

100 Documents

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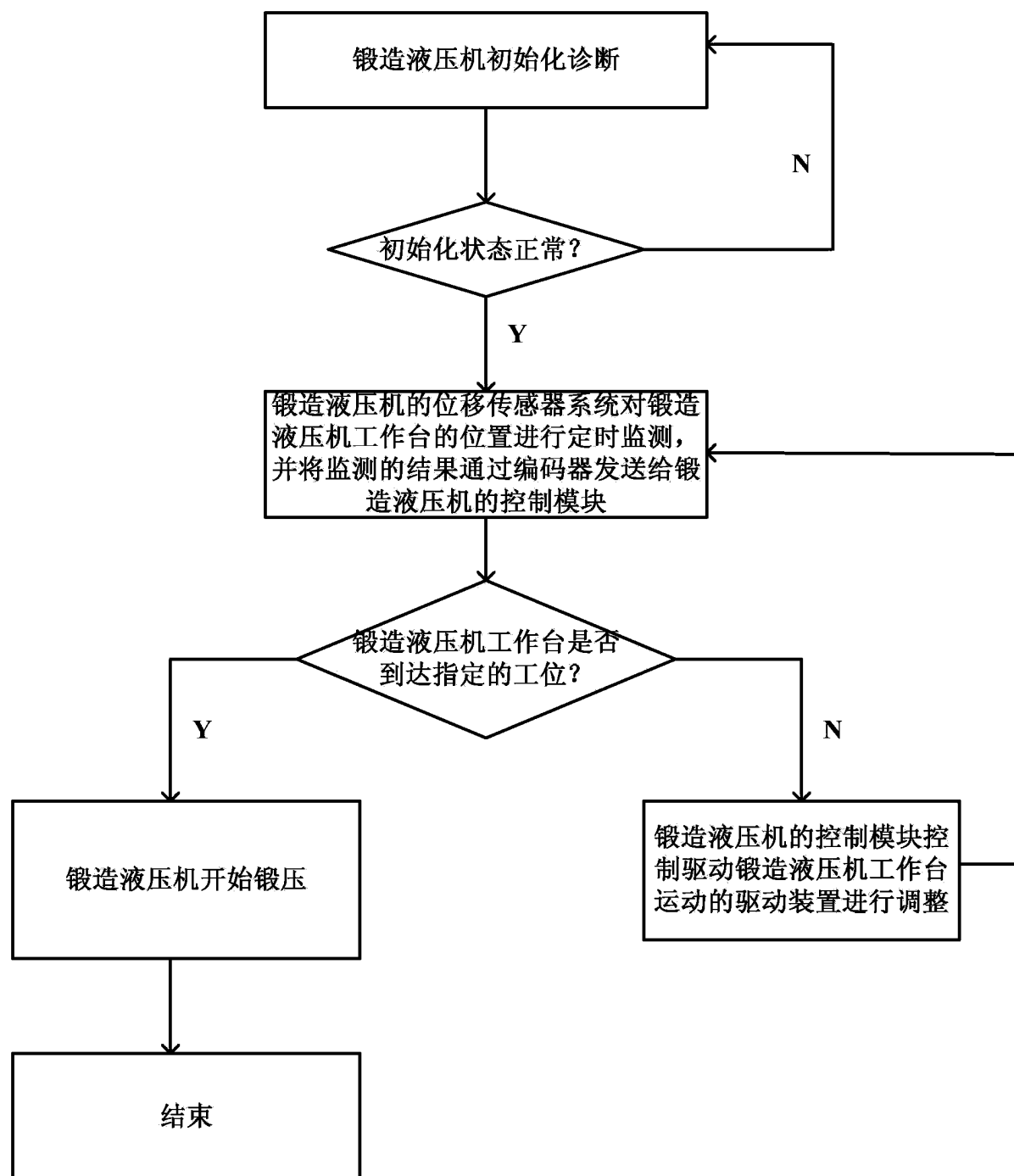
Publication numbers	Title	Current assignees
CN2741759U Y	Integrated steel cast structure hydraulic press of two-way pressed powder product	TIANJIN TIANDUAN HYDRAULIC PRESS
CN202480403U U	Hydraulic press for pressing small electrodes	TIANJIN TIANDUAN HYDRAULIC PRESS
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CN2820522U Y	Digital control moving press head clamp device for hydraulic press	TIANJIN TIANDUAN HYDRAULIC PRESS
CN202239427U U	Large-tonnage hydraulic press multi-pull-rod pre-tightening device	TIANJIN TIANDUAN HYDRAULIC PRESS
CN201613663U U	Under one kind of hydraulic press fluid pressure pad four jiao modulator	TIANJIN TIANDUAN HYDRAULIC PRESS
CN108592773 A	Liquid die forging hydraulic press sliding block unbalanced loading detection structure	TIANJIN TIANDUAN HYDRAULIC PRESS
CN103264134 A	Automatic exhausting and micro module centering control system for hydraulic forging press	TIANJIN TIANDUAN HYDRAULIC PRESS
CN2717571U Y	Quadrangular levelling device for semisolid die forging hydraulic press	TIANJIN TIANDUAN HYDRAULIC PRESS
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CN202836532U U	Hydraulic press ejection oil cylinder pull wire-type position accurate detection device	HEFEI HAIDE HYDRAULIC PRESS

Publication numbers	Title	Current assignees
CN2579556U Y	Belt cylinder slide block device for working titanium alloy on isothermal forging hydraulic press	TIANJIN TIANDUAN HYDRAULIC PRESS
CN2727696U Y	Pressure strain measuring device for hydraulic press body	TIANJIN TIANDUAN HYDRAULIC PRESS

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Title

(CN102699250)

Control method for workbench of **hydraulic** forging **press****Images****Publication data including kind & date**

CN102699250	A	2012-10-03	CN102699250
CN102699250	B	2016-01-20	CN102699250B

**Abstract**

(CN102699250)

The patent refers to the field of 'forging; hammering; pressing; riveting; forge furnaces'. The invention discloses a control method for a workbench of a **hydraulic** forging **press**. The method comprises the following steps of a first step that a self-detecting system of the **hydraulic** forging **press** performs self-detection on an original state of the **hydraulic** forging **press**; a second step that the self-detecting system performs logic judgment according to the self-detected result of the first step; a third step that the **hydraulic** forging **press** performs timed monitoring to the position of the workbench of the **hydraulic**

forging **press** by a displacement sensor; and a fourth step that a control module of the **hydraulic** forging **press** analyzes the position of the workbench of the **hydraulic** forging **press** so as to finish the follow-up work of the **hydraulic** forging **press**. According to the invention, an initialized self-detecting function for the **hydraulic** forging **press** is added, so as to reduce the failure rate of the **hydraulic** forging **press**; the displacement sensor system and the control module are used, so that the forging process is automatic and intelligent, thus achieving precise positioning on a movable workbench, and the characteristic of convenience in operation.

Inventors

ZHOU GANG

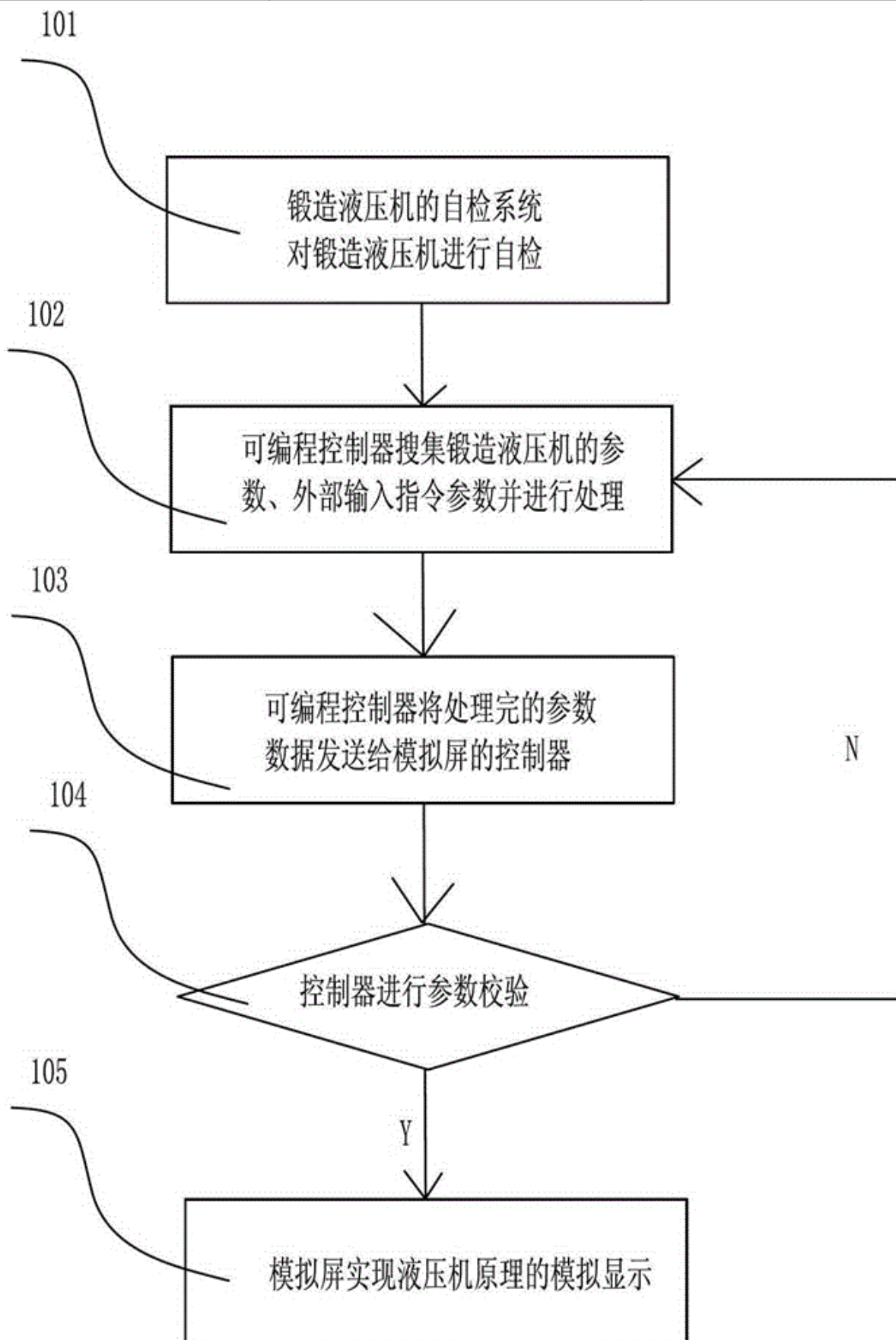
Latest standardized assignees - inventors removedTIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 2/100 - FAMPAT - ©Questel

Title

(CN103272979)

Method for displaying **hydraulic** principle of **hydraulic** forging **press** by means of imitation screen**Images**

**Publication data including kind & date**

CN103272979 A 2013-09-04 CN103272979
CN103272979 B 2016-06-08 CN103272979B

**Abstract**

(CN103272979)

The invention discloses a method for displaying the **hydraulic** principle of a **hydraulic** forging **press** by means of an imitation screen and relates to the technical field of **hydraulic** forging presses. The method for displaying the **hydraulic** principle of

the **hydraulic** forging **press** by means of the imitation screen comprises the following steps that (1) self-check of the initial state of the **hydraulic** forging **press** is carried out by a self-check system of the **hydraulic** forging **press** and the initial state of the **hydraulic** forging **press** is diagnosed according to the data of the initial state, (2) parameters and externally-input order parameters of the **hydraulic** forging **press** are collected by means of a programmable logic controller and the parameters and the order parameters are processed, (3) the processed parameter data are transmitted to a controller of the imitation screen, (4) verification of the parameter data is carried out by the controller, and (5) the controller controls the imitation screen to achieve the imitation display of the **hydraulic** principle of a **hydraulic** forging **press** when a verification result is true and the verification result is fed back to the programmable logic controller by the controller when the verification result is false to repeat the second step. The method for displaying the **hydraulic** principle of the **hydraulic** forging **press** by means of the imitation screen has the advantages that the **hydraulic** principle of the **hydraulic** forging **press** can be displayed visually, an operator can well know a **hydraulic** system conveniently, and maintenance can be achieved conveniently.

Inventors

ZHOU GANG

Latest standardized assignees - inventors removed

TIANJIN TIANDUAN HYDRAULIC PRESS

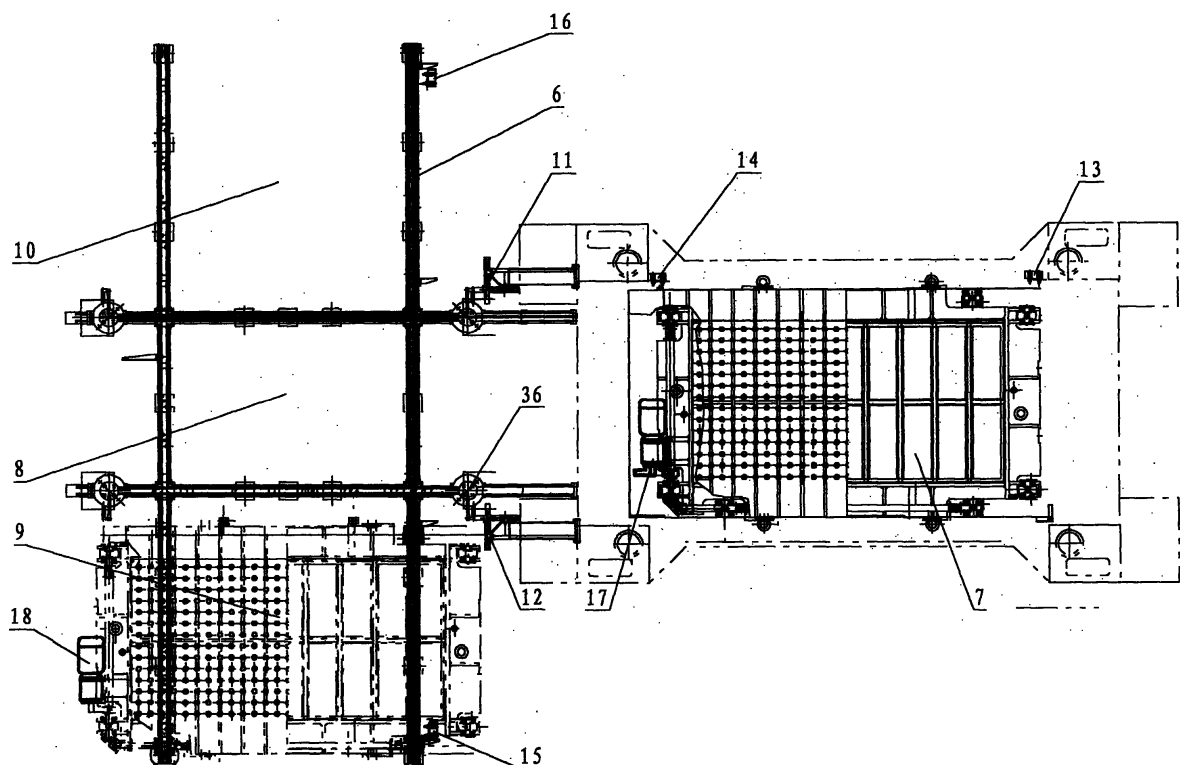
Family 3/100 - FAMPAT - ©Questel

Title

(CN101161450B)

T type double moveable platform structure of hydraulic press as well as its drive and control system

Images



Publication data including kind & date

CN101161450	A	2008-04-16	CN101161450
CN101161450	B	2010-06-23	CN101161450B



Abstract

(CN101161450)

The invention provides a T type double traverse table construct of **hydraulic press** and drive and control system, comprising T type guide rail of traverse table under the **hydraulic press** and a first moving table on the T type guide rail and a second moving table. The drive and control system are provided with controller PLC for controlling the working of the **hydraulic**

press in controlling box and control plane on the controlling box and driving circuit for electrically connecting with the controller PLC; a first moving table driving motor for connecting with the drive circuit by the conductor and a second moving table driving motor; a number of lifting jars on the T type guide rail of the **hydraulic press**; a limit switch for detecting in-position of A position, a limit switch for detecting in-position of B position, a limit switch for detecting in-position of C position and a limit switch for detecting in-position of D position under the T type guide rail of moving table and connected with the CPU module in the controller PLC. The invention runs economically, reliably and with high production efficiency. The control principle is simple, the use is convenient, with features of the **hydraulic press** of high performance, high efficiency and high automatization.

Inventors

TIAN LIHONG

Latest standardized assignees - inventors removed

TIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 4/100 - FAMPAT - ©Questel

Title

(CN105269856)

Online fault diagnosis method used for wheel hub molding **hydraulic press**

Publication data including kind & date

CN105269856	A	2016-01-27	CN105269856
CN105269856	B	2017-05-24	CN105269856B



Abstract

(CN105269856)

The invention discloses an online fault diagnosis method used for a wheel hub molding **hydraulic press**. The method comprises: step 1, a wheel hub molding **hydraulic press** and a loading and unloading robot realizing data exchange; step 2, a data acquisition module on the loading and unloading robot detecting state of the loading and unloading robot, and sending state information of the loading and unloading robot to a control module; step 3, the control module sending a loading instruction to the loading and unloading robot, after the loading and unloading robot receives the loading instruction, the robot starting to execute loading operation; step 4, after the loading operation is completed, the loading and unloading robot sending an operation completing message to the control module, after the control module receives the operation completing message, the control module issuing a process start instruction to the wheel hub molding **hydraulic press**, the wheel hub molding **hydraulic press** executing corresponding processes according to the process steps; step 5, the control module sending an unloading instruction to the loading and unloading robot, after the loading and unloading robot receives the unloading instruction, the loading and unloading robot starting to executing the unloading operation.

Inventors

ZHANG XIAOYAN

Latest standardized assignees - inventors removed

TIANJIN TIANDUAN **HYDRAULIC PRESS**

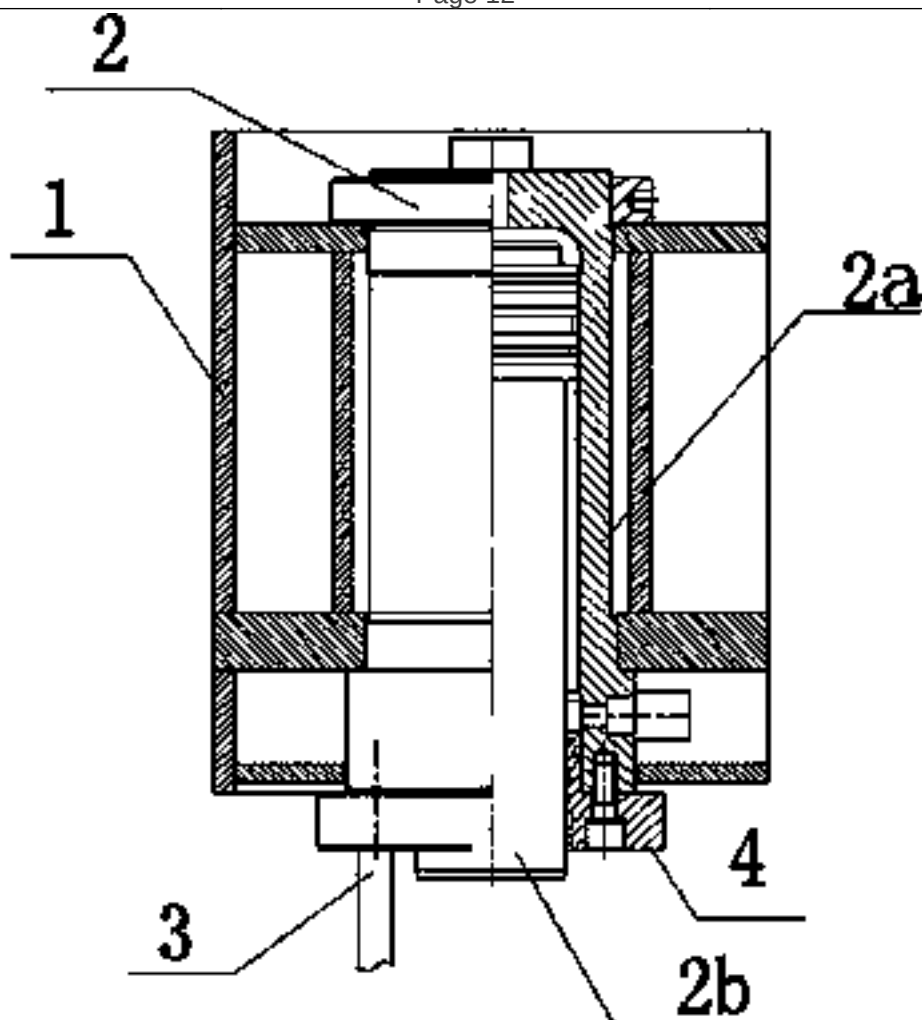
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Title

(CN102886915B)

Guide pillar guiding structure of **hydraulic press**

Images



Publication data including kind & date

CN102886915	A	2013-01-23	CN102886915
CN102886915	B	2015-07-15	CN102886915B



Abstract

(CN102886915)

The invention discloses a guide pillar guiding structure of a **hydraulic press**. The guide pillar guiding structure of the **hydraulic press** comprises an upper beam (1) of the **hydraulic press**, a **hydraulic** cylinder (2) and a guide pillar (3); the **hydraulic** cylinder (2) and the guide pillar (3) are arranged in the beam (1). The guide pillar guiding structure of the **hydraulic press** further comprises a guide sleeve (4) which is connected to an oil cylinder body (2a); and the guide sleeve (4) is used for guiding the guiding pillar (3). According to the guide pillar guiding structure of the **hydraulic press** disclosed by the invention, the guide sleeve is directly connected with an open type **hydraulic** cylinder body, therefore, guide holes with high precision for guiding the guide pillar is conveniently processed on the guide sleeve, and moreover, high guiding precision is ensured; and the guide pillar guiding structure is relatively high in practicability.

Inventors

SHAO ZHENG GUO
ZHAO XING HUA
LU XIN JIAN
SHAO ZHI QIANG
CHOU YUN YUN

Latest standardized assignees - inventors removed

NANTONG GAOYE **HYDRAULIC PRESS** MACHINE

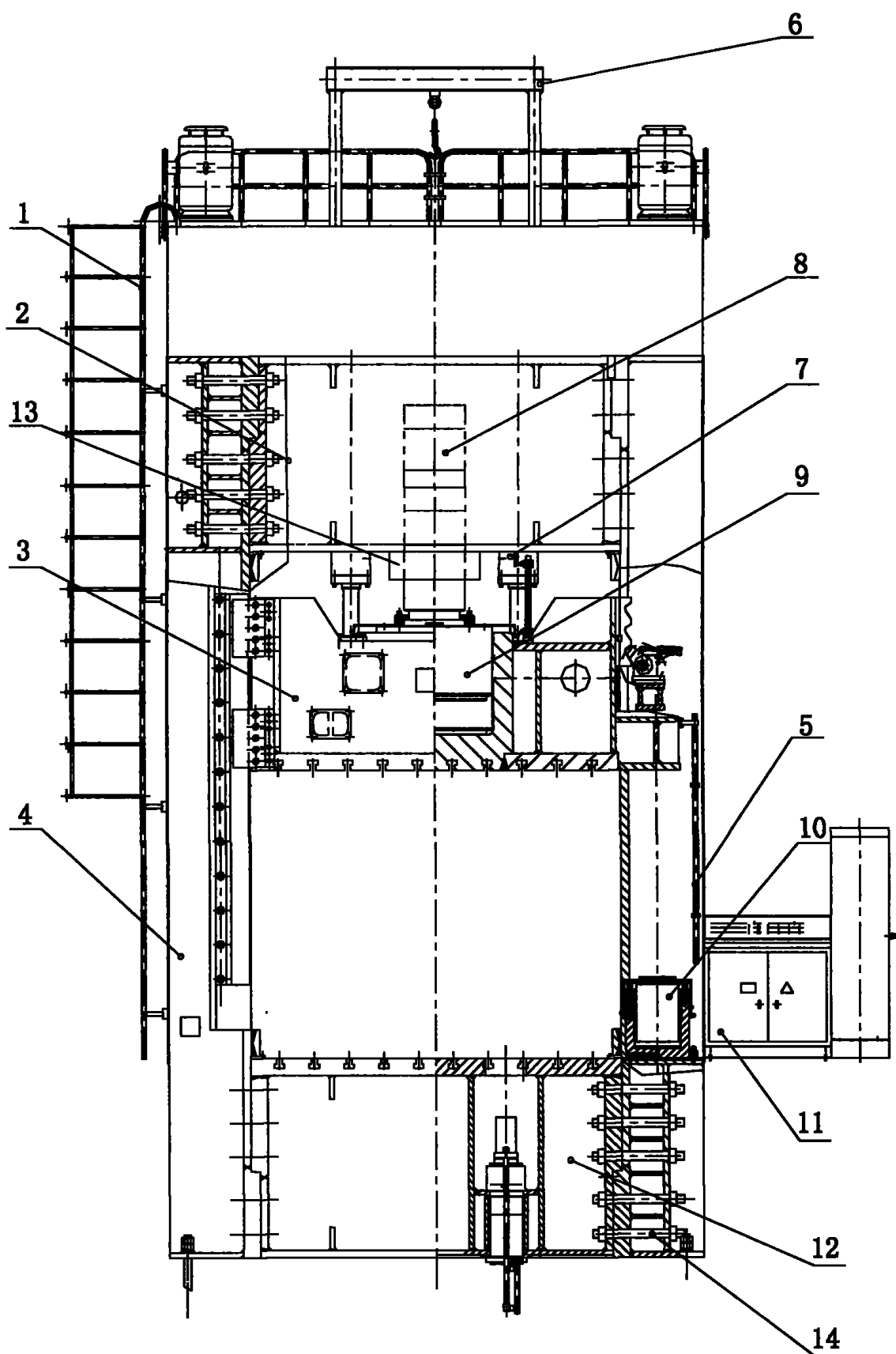
Family 6/100 - FAMPAT - ©Questel

Title

(CN101670672B)

Combined framewrok non pull rod type glass product **hydraulic press** with adjustable stroke

Images



Publication data including kind & date

CN101670672

A 2010-03-17 CN101670672

CN101670672

B 2012-03-21 CN101670672B



Abstract

(CN101670672)

The invention relates to a combined framework non pull rod type glass product **hydraulic press** with adjustable stroke, comprising a stand platform, a supporting post, an upper transverse beam, a main working oil cylinder, a slide block, a lower transverse beam and an electric control box which is mounted at the side of a machine body. The combined framework non pull rod type glass product hydraulicpress with adjustable stroke is characterized in that the internal side of the supporting post is provided with a shoulder; the upper transverse beam and the lower transverse beam are provided with shoulders, and the upper transverse beam and the lower transverse beam are fastened with the shoulder of the supporting post through the shoulders and bolt fastening components to form a gantry framework type machine body structure; and the lower plane of the upper transverse beam is provided with a gate device. The combined framework non pull rod type glass product **hydraulic press** with adjustablestroke has simple and reasonable structure as well as convenient installation and connection, lightens of the weight of a main machine, saves large amount of steel, greatly reduces the manufacture cost of the **hydraulic press** as the main working oil cylinder adopts a cylinder action type slide block structure inside which a plunger is totally mounted to result in the reduction of the length of an oil cylinder by approximate 4/5 and reduction of oil consumption of the **hydraulic press** by at least 4/5. The total power and the pump energy of the electric motor of the **hydraulic press** are below 50 percent of those of the traditional **hydraulic press**, the electric energy and industrial oil are obviously saved, and the production cost can be reduced for users.

