module comprises the standard life unit that a plurality of volumes are less, weight is lighter, and simple structure is unified, and build on the land of being convenient for, utilize the platform loop wheel **machine** just can accomplish marine installation, construction cost is lower. Be equipped with the **ladder access** module of mutual intercommunication with platform life building, be convenient for personnel's life and official working. Therefore, the utility model discloses low -cost, solved the problem of the comfortable lodging of the platform production person of increasing for ever.

7/56 © EPODOC / EPO

- PN - [CN205224782U](#) U 20160511
- PR - CN20152832171U 20151026
- AP - CN20152832171U 20151026
- DT - I
- PA - NINGXIA JINXIU IND CO LTD
- TI - Fly ash repository

AB - The utility model provides an extensive unified the storage that the large -scale fly ash repository of, the purpose is in order to realize fly ash to the convenient unified control allotment of putting in storage, leaving warehouse fly ash reduces fly ash storage device manufacturing cost. Constitute by the storehouse body, **access** path, pan feeding device, main discharge apparatus and supplementary discharge apparatus, the cylinder type structures that form are built by reinforced concrete and steel construction to the storehouse body, divide bottom of the reservior, a core section of thick bamboo, ku bi and storehouse top four bibliographic categories branch, the pan feeding device is evenly laid along the external side in storehouse, main discharge apparatus includes lifting **machine**, conveyer and discharging device, supplementary discharge apparatus fixed mounting is in the storehouse of the storehouse body wall outside, along the fixed maintenance cat **ladder** that sets up in the storehouse wall outside. Beneficial effect lies in: the scale is big, and the storage capacity is big, adopt reinforced concrete main part structure, it is low to consume the steel volume, and structural strength is high, unload from storehouse body middle part, the occupation of land space is little, and the raise dust is little, the supplementary design of unloading reduces the energy consumption.

8/56 © EPODOC / EPO

PN - [CN205179260U](#) U 20160420

PR - CN201521008344U 20151208

AP - CN201521008344U 20151208

DT - I

PA - CHONGQING COLLEGE ELECT ENG

TI - Visual **ladder** way of intelligence **machine**

AB - The utility model discloses a visual **ladder** way of intelligence **machine**, include microprocessor, audio input output module, video input output module, **access** control module, power module, LED display and unblank the module, microprocessor is connected with audio input output module, video input output module and **access** control module both -way communication respectively, microprocessor is respectively with power module, LED display with unblank module one -way communication and be connected. The utility model discloses the security is higher, and is with better function, is fit for popularizing and applying.

9/56 © EPODOC / EPO

PN - [CN204940977U](#) U 20160106

PR - CN20152670168U 20150901

AP - CN20152670168U 20150901

DT - I

PA - HUANGHE S & T COLLEGE

TI - One -way car **ladder** cage that moves

AB - The utility model discloses an one -way car **ladder** cage that moves, the car elevator is carried to two parking stalls of installing in parking building elevator lift/lower passageway, the one -way car **ladder** cage that moves bottom is connected on the underspin turntable support of car elevator is carried to two parking stalls, and the one -way car **ladder** cage that moves middle part is equipped with and shifts up the car platform, and the one -way car **ladder** cage that moves bottom is equipped with and moves down the car platform, and upper and lower moving all is equipped with the car **machine** that moves on the car platform, move and be equipped with the vehicle on the one -way car **ladder** cage that moves of car **machine** one side and import and export, one -way car **ladder** cage that moves is frame construction. Use the utility model discloses, two cars once can all be transported to the every operation of elevator, have improved the efficiency of **access** vehicle greatly, shorten **access** time, the person of facilitating the use. The utility model discloses simple structure is convenient for make and is installed and use, can rotate in a flexible way down in the drive that the jar was swung to hydraulic pressure to aim at different parking positions, and be written into the vehicle or see off the elevator by moving the car **machine**.

10/56 © EPODOC / EPO

PN - [CN204920397U](#) U 20151230

PR - CN20152669739U 20150901

AP - CN20152669739U 20150901

DT - I

PA - HUANGHE S & T COLLEGE

TI - Car elevator is carried to two parking stalls

AB - The utility model discloses a car elevator is carried to two parking stalls installs in the elevator lift/lower of parking building passageway, all is equipped with a plurality of parking platform around the elevator lift/lower passageway on each floor board of parking building, car elevator is carried to two parking stalls is double -deck and sets up, and the interval of attending between the lower floor in the car elevator is carried to two parking stalls is the same with the interval between the adjacent floor board, car elevator is carried to two parking stalls one side is equipped with the vehicle and imports and exports, and car elevator is carried to two parking stalls upper strata and car elevator is carried to two parking stalls lower floor all import and export with this vehicle and communicate with each other. The elevator is attend the lower floor and is equipped with the car **machine** that moves respectively. The

utility model discloses in, two cars once can all be transported to the every operation of car elevator is carried to two parking stalls, and the design of this kind one two cars of **ladder** has improved the efficiency of **access** vehicle greatly, shortens **access** time.

11/56 © EPODOC / EPO

- PN - [CN204876711U](#) U 20151216
- PR - CN20152669474U 20150901
- AP - CN20152669474U 20150901
- DT - I
- PA - HUANGHE S & T COLLEGE
- TI - Two -way car **ladder** cage that moves
- AB - The utility model discloses a two -way car **ladder** cage that moves, the car elevator is carried in the two -way rotation of installing in parking building elevator lift/lower passageway, the two -way car **ladder** cage that moves bottom is connected on the underspin turntable support of car elevator is carried in two -way rotation, and the two -way car **ladder** cage that moves middle part is equipped with and shifts up the car platform, and the two -way car **ladder** cage that moves bottom is equipped with and moves down the car platform, and upper and lower moving all is equipped with the car **machine** that moves on the car platform, move and all be equipped with the vehicle on the two -way car **ladder** cage that moves of both sides around the car **machine** and import and export, two -way car **ladder** cage that moves is frame construction. Use the utility model discloses, two cars once can all be transported to the every operation of elevator, have improved the efficiency of **access** vehicle greatly, shorten **access** time, the person of facilitating the use. The utility model discloses in be equipped with the vehicle respectively in two -way car **ladder** cage that moves relative both sides and import and export, can reduce the rotation angle of terraced cage, improve parking efficiency and reduce the rotatory required energy consumption of terraced cage.

12/56 © EPODOC / EPO

- PN - [US2015211208](#) A1 20150730
- PNFP - US9347201 B2 20160524
- PR - US201514681129 20150408
- AP - US201514681129 20150408
- DT - *; Rep
- CT - || STSE (B2)
[US221111](#) A 18791028 []
[US383588](#) A 18880529 []
[US517282](#) A 18940327 []
[US808076](#) A 19051226 [] (FELKNER WILLIAM G [US], et al)

[US5064022](#) A 19911112 [] (GRAHAM GEORGE W [US])
[US2013202395](#) A1 20130808 [] (LEVI AVRAHAM Y [US])
[US2014239609](#) A1 20140828 [] (ROBERTSON TIMOTHY D [US])
[US2015224936](#) A1 20150813 [] (KICHLINE JR JOHN L [US], et al)
- || R141 (A1)
[US2211111](#) A [];
[US383588](#) A [];
[US517282](#) A [];
[US808076](#) A [];
[US5064022](#) A [];
[US2013202395](#) A1 [];
[US2014239609](#) A1 [];
[US2015224936](#) A1 []

CCI - [B60R3/02](#) ; [E02F9/0833](#)

PA -(A1)
CATERPILLAR GLOBAL MINING HMS GMBH [DE]
-(B2)
CATERPILLAR GLOBAL MINING HMS GMBH [DE];
CATERPILLAR GLOBAL MINING LLC [US]

TI -(A1 B2)
EMERGENCY EGRESS SYSTEM FOR A
CONSTRUCTION **MACHINE**

AB -(A1 B2)
An emergency egress system with an **access** panel assembly, a latch assembly, a handle assembly, a fixed **ladder** portion, and a slidable **ladder** portion, is disclosed. The **access** panel assembly includes a door panel. The latch assembly and the handle assembly are attached to the door panel. The handle assembly has a holding portion that works in conjunction with the latch assembly that has a wing portion. The holding portion is manipulable to rotate the latch assembly in the locked position to hold the fixed **ladder** portion and the slidable **ladder** portion together via the wing portion, which is to maintain the door panel in the closed position. The holding portion is manipulable to rotate the latch assembly to the unlocked position to allow the wing portion to rotate and release the slidable **ladder** portion for exit.

PN - [CN204199765U](#) U 20150311

PR - CN20142537132U 20140918

AP - CN20142537132U 20140918

DT - I

PA - JIULONG JU HAI INDUSTRY & TRADING CO LTD

TI - Novel movable self-service silver kiosk

AB - The utility model discloses a novel movable self-service silver kiosk which comprises a movable base and an automatic telling **machine**. The automatic telling **machine** is fixed to the movable base, pulleys are arranged at four corners of the movable base, and a sunshade is arranged at the top end of the automatic telling **machine**. The novel movable self-service silver kiosk is characterized in that an **access ladder** opening is formed in the movable base, an **access ladder** groove is formed in the **access ladder** opening and comprises a groove-shaped chute, a chute stop block is arranged at the outer end of the groove-shaped chute, a **ladder** is connected to the inside of the chute, a **ladder** stop block is arranged at the inner end of the **ladder** and corresponds to the chute stop block. The novel movable self-service silver kiosk is simple in structure and convenient to install and can be arranged at the road section with large passenger volume, and the position of the automatic telling **machine** can be changed with change of the passenger volume. Therefore, the problem of investment cost increase caused by construction can be decreased.

14/56 © EPODOC / EPO

PN - [US2014318892](#) A1 20141030

PR - US201313873493 20130430

AP - US201313873493 20130430

DT - *; Rep

CT - || R141 (A1)
[US748305](#) A [];
[US3025923](#) A [];
[US3030166](#) A [];
[US3601220](#) A [];
[US3869022](#) A [];
[US3946833](#) A [];
[US4463829](#) A [];
[US5538100](#) A [];
[US6012545](#) A [];
[US6431093](#) B1 [];
[US6578664](#) B1 [];
[US2003127284](#) A1 [];
[US2005167196](#) A1 [];
[US2006011416](#) A1 [];
[US7017709](#) B1 [];
[US2006108179](#) A1 [];
[US2006272896](#) A1 [];
[US2010090517](#) A1 [];
[US2010116590](#) A1 [];
[US2012090919](#) A1 [];
[US8607930](#) B2 [];
[US3866356](#) A []

CCI - [E06C5/22](#) ; [E06C7/182](#)

PA - CATERPILLAR INC [US]

TI - MANUALLY POWERED LINKAGE **LADDER**

AB -A four-bar linkage **ladder** is used to provide **access** to the cab of a mobile **machine**. The **ladder** is light enough for manual operation and may include a spring assembly, but avoids the need for the electric, pneumatic, or hydraulic actuators of prior art moveable ladders. The **ladder** swings from bumper height to an ergonomically desirable height for **access** and egress and allows passage over uneven terrain without ground contact.

15/56 © EPODOC / EPO

PN - [CN203767336U](#) U 20140813

PR - CN2014213476U 20140109

AP - CN2014213476U 20140109

DT - I

PA - QM EQUIP RES INST DEPT PLA

TI -Subsidiary food semi-finished product processing square cabin

AB -The utility model relates to a subsidiary food semi-finished product processing square cabin. The subsidiary food semi-finished product processing square cabin comprises a cabin body, wherein the cabin body consists of a frame, a front cabin wall, a rear cabin wall, an upper cabin wall and two side walls; two forklift holes are formed in the frame; an H-shaped support is arranged on the front cabin wall; a pull sleeve is arranged on a cross beam of the front cabin wall; a reverse turning plate lock is arranged on each side wall; a plurality of floor stands are also arranged on each side wall; a spirit level is arranged on the bottom frame of one side wall; leveling devices are arranged at two ends of the bottom frames of the front cabin wall and the rear cabin wall; an **access** door is formed in the rear cabin wall; a fixed **ladder** is arranged at one side of the rear cabin wall; a small door is formed in the other side of the rear cabin wall; rolling wheels are arranged at two ends of the bottom frame of the rear cabin wall; the cabin body is divided into two separation rooms; a vegetable cutter, a pork rib cutter, a leafy vegetable washing **machine**, a tuber vegetable washing **machine**, a water tank and a meat cutting and grinding **machine** are arranged in one separation room; a plurality of wall cupboards are arranged on the upper cabin walls of the cabin bodies of the separation rooms; a plurality of floodlights are arranged among the wall cupboards; a water treatment device, a distribution box, an air compressor and a water tank are arranged in the other separation room.

16/56 © EPODOC / EPO

PN - [CN103850268](#) A 20140611

PR - CN20121502518 20121130

AP - CN20121502518 20121130

DT	-	I
PA	-	SUN DAYONG
TI	-	Basement smoke exhausting machine room
AB	-	The invention discloses a basement smoke exhausting machine room. In order to achieve the goal, the technical scheme adopted is as follows: the basement smoke exhausting machine room comprises a basement (1), a basement top plate (2), a basement base plate (3), a smoke exhausting machine room (4), a smoke exhausting machine room partition wall (5), a smoke exhausting machine room floor (6), a smoke exhausting machine room access door (7) and a smoke exhausting machine room crawling ladder (8). The basement smoke exhausting machine room has the advantages that the floor area of the smoke exhausting machine room can be used for other purposes with such a structure, the building area can be saved, the investment and manufacturing costs can be saved, and the fire protection specifications and requirements can be meet.

17/56 © EPODOC / EPO

PN	-	CN103787002 A 20140514
PNFP	-	CN103787002B B 20160210
PR	-	CN2014110049 20140109
AP	-	CN2014110049 20140109
DT	-	I
CT	-	STSE (A) CN202077836U U 20111221 [A] (FUSHENG TANG) [A] CN202320047U U 20120711 [A] (CENTECH SPECIALTY VEHICLES CO LTD) [A] JP2001039209 A 20010213 [A] (CLEAN LIFE KK) [A] CN203767336U U 20140813 [R] (QM EQUIP RES INST DEPT PLA) [R] JPH09277870 A 19971028 [A] (FRUEHAUF JAPAN) [A] CN102233840 A 20111109 [A] (LIJUN MA) [A] CN201659917U U 20101201 [A] (HENAN HUAYANG EQUIPMENT MFG CO LTD) [A] JP2000344000 A 20001212 [A] (CHUSA HAJIME) [A] CN203097327U U 20130731 [A] (WANG JINGDONG) [A] KR20030085956 A 20031107 [A] (SON YOUNG SUK [KR]) [A]

PA - (A)
QM EQUIP RES INST DEPT PLA

TI -(A)
Square cabin for processing non-staple food semi-finished products

AB -(A)
The invention relates to a square cabin for processing non-staple food semi-finished products. The square cabin comprises a cabin body composed of a frame, a front cabin wall, a rear cabin wall, an upper cabin wall and two side walls. Two forklift holes are formed in the frame, an H-shaped support is arranged on the front cabin wall, and a pull sleeve is arranged on a crossbeam of the H-shaped support. A flap lock is arranged on each side wall, and a plurality of floor stands are arranged on each side wall. A spirit level is arranged on a bottom frame of one side wall. A leveling device is arranged at each of two ends of bottom frames of the front cabin wall and the rear cabin wall. The rear cabin wall is provided with an **access** door, a fixed **ladder** is arranged on one side of the **access** door, a small door is arranged on the other side of the **access** door, and rollers are arranged at both ends of the bottom frame of the rear cabin wall. The cabin body is internally divided into two isolation compartments, and a vegetable cutter, a pork rib chopping **machine**, a leaf vegetable washer, a rhizome vegetable washer, a water tank and a meat slicing and mincing **machine** are arranged in one isolation chamber. A plurality of wall cupboards are arranged on the upper cabin wall of the cabin body of the isolation chambers, and a plurality of illuminating lamps are arranged among the wall cupboards. A water treatment device, a distribution box, an air compressor and a water tank are arranged in the other isolation chamber.

18/56 © EPODOC / EPO

PN - [CN203544154U](#) U 20140416

PR - CN20132722701U 20131115

AP - CN20132722701U 20131115

DT - I

PA - ZOOMLION HEAVY IND SCI & TECH

TI - **Access** door for engineering **machine** and road roller

AB - The utility model discloses an **access** door (2) for an engineering **machine**. A step **ladder** is arranged on the inner wall surface of the **access** door (2). According to the **access** door for the engineering **machine**, the step **ladder** is arranged on the inner wall surface of the **access** door, and after the **access** door is opened and turned downwards, the inner wall surface provided with the step **ladder** is exposed, so that the distance between the

step **ladder** and the ground is reduced, and climbing of a serviceman is more convenient. After maintenance is completed, the **access** door is turned upwards to cover an **access** opening, the step **ladder** is located in the **access** opening in the normal state, external space of a **machine** body is not occupied, and the appearance of the **machine** body is beautified. The utility model further provides a road roller.

19/56 © EPODOC / EPO	
PN	- CN103590305 A 20140219
PR	- CN20131581879 20131120
AP	- CN20131581879 20131120
DT	- I
CT	- STSE (A) DE3139268 A1 19830421 [A] (DRUEBENBACH GEB GOERTS, et al) [A] 1 * 全文 *; CN2530736Y Y 20030115 [A] (XINXIANG VIBRATION MACHINERY P [CN]) [A] 1 * 全文 *; CN2574780Y Y 20030924 [Y] (ZHOU XINMIN [CN]) [Y] 1 * 说明书第2页24行至第3页13行、图1-3 *; CN202247601U U 20120530 [A] (3RD ENG GROUP CO LTD CN RAIL, et al) [A] 1 * 全文 *; CN103008230 A 20130403 [Y] (HENAN TAIHANG VIBRATING MACH) [Y] 1 * 说明书第37段、图1-2 *; CN203602994U U 20140521 [R] (HENAN TAIHANG VIBRATING MACH) [R] 1 * 权利要求1 *
PA	- HENAN TAIHANG VIBRATING MACH
TI	- High-temperature stone screening machine of asphalt mixing plant
AB	- The invention discloses a high-temperature stone screening machine of an asphalt mixing plant. The high-temperature stone screening machine comprises a vibrating screen of which the periphery is provided with a dust-proof box, wherein an insulating layer is fixed on the outer surface of the dust-proof box, a circle of guardrails are arranged at the top periphery of the dust-proof box upwards, a ladder stand is arranged on the end side of a feed inlet of the vibrating screen, two ends of the vibrating screen are respectively provided with access doors, a front observation window and a

rear observation window are arranged on two sides of the vibrating screen respectively, a pair of synchronous exciters are arranged above a sieve box of the vibrating screen through the dust-proof box, and two motors which drive the two synchronous exciters respectively are arranged on the dust-proof box by a rack. The high-temperature stone screening **machine** disclosed by the invention can greatly reduce heat losses of materials while screening, and further can reach requirements of lowering cost, saving energy and protecting environment.