Inventors

ZHANG LEI

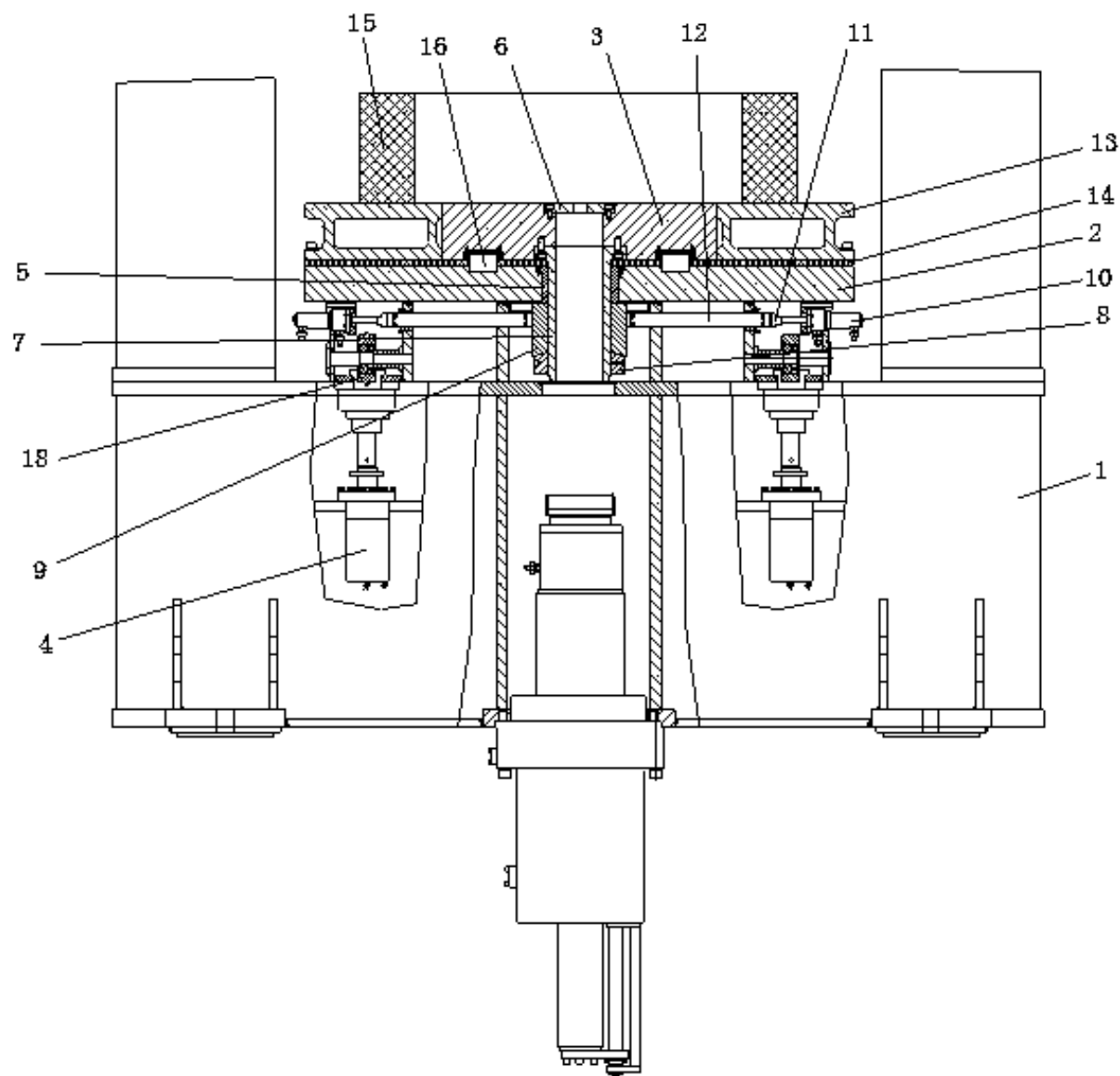
Latest standardized assignees - inventors removedTIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 7/100 - FAMPAT - ©Questel

Title

(CN104309155)

Workbench for **hydraulic press****Images**



Publication data including kind & date

CN104309155	A	2015-01-28	CN104309155
CN104309155	B	2016-04-20	CN104309155B



Abstract

(CN104309155)

The invention relates to a workbench for a **hydraulic press**. The workbench comprises a first workbench, wherein the first workbench is arranged on the upper plane of a lower beam, and can move in the front-and-back direction of the **hydraulic press**; a second rotating workbench is arranged on the first workbench; a lifting clamping cylinder for separating the first workbench from the upper plane of the lower beam is arranged in the lower beam; after the lower beam is separated from the first workbench, the first workbench is driven by a driving device to move in the front and back direction of the **hydraulic press**; a locking mechanism is also arranged between the first and second workbenches; the second workbench is driven by an ejector mechanism to be separated from the first workbench to rotate. According to the technical schemes, the two workbenches are arranged, the first workbench can move in the front and back direction of the **hydraulic press**, and the second rotating workbench is arranged in the first workbench, can move forwards and backwards along with the first workbench, and can also rotate independently, so that the special requirements of different product manufacturing processes on functions of the **hydraulic press** are met, and the equipment utilization rate is increased.

Inventors

XIAO PEIQING
YUAN LONGXIU
CAO ZHIMING

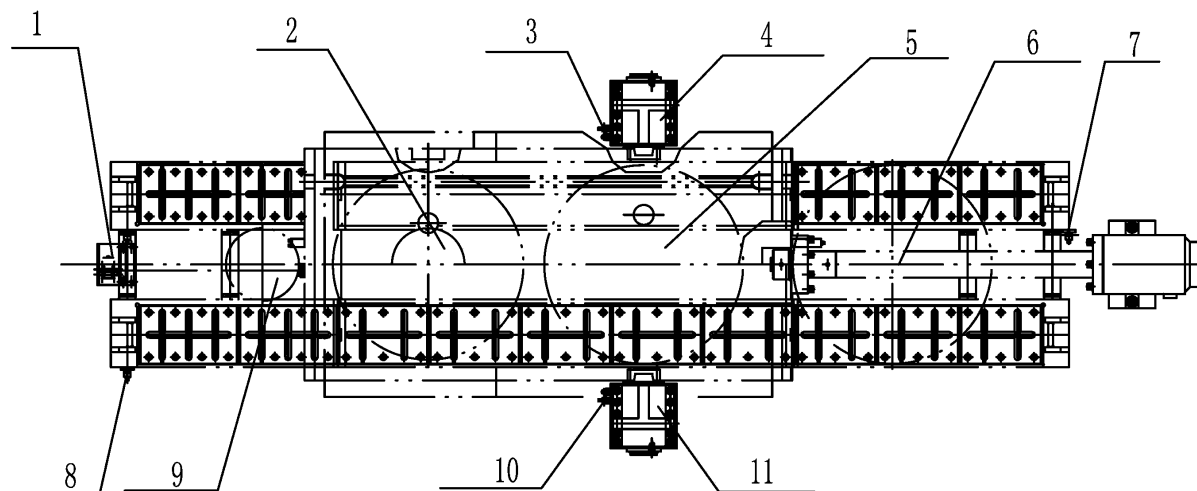
Latest standardized assignees - inventors removed

HEFEI HAIDE **HYDRAULIC PRESS**

Family 8/100 - FAMPAT - ©Questel

Title

(CN102699251B)

Large-stroke **hydraulic** forging **press****Images****Publication data including kind & date**

CN102699251	A	2012-10-03	CN102699251
CN102699251	B	2015-01-28	CN102699251B

**Abstract**

(CN102699251)

The invention discloses a travelling table and control system for a large-stroke **hydraulic** forging **press**. The travelling table and control system comprises a travelling table arranged on the body of a **hydraulic press**, a power system connected with the travelling table, and a control system connected with the power system, wherein the travelling table is connected with the body of the **hydraulic press** by a guide rail; the travelling table is provided with a T-shaped slot for fixing a mould; two ends of the travelling table are provided with a front travelling pole limit sensor and a rear travelling pole limit sensor; a right positioning cylinder and a left positioning cylinder for adjusting the longitudinal position of the mould are arranged on the two sides of the travelling table; and one end of the travelling table is provided with a workbench displacement sensor. According to the invention, a programmable controller and a plurality of displacement sensors can ensure the stable operation of the travelling table for the large-stroke **hydraulic** forging **press**, so that the forging quality of the **hydraulic** forging **press** is effectively improved.

Inventors

DUAN JUNYAN

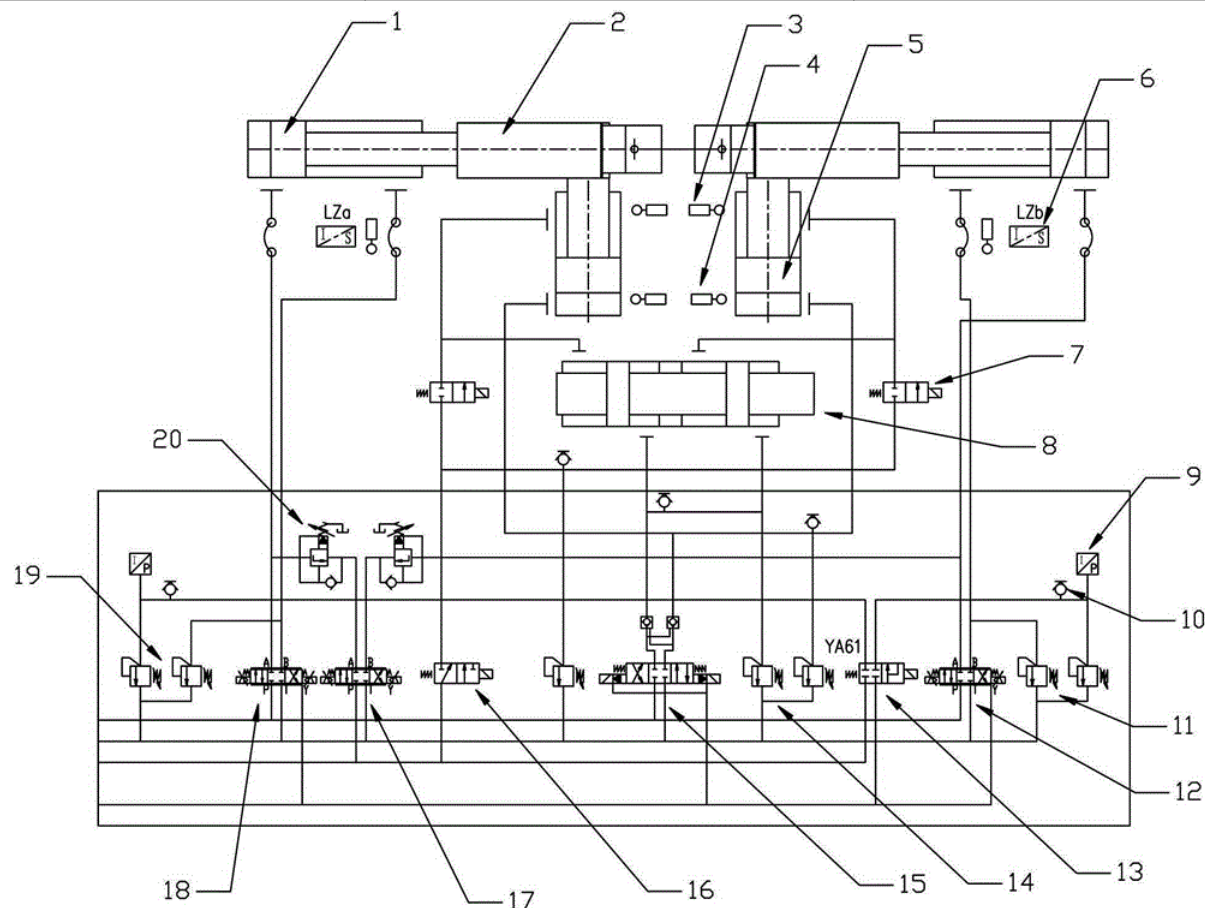
Latest standardized assignees - inventors removedTIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 9/100 - FAMPAT - ©Questel

Title

(CN103264133)

Centering control system for **hydraulic** forging **press****Images**



Publication data including kind & date

CN103264133	A	2013-08-28	CN103264133
CN103264133	B	2016-06-08	CN103264133B



Abstract

(CN103264133)

The invention discloses a centering control system for a **hydraulic** forging **press** and belongs to the technical field of **hydraulic** presses. The centering control system comprises an execution module, a location detection module and an oil pressure module. The execution module is composed of a synchronous cylinder and a first execution unit and a second execution unit which are symmetrically arranged. The first execution unit comprises a centering mechanism clamping jaw, a centering mechanism clamping cylinder and a centering mechanism jacking cylinder. The second execution unit and the first execution unit are identical in structure. The location detection module comprises a centering mechanism jacking in-place limit switch, a centering mechanism falling in-place limit switch and a horizontal digital display displacement scale. The oil pressure module comprises a first oil delivery pipe, a second oil delivery pipe and a third oil delivery pipe. According to the system, the first execution unit and the second execution unit which are completely symmetrical are utilized to achieve centering work of the **hydraulic press**, centering accuracy is well guaranteed, working accuracy of the **hydraulic press** is improved by adopting the location detection module, and safety of the **hydraulic press** is improved.

Inventors

LANG YUHANG

Latest standardized assignees - inventors removed

TIANJIN TIANDUAN **HYDRAULIC PRESS**

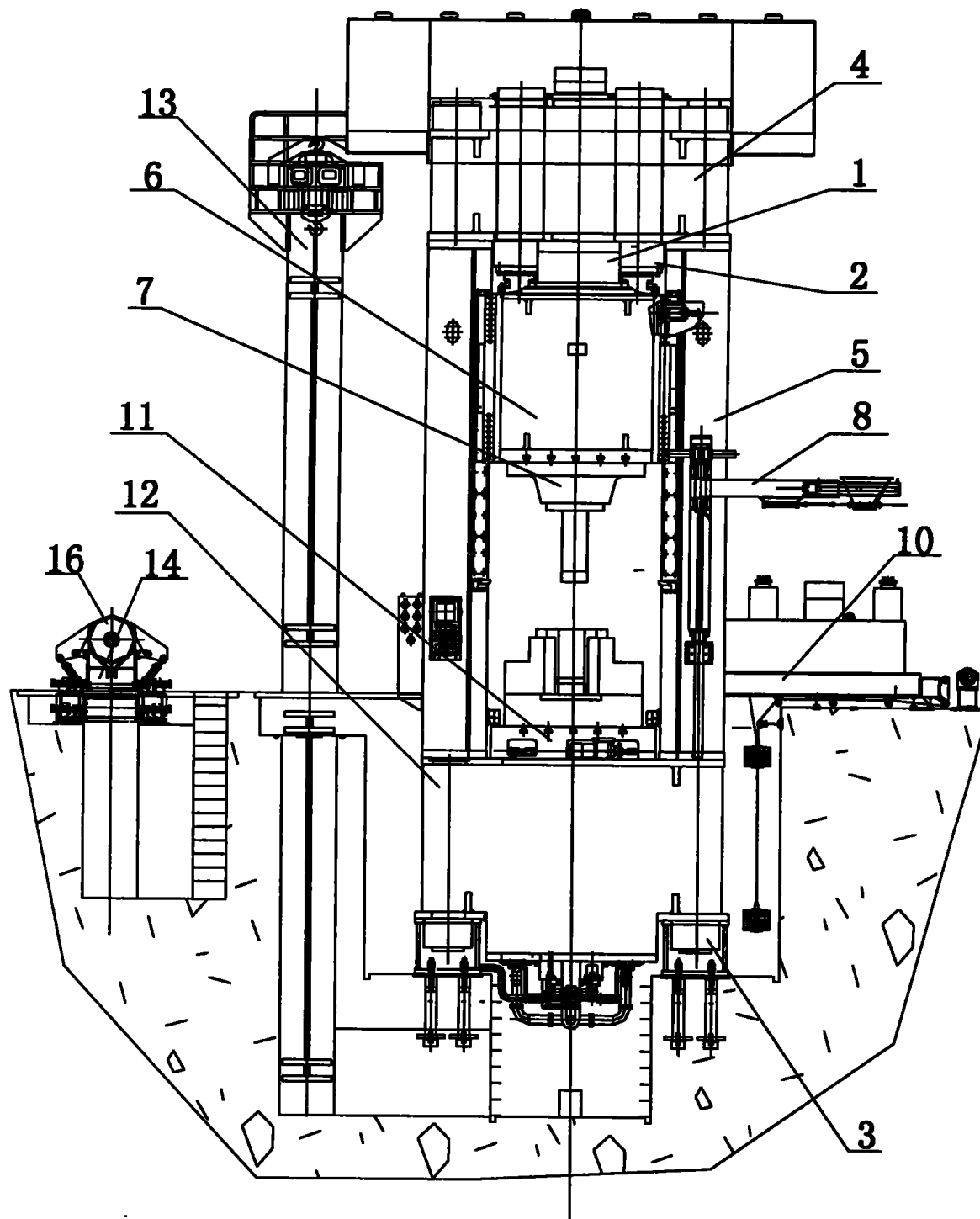
Family 10/100 - FAMPAT - ©Questel

Title

(CN101306457B)

Titanium electrode products forming **hydraulic press**

Images



Publication data including kind & date

CN101306457	A	2008-11-19	CN101306457
CN101306457	B	2011-02-16	CN101306457B



Abstract

(CN101306457)

The invention relates to a molding **hydraulic press** of titanium electrode products, which comprises an upright post, an upper beam, a main cylinder, a slide block, a lower beam, a shuttle table, a die, a loading device and a pushing device, and the invention is characterized in that the molding **hydraulic press** also comprises a demoulding system arranged on the rear side of the **press** body, a receiving assembly positioned on the left side of the **hydraulic press** and used for stacking the titanium electrode blocks into a cylindrical body, and a turnover mechanism used for realizing the turnover of the titanium electrode from a vertical state to a horizontal state. By adopting the structure of the invention which combines multiple functions as a whole, such as demoulding, pushing and stacking as well as turnover, the pressed arc-shaped titanium electrode blocks can be automatically stacked into the cylindrical electrode bar at a certain height, and then the cylindrical

electrode bar is moved to the discharge working position by a double-post moving device, swung to the turnover mechanism by an overhead travelling crane and switched stably from the vertical state to the horizontal state. Therefore, the molding **hydraulic press** solves the problems that the electrode blocks have heavy weight and difficulties in stacking manually, reduces the labor intensity of the operators and avoids the potential safety hazard caused by moving the titanium electrode bars.

Inventors

TIAN YONGKANG

Latest standardized assignees - inventors removed

TIANJIN TIANDUAN **HYDRAULIC PRESS**

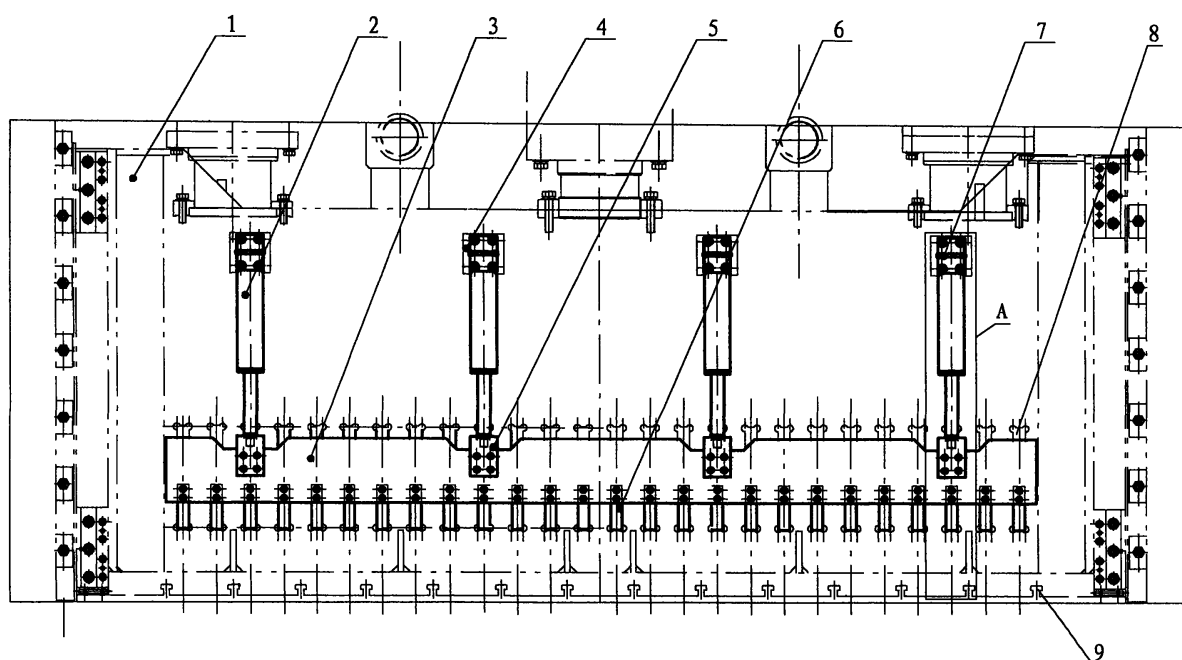
Family 11/100 - FAMPAT - ©Questel

Title

(CN100560346C)

Upper **hydraulic** cushion of single-driven **hydraulic press** sliding block

Images



Publication data including kind & date

CN101200121	A	2008-06-18	CN101200121
CN100560346	C	2009-11-18	CN100560346C



Abstract

(CN101200121)

The invention provides an upper **hydraulic** cushion of a single action **hydraulic press** slider, which is characterized in that on the front and rear sides of the **hydraulic press** slider, a row of grooves parallel to the lower surface of the slider is made. The insides of all grooves are all provided with the knockout plates with top-down movement, which are also made and distributed with a row of mandril holes leading to the lower surface of the slider. On the front and rear sides of the slider, the front pressure boards linked with the front end of each knockout plate and the rear pressure boards linked with the rear end of each knockout plate are respectively installed, and eight upper **hydraulic** cushion fuel tank driving the top-down movement of the front and rear pressure boards are also arranged. Through the knockout plates driven through the upper **hydraulic** cushion fuel tank and the mandril movement arranged inside the mandril holes, the front stretching movement of the work-piece is achieved, and the application range of the single-action **hydraulic press** is expanded. In addition, the invention also has the advantages of simple structure, easy manufacturing and low costs.

Inventors

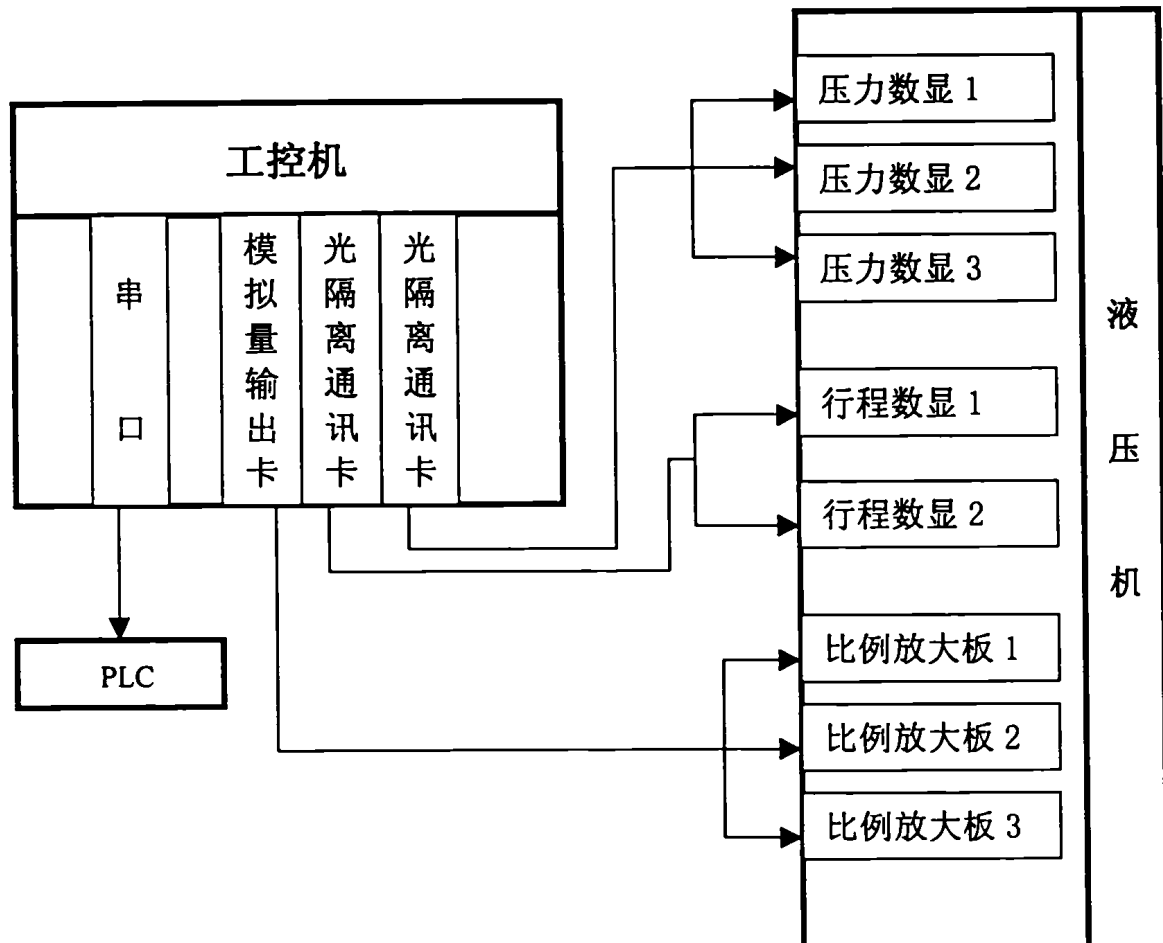
ZHANG LEI

Latest standardized assignees - inventors removedTIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 12/100 - FAMPAT - ©Questel

Title

(CN1301848C)

Monitoring system of metal extrusion **hydraulic press****Images****Publication data including kind & date**

CN1621223	A	2005-06-01	CN1621223
CN1301848	C	2007-02-28	CN1301848C

**Abstract**

(CN1621223)

The present invention is the monitoring system for metal extruding **hydraulic press** and belongs to the field of **hydraulic machinery technology**. The monitoring system consists of industrial control computer, display terminal, controller, **hydraulic press** sensor and rotary coder. Structurally, the monitoring system features that the industrial control computer is connected with the display terminal and the programmable controller; and that the industrial control computer mainboard is provided with light isolated communication card connected with the digital display of pressure and the digital display of stroke and analog amount output card connected with proportional amplifier board for controlling the proportional variable pump of the **hydraulic press**. The present invention has stepless digital control of speed, stroke and pressure of **hydraulic press**, no PLC module and lowered production cost.

Inventors

HUANG JING

Latest standardized assignees - inventors removedTIANJIN TIANDUAN **HYDRAULIC PRESS**

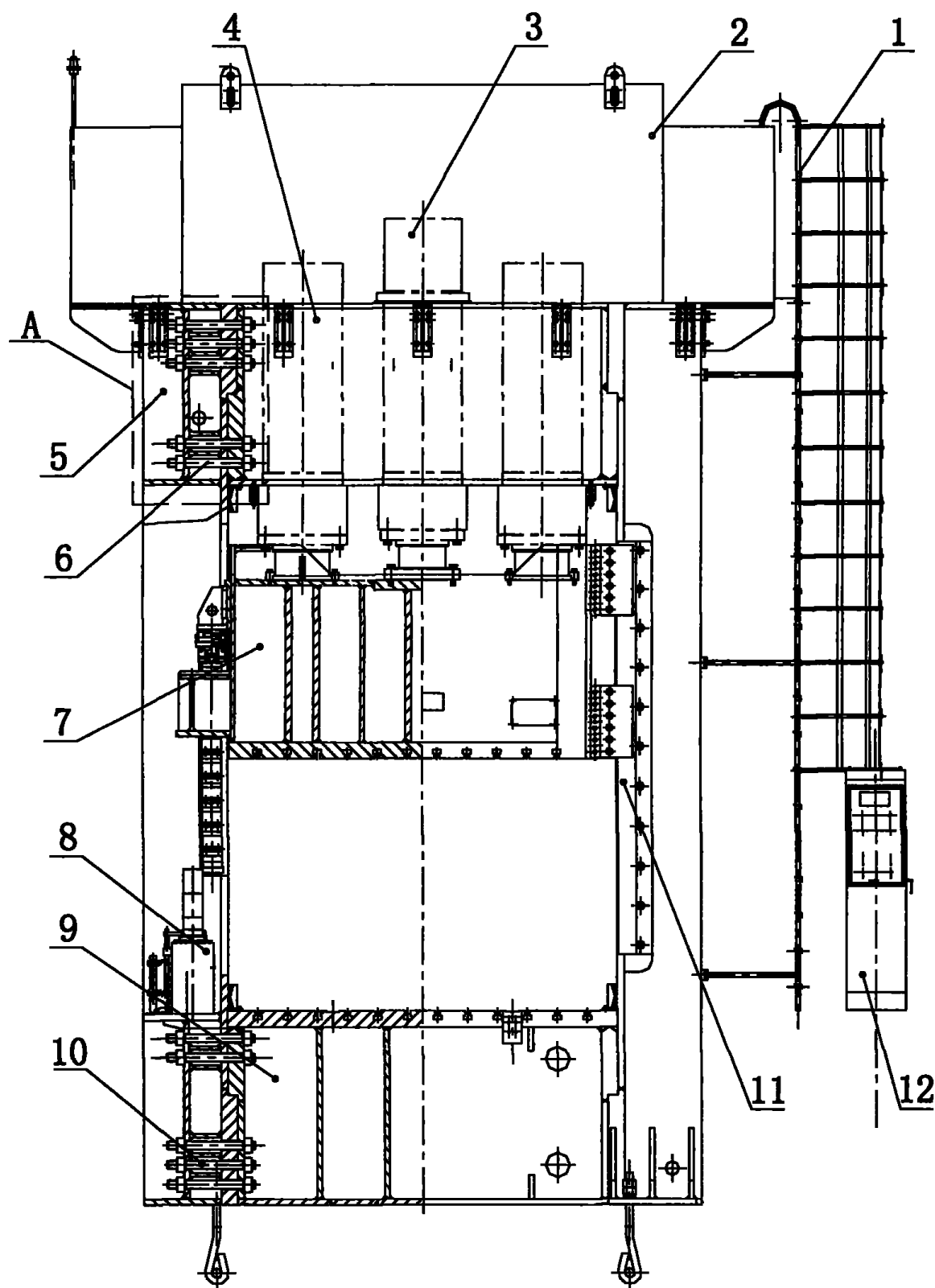
Family 13/100 - FAMPAT - ©Questel

Title

(CN101670671B)

Combined framework type glass fiber product **hydraulic press** without pull rod

Images



Publication data including kind & date

CN101670671

A 2010-03-17

CN101670671

CN101670671

B 2012-03-21

CN101670671B



Abstract

(CN101670671)

The invention relates to a combined framework type glass fiber product **hydraulic press** without a pull rod, comprising a stand platform, supporting posts, an upper cross beam, an oil tank, a main working oil cylinder, a slide block, a lower cross beam and an electric apparatus, wherein the main working oil cylinder is connected with the slide block by penetrating through the upper transverse beam. The combined frame type glass product **hydraulic press** without the pull rod is characterized in that the internal sides of both supporting posts are provided with shoulders; the upper cross beam and the lower cross beam are both provided with shoulders matched with the shoulders of the supporting posts, and the upper cross beam and the lower cross beam are fastened with the shoulders of the supporting posts through the shoulders and bolt fastening components to form a gantry framework type machine body structure; the internal sides of the supporting posts are provided with guide rails and a retaining plate of a slide block optional position locking device; and the slide block is provided with the slide block optional position locking device. The combined framework type glass product **hydraulic press** without the pull rod has simple and reasonable structure, convenient installation and connection due to the adoption of the gantry framework type machine body and good stability of precision, guarantees the safe operation inside a working area, greatly reduces the weight of a main machine, saves large amount of raw materials and reduces the manufacture cost of the **hydraulic press**.

Inventors

ZHANG LEI

Latest standardized assignees - inventors removed

TIANJIN TIANDUAN **HYDRAULIC PRESS**

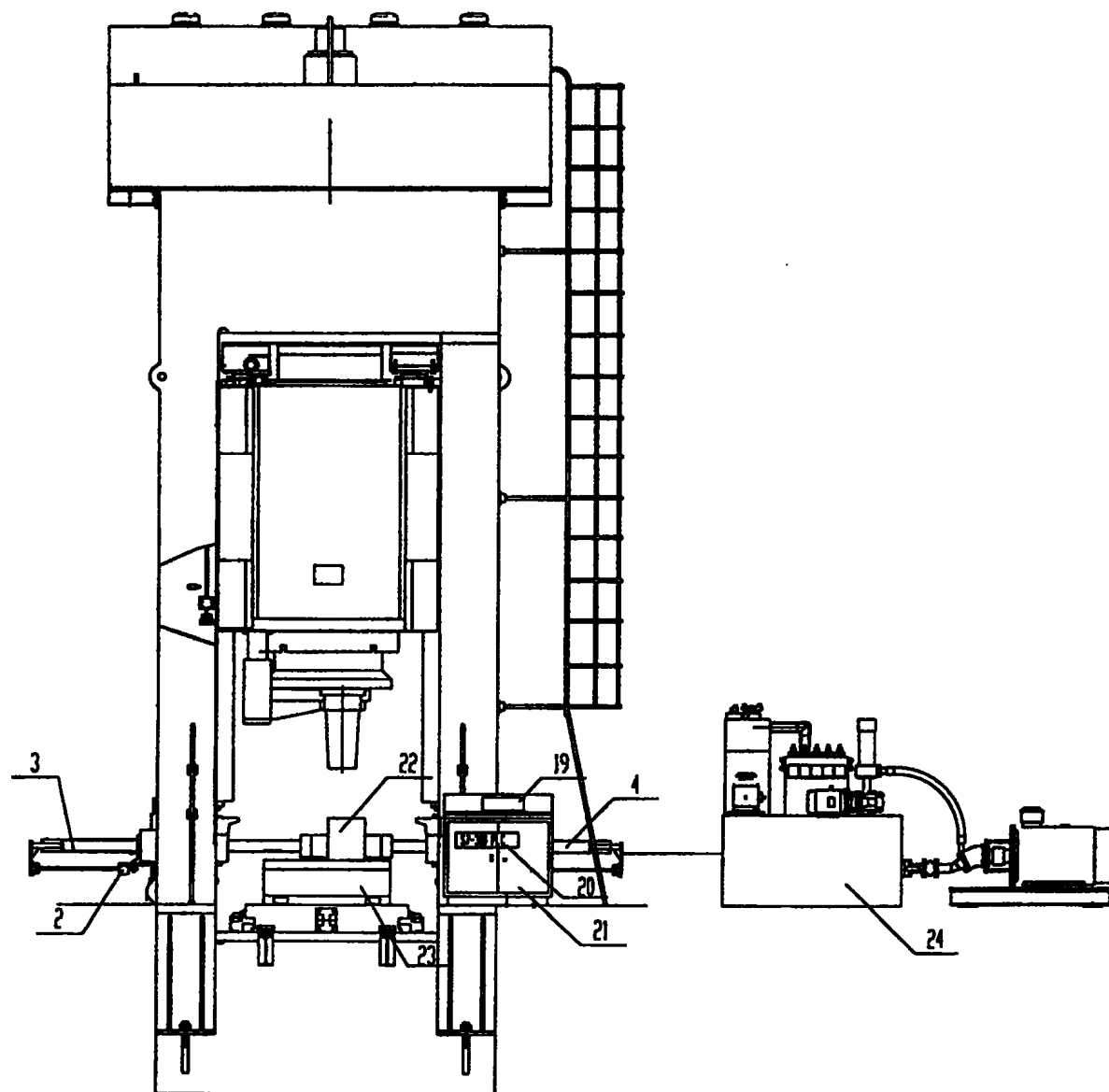
Family 14/100 - FAMPAT - ©Questel

Title

(CN100513004C)

Numerically-controlled forging **hydraulic press** capable of realizing workpiece automatic centering

Images



Publication data including kind & date

CN101164718	A	2008-04-23	CN101164718
CN100513004	C	2009-07-15	CN100513004C



Abstract

(CN101164718)

The present invention relates to a numerically-controlled forging **hydraulic press** capable of implementing automatic alignment of workpiece, belonging to the field of **hydraulic press** technology. It includes the following several portions: **hydraulic press** machine frame, movable transverse beam, working table, display, electric controller and power mechanism. Said electric controller can be used for controlling power mechanism to drive **hydraulic press** machine frame and movable transverse beam, and the electric controller is connected with the display. It is characterized by that on the working table a workpiece alignment cylinder is mounted, on the alignment cylinder a motion transducer is mounted, the alignment cylinder is connected with power mechanism, and the motion transducer is connected with electric controller.

Inventors

YANG CANG

Latest standardized assignees - inventors removed

TIANJIN TIANDUAN **HYDRAULIC PRESS**

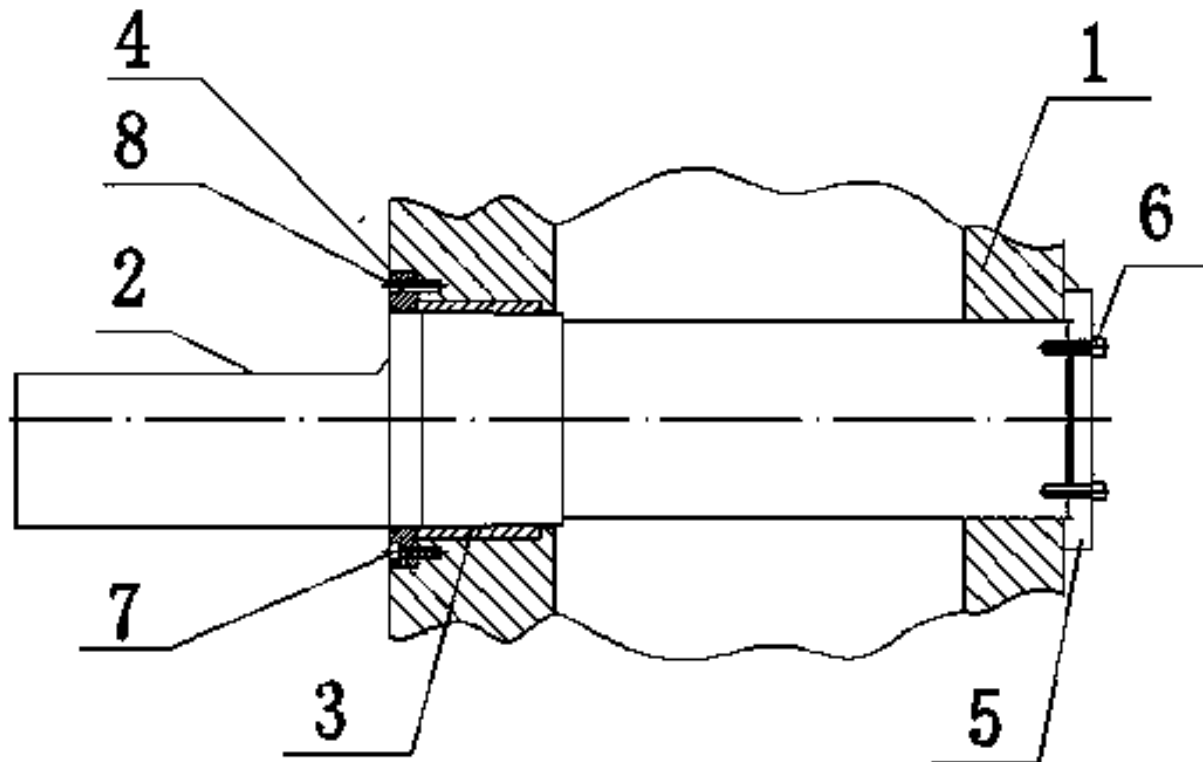
Family 15/100 - FAMPAT - ©Questel

Title

(CN102909239B)

Steel ring plastic hydraulic press workbench detachable structure

Images



Publication data including kind & date

CN102909239	A	2013-02-06	CN102909239
CN102909239	B	2015-06-17	CN102909239B



Abstract

(CN102909239)

The invention discloses a steel ring plastic hydraulic press workbench detachable structure which comprises a hydraulic press frame (1) and also comprises a workbench (2); the workbench (2) is divided into a working part (2a) and a frame connecting part (2b); holes penetrating through the two walls of the frame are formed on the frame and are a front wall hole (1a) and a rear wall hole (1b) respectively; and the workbench (2) is movably connected with the frame (1) through the two holes. The steel ring plastic hydraulic press workbench detachable structure has the beneficial effects that the structure is simple and reasonable, and the detachable separation between the steel ring plastic workbench and the frame can be realized; the workbench with other sizes and models of working parts can be replaced; the application scope is wide; meanwhile, the installation between the workbench and the frame can be facilitated; and the mounting precision of the workbench is improved.

Inventors

SHAO ZHENG GUO
 ZHAO XING HUA
 LU XIN JIAN
 SHAO ZHI QIANG
 CHOU YUN YUN

Latest standardized assignees - inventors removed

NANTONG GAOYE HYDRAULIC PRESS MACHINE

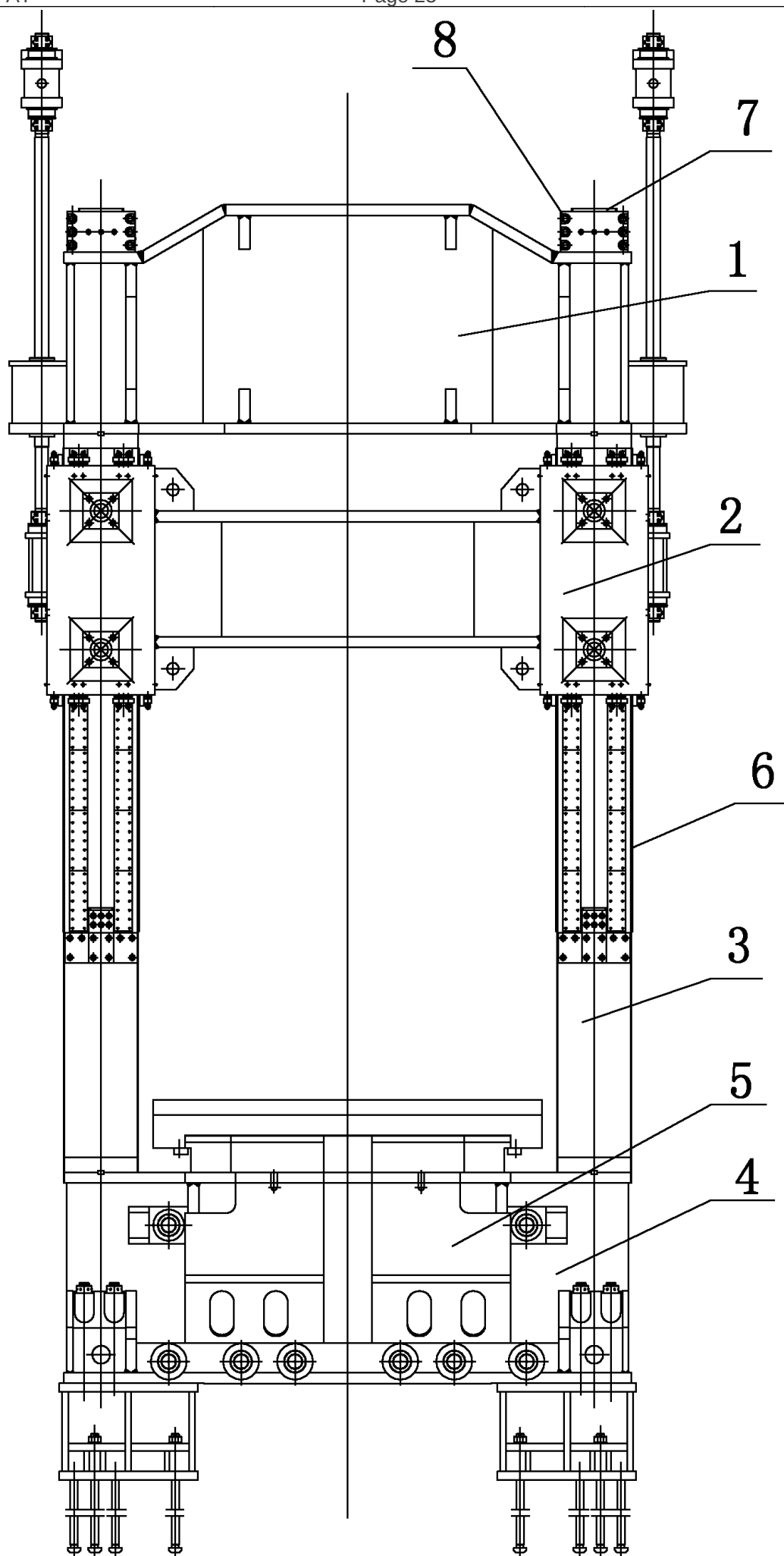
Family 16/100 - FAMPAT - ©Questel

Title

(CN102059309B)

Free hydraulic forging press

Images



Publication data including kind & date

CN102059309	A	2011-05-18	CN102059309
CN102059309	B	2013-06-12	CN102059309B

**Abstract**

(CN102059309)

The patent refers to the field of 'forging; hammering; pressing; riveting; forge furnaces'. The invention relates to a free **hydraulic** forging **press** comprising a frame **press** body, a mobile worktable and a **hydraulic** cylinder, wherein the frame **press** body comprises an upper cross beam, a sliding block, upright posts and a lower cross beam, and the mobile worktable is connected with the **press** body. The free **hydraulic** forging **press** is characterized in that the frame **press** body is in an integral pre-stressed structure, that is to say, each upright post is in a hollow structure; a pre-stressed pull rod penetrates through and is arranged in a center hole of each upright post and extends out of the upper cross beam and the lower cross beam; pre-stressed nuts are respectively arranged at the end part of each pre-stressed pull rod; a plunger piston unbalance loading resisting mechanism is arranged on the **hydraulic** cylinder; a guide device is arranged between the upright post and the sliding block; a stepped mobile mechanism is arranged below the mobile worktable; and a leveling device is arranged below the mobile worktable. The invention has the advantages of large nominal force, strong unbalance loading resistance, long sliding stroke and the like; and the mobile worktable has long moving stroke.

Inventors

LIU LINZHI

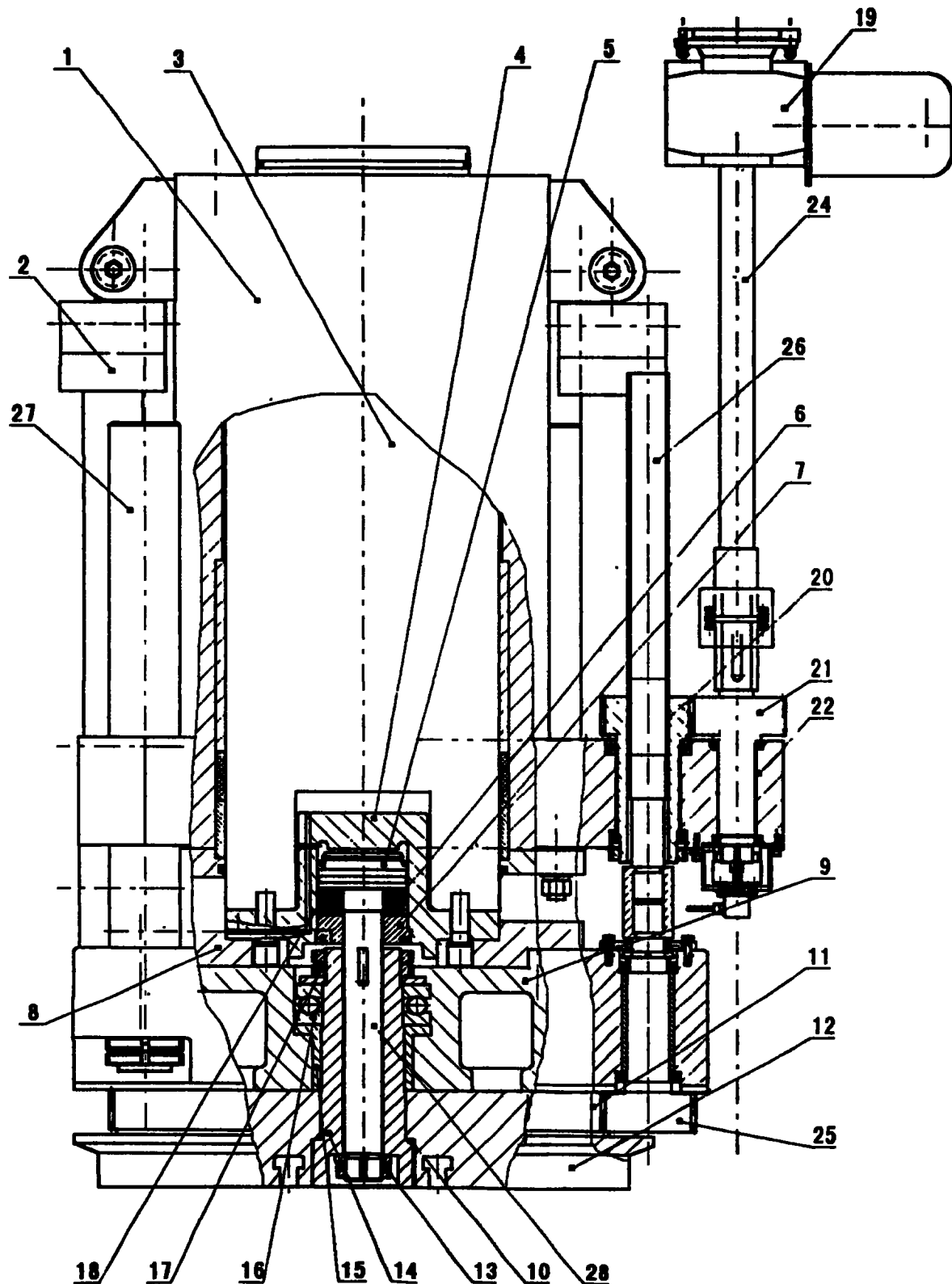
Latest standardized assignees - inventors removedTIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 17/100 - FAMPAT - ©Questel

Title

(CN2820521U)

Digital control rotary **press** head device for **hydraulic press****Images**



Publication data including kind & date

CN2820521

Y

2006-09-27

CN2820521U



Abstract

(CN2820521)

The utility model relates to a digital control rotary **press** head device of a **hydraulic press**, which is composed of a working master, a return cylinder, a connecting block, a connecting disc, a **press** head, etc. The utility model is characterized in that the upper end of the pressure head is fixed with a girth gear, and the middle place between the connecting disc and the pressure head is provided with a pressure head clamping device which is composed of a **hydraulic** cylinder provided with a butterfly spring, etc. for clamping and separating the pressure head. A revolving transmitter composed of a motor, a gear transmission system and a rotary encoder is arranged beside the cylinder body of the working master cylinder. A gear at the output end of the revolving transmitter is engaged with the girth gear at the upper end of the pressure head. The utility

model has the advantages that the working position of the pressure head can be changed according to technological requirements. When the utility model presses a work piece in specific shapes, e. g. an arc-shaped boat body, the process can be accomplished without moving the work piece and thus the work efficiency can be greatly increased. The utility model can be used as a moving **press** head arranged on a guide rail on a top cross beam of a box type **hydraulic press** and is matched with a moving rotary table arranged on a guide rail of the lower cross beam of the box type **hydraulic press**. The utility model is particularly suitable for processing work pieces of the arc-shaped boat bodies in a pressing way.

Inventors

CUI XUEPING

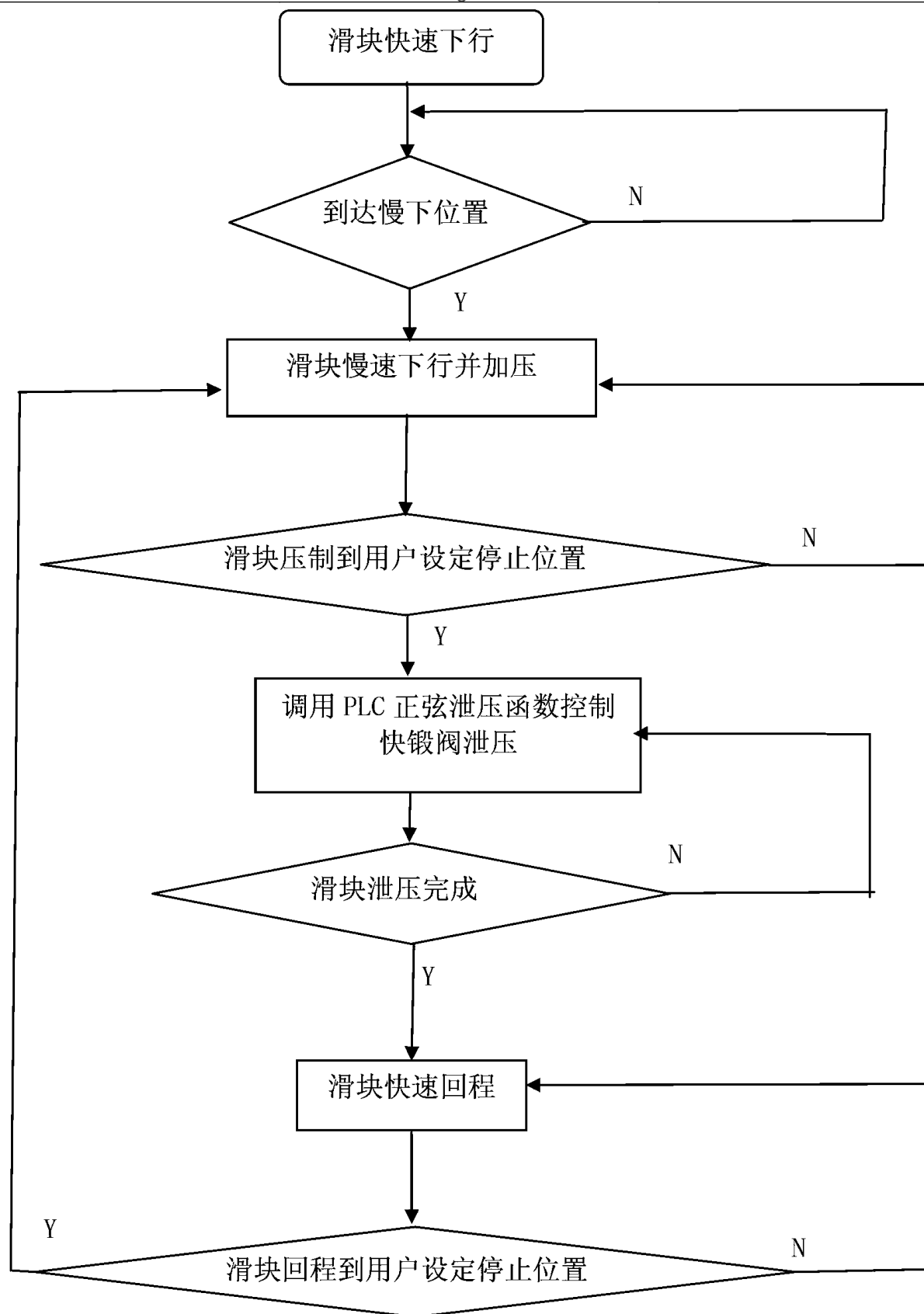
Latest standardized assignees - inventors removedTIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 18/100 - FAMPAT - ©Questel

Title

(CN102756065B)

Control method for rapid and stable pressure relief of **hydraulic press****Images**

**Publication data including kind & date**

CN102756065	A	2012-10-31	CN102756065
CN102756065	B	2015-07-15	CN102756065B

**Abstract**

(CN102756065)

The patent refers to the field of 'forging; hammering; pressing; riveting; forge furnaces'. The invention discloses a control method for rapid and stable pressure relief of a **hydraulic press**. The control method comprises the following steps: firstly setting different rapid descending speeds and different descending positions of a sliding block by a user; controlling the

rapid descending of the sliding block; judging whether the sliding block reaches a set slow descending position; controlling the slow descending of the sliding block, and simultaneously pressurizing the sliding block; judging whether the sliding block is pressed and reaches a stop position set by the user; calling a sine pressure relief subprogram to control the pressure relief of a high-speed forging valve; judging whether the pressure relief of the sliding block is completed; carrying out rapid return stroke of the sliding block; and judging whether the actual position of the sliding block is equal to the stop position set by the user. By writing a sine pressure relief function in a PLC (Programmable Logic Controller) to control the pressure relief of the ATOS high-speed forging valve, the control method realizes the stable and rapid pressure relief function of a high-speed forging **hydraulic press**. Through the stable and rapid pressure relief, the forging frequency of the high-speed forging **hydraulic press** is increased, and the **hydraulic** shock and vibration are reduced.