20/56 © EPODOC / EPO

- PN - [CN203387630U](#) U 20140108
- PR - CN2013276293U 20130219
- AP - CN2013276293U 20130219
- DT - I
- PA - FUJIAN YOUKE COMM TECHNOLOGY
- TI - Building intercom system based on IP technology and IMS network
- AB - The utility model relates to the field of building intercom system and particularly to a building intercom system based on an IP technology and an IMS network. The building intercom system is characterized by comprising a SIP terminal, an indoor **machine** and a **ladder** port **machine**; the SIP terminal is connected into an IMS network via a SIP protocol, and the indoor **machine** and the **ladder** port **machine** are connected to the IMS network via an IP **access** network; an indoor **machine** configuration file is disposed in the indoor **machine**, a **ladder** port configuration file is disposed in the **ladder** port **machine**, and the **ladder** port **machine** is connected with a door lock. According to the building intercom system based on the IP technology and the IMS network, a standard SIP/RTP/RTSP protocol is adopted by the **ladder** port **machine** and the indoor **machine**, the system is more open, and interconnection and intercommunication are benefited.

21/56 © EPODOC / EPO

- PN - [CN203342077U](#) U 20131218
- PR - CN20132364959U 20130624
- AP - CN20132364959U 20130624
- DT - I
- PA - UNIV HARBIN MEDICAL
- TI - Health and epidemic prevention spray disinfection **machine**

AB - A health and epidemic prevention spray disinfection **machine** comprises a vehicle body of a motor vehicle, and is characterized in that a disinfectant box is mounted on the vehicle body; a submersible pump is mounted in the disinfectant box; an outlet of the submersible pump is connected with atomization sprayers by a liquid outlet pipeline; and a liquid adding port is formed in the disinfectant box. An **access ladder** is arranged on one side of the disinfectant box. The **machine** has the benefits that the large motor vehicle carries the disinfectant box, the amount of a carried disinfectant is large, since the liquid adding port is formed in the disinfectant box, the disinfectant is convenient to add, and the **machine** is applicable to extensive spray disinfection.

22/56 © EPODOC / EPO

PN	- AU2012204037 A1 20130314
PNFP	- AU2012204037B B2 20150423
PR	- US201113222331 20110831
AP	- AU20120204037 20120709
DT	- I
CT	- STSE (B2) US4014486 A 19770329 [] (NELSON NEAL A, et al)
CCI	- B60R3/02 ; E06C5/04 ; E06C5/20
PA	- (A1 B2) CATERPILLAR INC
TI	- (A1 B2) Machine access device

AB	-(A1 B2) Abstract MACHINE ACCESS SYSTEM An access device for a mobile machine that includes a platform, an upper, fixed position ladder extending downward from the platform, and a lower ladder pivotally connected to a lower end of the upper ladder , the lower ladder having a rail arm that extends from a rear face of the lower ladder that is connected to a push arm that extends above the platform, wherein a downward force on the push arm pivots the lower ladder from a lowered to a raised position. A latch mechanism may be provided on the push arm, the push arm connected to a pivoting striker arm such that downward movement of the push arm causes the striker arm to pivot upward to engage the latch. cov co~
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23/56 © EPODOC / EPO

PN	- JP2013032162 A 20130214
PNFP	- JP5828831B B2 20151209
PR	-AU20050906765 20051202; AU20060903004 20060602
AP	- JP20120253040 20121119

DT	-	I
CCI	-	B60R3/02 ; E02F9/0833 ; E06C5/02 ; E06C7/181
FI	-	B60R3/00
FT	-	3D022/AA01; 3D022/AC10; 3D022/AD01; 3D022/AD10; 3D022/AE09; 3D022/AE10
PA	-	(A) BARJOH PTY LTD
TI	-	(A) ACCESS DEVICE
AB	-	(A) PROBLEM TO BE SOLVED: To provide an access system (10) for an earth-moving machine that includes a stair or a ladder for the earth-moving machine that people can move from a ground surface to an elevated position and store the stair and the ladder to the position that is outside of the hatch of the vehicle and does not disturb for access the hatch area. -SOLUTION: The access device includes: an access means (20) installed in the earth-moving machine through a pivot shaft; and a retraction mechanism (50) for an access means. The access means becomes storable through a composite angle from the position developed downward and outward by the pivot-shaft to the retracted position that roughly adjacent side of the vehicle and align The access means can become collapsible by a step (30) being pivotally installed to the side part of the access means through a sub-pivot shaft (62) . -COPYRIGHT: (C)2013,JPO&INPIT -PROBLEM TO BE SOLVED: To provide an access system (10) for an earth-moving machine that includes a stair or a ladder for the earth-moving machine that people can move from a ground surface to an elevated position and store the stair and the ladder to the position that is outside of the hatch of the vehicle and does not disturb for access the hatch area.SOLUTION: The access device includes: an access means (20) installed in the earth-moving machine through a pivot shaft; and a retraction mechanism (50) for an access means. The access means becomes storable through a composite angle from the position developed downward and outward by the pivot-shaft to the retracted position that roughly adjacent side of the vehicle and align The access means can become collapsible by a step (30) being pivotally installed to the side part of the access means through a sub-pivot shaft (62) .

AP	-	US201113222331 20110831
DT	-	*; Rep
CT	-	R141 (A1) US4014486 A []; US3869022 A []; US5064022 A []
CCI	-	B60R3/02 ; E06C5/04 ; E06C5/20
PA	-	HOLDENER WILLIAM [US]; DONTAMSETTI ESWARA P [IN]; CATERPILLAR INC [US]
TI	-	MACHINE ACCESS DEVICE
AB	-	An access device for a mobile machine that includes a platform, an upper, fixed position ladder extending downward from the platform, and a lower ladder pivotally connected to a lower end of the upper ladder , the lower ladder having a rail arm that extends from a rear face of the lower ladder that is connected to a push arm that extends above the platform, wherein a downward force on the push arm pivots the lower ladder from a lowered to a raised position. A latch mechanism may be provided on the push arm, the push arm connected to a pivoting striker arm such that downward movement of the push arm causes the striker arm to pivot upward to engage the latch.

25/56 © EPODOC / EPO		
PN	-	CN102373815 A 20120314
PNFP	-	CN102373815B B 20140604
PR	-	CN20101264812 20100827
AP	-	CN20101264812 20100827
DT	-	I
CT	-	STSE (A) CN2851944Y Y 20061227 [Y] (GUANGDONG KELON ELEC HOLDINGS [CN]) [Y] 9 说明书第4页第12-24行,附图1-2 CN2926320Y Y 20070725 [YX] (ZHIXIN ELECTRIC CO LTD SHANGHA [CN]) [Y] 1-10 说明书第2页倒数第1-4行,第3页,附图1-4 [X] 1-10 CN2654690Y Y 20041110 [A] (WEI WEI [CN]) [A] 1-10 全文 CN201424833Y Y 20100317 [A] (SHENZHEN HAISHENG MACHINE ROOM TECHNOLOGY CO LTD) [A] 1-10 全文 CN201460320U U 20100512 [A] (SHENZHEN HAISHENG MACHINE ROOM TECHNOLOGY CO LTD) [A] 1-10 全文

	CN201288429Y Y 20090812 [Y] (CHINA MOBILE COMM GROUP GANSU [CN]) [Y] 1-10 说明书第4-9页,附图1-11 JPS5911703 A 19840121 [A] (FUJI ELECTRIC CO LTD) [A] 1-10 全文 CN101314949 A 20081203 [A] (DAQING WANG [CN]) [A] 1-10 全文 JPS57190840 A 19821124 [A] (TOKYO SHIBAURA ELECTRIC CO) [A] 1-10 全文 CN201835555U U 20110518 [R] (SHENZHEN SUNSEA TELECOMM CO) [R] 1-10 权利要求1-10 EP0499592 A1 19920819 [A] (SERI COSMO [IT]) [A] 1-10 全文 JP2003074076 A 20030312 [A] (PENTA OCEAN CONSTRUCTION) [A] 1-10 全文
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CTNP - || STSE (A)
[A] 张雷霆,
"通信机房空调节能的思考", <<通信电源技术>>, (20090325), vol. 26, no. 02, PAGE 65 - 67
[A] 1-10
65-67

PA	- (A B) SUNSEA TELECOMM CO LTD
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TI	- (A B) Underground machine room
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AB	-(A) The invention relates to an underground machine room which comprises an underground machine room body, wherein the machine room body comprises a frame and a metal plate welded on the frame, the metal plate and the frame are enclosed to form a sealed machine room space, the top of the machine room body is provided with an entrance, the side surface or the top of the machine room body is provided with a wire inlet and a ventilating hole, a vertical access channel is connected to the entrance in a sealing manner, the access channel extends out of the ground, a vertical ladder stand is arranged in the access channel, a wire inlet channel is connected to the wire inlet in a sealing manner, and a vertical air inlet channel is connected to the
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ventilating hole in a sealing manner and extends out of the ground. According to the underground **machine** room provided by the invention, because the **machine** room body is embedded underground, the temperature of soil around the **machine** room body is lower, the heat generated in the **machine** room body is dispersed towards the surrounding soil and the **machine** room is little influenced by an external environment, the temperature in the **machine** room is commonly kept in a range of 10 DEG C-30 DEG C without installing an air conditioner in the **machine** room, and the **machine** room can achieve the purpose of saving energy.