Inventors

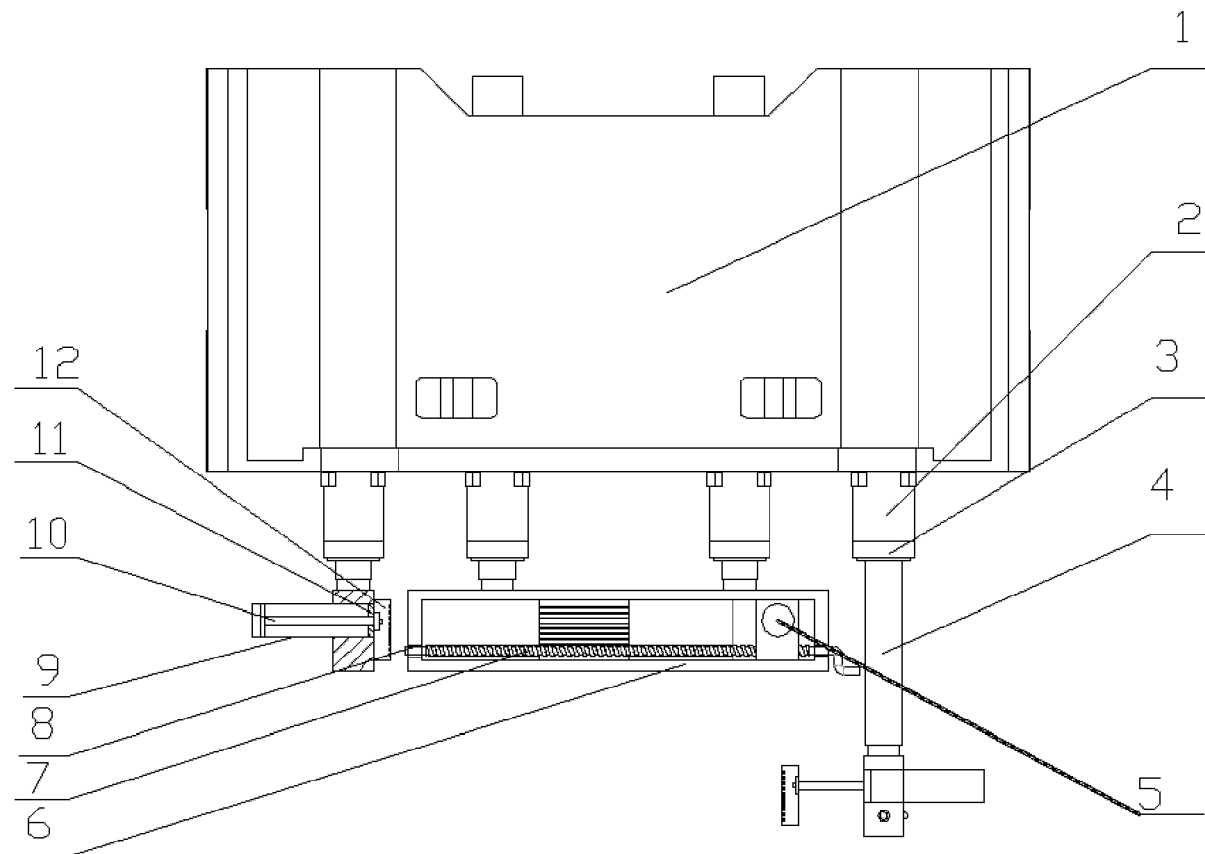
LIU CHUNPING

Latest standardized assignees - inventors removedTIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 19/100 - FAMPAT - ©Questel

Title

(CN102649303B)

Lateral-pressure auxiliary core pulling device for composite material product **hydraulic press** sliding block**Images****Publication data including kind & date**

CN102649303	A	2012-08-29	CN102649303
CN102649303	B	2015-03-25	CN102649303B

**Abstract**

(CN102649303)

The invention relates to a lateral-pressure auxiliary core pulling device for a composite material product **hydraulic press** sliding block, which comprises a vertical moving device, a horizontal moving device and a pressurized core pulling device, wherein the vertical moving device comprises a telescopic cylinder, a telescopic arm and a gasket; the horizontal moving device comprises a square guide rail, a sliding block, a bearing and a hand-cranking lead screw; the pressurized core

pulling device comprises a small oil cylinder and a workbench; the vertical moving device is connected with the horizontal moving device by the telescopic arm; and the horizontal moving device is connected with the pressurized core pulling device by the sliding block. The lateral-pressure auxiliary core pulling device for the composite material product **hydraulic press** sliding block comprises three axial directions of the space, the core pulling requirement on any position on any side surface can be realized, the lateral-pressure auxiliary core pulling device can be installed on four side surfaces of the sliding block, and the core pulling and parting requirement of any position on any four side surfaces of a composite material product can be simultaneously satisfied. In addition, the lateral-pressure auxiliary core pulling device for the composite material product **hydraulic press** sliding block has the advantages of simple structure and is convenient and quick to operate, structures of which the side surfaces are provide with grooves, profile holes and the like can be satisfied, and the compression molding requirement of the composite material product which needs lateral parting and core pulling can be satisfied.

Inventors

SONG JISHUN

LI SEN

ZHANG JIANMIN

Latest standardized assignees - inventors removed

TIANJIN TIANDUAN **HYDRAULIC PRESS**

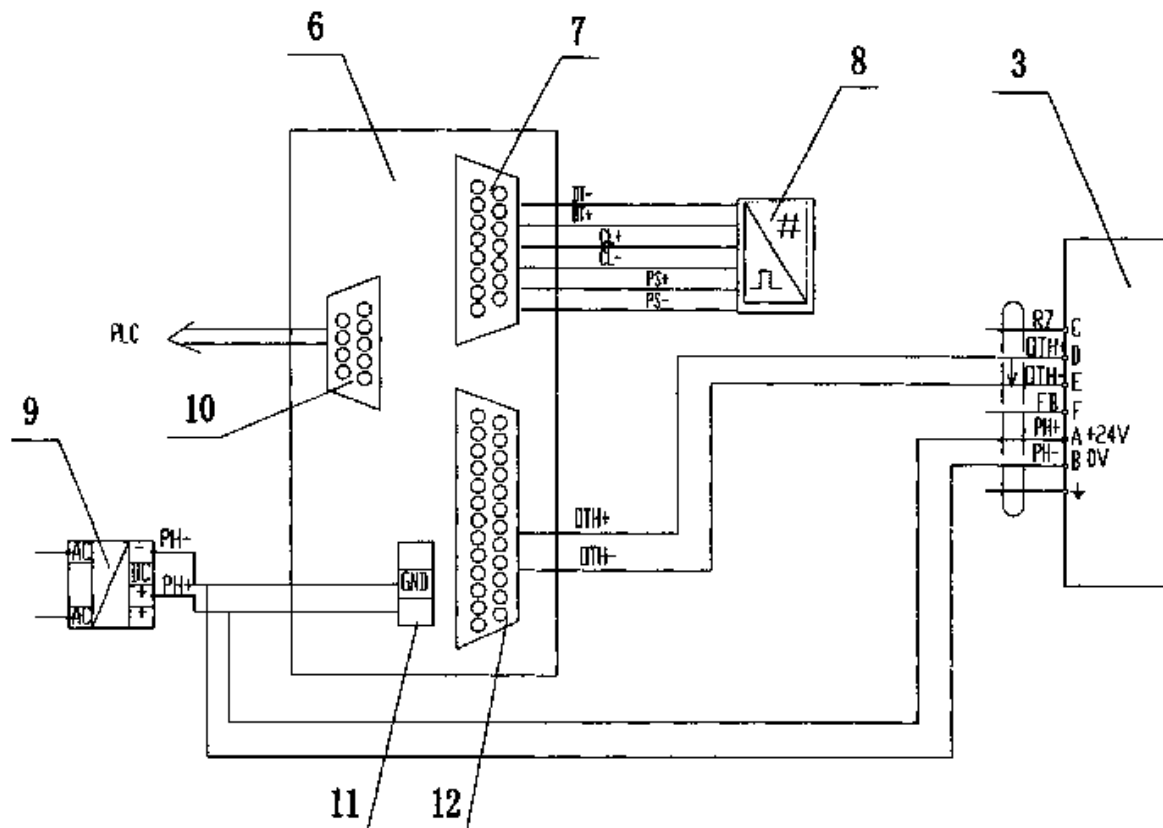
Family 20/100 - FAMPAT - ©Questel

Title

(CN2717678U)

Integrated parameter setting and tracking semisolid **hydraulic press** complete equipment

Images



Publication data including kind & date

CN2717678

Y

2005-08-17

CN2717678U



Abstract

(CN2717678)

The utility model relates to an integrated parameter setting and tracking semisolid **hydraulic press** complete equipment,

belonging to the technical field of **hydraulic** presses. The integrated parameter setting and tracking semisolid **hydraulic press** complete equipment comprises a **hydraulic-press** controller, a **hydraulic-press** sensor, an actuator and a display; the **hydraulic-press** sensor is connected with the **hydraulic-press** controller, and the **hydraulic-press** controller is connected with the actuator and the display. The integrated parameter setting and tracking semisolid **hydraulic press** complete equipment is characterized in that: the **hydraulic-press** controller is connected with a slider closed loop controller, the slider closed loop controller is connected with a slider displacement sensor, and the slider closed loop controller is connected with a slider proportion servo valve with amplifier integration. The utility model has the functions of the integrated parameter setting and tracking, and the system can conduct self-adjustment; the utility model has simple structure, stable work, dependability and high degree of automation, so the utility model considerably improves the machining accuracy and the work piece quality of the **hydraulic press**.

Inventors

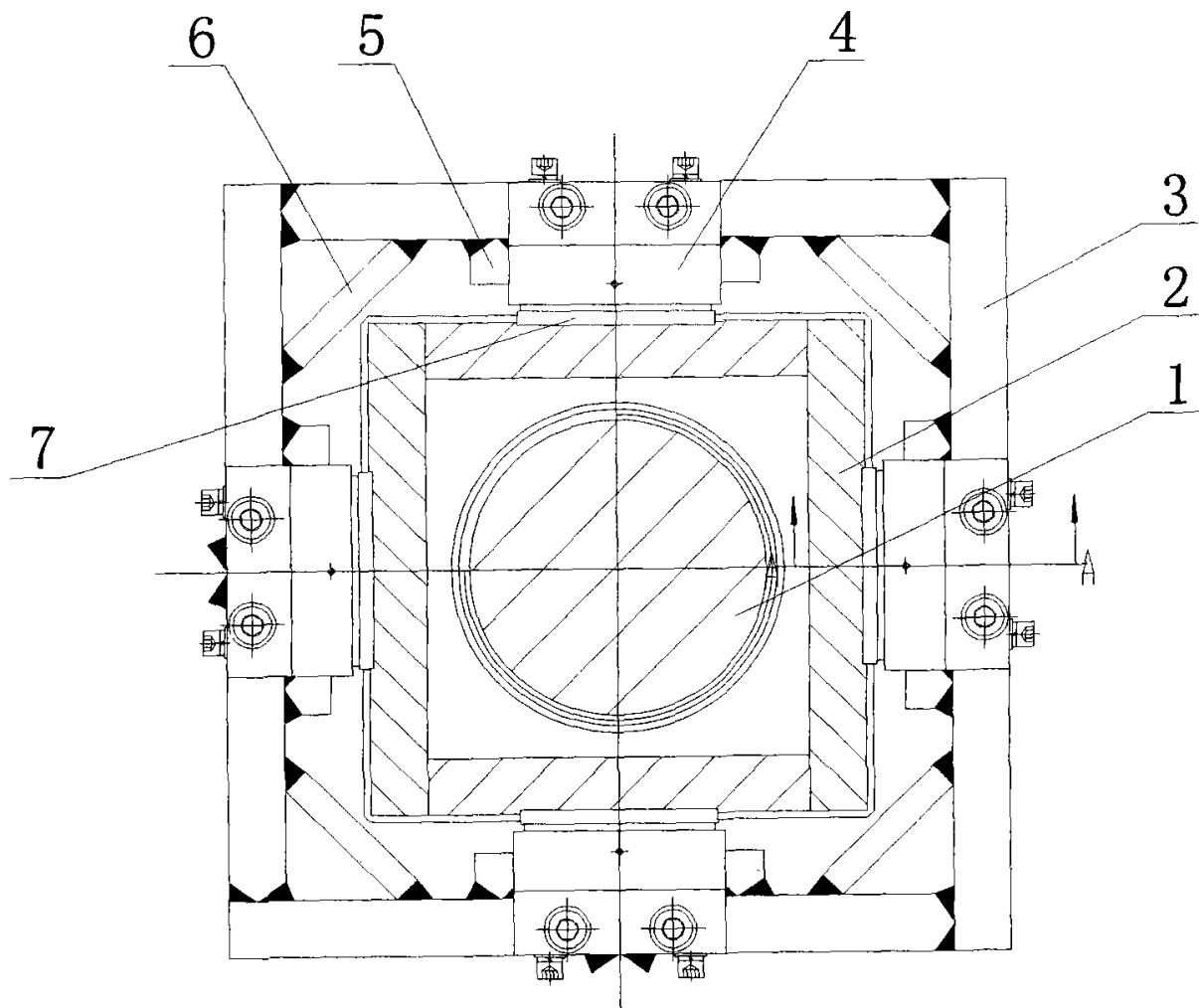
LIU CHUNPING

Latest standardized assignees - inventors removedTIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 21/100 - FAMPAT - ©Questel

Title

(CN101758639B)

Sliding block guide track structure of four-column **hydraulic press****Images****Publication data including kind & date**

CN101758639	A	2010-06-30	CN101758639
CN101758639	B	2013-04-10	CN101758639B

**Abstract**

(CN101758639)

The invention relates to a sliding block guide track structure of a four-column **hydraulic press**. The sliding block guide track structure is characterized in that the four columns of the **hydraulic press** are rectangular, guide tracks are arranged on the four side surfaces of each column, rectangular guide chambers matched with the column guide tracks are arranged at the four corners of the sliding block of a **hydraulic press**, and a guide plate and an adjusting device matched with the guide tracks are correspondingly installed on the internal side of each guide chamber. The thrust surface of a sliding block guide mechanism is increased, the problem that the clearance between guide tracks becomes smaller because of unbalance loading is solved, the strength and the unbalanced loading resistance of the sliding block guide mechanism are greatly improved and the service life of the sliding block guide mechanism is improved; and the installation is easy and the adjustment of the clearance between guide tracks is convenient.

Inventors

WU YANG

Latest standardized assignees - inventors removed

TIANJIN TIANDUAN **HYDRAULIC PRESS**

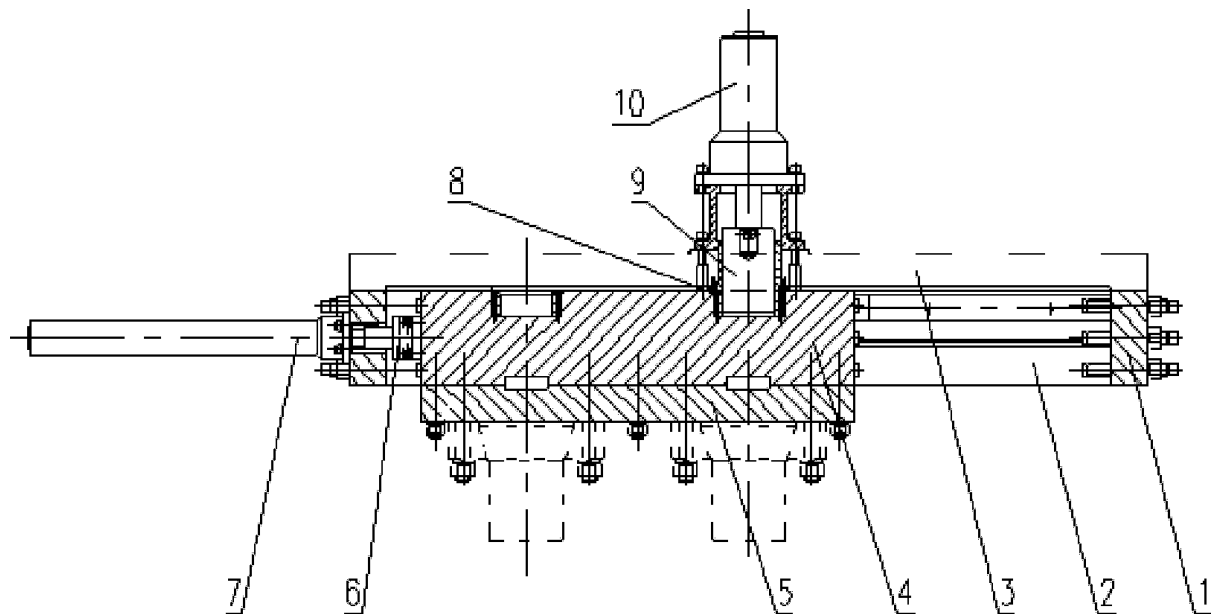
Family 22/100 - FAMPAT - ©Questel

Title

(CN102529143B)

Hydraulic rapid moving and punching device of **hydraulic press**

Images



Publication data including kind & date

CN102529143	A	2012-07-04	CN102529143
CN102529143	B	2015-04-08	CN102529143B



Abstract

(CN102529143)

The invention discloses a **hydraulic** rapid moving and punching device of a **hydraulic press**, which comprises a front guide rail, a rear guide rail, a left connecting plate, a right connecting plate and an upper sliding plate, wherein the front guide rail, the rear guide rail, the left connecting plate and the right connecting plate are connected to form an integral frame to be arranged on the lower plane of a **hydraulic press** sliding block; the upper sliding plate is arranged on the front guide rail and the rear guide rail and moves and punches left and right under the driving of a driving mechanism; after the upper sliding plate moves to a position, the upper sliding plate is accurately positioned through a positioning mechanism; and after the upper sliding plate is positioned, the upper sliding plate is locked through a locking mechanism and rigidly connected with the **hydraulic press** sliding block. The **hydraulic** rapid moving and punching device has the advantages that the structural design is compact, the device is stable to move, the positioning is accurate, the locking force is uniform and reliable, the device is convenient to disassemble, so that the production efficiency is doubled, and the requirement of automation

production is realized.

Inventors

XIAO PEIQING

Latest standardized assignees - inventors removed

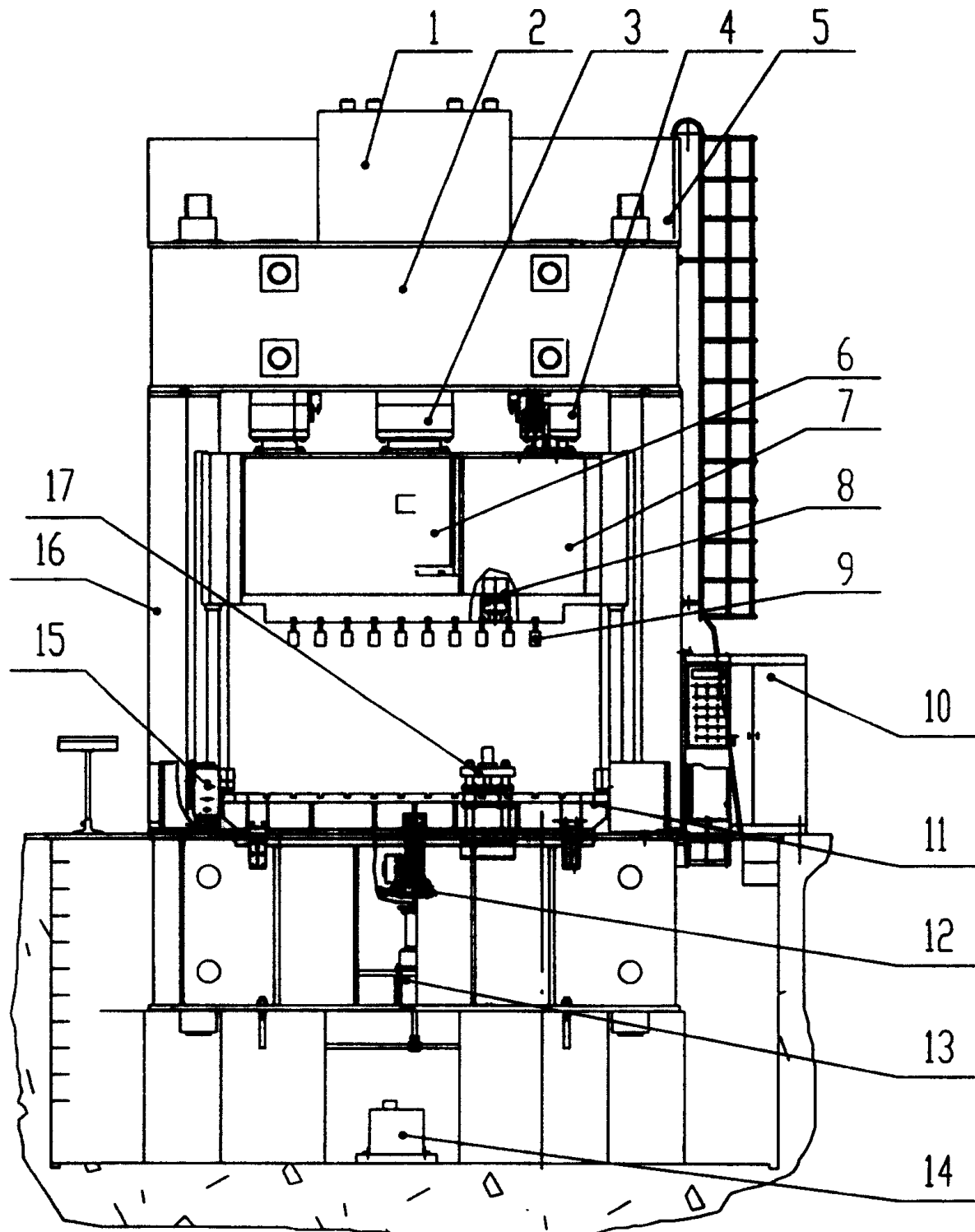
HEFEI HAIDE **HYDRAULIC PRESS**

Family 23/100 - FAMPAT - ©Questel

Title

(CN100348407C)

Semi-solid state shaping **hydraulic press** with dual sliding-block mechanism

Images

Publication data including kind & date

CN1775519

A 2006-05-24 CN1775519



CN100348407

C 2007-11-14 CN100348407C

Abstract

(CN1775519)

The present invention relates to a semi-solid forming **hydraulic press** with double slide block mechanism, belonging to the field of **hydraulic** automatic control technology. Said **hydraulic press** includes the following several portions: frame structure, controller, mould-locking slide block, charged slide block, working table, spraying device and its nozzle, feeding pipe, mobile oil cylinder, pressure device and automatic clamping device. Said invention also provides their connection mode, its working principle and application range.

Inventors

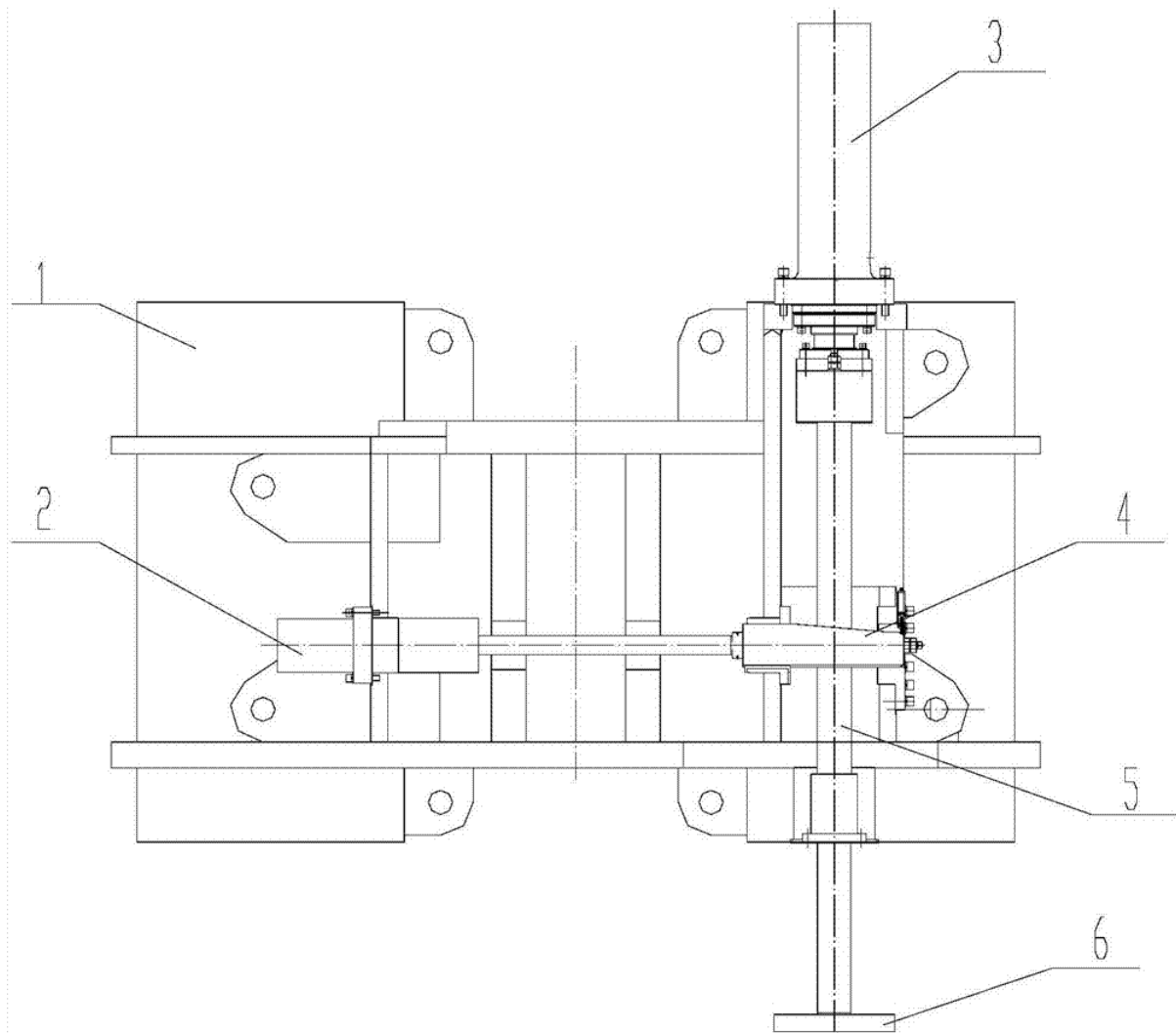
SUI YAN

Latest standardized assignees - inventors removedTIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 24/100 - FAMPAT - ©Questel

Title

(CN107377843)

Punching structure of forging **hydraulic press****Images****Publication data including kind & date**

CN107377843

A 2017-11-24 CN107377843

**Abstract**

(CN107377843)

The invention discloses a punching structure of a forging **hydraulic press**, and relates to the technical field of the **hydraulic**

press. The punching structure is characterized by comprising at least a **hydraulic press** sliding block (1), a horizontal telescopic locking oil cylinder (2), a vertical telescopic material punching oil cylinder (3), a punching head (5) placed on an anvil block of the **hydraulic press**, a locking wedge iron (4) mounted on the locking oil cylinder (2) and a material punching plate (6) for separating a workpiece; the material punching plate (6) is arranged at the lower end of a piston rod of the material punching oil cylinder (3); a shell of the locking oil cylinder (2) is fixedly connected with the **hydraulic press** sliding block (1); the shell of the material punching oil cylinder (3) is fixedly connected with the **hydraulic press** sliding block (1). The punching structure of the forging **hydraulic press** is used for installing the corresponding punch head on the sliding block of the **hydraulic press** by using the quick-change punching structure. The forging **hydraulic press** is used for forging punching and setting punching frame to separate punched forge pieces and the punching head when loop pieces are specially forged by the forging **hydraulic press**, and the aim of punching the forge pieces is achieved.

Inventors

LIU SHUNLI

TIAN WEI

HU BIN

Latest standardized assignees - inventors removed

TIANJIN TIANDUAN **HYDRAULIC PRESS**

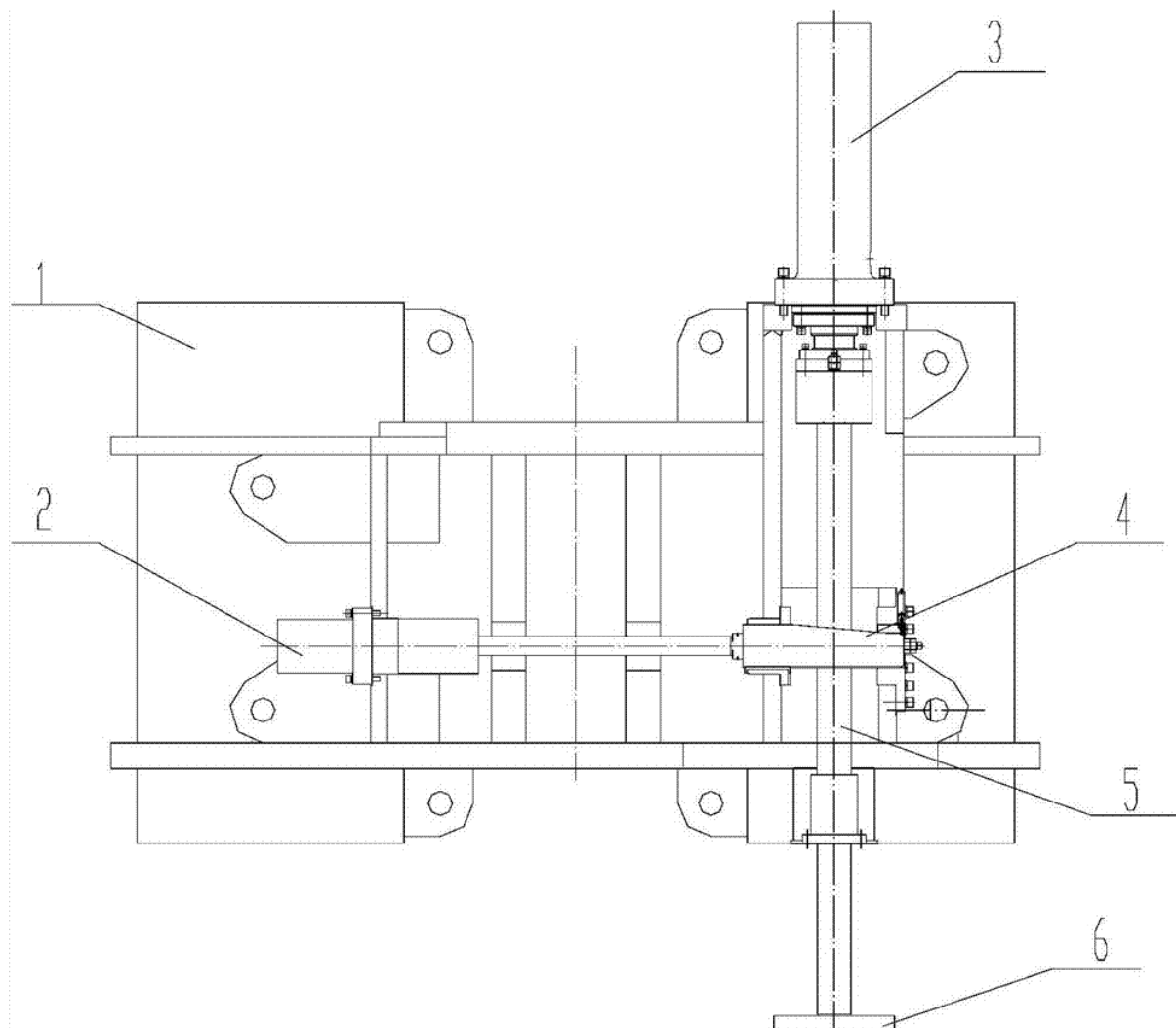
Family 25/100 - FAMPAT - ©Questel

Title

(CN207343689U)

Forging **hydraulic press**'s structure of punching a hole

Images



Publication data including kind & date

CN207343689

U

2018-05-11

CN207343689U



Abstract

(CN207343689)

The utility model discloses a forging **hydraulic press**'s structure of punching a hole relates to **hydraulic press** technical field, its characterized in that: at least, include: **hydraulic press** slider (1), flexible locking hydro -cylinder (2) of level, vertical flexible dnockout hydro -cylinder (3), lay drift (5) on **hydraulic press** anvil, install the locking wedge iron (4) on locking hydro -cylinder(2), and separation work piece knockout plate (6) used, wherein: install in the lower end of the piston rod of dnockout hydro -cylinder (3) knockout plate (6), shell and **hydraulic press** slider (1) fixed connection of locking hydro -cylinder (2), the shell and **hydraulic press** slider (1) the fixed connection of dnockout hydro -cylinder (3). This forging **hydraulic press**'s structure of punching a holeutilizes quick change punch structure to install corresponding drift on the **hydraulic press** slider for forging **hydraulic press** is used for forging and punches a hole, and set up the dnockout frame when forging the ring piece specially, and the feasible back forging that punches a hole is separated with the drift, reaches the purpose of punching a hole to the forging.

Inventors

LIU SHUNLI

TIAN WEI

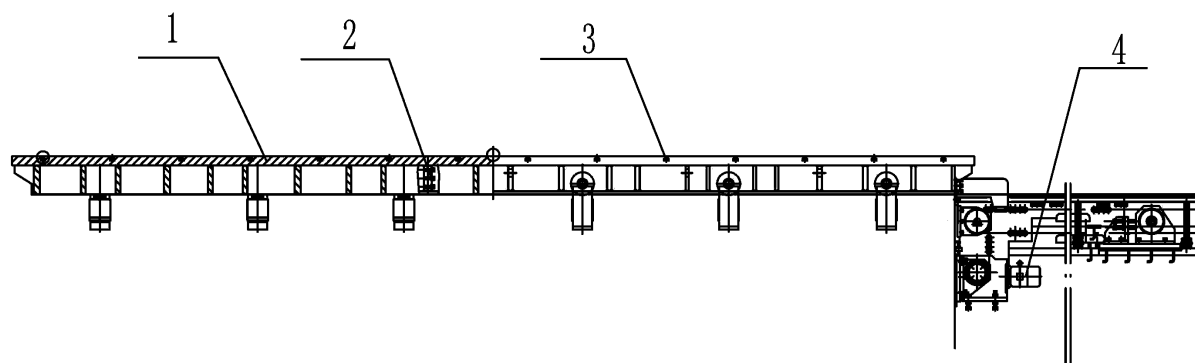
HU BIN

Latest standardized assignees - inventors removedTIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 26/100 - FAMPAT - ©Questel

Title

(CN102700162B)

Traveling worktable of girder **hydraulic press**, and control device of traveling worktable**Images****Publication data including kind & date**

CN102700162	A	2012-10-03	CN102700162
CN102700162	B	2015-03-25	CN102700162B

**Abstract**

(CN102700162)

The invention discloses a travelling worktable of a girder **hydraulic press** and a control device of the travelling worktable. The travelling worktable comprises a travelling worktable body and a power system, wherein the travelling worktable body is connected with a guide rail on the girder **hydraulic press**; the power system is connected with the travelling worktable body; and the travelling worktable is characterized by also comprises a control system connected with the power system, and a displacement sensor for providing input signals to the control system; the power system comprises a motor and a frequency converter, wherein the frequency converter is electrically connected with the motor; the control system comprises a programmable controller and a touch screen connected with the programmable controller, and the programmable controller is electrically connected with the frequency converter; and the travelling worktable body is formed that multiple segments of metal plates are fixedly connected. The travelling worktable has the characteristic of being high in flexural strength, high in pressing precision and convenient in use.

Inventors

DUAN JUNYAN

Latest standardized assignees - inventors removed

TIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 27/100 - FAMPAT - ©Questel

Title

(CN100513151C)

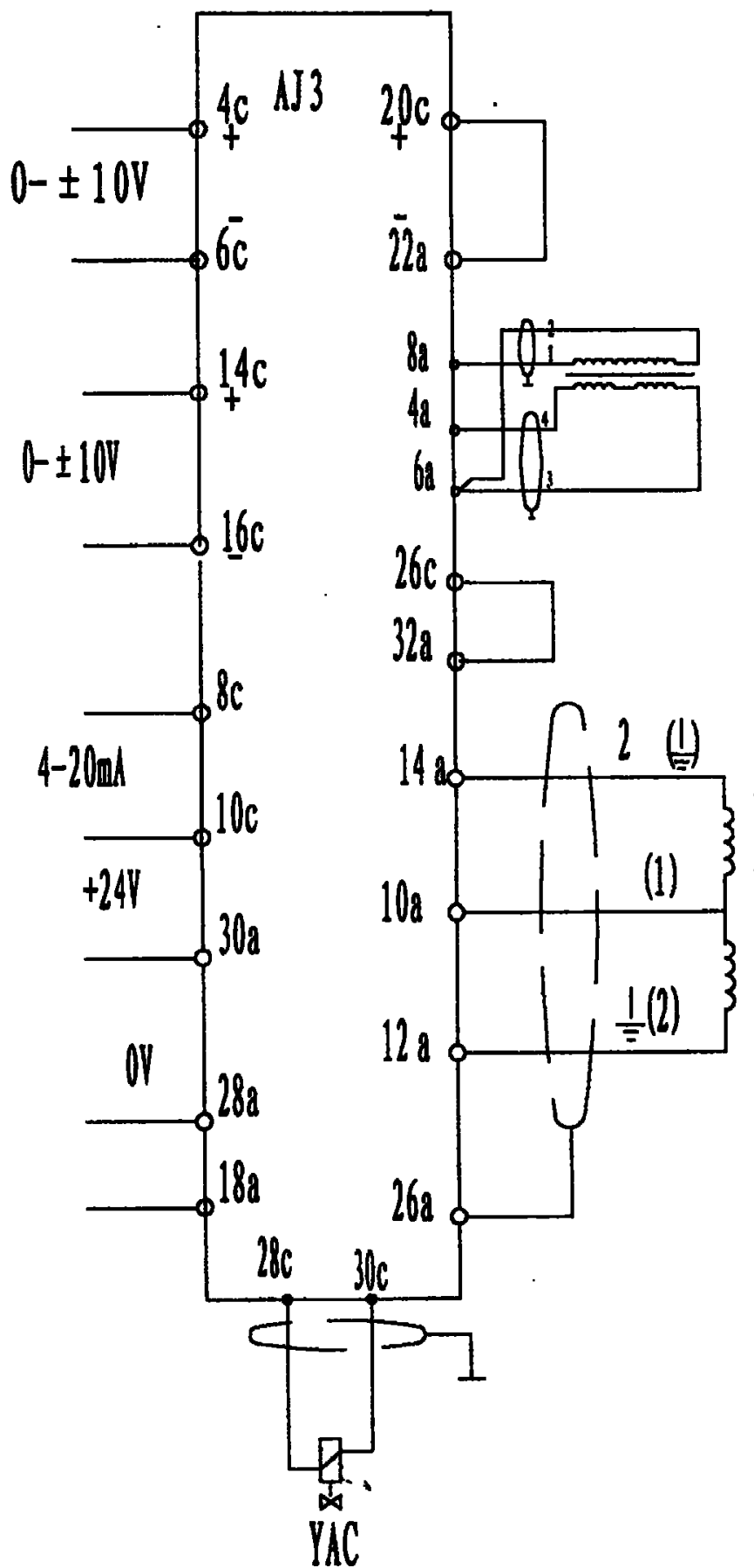
Hydraulic press constant power control structure and controlling means thereof

Images

VT-5041-2X/3

4

VT3002-2X/32



Publication data including kind & date

CN101134374	A	2008-03-05	CN101134374
CN100513151	C	2009-07-15	CN100513151C

**Abstract**

(CN101134374)

The present invention is one kind of constant power control structure for **hydraulic press** and its control process. The constant power control structure consists of one PLC, one turnable operation box, one branching unit, one slide block rotating coder, one **hydraulic** cushion rotating coder, and one proportional amplifier board. The proportional amplifier board is connected to one DC power source, one proportional electromagnet, one valve core displacement sensor and one swing angle sensor of the tilting mechanism. The constant power control process includes: calculating the power, regulating the voltage to obtain the calculated power and transmitting the voltage to the PLC via the RS232 port, and applying the voltage to the motor with the PLC. The present invention has low cost, saving in energy, good **hydraulic press** controlling effect and stable and reliable operation.

Inventors

LI LIQING

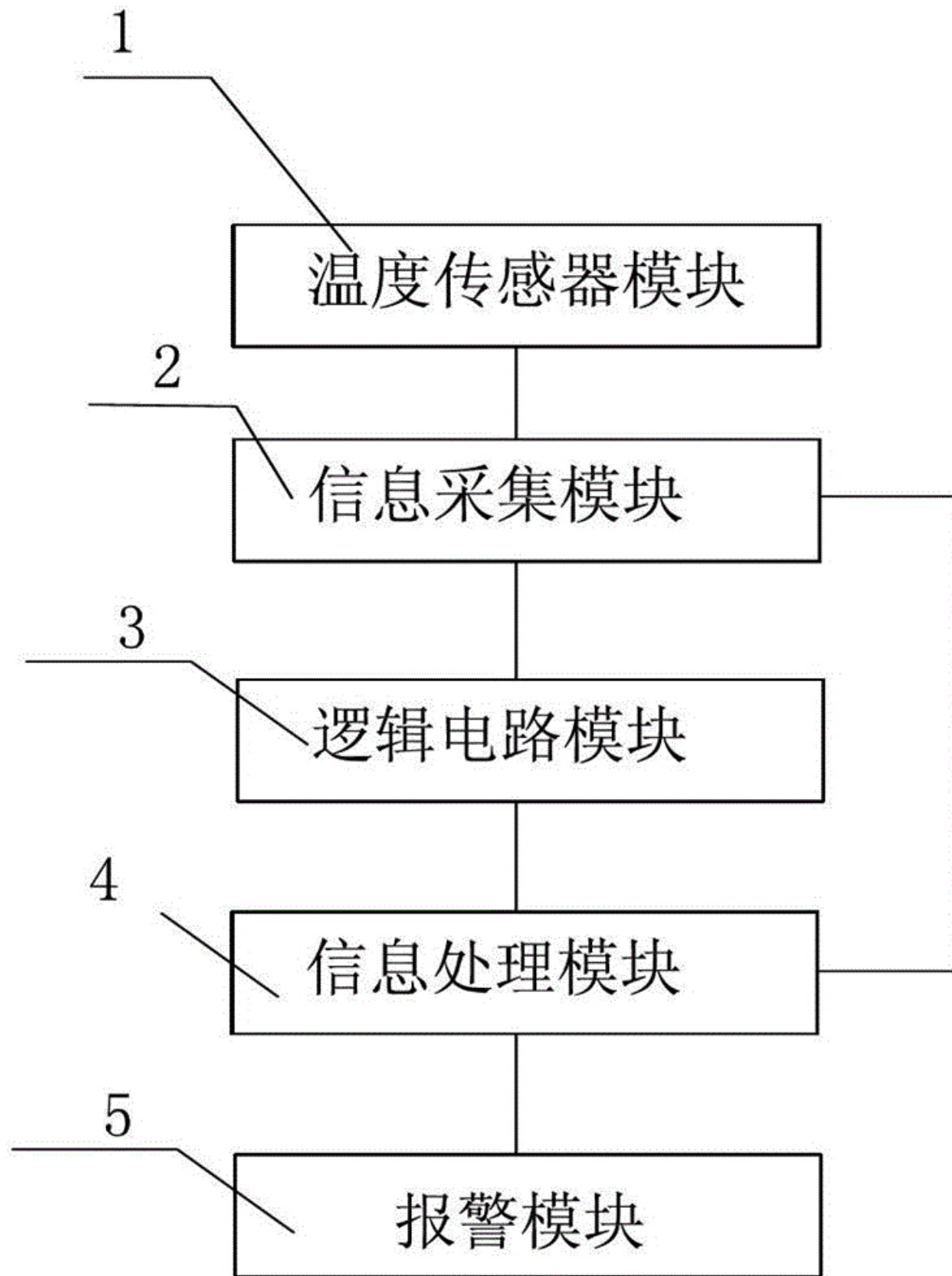
Latest standardized assignees - inventors removedTIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 28/100 - FAMPAT - ©Questel

Title

(CN103279153)

Monitoring system and method of medium voltage motor temperature in **hydraulic** forging **press****Images**

**Publication data including kind & date**

CN103279153	A	2013-09-04	CN103279153
CN103279153	B	2016-12-28	CN103279153B

**Abstract**

(CN103279153)

The invention discloses a monitoring system and method of the medium voltage motor temperature in a **hydraulic** forging **press** and belongs to the technical field of **hydraulic** forging **press** devices. The system comprises a temperature sensor module which is arranged inside a medium voltage motor, an information collecting module which is electrically connected with the temperature sensor module, a logic circuit module which is electrically connected with the information collecting module, an information processing module which is electrically connected with the logic circuit module and an alarm module which is electrically connected with the information processing module, wherein the information collecting module is

also electrically connected with the information processing module. After the technical scheme is adopted, the real-time monitoring of the inner temperature of the medium voltage motor is realized, a programmable controller is used for analyzing the inner temperature information of the medium voltage motor, the working state of the medium voltage motor can be estimated, and the effect of nipping in the bud is realized; and meanwhile, one information collecting module can realize the monitoring of a plurality of temperature sensor modules, and the working efficiency is high.

Inventors

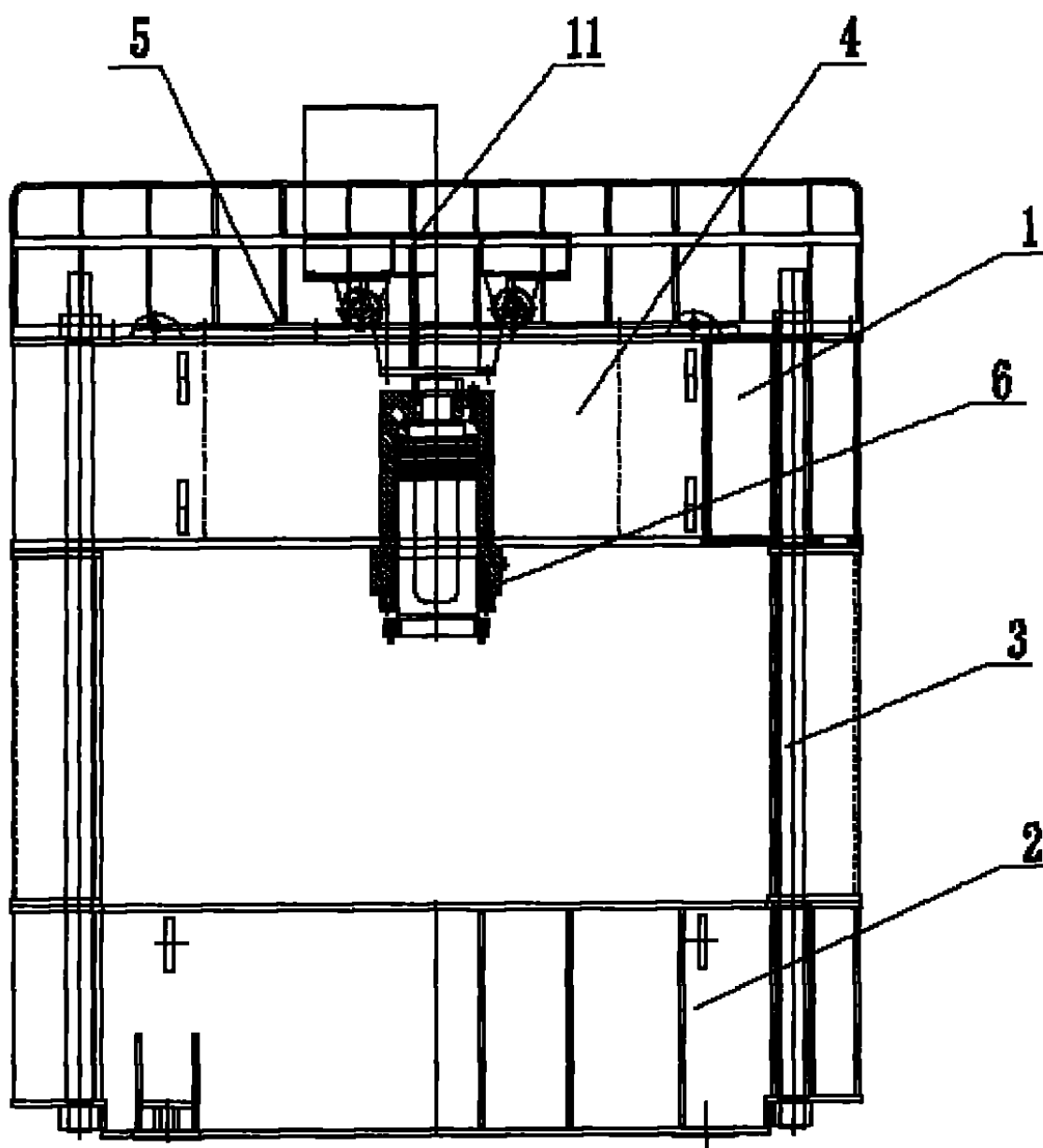
ZHOU GANG

Latest standardized assignees - inventors removedTIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 29/100 - FAMPAT - ©Questel

Title

(CN201597190U)

One kind of Dragon Gate frame ship uses **hydraulic press**'s mobile **hydraulic** ram**Images****Publication data including kind & date**[CN201597190](#)

U 2010-10-06 CN201597190U

**Abstract**

(CN201597190)

This utility model involves one kind of Dragon Gate frame ship with **hydraulic press**'s mobile **hydraulic** ram, including putting up the main beam and in the **hydraulic** ram located in putting up the main beam, puts up the main beam on to open a rectangular housing, on this housing both sides putting up the main beam the installment has the guide rail, states on the guide rail the establishment to have the shifting mechanism, states shifting mechanism and in **hydraulic** ram permanent connection located in housing. This utility model's merit lies in: **Hydraulic press**'s die installs in **hydraulic** ram, drives the **hydraulic** ram to move through the shifting mechanism, realizes the migration of die, this, when the suppression, does not need through the hand regulation face bar and die relative position, only need realize the region that through the control system control shifting mechanism the displacement of die changes suppresses. Reduced the labor intensity of operators, raised the working efficiency.

Inventors

ZHAO XINGHUA

LU XINJIAN

GU GUOPING

SHAO ZHENGGUO

Latest standardized assignees - inventors removed

NANTONG GAOYE **HYDRAULIC PRESS** MACHINE

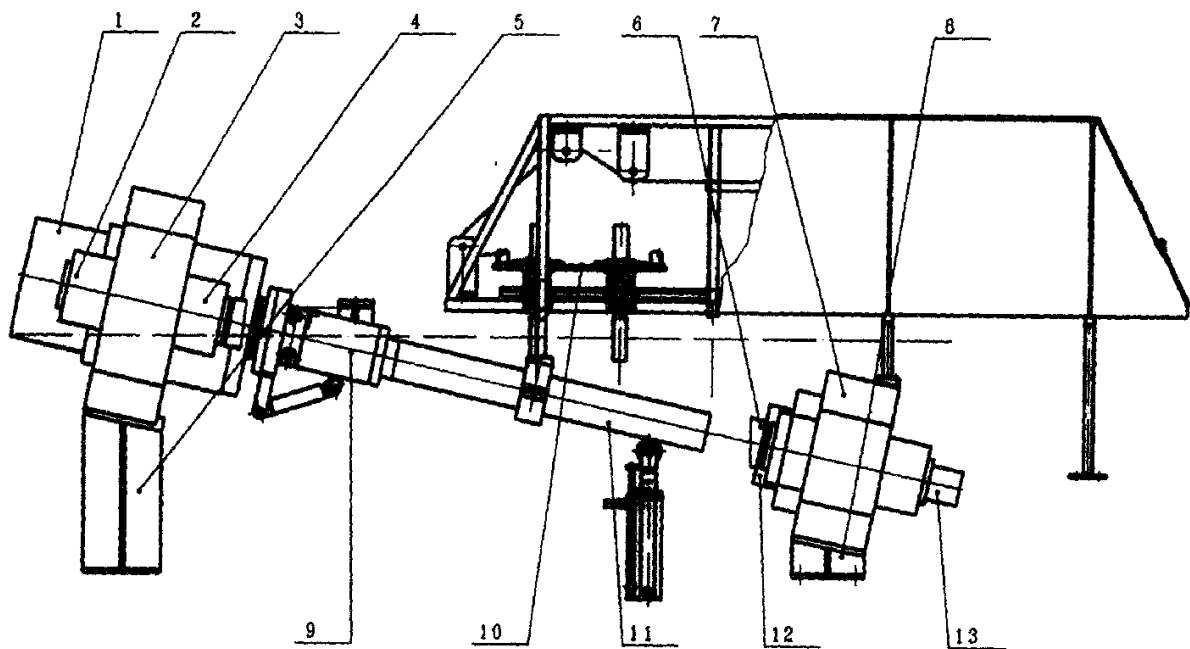
Family 30/100 - FAMPAT - ©Questel

Title

(CN1248794C)

Multi-station horizontal **hydraulic** extrusion **press**

Images



Publication data including kind & date

CN1575879	A	2005-02-09	CN1575879
CN1248794	C	2006-04-05	CN1248794C



Abstract

(CN1575879)

The multi-site horizontal extruding **hydraulic press** features the material feeder installed via the back beam and pull rod of the **hydraulic press**. Its structure includes material feeding frame with rails, two chain wheels, tension wheel, chain wheel support, **hydraulic** motor, chain, moving bogie with material taking manipulator, and auxiliary mechanical apparatus. The structure features its material taking manipulator in link rod mode and capable of grasping several kinds of workpiece via the control of the stroke switch control; and the auxiliary mechanical apparatus capable of preventing workpiece from falling off from the raised mold for use in automatic production line.

Inventors

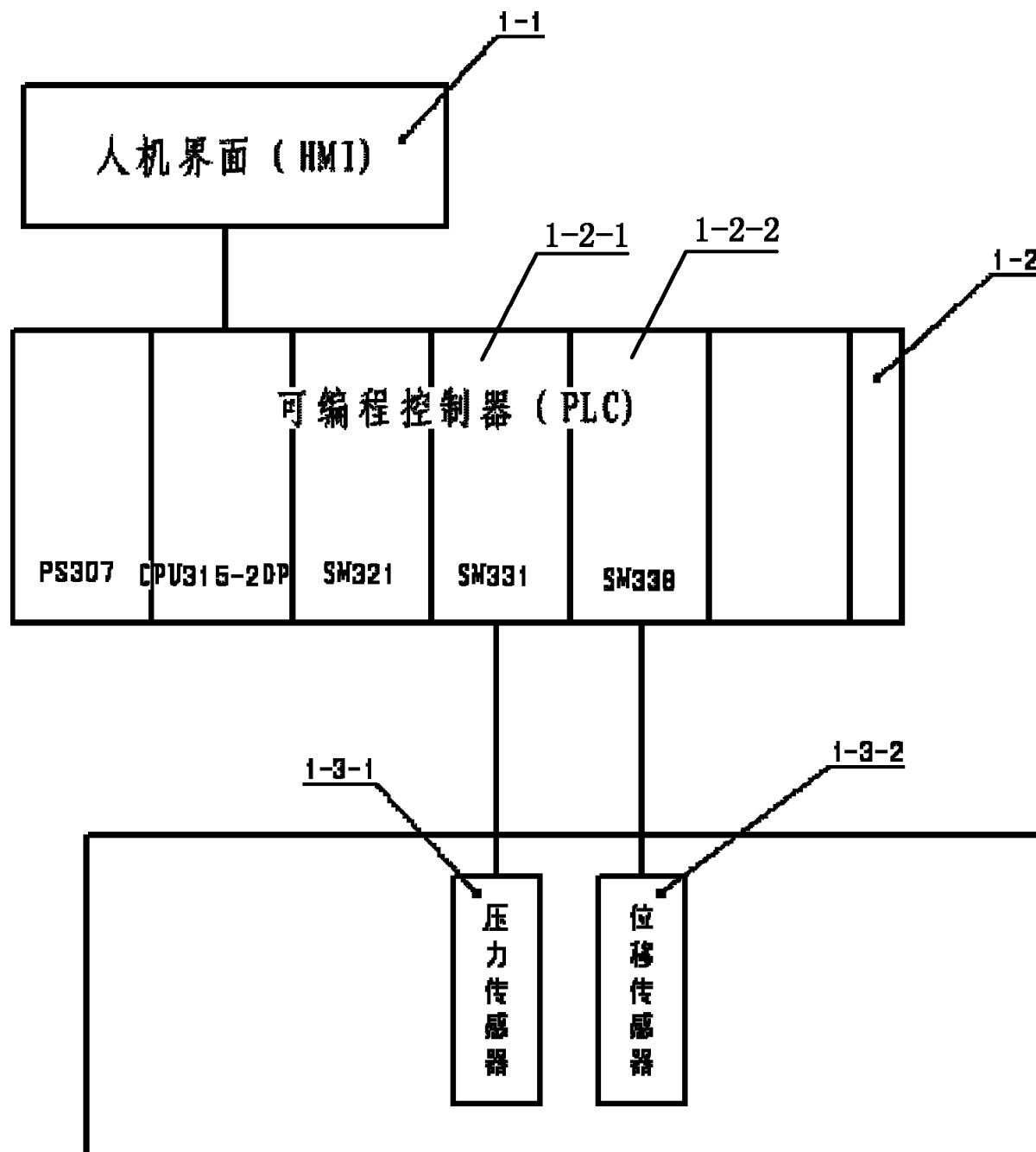
LUO LILI

Latest standardized assignees - inventors removedTIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 31/100 - FAMPAT - ©Questel

Title

(CN102331732)

System for monitoring slide block on **hydraulic press****Images****Publication data including kind & date**[CN102331732](#)

A 2012-01-25 CN102331732

**Abstract**

(CN102331732)

The invention relates to a system for monitoring a slide block on a **hydraulic press**. The system for monitoring the slide block on the **hydraulic press** comprises a PLC (programmable logic controller) and a touch screen human-machine interface which is connected with the PLC (1-2), wherein a pressure sensor is arranged on a power mechanism of the

hydraulic press; a displacement sensor is arranged on a slide block of the **hydraulic press**; the pressure sensor and the displacement sensor are connected with the input module of the PLC respectively; an analog input module and a position control module are arranged in the PLC (1-2) respectively; the pressure sensor is connected with the analog input module; and the displacement sensor is connected with the position control module. The system for monitoring the slide block on the **hydraulic press** can monitor the speed, displacement and pressing force of the slide block in real time and finish the pressing task by effectively matching with the **hydraulic press**; and the **hydraulic press** is monitored and controlled in real time by the displacement sensor, the pressure sensor, the human-machine interface and the like, so that convenience is brought to a user of the **hydraulic press** and the working quality and the working efficiency of the **hydraulic press** are improved.