26/56 © EPODOC / EPO

- PN - [WO2011153452](#) A1 20111208
- PR - US20100351077P 20100603
- AP - WO2011US39098 20110603
- DT - *; Rep
- CT - |US| ISR (A1)
[WO2009052832](#) A1 20090430 [Y] (SKAERBAEK SMEDE & MASKINVAERKS [DK], et al);
[US4572328](#) A 19860225 [Y] (BENKO JOHN C [US]);
[US2008182676](#) A1 20080731 [A] (RECKNAGEL TROY A [US], et al);
[US2621961](#) A 19521216 [A] (HORN WHIPPLE JACK VAN, et al);
[US2726123](#) A 19551206 [A] (MATHEWS GEORGE A)
- CCI - [A63D5/00](#)
- PA - QUBICAAMF WORLDWIDE LLC [US]; NAMALA SAMUEL R [US]; HUBBARD MICHAEL [US]; REITELBACH PATRICK [US]; LEE CHARLES A [US]; MCCALL DAVID A [US]; KILPATRICK MARK D [US]
- TI - SYSTEM TO **ACCESS** BOWLING **MACHINE** EQUIPMENT
- AB - A safety guarding system is provided to safely **access** bowling **machine** equipment and, more particularly, a system for safely accessing bowling **machine** equipment installed in a bowling alley establishment and a kit for such system. The system includes a platform of a constant height and width extending from a rear or a pin elevator side to a front curtain wall side of an assembled bowling **machine** equipment. The platform includes guard rails on sides thereof. At least one gate is provided to gain **access** on at least one side of the platform to components of the bowling **machine** equipment. Safety switches are provided for each of the at least one gate to shut down an adjacent bowling **machine** equipment when a respective one of the at least one gate is sensed to be in an open position. A single **ladder** leading to the platform of the constant height and width.

27/56 © EPODOC / EPO

PN - [TW200910206](#) A 20090301

PR - TW20070131069 20070822

AP - TW20070131069 20070822

DT - I

PA - DELTA ELECTRONICS INC [TW]

TI - Method for producing **machine** code for PLC

AB - A method for compiling **machine** for PLC reads a PLC program such as a **ladder** program. The mnemonics codes in the PLC program are searched and checked with syntax correctness. When all of the mnemonics codes have correct syntax, the PLC program is converted to a C language program and the C language program is converted into a C language object program. The C language object program is linked with a library file. When the link is success, the linked program is directly converted into a **machine** language program for operation of PLC to **access** external input/output points (EXIO).

28/56 © EPODOC / EPO

PN - [CN201835555U](#) U 20110518

PR - CN20102507607U 20100827

AP - CN20102507607U 20100827

DT - I

PA - SHENZHEN SUNSEA TELECOMM CO

TI - Underground **machine** room

AB - The utility model relates to an underground **machine** room, which comprises a buried **machine** room body; the **machine** room body comprises a framework and a metal plate welded on the framework, the metal plate and the framework enclose a sealed **machine** room, an **access** is arranged at the top of the machinery body, and an incoming line port and a vent are formed on the side surface or at the top of the **machine** room; the **access** is hermetically connected with a vertical **access** channel extending out of the ground, and a vertical crawling **ladder** is arranged in the **access** channel; the incoming line port is hermetically connected with an incoming line channel; and the vent is hermetically connected with a vertical air intake channel, and the air intake channel extends out of the ground. In the underground **machine** room provided by the utility model, since the **machine** room body is buried, the temperature of the soil around the **machine** room body is low, the heat quantity generated in the **machine** room body is diffused towards the peripheral soil, and the **machine** room is less affected by the external environment, the temperature in the **machine** room can be often kept within 10 DEG C to 30 DEG C without the need of mounting an air conditioner in the **machine** room,

and in this way, the **machine** room can achieve the purpose of energy conservation.

29/56 © EPODOC / EPO

PN	- US2010067993 A1 20100318
PR	- US20080927982 20080912
AP	- US20080927982 20080912
DT	- *; Rep
CT	- R141 (A1) US2009263200 A1 []
CCI	- B23B39/167 ; B23B45/003 ; B27C3/04
CCA	- Y10T408/38
TI	- Ladder Machine

AB -This invention is intended for gang drilling a predetermined pattern of holes, accurately located in a specifically sized pocket or mortise pre-created by other means in a wooden member such as, but not limited by, a door or door jamb, in which the purpose of these holes is to aid in attaching other physical devices such as, but not limited to, hinges by means of common wood screws. This invention is comprised of a system of roller chain-driven spindles which contain appropriately sized twist drill bits, all driven from a centrally located spindle attached externally to a standard hand-drill. An appropriately sized spring-loaded guide plate fits easily into the pre-created pocket or mortise allowing positive positioning of the invention's assembly but allows **access** for the twist drills to pass through the guide plate, for the purpose of drilling into the wood.

30/56 © EPODOC / EPO

PN	- JP2009086898 A 20090423
PR	- JP20070254231 20070928
AP	- JP20070254231 20070928
DT	- I
FI	- G05B19/05&A
FT	- 5H220/AA04; 5H220/BB11; 5H220/CC07; 5H220/CX02; 5H220/EE01; 5H220/JJ24; 5H220/JJ42; 5H220/JJ57; 5H220/KK08
PA	- DELTA ELECTRONICS INC
TI	- METHOD FOR COMPILING MACHINE CODE PROGRAM FOR PROGRAMMABLE LOGIC CONTROLLER

AB - PROBLEM TO BE SOLVED: To provide a method for improving the executing speed of a PLC.
- SOLUTION: This method for compiling a **machine** code program for a programmable logic controller (PLC) includes: reading a PLC program such as a **ladder** diagram program; retrieving and checking grammatical correctness related with a PLC logical rule as to the mnemonic code of the PLC program; converting the PLC program into a C language

program when all the mnemonic codes are grammatically correct, and converting the C language program into a C language object program; linking the C language object program to the library file; and converting a link program into a **machine** language program for a PLC operation in order to **access** an external input/output point (EXIO) when the link succeeds.

- COPYRIGHT: (C)2009,JPO&INPIT

31/56 © EPODOC / EPO

- PN - [CN201223784Y](#) Y 20090422
- PR - CN20082150374U 20080630
- AP - CN20082150374U 20080630
- DT - I
- PA - CHINA METALLURG EQUIPMENT CORP [CN]
- TI - Trolley with oneself-stirring operation
- AB - The utility model relates to a stirring **machine** matched with a movable conveyer, a miming **machine** and a guider device thereof, in particular to an automatic stirring operation trolley, which comprises a left lower beam, a left bracket, a stair, a middle platform, a batter chute, a large platform, a feeding platform, an upper vertical column A, an upper beam A, an upper beam B, an upper track beam, an upper vertical column B, an upper vertical column C, an **access ladder**, a lower track beam, electric hoists, a right bracket, a right lower beam, another electric hoist, an upper platform, upper platform guard bars, an upper vertical column D and a travel switch. The trolley adopts the structure that the upper beam A and the upper beam B are respectively fixed on the two sides of the upper track beam; the batter chute is fixed in the center of the large platform; the electric hoist is connected with the lower part of the upper beam B; the upper platform is connected with the lower part of the upper beam B; the lower track beam is fixed on one side of the upper vertical column B; another electric hoist is fixed at the lower part of the lower track beam; and the travel switch is installed on the right lower beam. The trolley has the advantages of big stirring power and high operating efficiency.

32/56 © EPODOC / EPO

- PN - [US2009083719](#) A1 20090326
- PR - US20070858416 20070920
- AP - US20070858416 20070920
- DT - *; Rep
- CT - || R141 (A1)
[US5285376](#) A [];
[US5504902](#) A [];
[US6883080](#) B1 [];
[US2002059567](#) A1 [];

[US5553297](#) A [];
[US6951014](#) B1 []

CCI	- G06F8/44
PA	- DELTA ELECTRONICS INC [TW]
TI	-METHOD OF COMPILING MACHINE CODE PROGRAM FOR PROGRAMMABLE LOGIC CONTROLLER
AB	-A method of compiling machine code program for programmable logic controller (PLC) reads a PLC program such as a ladder diagram program. The mnemonics codes in the PLC program are searched and checked with syntax correctness regarding PLC logic rule. When all of the mnemonics codes have correct syntax, the PLC program is converted to a C language program and the C language program is then converted into a C language object program. The C language object program is linked with a library file. When the link is successful, the linked program is directly converted into a machine language program for operation of PLC to access external input/output points (EXIO).

33/56 © EPODOC / EPO

PN	- WO2006036279 A1 20060406
PR	- US20040950956 20040927
AP	- WO2005US26485 20050726
DT	- *; Rep
CT	- EP ISR (A1) US3190392 A 19650622 [XA] (ROBERT ASHTON, et al) [X] 1,4,7 * column 1, line 45 - column 2, line 34; figure - * [A] 2,3,5,6,8,9; US6029775 A 20000229 [A] (HEDLEY ROBERT IAN [AU], et al) [A] 1,2,4,5,7-9 * column 2, line 35 - column 3, line 35; figure - *; US5988316 A 19991123 [DA] (HEDLEY ROBERT IAN [AU]) [DA] 1-9 * column 3, line 44 - column 4, line 25; figure - *
CCI	- B60R3/02 ; E02F9/0833 ; E06C5/02 ; E06C5/04
PA	- CATERPILLAR INC [US]; LAPKE ROBERT A [US]; SCHEIDENHELM KURT J [US]; BEAUPRE ERIC J [US]
TI	-RETRACTABLE ACCESS SYSTEM LADDER AND WORK MACHINE USING SAME
AB	-A work machine (10) and work machine access ladder assembly (16) are provided. The work machine (10) includes a work machine body (11) having an operator platform (12). A hinge mechanism (20) is coupled to the work machine body (11) and defines a hinge axis oriented diagonally with respect to a vertical line. The ladder (16) may be rotated about the hinge axis between a use and a stowed position.

PN - [US2006070804](#) A1 20060406

PNFP - US7870932 B2 20110118

PR - US20040950956 20040927

AP - US20040950956 20040927

DT - **

CT - || STSE (B2)
[US671767](#) A 19010409 [] (KAISER HEINRICH [US])
[US686944](#) A 19011119 [] (MACLEAN DONALD [US])
[US2080527](#) A 19370518 [] (CARL BIXEL EDWARD)
[US2237853](#) A 19410408 [] (TROCHE HERMAN J)
[US2967584](#) A 19610110 [] (WESTERLUND PAUL H)
[US3047093](#) A 19620731 [] (CRUZ EDWARD S)
[US3403749](#) A 19681001 [] (WARREN ROBERT A)
[US3508627](#) A 19700428 [] (LYPKO WILLIAM A, et al)
[US3545567](#) A 19701208 [] (DOHRMAN CHARLES A)
[US3656578](#) A 19720418 [] (HEMKEN PETER CHAUNCEY)
[US3941337](#) A 19760302 [] (MOLTER GUNTHER, et al)
[US4014486](#) A 19770329 [] (NELSON NEAL A, et al)
[US4039163](#) A 19770802 [] (SHOREY THOMAS H)
[US4187579](#) A 19800212 [] (GENSICKE WALTER [DE])
[US4406928](#) A 19830927 [] (MACKENZIE WILLIAM G [US])
[US4413801](#) A 19831108 [] (LANCASTER PAUL B [US], et al)
[US4441376](#) A 19840410 [] (TOBEY WILLIAM H [US])
[US4453684](#) A 19840612 [] (HANKS JOHN [US])
[US4669574](#) A 19870602 [] (MOUTOT PASCAL [FR])
[US4813514](#) A 19890321 [] (LATHERS MICHAEL W [US])
[US4971168](#) A 19901120 [] (STANESCU GEORGEL V [IT])
[US5850891](#) A 19981222 [] (OLMS JOSEPH JEFFERY [US], et al)
[US5954721](#) A 19990921 [] (LUBOSHITZ SHMUEL [IL], et al)
[US6029775](#) A 20000229 [] (HEDLEY ROBERT IAN [AU], et al)
[US6725502](#) B2 20040427 [] (MOLL PATRICK [DE])
[US6830257](#) B2 20041214 [] (LEITNER HORST [US])
[US6981572](#) B2 20060103 [] (HEDLEY ROBERT IAN [AU])
[US7549831](#) B2 20090623 [] (HENDLEY JOHN H [US], et al)
- || R141 (A1)
[US2967584](#) A [];
[US6981572](#) B2 [];

	US4187579 A []; US6029775 A []; US3941337 A []; US4014486 A []; US4813514 A []; US671767 A []; US2237853 A []; US3508627 A []; US3656578 A []; US4441376 A []; US6378654 B1 []; US6725502 B2 []; US2080527 A []; US2988316 A []; US3190392 A []; US4453684 A []; US4669574 A []; US7549831 B2 []; US3047093 A []; US5538100 A []; US4039163 A []; US4406928 A []; US5954721 A []; US2003173153 A1 []; US3403749 A []; US686944 A []; US4413801 A []; US4971168 A []; US3545567 A []; US5850891 A []; US2002189899 A1 []; US6830257 B2 []
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CCI	- B60R3/02 ; E02F9/0833 ; E06C5/02 ; E06C5/04
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PA	- (B2) CATERPILLAR INC [US]
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TI	-(A1 B2) Retractable access system ladder and work machine using same
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AB	-(A1 B2) A work machine and work machine access ladder assembly are provided. The work machine includes a work machine body having an operator platform. A hinge mechanism is coupled to the work machine body and defines a hinge axis oriented diagonally with respect to a vertical line. The ladder may be rotated about the hinge axis between a use and a stowed position.
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PN	- US2005220917 A1 20051006
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PNFP	- US7134860 B2 20061114
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PR	- US20040813206 20040330
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AP	- US20040813206 20040330
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DT	- *; Rep
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CT	- STSE (B2) US3892516 A 19750701 [] (MCGREW JOHN P, et al) US4244682 A 19810113 [] (WILLINGHAM JOHN H) US2003124210 A1 20030703 [] (KATO FUMIYUKI [JP], et al) - R141 (A1) US4244682 A []; US3892516 A []; US2003124210 A1 []
CTNP	- STSE (B2) [] Husky Annual Report, p. 9, dated Sep. 1996
CCI	- B29C37/00
CCA	- B29C33/70
PA	- (B2) IND TECHNOLOGY SERVICES LLC [US]
TI	-(A1 B2) Overhead work and mold storage platform for plastic injection molding machine
AB	-(A1 B2) The mold access and storage structure comprises an elevated work platform of generally rectangular configuration which is supported at the comers thereof by columns which straddle a machine . The top of the platform includes a walkway and a plurality of spaced apart parallel oil and water containment reservoirs or pans for receiving and storing molds when not in use by the machine and for collecting any oil or lubricant draining from the mold. A vertical ladder permits a person to access the work platform for maintenance purposes. A railing enclosure is mounted around the top of the platform and extends around the outer periphery of the walkway and reservoirs. The railing enclosure includes a pair of slideable gates which, when open, prevents the machine from operating and permits a ladder to be pivoted and moved from the walkway, into the space between the open slideable gates, thereby permitting a maintenance worker to access the top of the machine .

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© EPODOC / EPO

PN	- US5321829 A 19940614
PR	- US19900556958 19900720
AP	- US19900556958 19900720
DT	- *
CT	- US3686639 A []; US3813649 A []; US3882305 A []; US3964026 A []; US4038533 A []; US4200914 A []; US4227247 A []; US4244034 A []; US4247901 A []; US4316260 A []; US4396974 A []; US4415965 A []; US4445169 A []; US4449180 A [];

[US4486830](#) A []; [US4488258](#) A [];
[US4513379](#) A []; [US4533997](#) A [];
[US4635183](#) A []; [US4644478](#) A [];
[US4661899](#) A []; [US4663704](#) A [];
[US4703414](#) A []; [US4718025](#) A [];
[US4815014](#) A []; [US4833592](#) A [];
[US4843538](#) A []; [US4991076](#) A [];
[US5127099](#) A []

CTNP	- [] Allen Bradley Company, Inc., Programming and Operations Manual , Bulletin 1772, Mini PLC 2/05 Processor [] Icom, Inc., PLC 2 Ladder Logistics User s Manual , Aug. 1987 [] Icom, Inc., PLC 5 Ladder Logistics User s Manual , Sep. 1987 [] Taylor Industrial Software, Product Bulletin 24 , Apr. 1987 [] Icom, Inc., PLC 3 Ladder Logistics User s Manual , Sep. 1987 [] Taylor Industrial Software, Product Summary , Feb. 1988 [] Taylor Industrial Software, Product Bulletin 21 , Apr. 1987 [] PLC 5 Ladder Logistics User s Manual, Sep. 1987, Icom, Inc [] MMI Logistics User s Manual, May 1990, Icom, Inc
CCI	- G05B19/056
CCA	- G05B2219/13142 ; G05B2219/14073 ; G05B2219/14093 ; Y10S715/97
PA	- ICOM INC [US]
TI	- Graphical interfaces for monitoring ladder logic programs
AB	- A menu-driven system for developing Man- Machine Interfaces (MMI) for use in the graphical monitoring of ladder logic programs executing in programmable logic controllers PLCs. The Man- Machine Interfaces graphically depict plant processes controlled by the PLC. Data from the PLC representing plant process events (flows, state changes, tank levels, etc.) are communicated to the Man- Machine Interfaces. A Development System provides a programmer's "tool box" for constructing the Man- Machine Interfaces. Ladder logic programs and databases associated therewith are imported and accessed by the Development System for use in the development of the Man- Machine Interfaces. A Runtime System provides an execution environment for the Man- Machine Interfaces. The Runtime System has the ability to access ladder logic programs during monitoring operations. A user can "hot-key" to the ladder logic program for trouble-shooting purposes.

37/56 © EPODOC / EPO

PN	- US6209682 B1 20010403
PR	- US20000502474 20000211
AP	- US20000502474 20000211
DT	- *
CCI	- E02F9/0833 ; B60R3/00
PA	- CATERPILLAR INC [US]
TI	- Ladder assembly for track-type tractors
AB	- Access to an operator station of a large track-type tractor is provided by a ladder support structure pivotally attached to a portion of the radiator guard of the tractor. The ladder support structure extends over a track of the tractor and has a ladder pivotally attached to a distal end of the ladder support structure that provides steps over a push arm and a tilt cylinder of the tractor. When the ladder assembly is moved to its carry position, the ladder is moved to a position inside the ladder support structure, and the ladder support structure raised to a vertical position adjacent a side panel of the radiator guard of the tractor. The present invention avoids the problem of machine operators climbing on the push arms, tilt cylinders, radiator, radiator guard, track, hood, and engine enclosures in order to gain access to the operator station.

38/56 © EPODOC / EPO

PN	- US5168442 A 19921201
PR	- JP19880170450 19880708
AP	- US19900460100 19900209
DT	- **
CT	- US4566061 A []; US4638452 A []; US4677541 A []; US4916640 A []; JPS58200346 A []; JPS59149509 A []; JPS617962 A []
CCI	- G05B19/056 ; G05B19/4147
CCA	- G05B2219/36108
PA	- FANUC LTD [JP]
TI	-PROGRAMMABLE CONTROLLER WITH MODIFIABLE LADDER PROGRAM
AB	-PCT No. PCT/JP89/00610 Sec. 371 Date Feb. 9, 1990 Sec. 102(e) Date Feb. 9, 1990 PCT Filed Jun. 19, 1989 PCT Pub. No. WO90/00763 PCT Pub. Date Jan. 25, 1990.A programmable controller according to the present invention is for reinforcing the function of a programmable machine controller (PMC) of a numerical control unit (CNC) incorporating a minicomputer. In order to achieve high-speed processing of a PMC ladder program which implements auxiliary control functions for machining inclusive of tool-change control, control of the rotational speed of a spindle and workpiece- change control, the programmable controller is provided with an electrically rewritable

programmable read-only memory (EEPROM) (6), and a random-**access** memory (RAM) (7) to which program data is transferred from the EEPROM (6), and the arrangement is such that the contents of the EEPROM (6) are rewritten before the data transfer.