Inventors

LI LIQING

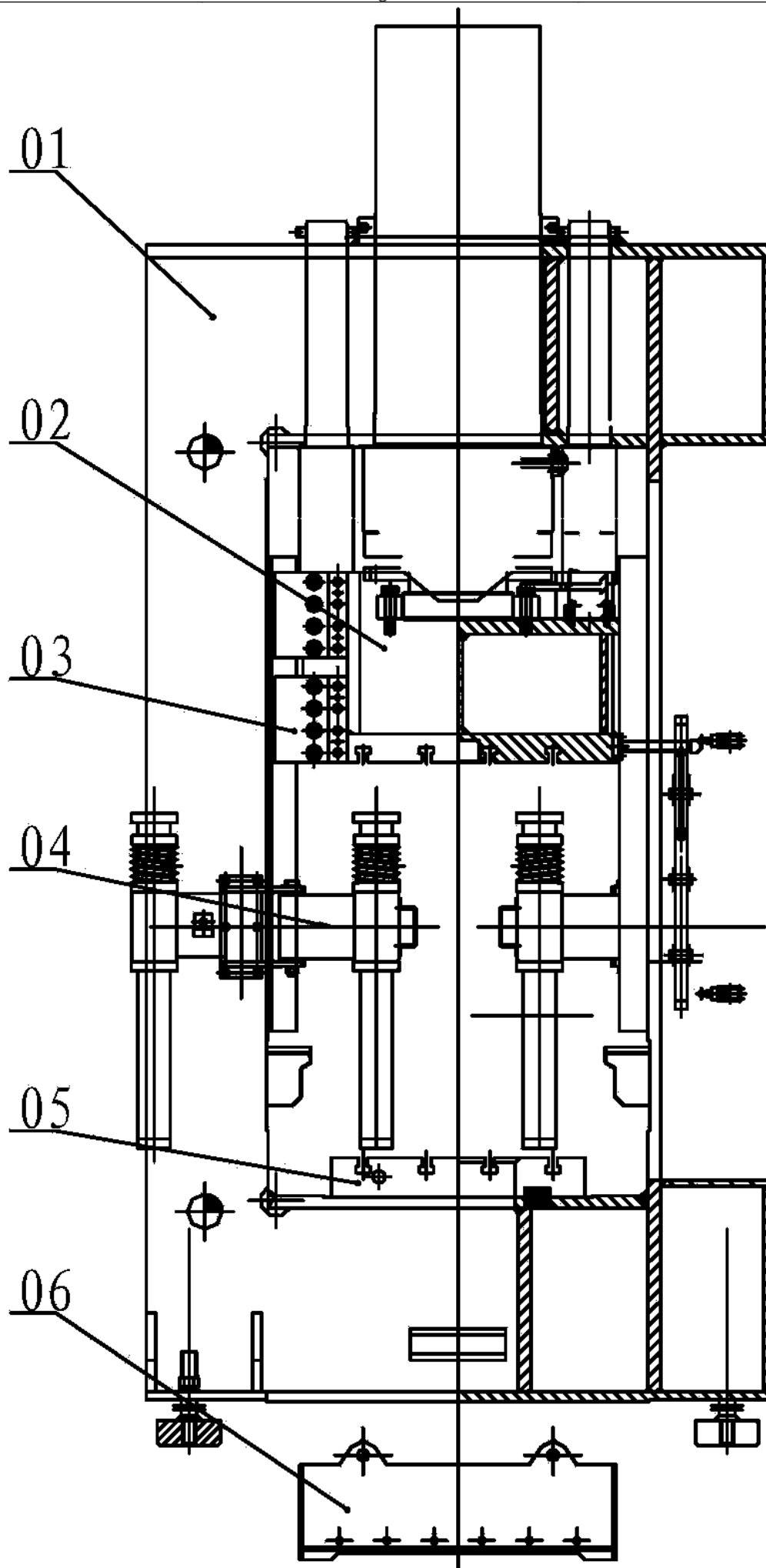
Latest standardized assignees - inventors removedTIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 32/100 - FAMPAT - ©Questel

Title

(CN104416052)

Punching **hydraulic press** for petroleum drill pipe joint**Images**



Publication data including kind & date

CN104416052

A 2015-03-18 CN104416052

**Abstract**

(CN104416052)

The invention discloses a punching **hydraulic press** for a petroleum drill pipe joint, and relates to the technical field of petroleum drill pipes. The punching **hydraulic press** comprises a **hydraulic press** body. The **hydraulic press** body comprises a machine body, a driving oil cylinder, a sliding block, a working platform and a waste collection device, wherein the driving oil cylinder is installed on the top of the machine body, and drives the sliding block to move in the vertical direction, a base plate is arranged on the upper surface of the working platform, waste holes which are used for falling of waste are formed in the base plate and the working platform, and the waste collection device is arranged below the waste holes. By the adoption of the technical scheme, due to the fact that the punching **hydraulic press** is of an integral machine body structure, overall rigidity and machining accuracy of the punching **hydraulic press** can be greatly improved, and the weight of the punching **hydraulic press** is reduced; when the punching **hydraulic press** is used for conducting punching on workblank bar materials, the punching **hydraulic press** has the advantages of being high in machining efficiency and convenient to use; meanwhile, due to the fact that the waste collection device is additionally arranged, waste can be effectively removed on the site, and pollution to the working environment is prevented.

Inventors

ZHENG QINGMING

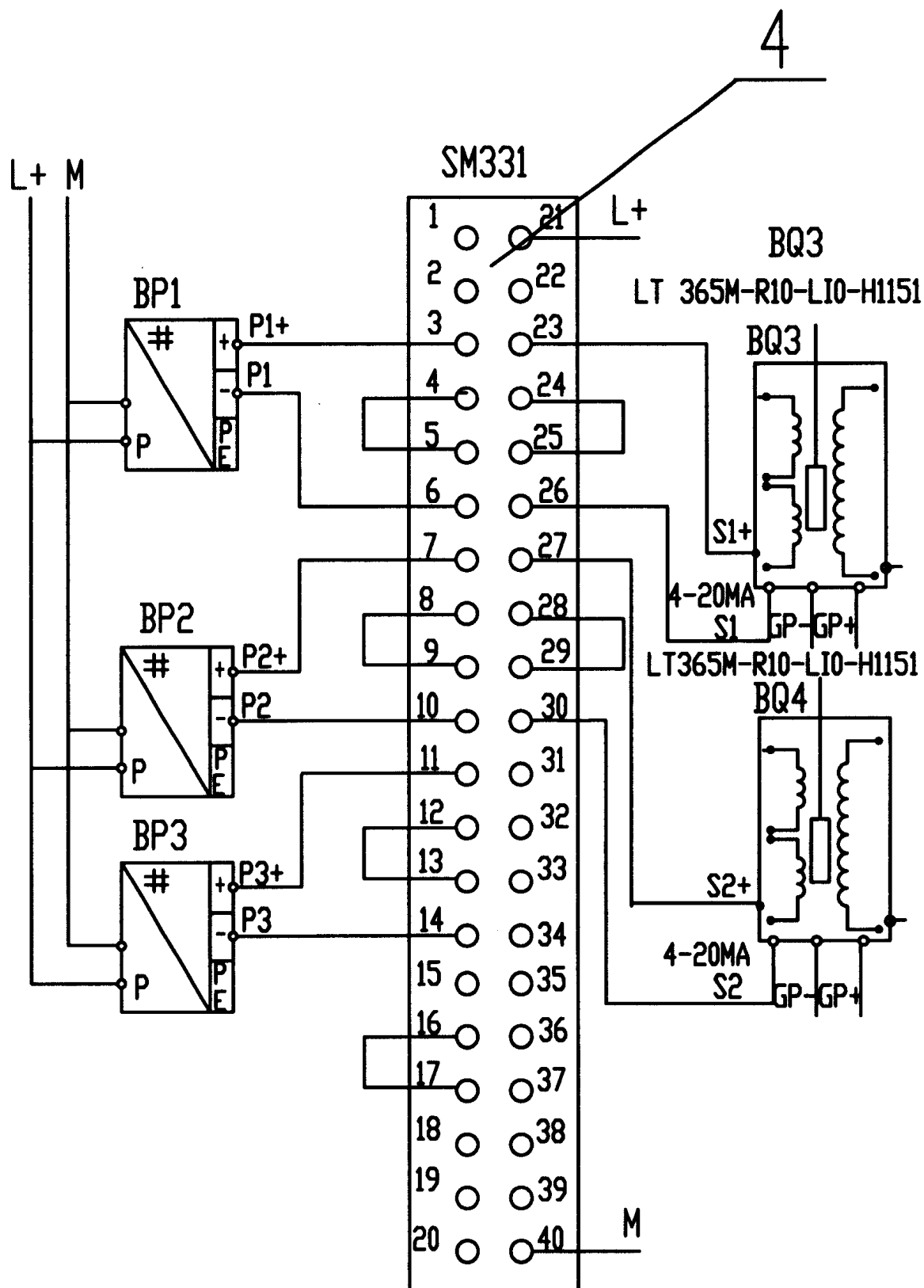
Latest standardized assignees - inventors removedTIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 33/100 - FAMPAT - ©Questel

Title

(CN201158170U)

Hydraulic forging **press** with built-in linear displacement transducer**Images**



Publication data including kind & date

CN201158170

Y

2008-12-03

CN201158170U



Abstract

(CN201158170)

A forging **hydraulic press** with a built-in linear displacement sensor comprises a programmable controller arranged in an electric control box of the **hydraulic press**, eight analog input modules connected with a CPU module and arranged in the programmable controller, a first slider pressure sensor BP1 arranged on a main cylinder pipe of a power mechanism on the top of the main body of the **hydraulic press**, a second slider pressure sensor BP2 arranged on a side cylinder pipe of the power mechanism on the top of the main body of the **hydraulic press**, an ejection cylinder pressure sensor BP3 arranged

on an ejection cylinder pipe of the **hydraulic press**, and two built-in linear displacement sensors BQ3 and BQ4 arranged in the ejection cylinder of the **hydraulic press**, wherein the signal output terminals of the first slider pressure sensor BP1, the second slider pressure sensor BP2 and the two built-in linear displacement sensor BQ3 and BQ4 are connected with the eight analog input modules. The forging **hydraulic press** has the advantages of good control effect, high interference resistance, and stable and reliable operation, and can ensure accurate output signal without causing mechanical damage and provide accurate position display for the **hydraulic press**.

Inventors

LI LIQING

Latest standardized assignees - inventors removed

TIANJIN TIANDUAN **HYDRAULIC PRESS**

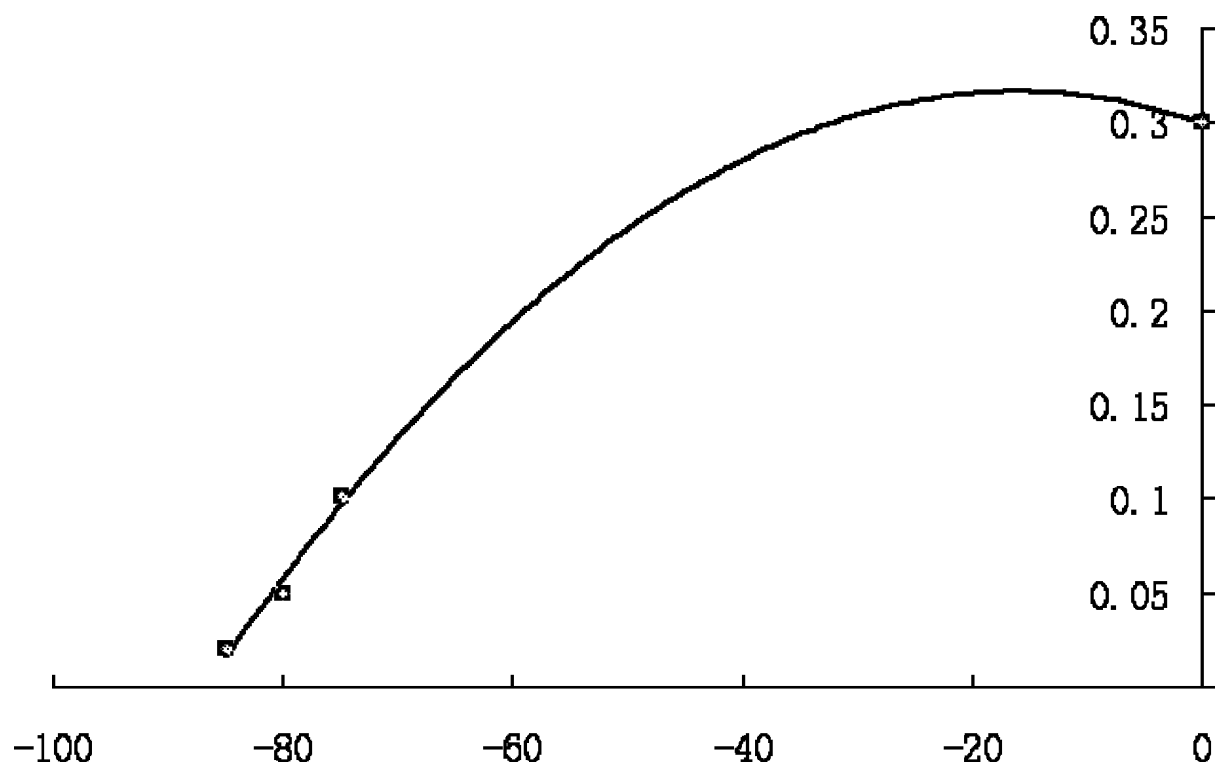
Family 34/100 - FAMPAT - ©Questel

Title

(CN102430682B)

Method for setting strain rate of high-temperature alloy forging **hydraulic press**

Images



Publication data including kind & date

CN102430682	A	2012-05-02	CN102430682
CN102430682	B	2014-08-06	CN102430682B



Abstract

(CN102430682)

The invention discloses a method for setting the strain rate of a high-temperature alloy forging **hydraulic press**, which comprises the following steps of: inputting position/speed parameters on a primary curve setting interface: $s_1, \dots, s_{10}, V_1, \dots, V_{10}$, wherein s_1 is the position value input at the first point, V_1 is the speed value input at the first point, s_{10} is the position value at the tenth point, and V_{10} is the speed value at the tenth point; calculating a displacement speed curve in a pressing interval of the **hydraulic press** according to the position value and speed value of a point; inputting the position/speed parameters of the start point and end point of each section of the curve on a secondary curve setting interface, wherein five groups of points are arranged in the secondary curve setting interface: $(s_1, V_1), \dots, (s_5, V_5)$, corresponding to the start point and end point of each section of the curve respectively, and the start point of the next section of the curve is the end point of the previous section of the curve; and calculating a secondary pressing curve according to the position value and speed value of the point. Through the invention, a secondary curve can be fitted according to the set displacement speed curve

point, and the secondary curve conforms to the theoretical forming curve of a workpiece in the pressing process.

Inventors

WANG SHIDONG

Latest standardized assignees - inventors removed

TIANJIN TIANDUAN **HYDRAULIC PRESS**

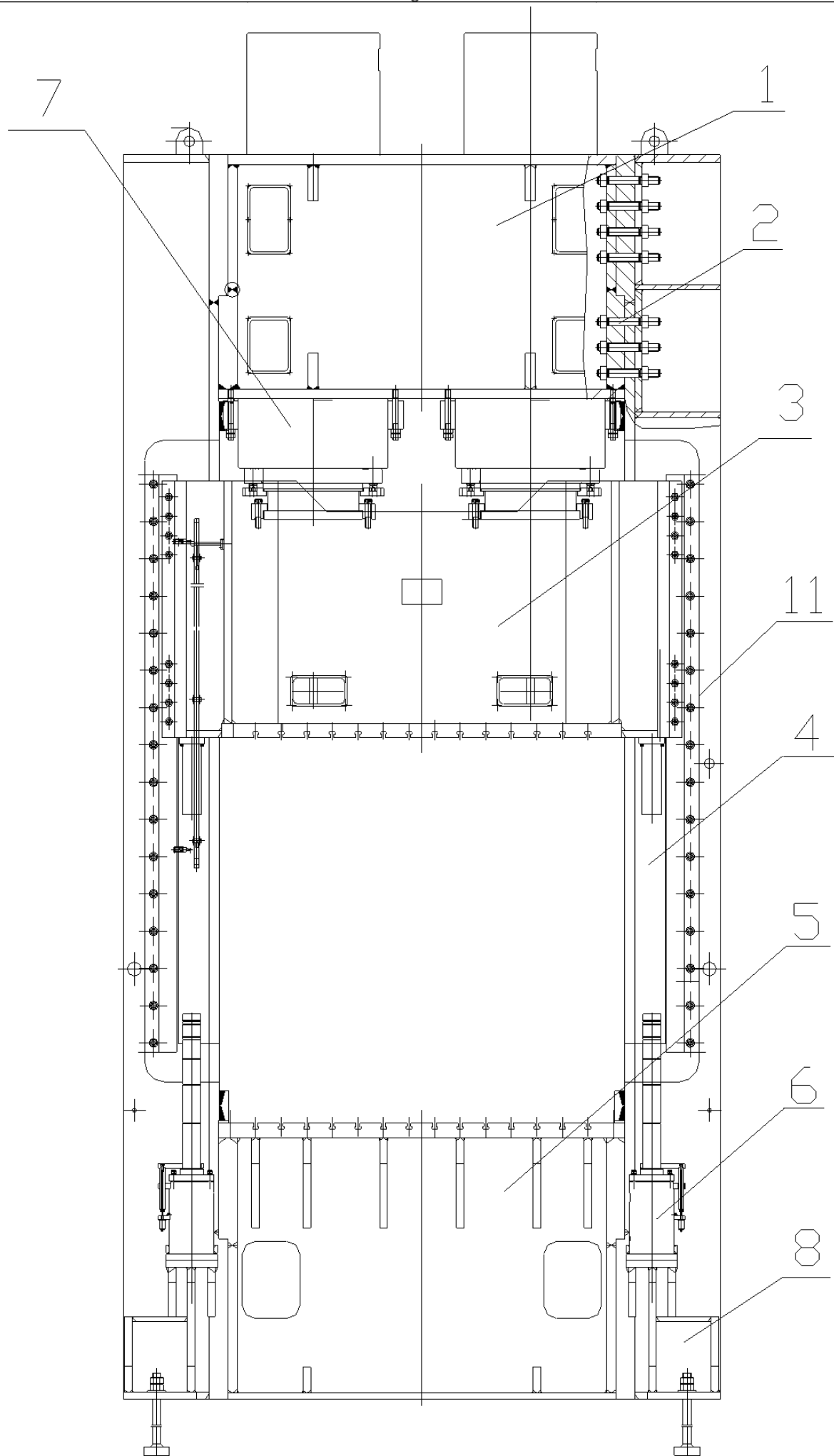
Family 35/100 - FAMPAT - ©Questel

Title

(CN202242030U)

High speed **hydraulic press** for composite material products

Images



Publication data including kind & date

CN202242030

U 2012-05-30

CN202242030U

**Abstract**

(CN202242030)

The utility model discloses a high speed **hydraulic press** for composite material products. The high speed **hydraulic press** is provided with an upper crossbeam and a lower cross beam which are correspondingly arranged, support posts positioned on two sides of the upper and lower crossbeams, an oil cylinder fixed below the upper crossbeam, and a slider of which the upper end is connected with the oil cylinder and which is driven by the oil cylinder to move up and down along the support posts on the two sides; two base angles of the support post on each side are respectively provided with a levelling cylinder, and four levelling cylinders are distributed at four base angles of the **hydraulic press**; the slider is limited by a guide rail structure and moves up and down along the support posts on the two sides; and four corners of the slider are respectively provided with a displacement sensor connected with a control system in a control cabinet of the **hydraulic press**. The downlink speed reaches 800mm/s and the accuracy requirement of the **hydraulic press** is met. The high speed **hydraulic press** has the characteristics of simple and reasonable structure, convenience for installation and connection and the like. The four angles of the support posts of the **hydraulic press** are provided with four levelling cylinders, so that the slider is ensured to have parallelism and cannot be eccentrically loaded when the slider presses a workpiece; and the four levelling cylinders are distributed at the four corners of the support posts, and are convenient to maintain.

Inventors

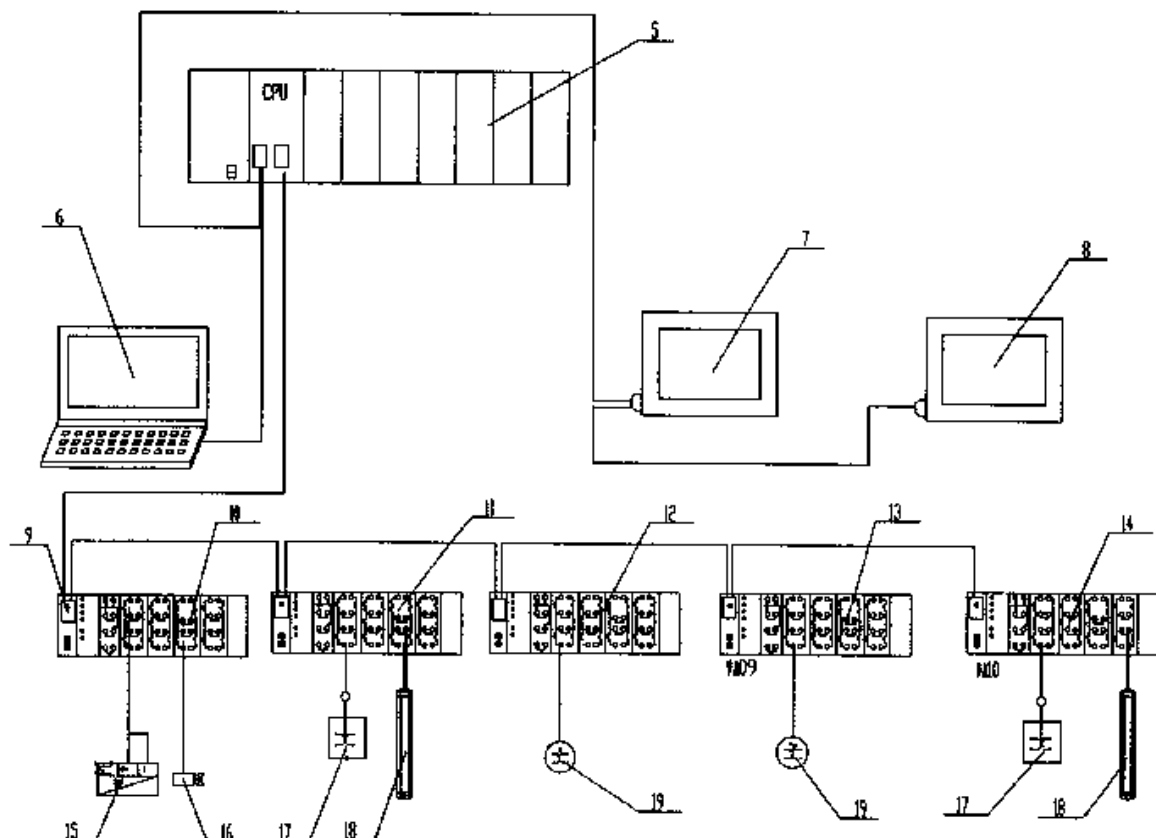
YUN CHANGSUO

Latest standardized assignees - inventors removedTIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 36/100 - FAMPAT - ©Questel

Title

(CN2717569U)

Intelligent semisolid die forging **hydraulic press** complete equipment control system**Images****Publication data including kind & date**

CN2717569

Y 2005-08-17 CN2717569U

Abstract

(CN2717569)

The utility model relates to an intelligent semisolid die forging **hydraulic press** complete equipment control system, belonging to the technical field of the **hydraulic press**. The intelligent semisolid die forging **hydraulic press** complete equipment control system comprises a superior computer, a **hydraulic-press** controller, a sensor and an actuator device; the superior computer is connected with the **hydraulic-press** controller, the **hydraulic-press** controller is connected with several passive-station bus adapters through a bus, and the passive-station bus adapter is connected with the **hydraulic-press** sensor and the actuator device. The utility model has simple system structure, high safety and high dependability, so the utility model improves the **hydraulic** automation level.

Inventors

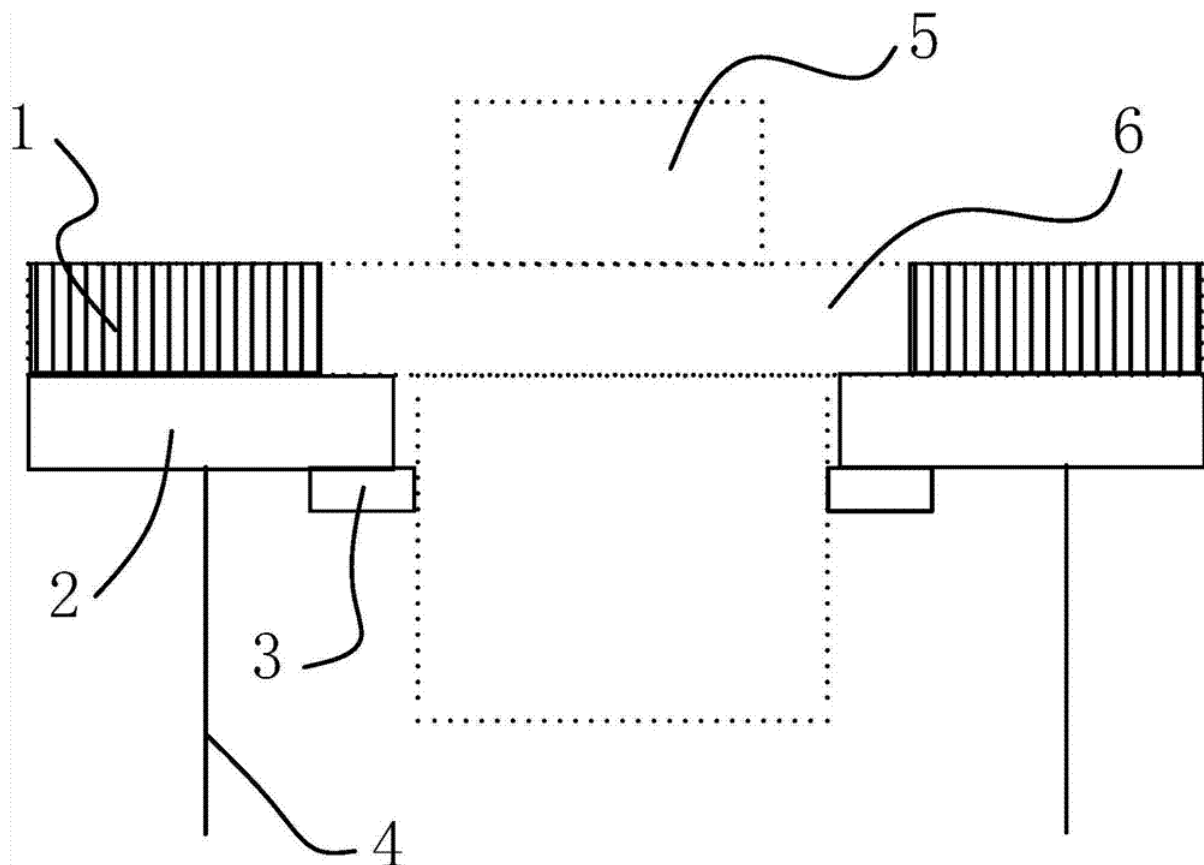
LIU CHUNPING

Latest standardized assignees - inventors removedTIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 37/100 - FAMPAT - ©Questel

Title

(CN207343544U)

Water -collection device of hydroforming **hydraulic press****Images****Publication data including kind & date**

CN207343544

U 2018-05-11 CN207343544U

**Abstract**

(CN207343544)

The utility model discloses a water -collection device of hydroforming **hydraulic press** relates to hydroforming **hydraulic press** technical field, its characterized in that: at least, include: a steel grating (1) for fixing under the **hydraulic press** entablature around the panel, a catch tray (2) for collect liquid, a catheter (4) for inciting somebody to action fluid outlet in the catch tray, wherein: catch tray (2) are located the below of steel grating (1), catch tray (2) are through I -steel (3) the

fuselage fixed connection with the **hydraulic press**. Water -collection device of hydroforming **hydraulic press** splashes the outer liquid medium of fuselage at the in -process of work, can be leaked down to the catch tray by the steel grating, and splash the liquid to the underbeam on, even if godown along the gap flow between water -collection device and the underbeam, also can be caught in the below by the catch tray, avoids having realized superhigh pressure liquid medium's recovery in liquid medium flows into the pit, has improved the product quality and the production efficiency of hydroforming **hydraulic press**.