39/56 © EPODOC / EPO

PN - [US5813494](#) A 19980929

PR - US19950389328 19950216

AP - US19950389328 19950216

DT - *

CT - [US2967584](#) A []; [US2999556](#) A [];
[US3083785](#) A []; [US3190392](#) A [];
[US3232376](#) A []; [US3508627](#) A [];
[US3656578](#) A []; [US3997183](#) A [];
[US4131293](#) A []; [US4153138](#) A [];
[US4245716](#) A []; [US5117940](#) A [];
[SU831945](#) A1 []

CCI - [B60R3/02](#) ; [A01D41/1261](#) ; [E02F9/0833](#) ; [E06C5/04](#)

PA - CASE CORP [US]

TI - **Access ladder** assembly for an off-highway **machine**

AB - An **access ladder** assembly for an agricultural **machine** having a body with an elevated operator's station. The **ladder** assembly includes a **ladder** that is mounted to the frame of the **machine** by a pivot mechanism that allows the **ladder** to be moved in either rotational direction about both a generally horizontal axis and a generally vertical axis. A locking mechanism releasably holds the **ladder** in an angularly adjusted position about both of these axes. A release mechanism conveniently located relative to the operator's station controls operation of the locking mechanism. The **ladder** assembly further includes rail structure carried by the **ladder** and movable about a generally vertical axis to either of two adjusted positions.

40/56 © EPODOC / EPO

PN - [US5287548](#) A 19940215

PR - US19880161484 19880229

AP - US19880161484 19880229

DT - **

CT - [US3810118](#) A []; [US4413319](#) A []

CCI - [G05B19/056](#)

CCA - [G05B2219/13118](#) ; [G05B2219/13144](#) ;
[G05B2219/15059](#) ; [G05B2219/15127](#)

PA - ALLEN BRADLEY CO [US]

TI - Programmable controller having a stored program with both **machine** language instructions and source code data

AB -A programmable controller governs the operation of a piece of equipment by executing **machine** language instructions compiled from a **ladder** diagram type control program. The control program as stored in the controller includes not only compiled **machine** language instructions, but also a tokenized version of the source code from which certain **machine** language instructions were compiled. The source code is provided only for those portions of the **machine** language program which cannot be easily decompiled to produce the corresponding source code. This program storage facilitates subsequent editing of the stored program via a terminal connected to the programmable controller. During the editing process, the original **ladder** diagram can be reconstructed from a combination of the **machine** language instructions and the tokenized version of the source code. In doing so, the **machine** language instructions, which have a one-to-one correspondence with the source code instructions, are decompiled using conventional techniques. However, the tokenized version of the source code is used to recreate the portions of the **ladder** diagram for which each **machine** language instruction does not have a unique one-to-one correspondence with a source code instruction. This program storage technique enables the control program to be easily edited using the version stored in the programmable controller without requiring **access** to the original source code from which the program was compiled.

41/56 © EPODOC / EPO

PN	- US2005217229 A1 20051006
PNFP	- US7543676 B2 20090609
PR	-US20050093770 20050330; US20040557849P 20040330
AP	- US20050093770 20050330
DT	- *; Rep
CT	- STSE (B2) US1899742 A 19330228 [] (BAY CHARLES A) US2166060 A 19390711 [] (LEVERING KIRK RALPH) US3012633 A 19611212 [] (MAGEE JOHN E) US4339223 A 19820713 [] (GOLZE RICHARD R) US5064022 A 19911112 [] (GRAHAM GEORGE W [US]) US5065569 A 19911119 [] (SCHLUETER FRANCIS E [US]) US5813494 A 19980929 [] (ULSCHMID TIMOTHY G [US], et al) US6276974 B1 20010821 [] (BOUGE HARRY A [US], et al) FR2542265 A1 19840914 [] - R141 (A1) US1899742 A [];

	US4429761 A []; US6189644 B1 []; US6349786 B1 []; US3646883 A []; US4936407 A []; US2166060 A []; US4162714 A []; US4339223 A []; US4759185 A []; US6276974 B1 []; US5813494 A []; US5064022 A []; US5065569 A []; US3012633 A []
CCI	- A01D46/08 ; A01D75/20
PA	- (A1) CNH AMERICA LLC - (B2) CNH AMERICA LLC [US]
TI	-(A1 B2) Enhanced operator presence system for a cotton harvester with an on-board module building capability
AB	-(A1 B2) An operator presence system for a cotton harvester including an on-board cotton module builder, the system including a mount for installing a ground access ladder at a first position for providing access to a service platform for routine service and maintenance, and a second mount at a second location for installing the ground access ladder adjacent to a ladder segment extending to an upper region of the machine , the mount at the second location including a switch or other device for disabling or locking out at least a hydraulic system of the module builder when the ladder is mounted to the second mount, and which re-enables operation when the ladder is removed therefrom.

42/56 © EPODOC / EPO

PN	- SK16472003 A3 20050701
PNFP	- SK285843B B6 20070906
PR	- SK20030001647 20031231
AP	- SK20030001647 20031231
DT	- I
PA	- (A3 B6) REGINA IVAN [SK]
TI	-(A3 B6) Extended platform particularly for access to the bottom space of the bridge cornices
AB	-(B6) Extended platform (7) with possibility of level exchange by apparatus uplift platform (8) is fixed on access pole with ladder (6), which is fixed

	exchange by bolt (12) on jib (5), which is fixed rotary around horizontal axis on hinge (3) The hinge (3) is placed rotary around vertical axis on fixed frame (2), which is fixed dismantle to basic machine (1).
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43/56 © EPODOC / EPO

PN	- SE422453 B 19820308
PNFP	- SE7909533 A 19810520
PR	- SE19790009533 19791119
AP	- SE19790009533 19791119
DT	- I
CNOI	- (B) B66F9/06 ; B65G1/04
PA	- (A B) STORA KOPPARBERGS BERGSLAGS AB [SE]
TI	- (B) Transport truck with hoist
AB	-(B) Manually-driven transport truck with machine -operated raising and lowering lifting mechanisms 10, and equipped with folding ladder 5 and platform 6 in order to provide convenient access for picking out objects from packages raised by the lifting mechanism. <IMAGE>

44/56 © EPODOC / EPO

PN	- JP2005292912 A 20051020
PNFP	- JP4345545B B2 20091014
PR	- JP20040103073 20040331
AP	- JP20040103073 20040331
DT	- I
FI	- G05B19/05&L
FT	-5H220/AA01; 5H220/BB12; 5H220/BB15; 5H220/CC07; 5H220/CX01; 5H220/CX06; 5H220/JJ12; 5H220/KK01; 5H220/KK04
PA	- (A) YOKOGAWA ELECTRIC CORP
TI	- (A) SIMULATION DEVICE
AB	-(A) PROBLEM TO BE SOLVED: To provide a simulation device for performing debug close to a real machine while operating an actual ladder program without using any I/O module or external connection by emulating an I/O by one CPU module in a programmable controller in multi-CPU configuration. -SOLUTION: This emulation CPU module is provided with an I/O processor for emulation capable of processing I/O module access from a sequence CPU module being the other CPU module for simulation as access in its own CPU

and an I/O memory. The I/O memory is provided with a data table equivalent to an I/O module installed in each of a plurality of CPU modules based on preliminarily registered I/O information and a mechanism for operating a program for emulating the operation of the I/O module.
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45/56 © EPODOC / EPO

PN - [JPH0219902](#) A 19900123

PR - JP19880170450 19880708

AP - JP19880170450 19880708

DT - I

CT - [JPS61182103](#) A []; [JPS639604B](#) B2 [];
[JPS61187003](#) A []; [JPH01175001](#) A []

CCI - [G05B19/056](#) ; [G05B19/4147](#)

CCA - [G05B2219/36108](#)

FI - G05B19/05&A; G05B19/05&F

FT - 5H220/AA05; 5H220/BB03; 5H220/BB07;
5H220/BB12; 5H220/BB20; 5H220/CC03;
5H220/CX04; 5H220/DD04; 5H220/FF02;
5H220/FF03; 5H220/GG07; 5H220/GG12;
5H220/JJ12; 5H220/JJ18

PA - FANUC LTD

TI - PROGRAMMABLE CONTROLLER

AB - PURPOSE:To realize an effective operation of a numerical controller NC by storing a **ladder** sequence into a programmable read-only memory EEPROM and also using a random **access** memory RAM having a high processing speed.
CONSTITUTION:The data read out of an NC tape 1 where a **ladder** program is recorded are stored into an EEPROM6 and can be rewritten electrically. Then these data are once transferred to a RAM7 and an NC operation is carried out. Thus both a control program and a **ladder** program are stored in the EEPROM at shipment and a **ladder** can be edited and changed at the user side with no back-up of a battery. As a result, the **ladder** program can be processed at a high speed. Furthermore the operating speed of a **machine** tool is never limited by the reading speed of the program data since the NC operation is carried out after the data are once transferred to the RAM7.