Inventors

XIAO LIANZHI

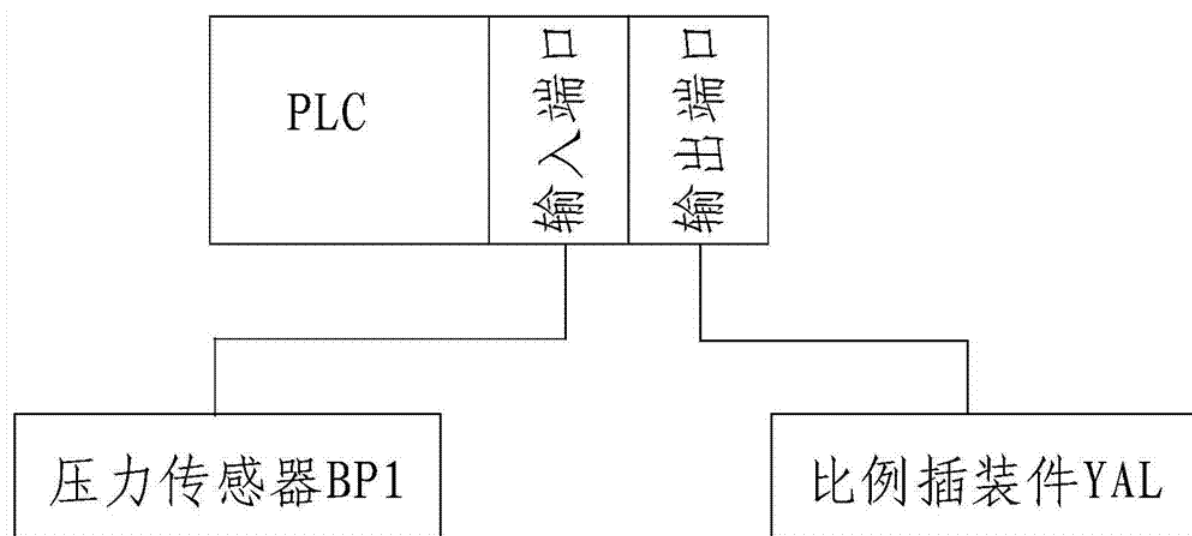
LI SHINING

Latest standardized assignees - inventors removedTIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 38/100 - FAMPAT - ©Questel

Title

(CN105268889)

Proportion plug-in member pressure relief system of **hydraulic** forging **press** and pressure relief method thereof**Images****Publication data including kind & date**

CN105268889	A	2016-01-27	CN105268889
CN105268889	B	2018-07-31	CN105268889B

**Abstract**

(CN105268889)

The invention discloses a proportion plug-in member pressure relief system of a **hydraulic** forging **press** and a pressure relief method thereof, and relates to the technical field of presses. The system comprises a pressure sensor, a proportion plug-in member, and a programmable controller. The pressure sensor is used to acquire oil pressure data in a sliding block main cylinder of the **hydraulic** forging **press**. The proportion plug-in member is used to receive instruction information of a programmable logic controller, and adjusts the opening of a valve element according to the instruction information. The programmable controller is used to receive the oil pressure data, and sends instruction information to the proportion plug-in member. The analog output port of the programmable controller is electrically connected with a proportion plug-in valve. The analog input port of the programmable controller is electrically connected with the pressure sensor. Through using the above technical scheme, the system is characterized by fast pressure relief speed and good stationarity.

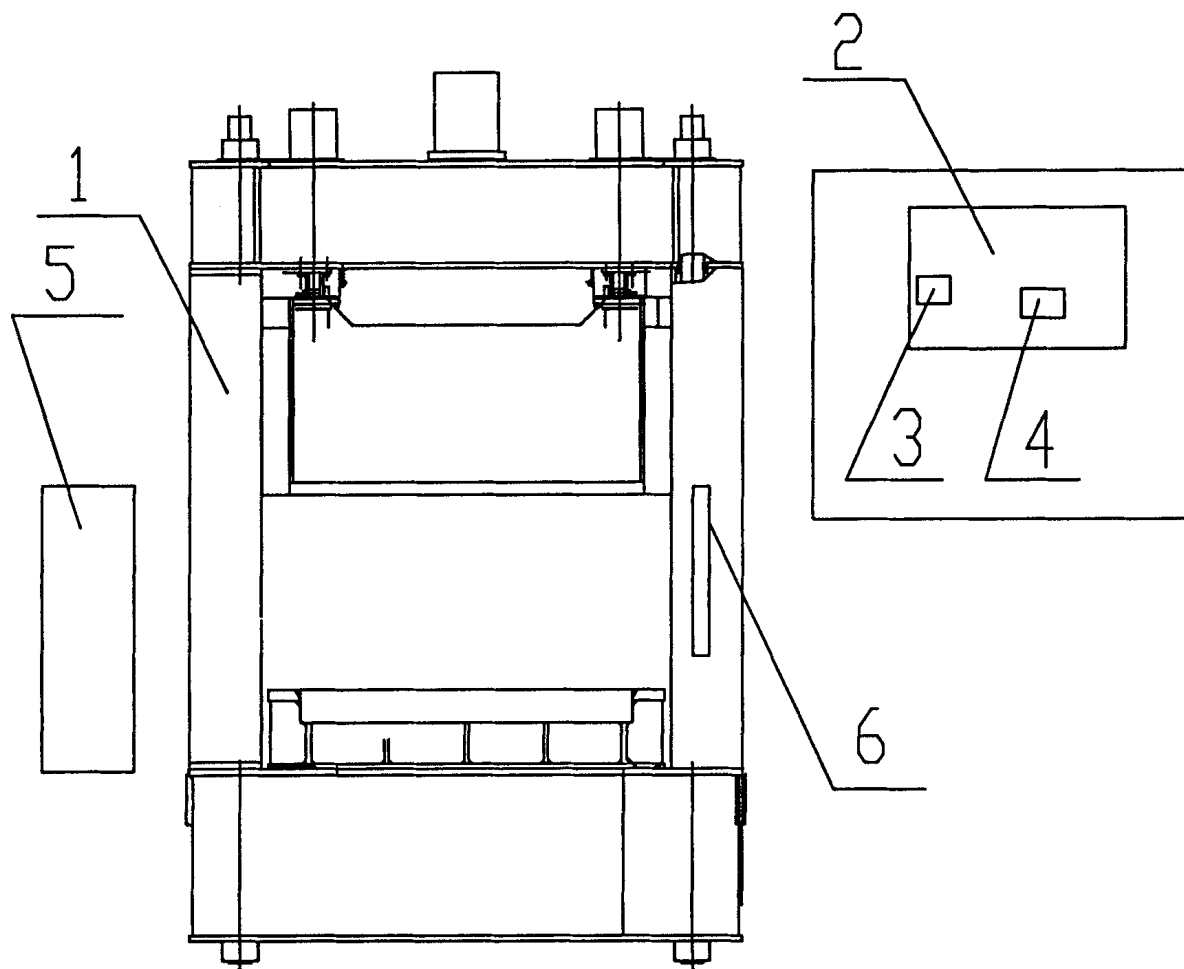
Inventors

JI XIN

Latest standardized assignees - inventors removedTIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 39/100 - FAMPAT - ©Questel

Title
(CN101863140)
Slide block pressure and speed display and control system of **hydraulic press** for powder products
Images

**Publication data including kind & date**

CN101863140 A 2010-10-20 CN101863140

**Abstract**

(CN101863140)

The invention discloses a slide block pressure and speed display and control system of a **hydraulic press** for powder products, which comprises a pressure transducer, a proportional relief valve and a displacement transducer which are respectively connected with a programmable logic controller (PLC) arranged in an electric control cabinet of the **hydraulic press**, wherein the pressure transducer is arranged in a power mechanism of the **hydraulic press** and is used for detecting the pressure of a slide block; the proportional relief valve is arranged in the power mechanism of the **hydraulic press** and is used for regulating the pressure of the slide block; and the displacement transducer is arranged on an upright pressure post of the **hydraulic press** and is used for detecting the displacement of the slide block and acquiring the speed of the slide block. The pressure transducer is connected with an analog input module of the programmable logic controller (PLC), a built-in amplification board in the proportional relief valve is connected with an analog output module of the programmable logic controller (PLC), and the displacement transducer is connected with the analog input module of the programmable logic controller (PLC). When applied to carbon powder forming process, the invention can control the whole pressing process more accurately and better ensures the forming of products.

Inventors

CHEN LIYA

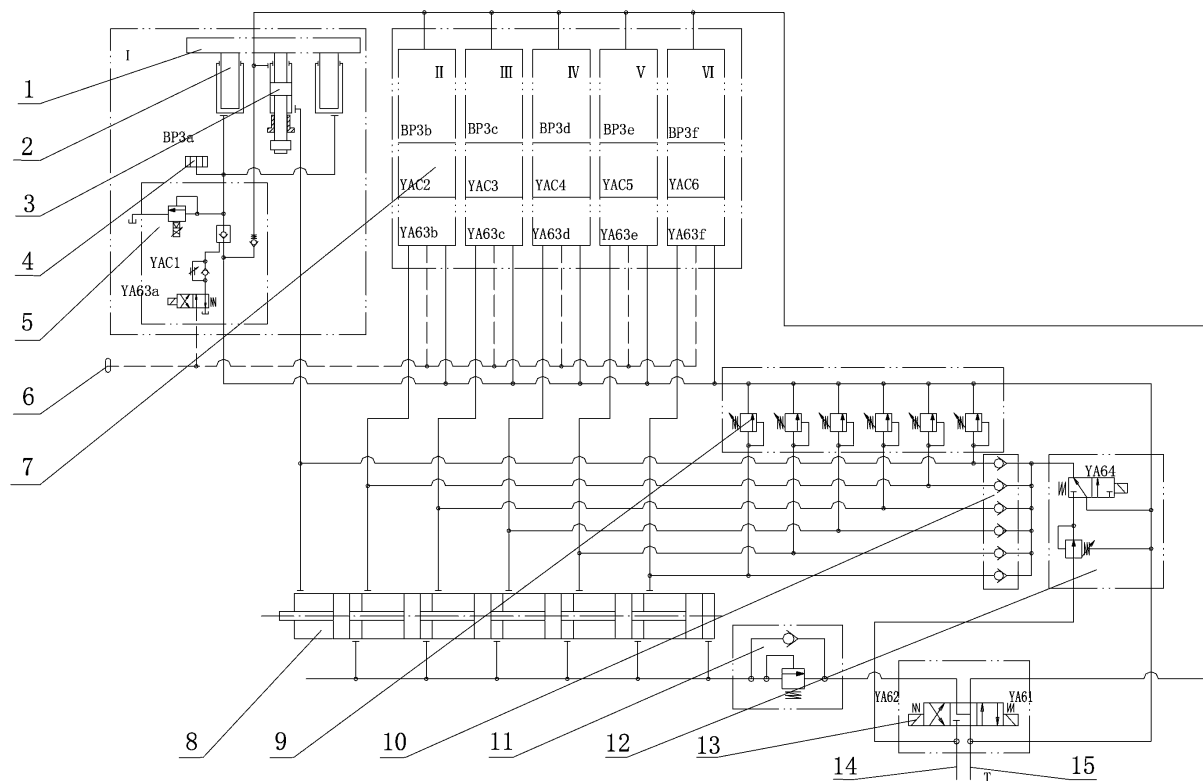
Latest standardized assignees - inventors removed

TIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 40/100 - FAMPAT - ©Questel

Title

(CN102758806B)

Crossbeam **press** multi-**hydraulic** cushion synchronous control system**Images****Publication data including kind & date**

CN102758806	A	2012-10-31	CN102758806
CN102758806	B	2015-05-13	CN102758806B

**Abstract**

(CN102758806)

The invention relates to a crossbeam **press** multi-**hydraulic** cushion synchronous control system which comprises a plurality of groups of **hydraulic** cushions, a **hydraulic** cushion cylinder and an ejector cylinder, wherein the **hydraulic** cushions are connected with the **hydraulic** cushion cylinder and the ejector cylinder, the **hydraulic** cushion cylinder is connected onto a low-pressure return oil pipe by a **hydraulic** cushion control valve group which is connected with a control oil pipe, a retreat cavity oil inlet of the ejector cylinder is connected with the **hydraulic** cushion control valve group and a J-shaped electromagnetic directional valve, an ejector cavity oil way of the ejector cylinder is connected with the low-pressure return oil pipe by a safety overflowing valve, and the crossbeam **press** multi-**hydraulic** cushion synchronous control system is characterized in that the ejector cavity oil way of the ejector cylinder is further connected with a one-way valve and a synchronous cylinder which controls the **hydraulic** cushions to be synchronously ejected and retreated. The crossbeam **press** multi-**hydraulic** cushion synchronous control system has the advantages of being capable of ensuring that the multiple **hydraulic** cushions can be synchronously ejected and retreated, controlling a mold core in a mold to stably work, avoiding blocking of the mold core, improving the **press** forming precision and pass percent of a car crossbeam, and being convenient to debug and simple to maintain.

Inventors

LÜ GUOSHENG

Latest standardized assignees - inventors removedTIANJIN TIANDUAN **HYDRAULIC PRESS**

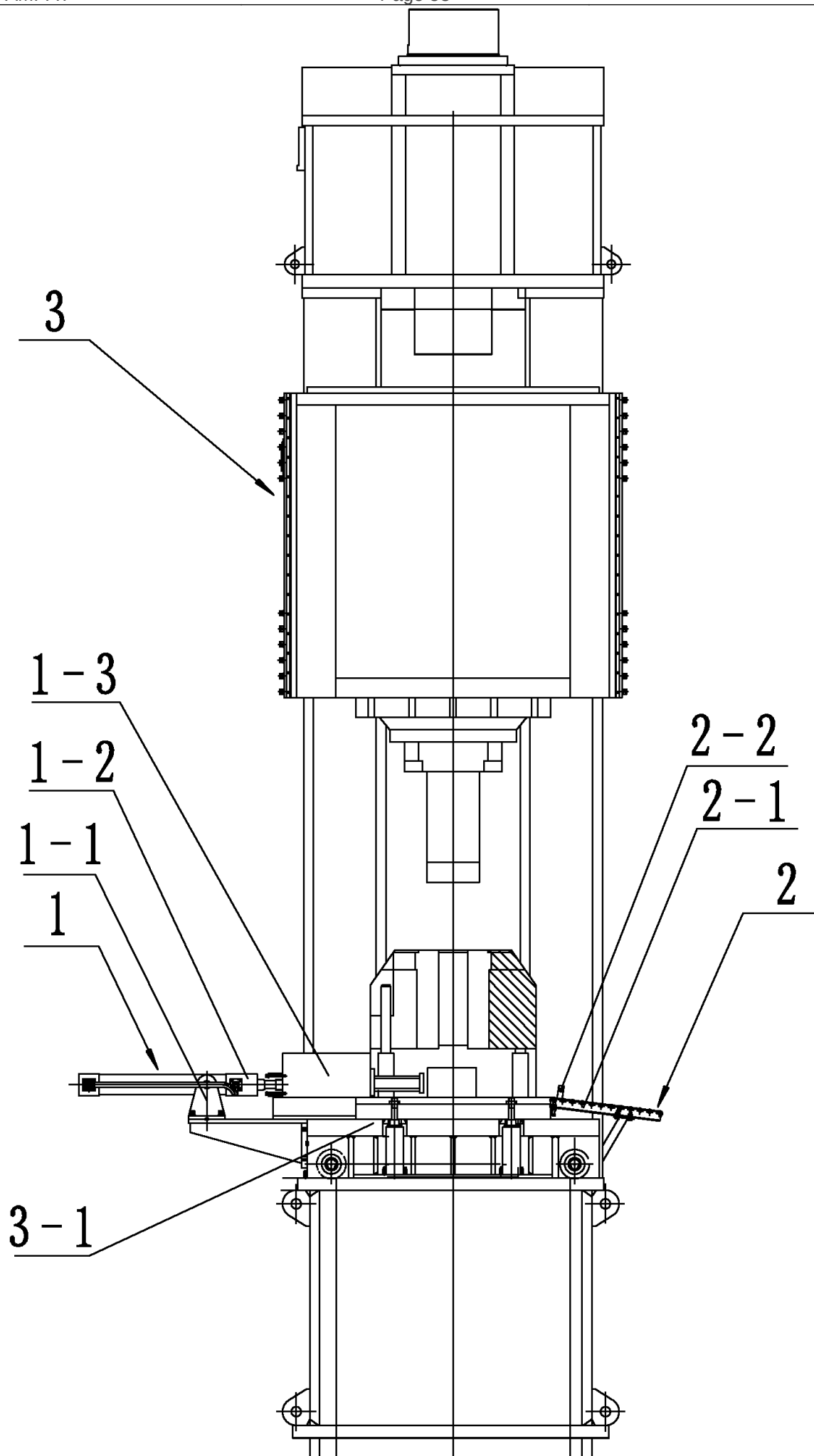
Family 41/100 - FAMPAT - ©Questel

Title

(CN201799542U)

Automatic discharging device of zirconium electrode **hydraulic press**

Images



Publication data including kind & date

CN201799542

U 2011-04-20

CN201799542U

**Abstract**

(CN201799542)

The utility model relates to an automatic discharging device of a zirconium electrode **hydraulic press**. The automatic discharging device is characterized by the inclusion of a pushing device and a discharging and conveying device arranged on two sides of a **hydraulic press** workbench respectively; the pushing device comprises a bracket connected with the **hydraulic press**, a pushing cylinder fixed on the bracket and an ejecting block connected with a piston rod of the pushing cylinder; and the discharging and conveying device comprises a conveying belt and a proximity switch arranged on the conveying belt. After a zirconium electrode bar material is punched by the **hydraulic press**, the zirconium electrode bar material is pushed to the discharging and conveying device on the other side of the **hydraulic press** workbench by the pushing device opposite to the discharging and conveying device, and then is conveyed to the next link by the discharging and conveying device, and the pushing cylinder of the pushing device returns to the initial state, therefore, one discharging operation is completed. Compared with the manual discharging method, the production efficiency can be greatly improved, the bodily injury caused by the incoordination between the operating personnel and the **hydraulic press** is avoided, and the potential safety hazard is eliminated.

Inventors

HAO XUEFENG

Latest standardized assignees - inventors removedTIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 42/100 - FAMPAT - ©Questel

Title

(CN201086102U)

Rotation control device for boat hull sheet material molding **hydraulic press** mold**Publication data including kind & date**

CN201086102

Y 2008-07-16

CN201086102U

**Abstract**

(CN201086102)

The utility model relates to a device for controlling the rotation of a mould in a **hydraulic press** for ship board materials. The utility model is characterized in that the device comprises a frame, a **hydraulic** motor and a control valve, which are fixed at one side of the **press** head of the **hydraulic press**; a shaft holder connected with the other end of the frame; a transmission shaft arranged on the shaft holder and connected with the **hydraulic** motor; a chain wheel arranged on the transmission shaft; and a transmission chain arranged on the chain wheel and connected with a chain wheel that is positioned on the rotary ship board material bend molding shaft below the **press** head of the **hydraulic press**. The invention has the advantages that: the device changes the production mode of manual movement of board materials during the molding in the widthwise direction in the prior art, reduces the labor intensity of operators, increases the production efficiency of board materials, solves the problems of inaccurate position and poor precision of board materials due to manual movement and size error due to point-by-point bending, and improves the bending accuracy of ship board materials.

Inventors

LI SEN

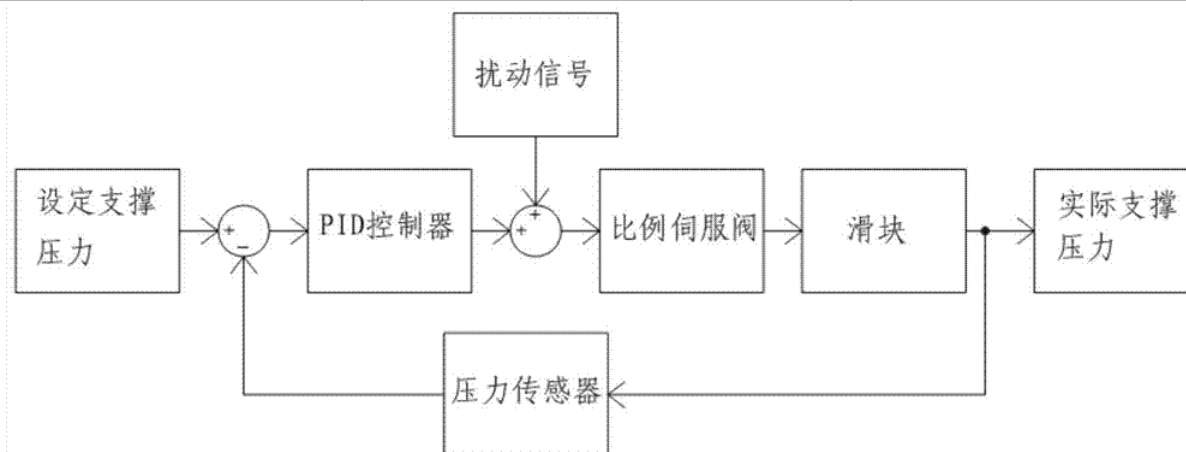
Latest standardized assignees - inventors removedTIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 43/100 - FAMPAT - ©Questel

Title

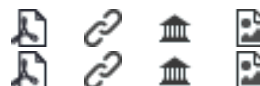
(CN105458141)

Supporting pressure closed-loop control system and method for **hydraulic** forging **press****Images**



Publication data including kind & date

CN105458141	A	2016-04-06	CN105458141
CN105458141	B	2018-05-11	CN105458141B



Abstract

(CN105458141)

The invention discloses a supporting pressure closed-loop control system and method for a **hydraulic forging press**. The supporting pressure closed-loop control system comprises a pressure sensor, a programmable logic controller and a proportional servo valve. The pressure sensor is used for collecting a sliding block supporting pressure datum in a sliding block oil cylinder lower cavity. The programmable logic controller compares the input oil cylinder pressure datum with a set supporting pressure datum and outputs a control instruction through a modified proportion integration differentiation (PID) control algorithm. The proportional servo valve is used for receiving the control instruction to achieve control over the supporting pressure of the sliding block lower cavity of the **hydraulic forging press**. An input port of the programmable logic controller is in electric connection with the pressure sensor. An output port of the programmable logic controller is in electric connection with an input terminal of the proportional servo valve. According to the supporting pressure closed-loop control system and method, the modified PID control algorithm is led into the pressure closed-loop control system of forging, so that the stability of the sliding block supporting pressure of the **hydraulic forging press** at different tonnage and working speed is improved.

Inventors

JI XIN

Latest standardized assignees - inventors removed

TIANJIN TIANDUAN **HYDRAULIC PRESS**

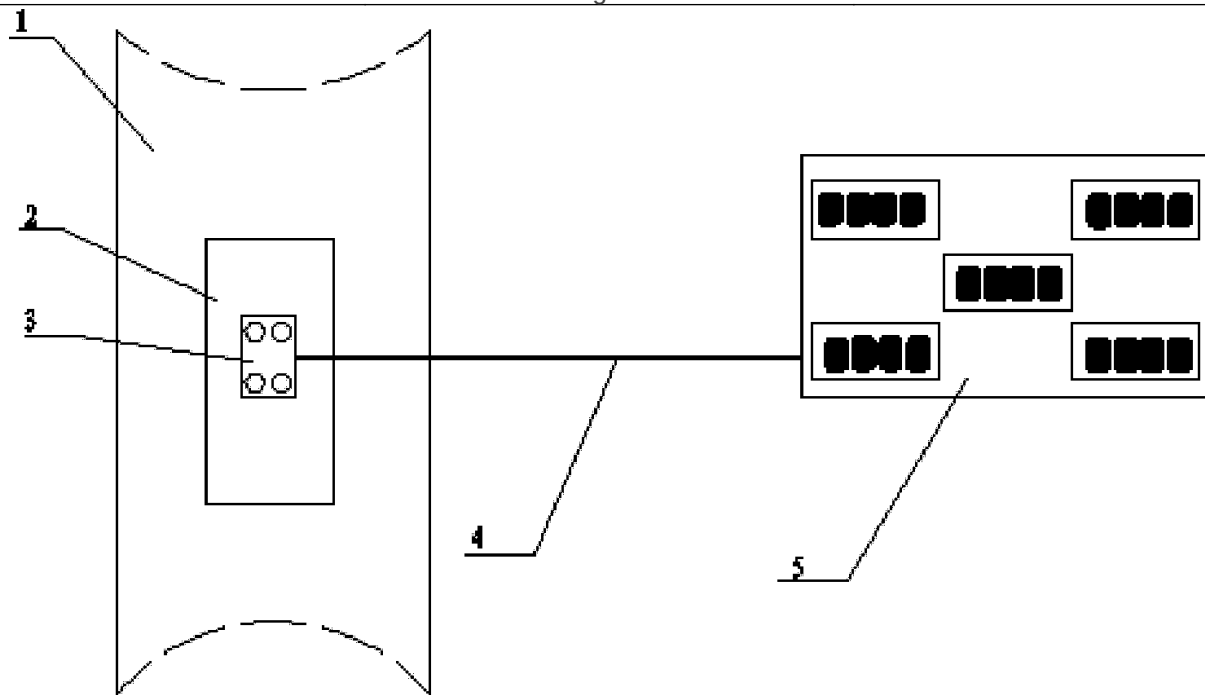
Family 44/100 - FAMPAT - ©Questel

Title

(CN202357484U)

Hydraulic press tonnage detection apparatus

Images

**Publication data including kind & date**

CN202357484

U

2012-08-01

CN202357484U

**Abstract**

(CN202357484)

The utility model relates to a **hydraulic press** tonnage detection apparatus, comprising a foil gauge sensor in fixed connection to a **hydraulic press** pull bar and a tonnage monitor. A signal line of the foil gauge sensor connects into the tonnage monitor. The **hydraulic press** tonnage detection apparatus can determine if the **hydraulic press** is in offset load usage and the direction of offset load by detecting the modification simulation signal from the foil gauge sensor on the **hydraulic press** pull bar by the tonnage monitor and by comparing the different stresses of a foil gauge of the foil gauge sensor; the **hydraulic press** tonnage detection apparatus is suitable for **hydraulic press** tonnage detection with high precision and sensitive reaction, is independent of temperature and other environmental factors and can display stress distribution of the **hydraulic press**.