46/56 © EPODOC / EPO

PN - [WO2005007550](#) A1 20050127

PR - WO2003JP09074 20030717

AP - WO2003JP09074 20030717

DT - *; Rep

CT - |JP| ISR (A1)
[JP2001097649](#) A 20010410 [X] (MITSUBISHI ELECTRIC CORP);
[JP2001253658](#) A 20010918 [Y] (MITSUBISHI

	ELECTRIC CORP); JP2003112873 A 20030418 [Y] (MITSUBISHI ELECTRIC CORP); JP2003040550 A 20030213 [Y] (MITSUBISHI ELECTRIC CORP)
CCI	- B66B19/00 ; B66B7/00
PA	- MITSUBISHI ELECTRIC CORP [JP]
TI	-WORKING TABLE OF MACHINE -ROOM-LESS ELEVATOR
AB	-A working table (20) of machine -room-less elevator disposed permanently in the space between a cage (5) at the top part in an elevator shaft (1) and the side wall (1a) thereof and being drawn out up to the uppermost landing floor (4) at the time of maintenance in order to allow a worker to access apparatuses (12, 13) installed at the top part in the elevator shaft. Upper end part of the working table is fixed rotatably to the side wall (1a) at the top part in the elevator shaft through a working table suspender (21) and the lower part of the working table is held resiliently on the inner side wall of the elevator shaft at a position lower than the working table suspender through a work table fixing metal (22). The working table comprises a ladder section and a working floor section, wherein the ladder section consists of a fixed ladder (23) and a telescopic ladder (24), and the working floor section consists of a folding safety fence (26) and a folding safety working floor (25).

47/56 © EPODOC / EPO	
PN	- GB190614370 A 19070523
PR	- GBT190614370 19060622
AP	- GBD190614370 19060622
DT	- I
PA	- TEMPERLEY JOHN RIDLEY [GB]; ALEXANDER WILLIAM [GB]
TI	- Improvements relating to Transporting Plant.
AB	- 14,370. Temperley, J. R., and Alexander, W. June 22. Cranes.-Relates to transporters or travelling cranes and to the combination of weighing-apparatus therewith. The transporter has suspended from it a traversible weighing- machine into which the load may be delivered and from which it may be directly discharged, so as to avoid the loss of time occasioned by the grab &c. waiting until the load is weighed. The transporter girder a is carried on two narrow or tapered piers b, c running on single tracks k, or, in the case of heavy loads or when the girder has a cantilever extension i, upon double tracks l, m. The girder is of inverted triangular section and is formed of two upper booms d braced to a lower boom e. The transporter carriage runs upon the boom e, while the upper booms carry rails upon which run the wheels of a carriage h which is driven

by the motor y and from which the weighing- **machine** is suspended. The weighing - **machine**, which is of any suitable form, is supported below a hopper n upon the staging o suspended by frames p from the carriage h. **Access** is had to the weighing-apparatus r, which is preferably enclosed in a casing by a **ladder** u. The hopper has hinged doors v connected by rods to wheels x controlled by the operator.

48/56 © EPODOC / EPO

PN - [GB957529](#) A 19640506

PR - US19590860535 19591218

AP - GB19600042123 19601207

DT - **

CCI - [A01D41/1261](#)

PA - MASSEY FERGUSON LTD

TI - Improved combined harvesting and threshing **machine**

AB -957,529. Combine harvesters. MASSEY-FERGUSON Ltd. Dec. 7, 1960 [Dec. 18, 1959], No. 42123/60. Heading A1F. A combine-harvester has an operator's platform 25 located above one of the front wheels 12 and a **ladder** 30 giving **access** to the platform, the **ladder** having an inclined frame 31 with a series of steps 33-36 extending rearwardly alongside the harvester-body 11 from the platform and over the wheel to a point on the bottom of the body behind the wheel, at which point a hinge (Fig. 5) is provided enabling the **ladder** to be swung in a longitudinal direction to an inoperative position, thus giving **access** to the body in the vicinity of the wheel. The hinge (Fig. 5) is provided on members 41, 42 which project transversely from the harvester body and carry brackets 43 for a pivot-shaft 44. The top of the **ladder** frame mates with the floor of the platform and incorporates a manually-acutable latch (Fig. 3, not shown) to secure it thereto. The handrail 65 is united with a stub 66 on the **ladder**-frame by a sleeve 67 which can be slid up the rail when the **ladder** is to be swung into the dotted position of Fig. 1, the stub being used for this manipulation.

49/56 © EPODOC / EPO

PN - [GB263837](#) A 19271013

PR - ITX263837 19251229

AP - GB19260032787 19261228

DT - *

CCI - [B64B1/00](#)

PA - UMBERTO NOBILE

TI - Improvements in airships of the semi-rigid type

AB	-263,837. Nobile, U. Dec. 29, 1925, [Convention date] . Airships; aerostats.-A semi-rigid machine comprises a framework girder 2 running the entire length of the ship, and carrying a main cabin 13 and' engine cabins 15 and extended at each end so as to provide a nose shield 5 and a support for the tail planes and elevators and the lower rudder 12. The fabric envelope is divided into compartments, each of which, except the end ones, contains an air bag, and is secured to the framework by means of a system of cateraries arranged in the vertical plane containing the longitudinal axis. The upper rudder is secured to the rear compartment. The three forward air bags are in communication with each other, as also are the two rear ones. They are provided with inlet valves 18 communicating with a conduit 9 which leads to a valve 10 at the nose, and with outlet valves 25 of similar construction communicating with conduits 26, 27. The latter are in communication at the forward end with the conduit 9 and discharge into the atmosphere at the rear. In addition to the automatic action, the outlet valves can be controlled manually, as shown in Fig. 3. The gas valves 7, Fig. 15, are controlled pneumatically from a distance with the aid of a compressed air reservoir 30 and distributor 33. A shaft 16 with a ladder is provided forgiving access to the top of the envelope.
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50/56 © EPODOC / EPO

PN	- GB260049 A 19261025
PR	- GB19250018792 19250723
AP	- GB19250018792 19250723
DT	- *
CCI	- B65H19/1831 ; B65H19/1873
PA	-GOSS PRINTING PRESS CO ENGLAND; ERNEST JAMES SMITH
TI	-Improvements in or relating to printing presses and in particular to web-renewing mechanism therefor
AB	-260,049. Goss Printing Press Co. of England, Ltd., and Smith, E. J. July 23, 1925. Feeding webs. -A web-renewing mechanism for a printing-press comprises a pair of rollers normally spaced apart, around one of which the active web passes and to the other of which the end of a reserve web may be gripped in readiness to have adhesive applied to it so that upon the operation of a handlever the rollers are brought together to cause the webs to adhere together. Movement of the hand-lever may also be arranged to bring rollrotating belts for the reserve roll into operation. When applied to multi-deck presses special platforms are provided to give access to the web-renewing mechanisms of the upper decks, the platforms being movable to allow hoisting of the new rolls into position. In machines in which the new rolls are inserted laterally into the machine on

trucks, the roll-supporting arms or the supports of the roll-rotating belts may be pivoted to allow them to be moved to such a position as not to obstruct the entry of the trucks. Fig. 3 shows a press with four pairs of web-rolls A, B in two decks. Each pair of rolls is provided with a web-renewing mechanism comprising a pair of rollers C, D, Fig. 2, carried by arms C', D' on shafts C<2>, D<2> geared together by quadrants C<3>, D<3> and operable in unison by a hand-lever D<4> on one of the shafts C<2>, D<2>. The rollers are normally spaced apart. Arms E<1>, F<1> mounted loosely on the shafts C<2>, D<2> are provided with rollers E, F yieldingly held by springs G, G<1>, in contact with the rollers C, D and are connected by slotted links F<3>, E<3> to short arms F', E<2> fast on the shafts D<3>, C<2>. By this arrangement, as the rollers C, D are brought together, the rollers E, F are moved out of contact with the rollers C, D. In operation the active web from one of the rolls passes round the adjacent roller C or D, to the press. When the roll is nearly exhausted, the end of the reserve web is inserted between the other roller D or C and the contacting gripping roller E or F, and paste is applied thereto. Upon operating the hand-lever D<4>, the rollers C, D are brought together to adhere the webs and at the same time the gripping roller is moved clear of the reserve web. The active web is then severed by the **machine** attendant. The operation of the hand-lever D<1> may start the operation of web-rotating belts H by operating an electro-magnetic or other clutch connecting the driving wheel H<4> of the belts to the driving gear of the press. To allow **access** to the upper rolls in the **machine** shown in Fig. 3, platforms I, I<1> are provided and these platforms are slidably mounted on rails I' so as to move apart to allow new rolls to be hoisted into position. The webs from the outer rolls may pass to the press either over the framework or beneath it. In a press provided with a single tier of rolls, a combined **ladder** and platform may move laterally on guides at the end of the press.

51/56 © EPODOC / EPO

- PN - [FR2285067](#) A1 19760416
- PR - FR19740031684 19740919
- AP - FR19740031684 19740919
- DT - *; Rep
- CCI - [A01K1/123](#)
- PA - VILLEDIEU ETS CHARLES [FR]
- TI - Transportable herringbone milking bail - has **access** to standing by ramps and feed supplied to mangers by auger

AB	-The structure is in metal and consists of a tubular frame and sides in aluminium alloy sheet metal. The bail is closed at each end by sliding doors giving access to standing by means of a ramp. The operator works in a low level pit (6) to which access is gained by a ladder . A horizontal rump rail is fixed to supports which are attached to the ceiling. In the pit are milk jars (4) connected by pipes (15) to a milking machine . The animals are fed from an adjacent silo by ducts which bring the food to an auger (18) supplying hoppers (19) emptying into mangers (20). There is a gate at each end of the standing. The bail is provided with an attachment point for a draw bar, together with wheels and an axle.
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52/56 © EPODOC / EPO

PN	- ES2189551 A1 20030701
PNFP	- ES2189551 B1 20041016
PR	- ES19990001110 19990524
AP	- ES19990001110 19990524
DT	- I
CT	- (A1) EP0911130 A2 [A]; ES2050995T T3 [A]; US5148943 A [A]; ES1039295U U [A]; ES2099929T T3 [A]; ES1036052U U [A]; IT1285580 B1 [A]; EP0348077 A1 [A]; DE4214726 A1 [A]; FR2609548 A1 [A]; ES281992Y Y [A]; ES2105152T T3 [A]; JPH02275321 A [A]
CTNP	-(A1) [A] [en línea] Recuperado de EPO PAJ DATABASE & JP 02275321 A (GADELIUS KK) 09.11.1990, figuras
CNOI	- (A1 B1) G01G11/02 ; G01G19/22
PA	- (A1 B1) IND QUIMICA RIOJANA S A [ES]
TI	-(A1) Machine for the formulation of compounds by weighing.
AB	-(A1) Machine for the formulation of compounds by weighing.For application in the automated manufacture of complex compounds, such as elastomers, special plastics, etc.It comprises a frame, with a platform and access ladder , in which are mounted two parallel rows of heads (2) each defined by rotating plates (3) with dosing hoppers (5), preferably separated by an angle of 90 degrees. The hoppers (5) release the established doses of the product sequentially into a pair of weighing (11) and tipping pans (12), both pivoted, transferring it to the scoops (13) of a conveyer chain (6) central to the two parallel rows of

heads. The hoppers (5) are shaped like an inverted pyramid to facilitate the flow of the product and at the bottom is the dosing belt (7) divided into two parts (8, 9) of different width and actuated independently.<IMAGE>

53/56 © EPODOC / EPO

PN	- EP0382853 A1 19900822
PNFP	- EP0382853 A4 19931103 - EP0382853 B1 19950913
PR	- WO1989JP00610 19890619; JP19880170450 19880708
AP	- EP19890907285 19890619
DT	- **
CT	- STSE (A4) WO8000383 A1 19800306 [Y] (SQUARE D CO [GB], et al); EP0030981 A1 19810701 [Y] (FANUC LTD [JP]); US4566061 A 19860121 [Y] (OGDEN RALPH [US], et al); EP0266433 A1 19880511 [A] (FANUC LTD [JP]); US4498151 A 19850205 [A] (HENRY RAYMOND W [US])
CCI	- G05B19/056 ; G05B19/4147
CCA	- G05B2219/36108
PA	- (A1 B1) FANUC LTD [JP]
TI	- (A1 B1) PROGRAMMABLE CONTROLLER. - (A4) PROGRAMMABLE CONTROLLER
AB	-(A1) The programmable controller reinforces the function of a programmable machine controller (PMC) that contains a mini-computer. The PMC ladder program realizes auxiliary control function for machining inclusive of exchange of tools, controls the number of revolutions of the main spindle, and controls exchange of works. The programmable controller comprises an electrically rewritable programmable read-only memory (EEPROM) (6), and a random access memory (RAM) (7) to which the program data are transferred from the EE-PROM (6). Prior to transferring the data, the contents in the EEPROM (6) are rewritten.

54/56 © EPODOC / EPO

PN	- EP1217138 A1 20020626
PR	- EP20000125887 20001127
AP	- EP20000125887 20001127
DT	- *; Rep
CT	- STSE (A1) DE3715780 A1 19871119 [A] (STICHT WALTER [AT])

[A] 1,2,8,10,11,13
* column 8, line 40 - line 57; figure 1 *;
[EP0818770](#) A2 19980114 [A] (KOHLER CO [US])
[A] 1
* figure 1 *;
[US4677733](#) A 19870707 [A] (ANDERSSON BENGT A [SE])
[A] 1
* figure 3 *

CCI	- E04B1/8218 ; G10K11/16
PA	- BRUDERER AG [CH]
TI	- Fixed enclosure for a stationary machine -tool
AB	-The cabin includes a switch cabinet (3) for the electrical and electronic control components as well as a walk-on platform (4) for access . The switch cabinet and platform are supported at least in part by the cabin. Additional supports (5) can be provided which can swivel in and out for use. One support can be a ladder or stairway.

55/56 © EPODOC / EPO

PN	- DE2531890 A1 19770210
PR	- DE19752531890 19750717
AP	- DE19752531890 19750717
DT	- *; Rep
CCI	- A01D41/1261 ; B60R3/02 ; B62D33/0617
PA	- CLAAS MASCHF GMBH GEB
TI	- Access ladder to drivers cabin - is swung into retracted position to form wheel mudguard
AB	-The driving position for self-propelled machines, especially combine harvesters, has an access ladder . The cabin is accessible by a pivoted ladder which is stowed to ensured prescribed vehicle width on travelling on road. The ladder is hinged about a vertical shaft and rotated into its lateral extended position for climbing into the cabin. The ladder (4) has a number of tread plates and it is closed on its underside. This assembly is used in its retracted swung in position as a mudguard for the machine wheel (1). The ladder (4) can be moved automatically by a driving motor into the retracted or extended position. This arrangement has interlocking arrangement for ensuring safe operation.

56/56 © EPODOC / EPO

PN	- AU2005290239 A1 20060406
PNFP	- AU2005290239B B2 20110331
PR	-US20040950956 20040927; WO2005US26485 20050726
AP	- AU20050290239 20050726
DT	- I

CT	- (B2) US5988316 A []; US6029775 A []; US3190392 A []
CCI	- B60R3/02 ; E02F9/0833 ; E06C5/02 ; E06C5/04
PA	- (A1 B2) CATERPILLAR INC
TI	-(A1 B2) Retractable access system ladder and work machine using same

[SS 14] ..V

[EPODOC: SS 14] 11

Results in EPODOC 4

[SS 15] ..LI

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PN	- US2016244944 A1 20160825
PR	-AU20130903877 20131008; WO2014AU50269 20141006
AP	- US201415027250 20141006
DT	- **
CCI	- E02F9/0833 ; E06C5/04 ; E06C5/22 ; E06C5/24
CUI	- B60R3/02 ; E06C5/02 ; E06C5/32
PA	- BARJOH PTY LTD [AU]
TI	- Swing Type Access System for an Earth Mover
AB	-An access system (10) for an earth moving equipment (100) to allow a person to travel from ground level to an elevated position, said access system (10) includes an access means (12) mountable on to the earth moving equipment (100), and a retraction mechanism (50) to move the access means (10) between a deployed position (14) wherein a person can ascend or descend on the access means and a retracted position (16) wherein the access means (10) is stowed, and a locking means (52) moveable to an operative position wherein the locking means (52) restrains movement of the access means (10) in the retracted position (16).

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PN	- AU2014334503 A1 20160526
PR	-AU20130903877 20131008; WO2014AU50269 20141006; AU20140334503 20141006

AP	- AU20140334503 20141006
DT	- I
CCI	- E02F9/0833 ; E06C5/04 ; E06C5/22 ; E06C5/24
CUI	- B60R3/02 ; E06C5/02 ; E06C5/32
PA	- BARJOH PTY LTD
TI	- Swing type access system for an earth mover
AB	-An access system (10) for an earth moving equipment (100) to allow a person to travel from ground level to an elevated position, said access system (10) includes an access means (12) mountable on to the earth moving equipment (100), and a retraction mechanism (50) to move the access means (10) between a deployed position (14) wherein a person can ascend or descend on the access means and a retracted position (16) wherein the access means (10) is stowed, and a locking means (52) moveable to an operative position wherein the locking means (52) restrains movement of the access means (10) in the retracted position (16).

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PN	- CA2926367 A1 20150416
PR	-AU20130903877 20131008; WO2014AU50269 20141006
AP	- CA20142926367 20141006
DT	- I
CCI	- E02F9/0833 ; E06C5/04 ; E06C5/22 ; E06C5/24
CUI	- B60R3/02 ; E06C5/02 ; E06C5/32
PA	- BARJOH PTY LTD [AU]
TI	- SWING TYPE ACCESS SYSTEM FOR AN EARTH MOVER
AB	-An access system (10) for an earth moving equipment (100) to allow a person to travel from ground level to an elevated position, said access system (10) includes an access means (12) mountable on to the earth moving equipment (100), and a retraction mechanism (50) to move the access means (10) between a deployed position (14) wherein a person can ascend or descend on the access means and a retracted position (16) wherein the access means (10) is stowed, and a locking means (52) moveable to an operative position wherein the locking means (52) restrains movement of the access means (10) in the retracted position (16).

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PN	- WO2015051409 A1 20150416
PR	- AU20130903877 20131008
AP	- WO2014AU50269 20141006
DT	- *; Rep

CT	- AU ISR (A1) AU2012321863 A1 20131107 [X] (KOMATSU MFG CO LTD); US2006070804 A1 20060406 [X] (LAPKE ROBERT A [US], et al)
CCI	- E02F9/0833 ; E06C5/04 ; E06C5/22 ; E06C5/24
CUI	- B60R3/02 ; E06C5/02 ; E06C5/32
PA	- BARJOH PTY LTD [AU]
TI	- SWING TYPE ACCESS SYSTEM FOR AN EARTH MOVER
AB	- An access system (10) for an earth moving equipment (100) to allow a person to travel from ground level to an elevated position, said access system (10) includes an access means (12) mountable on to the earth moving equipment (100), and a retraction mechanism (50) to move the access means (10) between a deployed position (14) wherein a person can ascend or descend on the access means and a retracted position (16) wherein the access means (10) is stowed, and a locking means (52) moveable to an operative position wherein the locking means (52) restrains movement of the access means (10) in the retracted position (16).