Inventors

HU JIAN

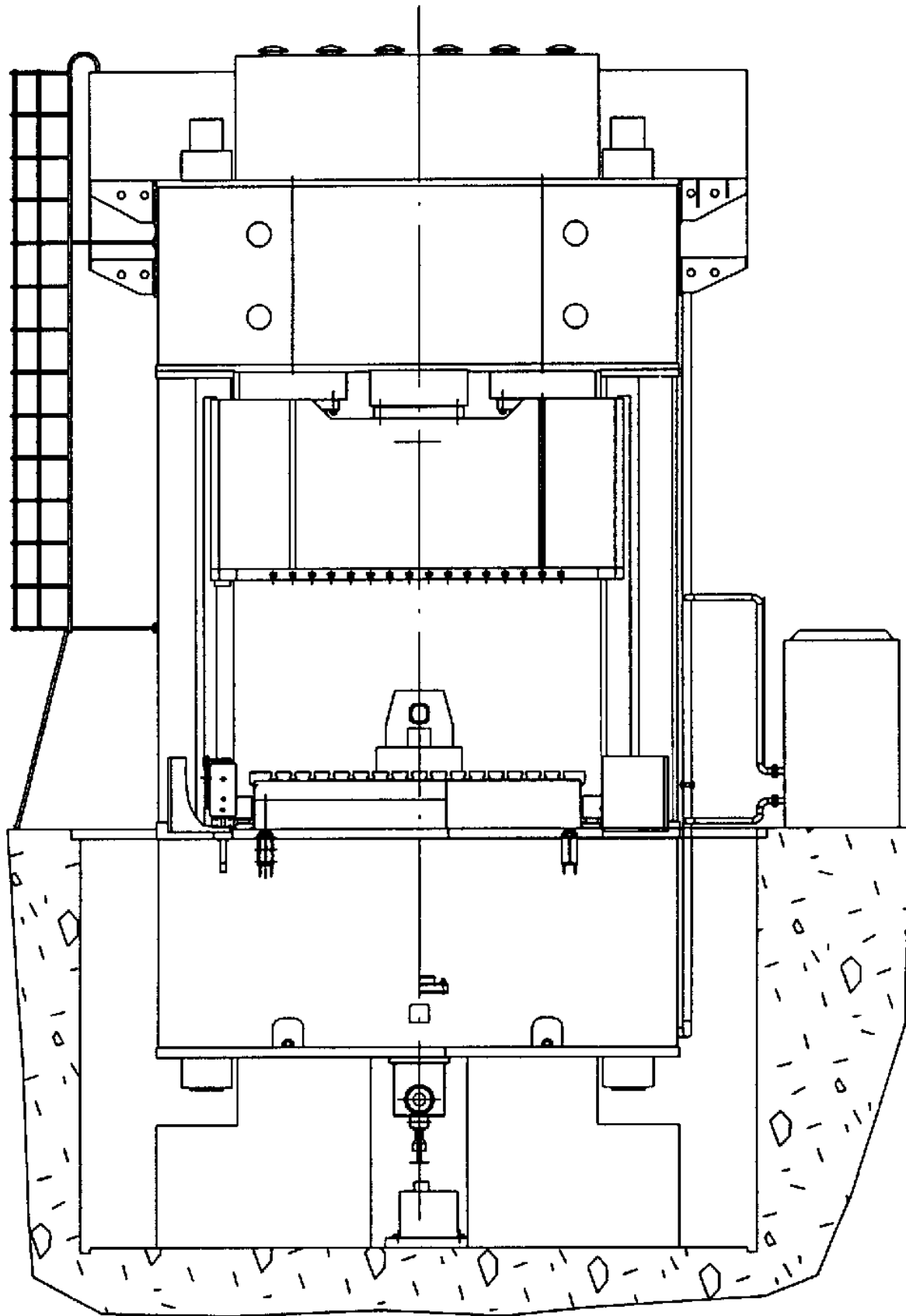
Latest standardized assignees - inventors removedTIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 45/100 - FAMPAT - ©Questel

Title

(CN100369694C)

Large-sized liquid-state die forging **hydraulic press** production line**Images**

**Publication data including kind & date**

CN1775410	A	2006-05-24	CN1775410
CN100369694	C	2008-02-20	CN100369694C

**Abstract**

(CN1775410)

The present invention relates to a heavy-duty liquid forging **hydraulic press** production line, belonging to the field of **hydraulic** automatic control technology. Said production line is formed from four portions of casting robot, liquid forging

hydraulic press, material-taking robot and workpiece band conveyer. Said invention also provides their concrete mounting mode and its concrete operation method and steps.

Inventors

SUI YAN

Latest standardized assignees - inventors removed

TIANJIN TIANDUAN HYDRAULIC PRESS

Family 46/100 - FAMPAT - ©Questel

Title

(CN105458140)

Electronic control system for twenty-thousand-ton isothermal forging hydraulic press

Images



Publication data including kind & date

CN105458140	A	2016-04-06	CN105458140
CN105458140	B	2017-12-08	CN105458140B

**Abstract**

(CN105458140)

The invention discloses an electronic control system for a twenty-thousand-ton isothermal forging **hydraulic press**, and relates to the technical field of presses. The electronic control system comprises an electrical control cabinet, an operating box, a lower cross beam slave station cabinet, a power system slave station cabinet, an upper cross beam slave station cabinet and a leveling slave station cabinet. A programmable controller is installed inside the operating box. A leveling system controller is installed inside the leveling slave station cabinet. The electrical control cabinet, the operating box, the lower cross beam slave station cabinet, the power system slave station cabinet, the upper cross beam slave station cabinet, the leveling slave station cabinet and the programmable controller are electrically connected in sequence. According to the technical scheme, the electronic control system is mainly suitable for the twenty-thousand-ton isothermal forging **hydraulic press** and has the advantages of being simple in structure, convenient to connect and low in failure rate.

Inventors

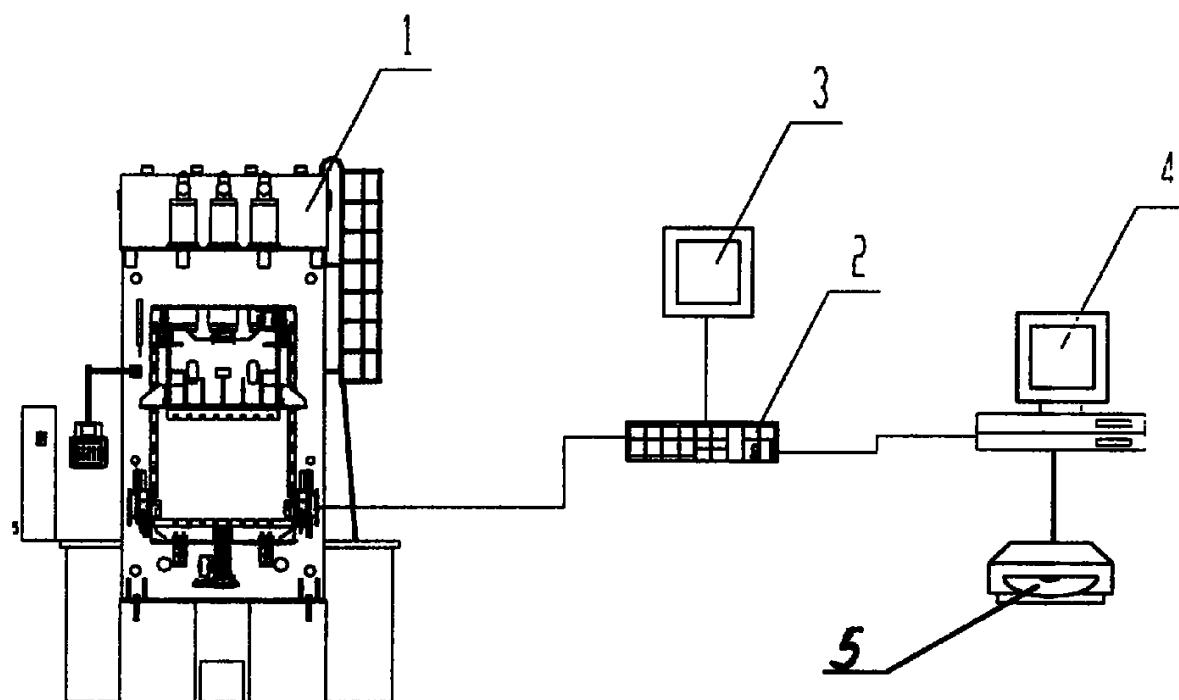
JI XIN

Latest standardized assignees - inventors removedTIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 47/100 - FAMPAT - ©Questel

Title

(CN2782259U)

Monitor of isothermal hammering **hydraulic press****Images****Publication data including kind & date**

CN2782259	Y	2006-05-24	CN2782259U
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**Abstract**

(CN2782259)

The utility model relates to a monitor of an isothermal forging **hydraulic press**, which belongs to the technical field of the **hydraulic press** and is composed of the isothermal forging **hydraulic press**, a controller and a touch screen, wherein the isothermal forging **hydraulic press** is connected with the controller connected with the touch screen. The controller of the

isothermal forging **hydraulic press** is connected with a monitoring industrial control computer. The utility model adds the monitoring industrial control computer, raises the control safety of the isothermal forging **hydraulic press** and the accessibility of technology data storage. The **hydraulic press** monitor can effectively avoid data leakage or damage with real reliable record and easy data output, can conveniently adjust process parameters, has simple structure and reliable operation, and raises the automation level of the **hydraulic press**.

Inventors

YANG MING

Latest standardized assignees - inventors removed

TIANJIN TIANDUAN **HYDRAULIC PRESS**

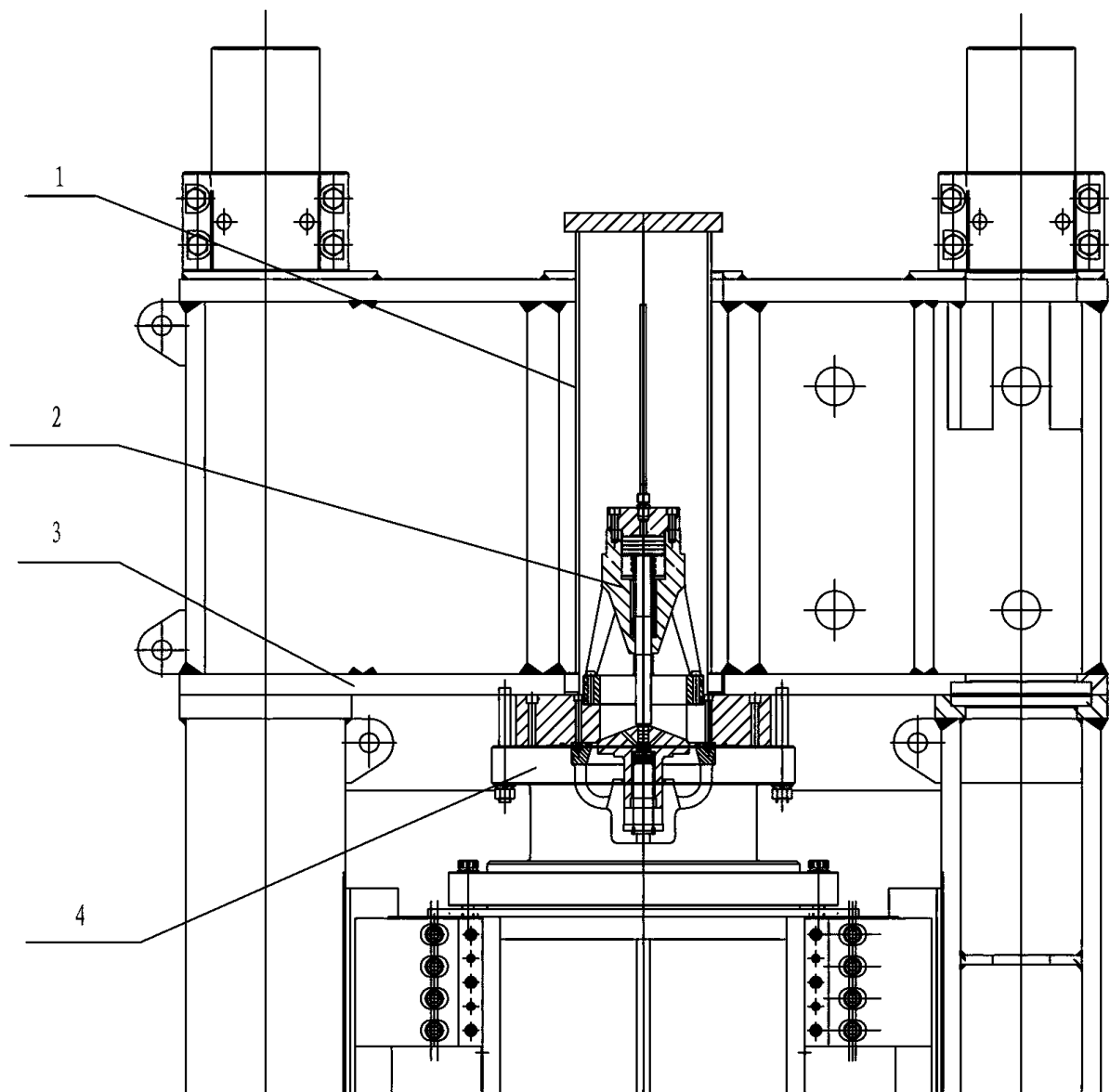
Family 48/100 - FAMPAT - ©Questel

Title

(CN203409164U)

Liquid charging structure of **hydraulic** forging **press**

Images



Publication data including kind & date

[CN203409164](#)

U 2014-01-29 CN203409164U



Abstract

(CN203409164)

The utility model discloses a liquid charging structure of a **hydraulic** forging **press**, relating to the technical field of **hydraulic** forging **press**. The liquid charging structure comprises a **hydraulic press** upper beam, a plunger and a liquid charging valve,

wherein one end of the liquid charging valve is connected with a delivery valve of the plunger, and the other end of the liquid charging valve is connected with an oil tank. The liquid charging structure further comprises a flange respectively connected with the **hydraulic press** upper beam, the plunger and the liquid charging valve, wherein the flange is formed by fixedly connecting a large flange and a small flange, a connecting bracket connected with the small flange is arranged on the side wall of the liquid charging valve, a through hole matched with the small flange in size is formed in the **hydraulic press** upper beam, the small flange is arranged in the through hole, and the **hydraulic press** upper beam is connected with the plunger through the large flange. According to the liquid charging structure, the liquid charging valve is arranged between the plunger and the **hydraulic press** upper beam, thus the oil leakage is prevented in a joint of the liquid charging valve and an oil cylinder due to machine body deformation caused by insufficient pretightening force and equipment pressurizing, and a bolt is prevented from being broken due to imbalance of the pretightening force of the bolt of the liquid charging valve.

Inventors

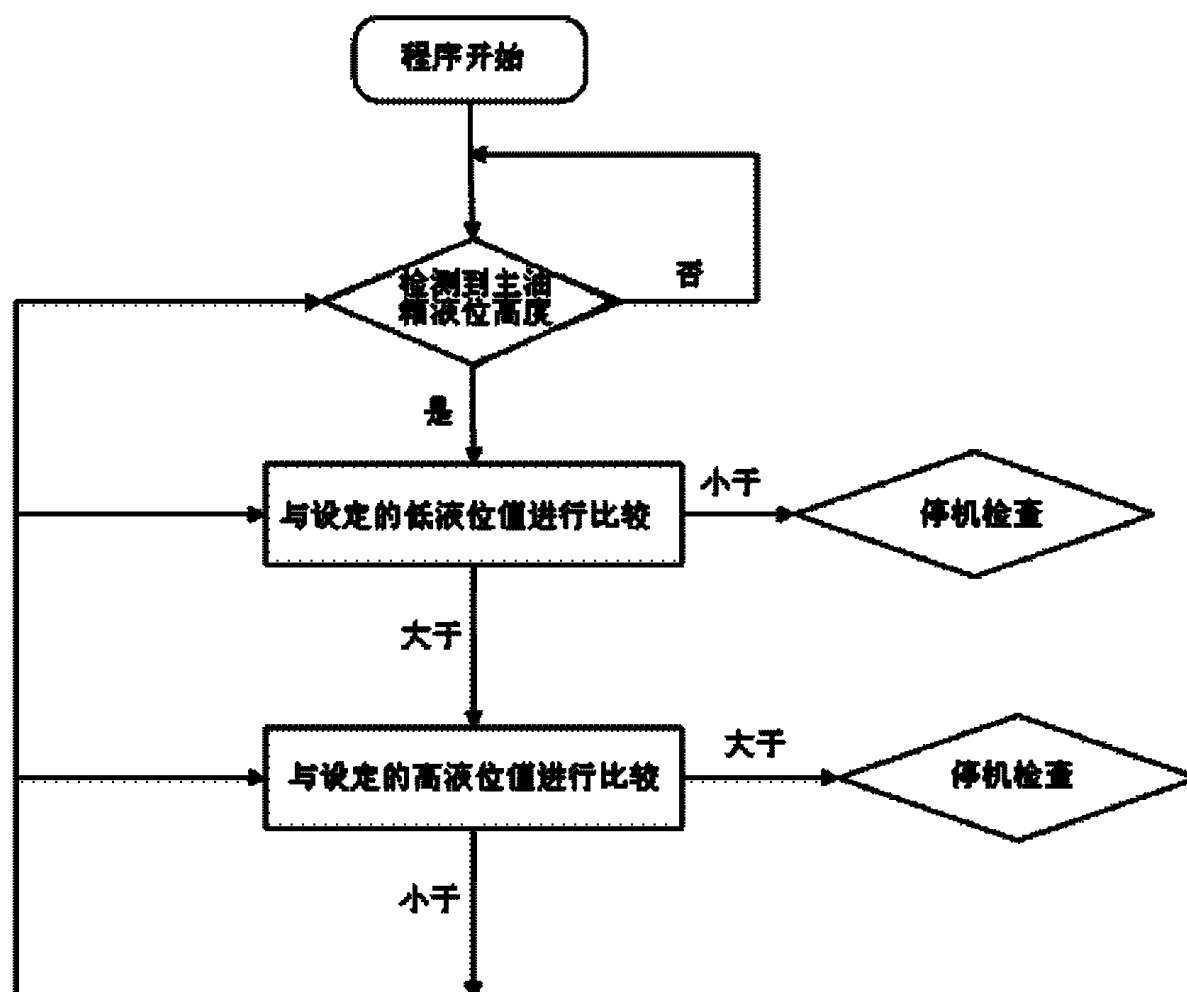
RAN WENTAO

Latest standardized assignees - inventors removedTIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 49/100 - FAMPAT - ©Questel

Title

(CN102303420)

Method for monitoring liquid level of **hydraulic press** by using plug-in analog quantity liquid level sensor**Images**

Publication data including kind & date

CN102303420

A

2012-01-04

CN102303420

**Abstract**

(CN102303420)

The invention relates to a method for monitoring the liquid level of a **hydraulic press** by using a plug-in analog quantity liquid level sensor. In the method, the analog liquid level sensor is arranged in an oil supply tank of the **hydraulic press** and is connected with an analog quantity input module of a PLC (programmable logical controller). In the operating process of the **hydraulic press**, the method comprises the following steps: judging whether the analog quantity liquid level sensor detects the liquid level of a main oil tank; if so, executing the next step; otherwise, continuously carrying out the judgment; comparing the detected liquid level with the set low liquid level value and high liquid level value so as to judge whether the liquid level is in the set liquid level range; if so, returning to the step 1 and continuing to judge whether the analog liquid level sensor detects the liquid level of the main oil tank; and otherwise, stopping the **hydraulic press** to check. The method provided by the invention is simple and easy to implement; through the method, the oil level of **hydraulic** oil can be monitored in real time, the control effect is good, and the operation is stable and reliable; and moreover, not only can the problem of full leakage of the **hydraulic** oil be solved, but also convenience is brought to the user of the **hydraulic press** and energy can be saved. The method has remarkably high values in popularization and application.

Inventors

LI LIQING

Latest standardized assignees - inventors removed

TIANJIN TIANDUAN **HYDRAULIC PRESS**

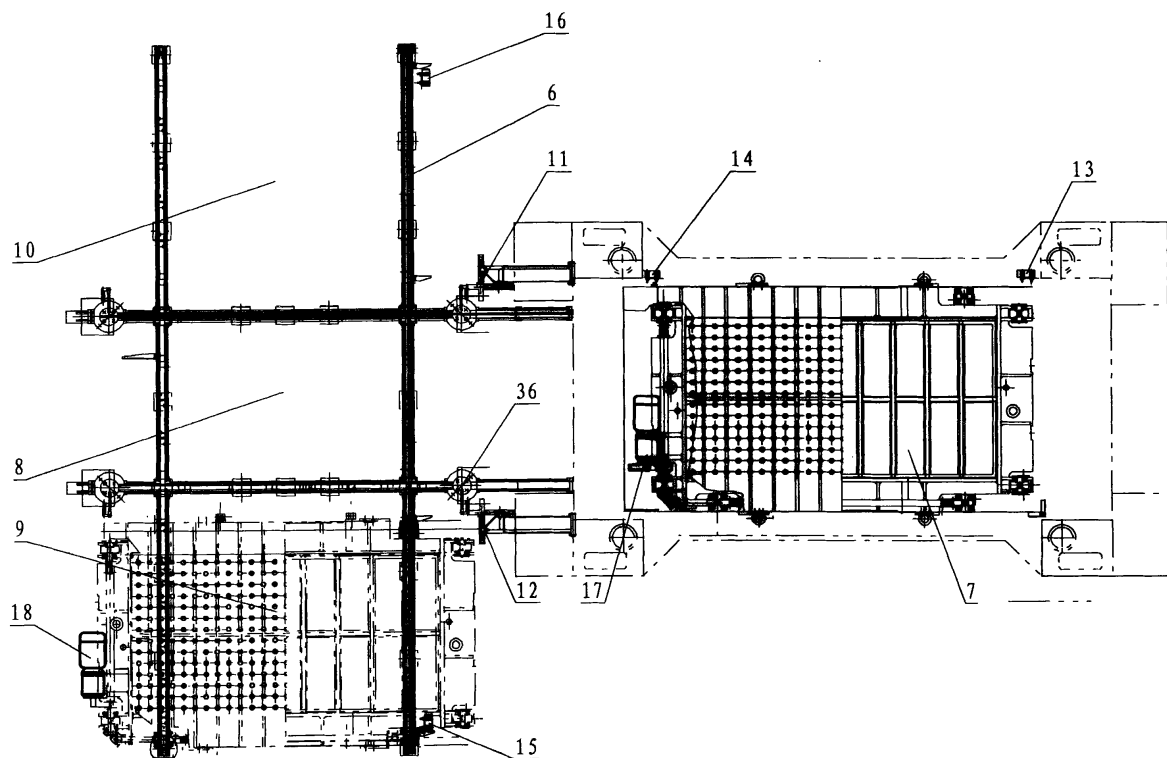
Family 50/100 - FAMPAT - ©Questel

Title

(CN201158169U)

Hydraulic press with T shaped double-moveable platform, drive and control system thereof

Images



Publication data including kind & date

CN201158169 Y 2008-12-03 CN201158169U



Abstract

(CN201158169)

The utility model relates to a **hydraulic press** with T-shaped double-moving work bench and a drive and control system thereof. The **hydraulic press** with T-shaped double-moving work bench comprises a **hydraulic press**, T-shaped guide rails of moving work benches on the lower part of the **hydraulic press**, and a first and a second moving work benches arranged on the T-shaped guide rails. The drive and control system comprises a controller PLC arranged in an operation box for

controlling the operation of the **hydraulic press**, a control panel on the operation box, a drive circuit electrically connected with the controller PLC, a first work bench drive motor and a second moving work bench drive motor which are connected with the drive circuit through wires, a plurality of lifting cylinders arranged on the T-shaped guide rails of the **hydraulic press**, and an A in-position detection limit switch, a B in-position detection limit switch, a C in-position detection limit switch, and a D in-position detection limit switch which are arranged at the lower end of the T-shaped guide rails of the moving work benches and connected with a CPU module in the controller PLC. The **hydraulic press** has the advantages of economic and reliable operation, high production efficiency, simple control principle, convenient use, high performance, high efficiency, and high automation.

Inventors

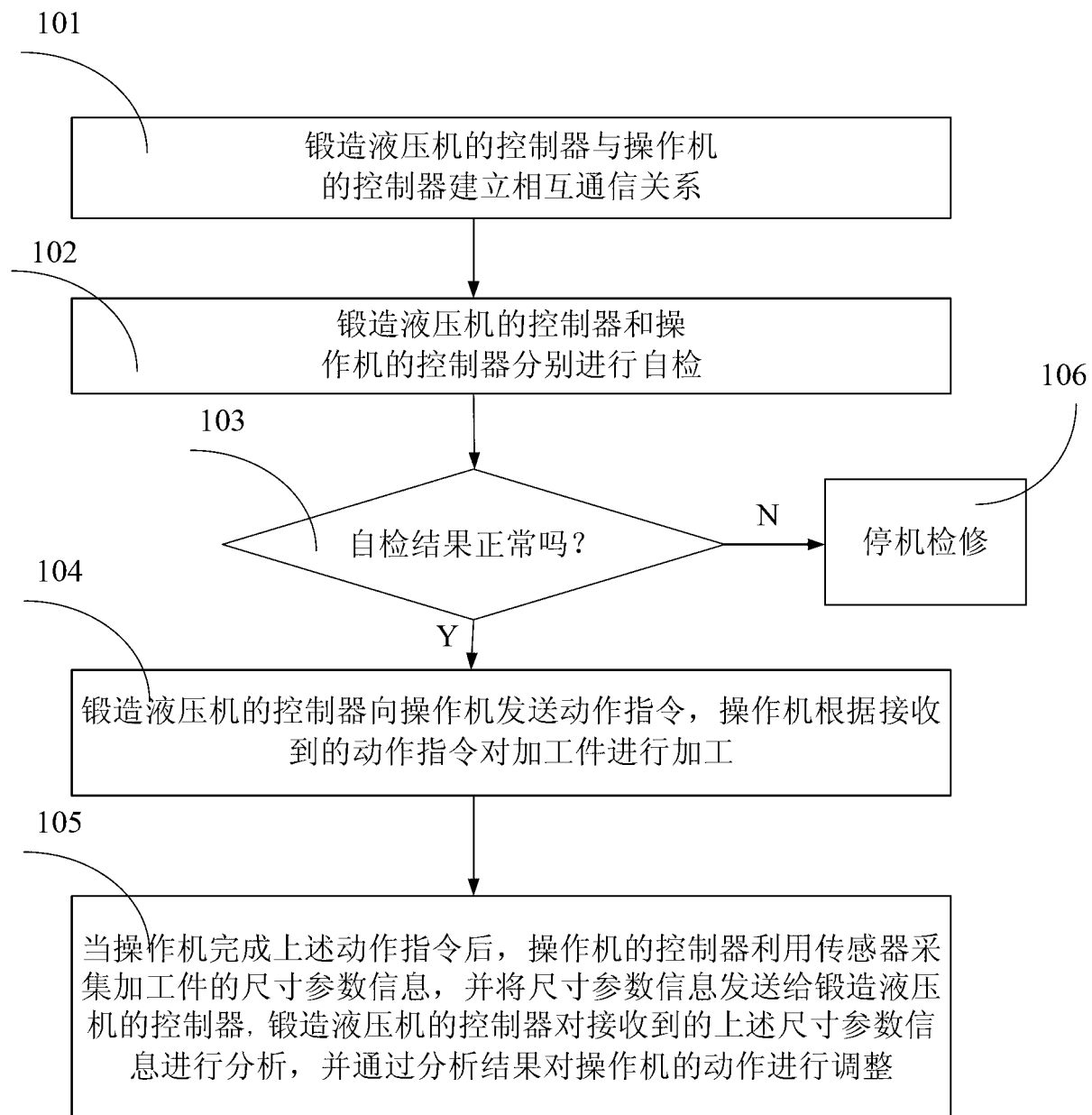
TIAN LIHONG

Latest standardized assignees - inventors removedTIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 51/100 - FAMPAT - ©Questel

Title

(CN103324160)

Control method of automatic linkage between **hydraulic** forging **press** and operation machine**Images**

CN103324160

A 2013-09-25 CN103324160

Abstract

(CN103324160)

The invention discloses a control method of the automatic linkage between a **hydraulic forging press** and an operation machine. The control method comprises the following steps: firstly, the mutual communication relation between a controller of the **hydraulic forging press** and a controller of the operation machine is built; secondly, self inspections are respectively carried out on the controller of the **hydraulic forging press** and the controller of the operation machine; thirdly, when the two diagnosis results in the second step are both normal, the controller of the **hydraulic forging press** sends out an action command to the operation machine, and the operation machine conducts machining on a machined piece according to the received action command; fourthly, after the operation machine completes the action command, the controller of the operation machine utilizes a sensor for collecting the size parameter information of the machined piece and sends the size parameter information of the machined piece to the controller of the **hydraulic forging press**, and the controller of the **hydraulic forging press** conducts analysis on the received size parameter information and conducts adjustment on actions of the operation machine according to the analysis result. The control method has the advantages of being high in machining precision, high in automation degree, low in failure rate and easy to operate.

Inventors

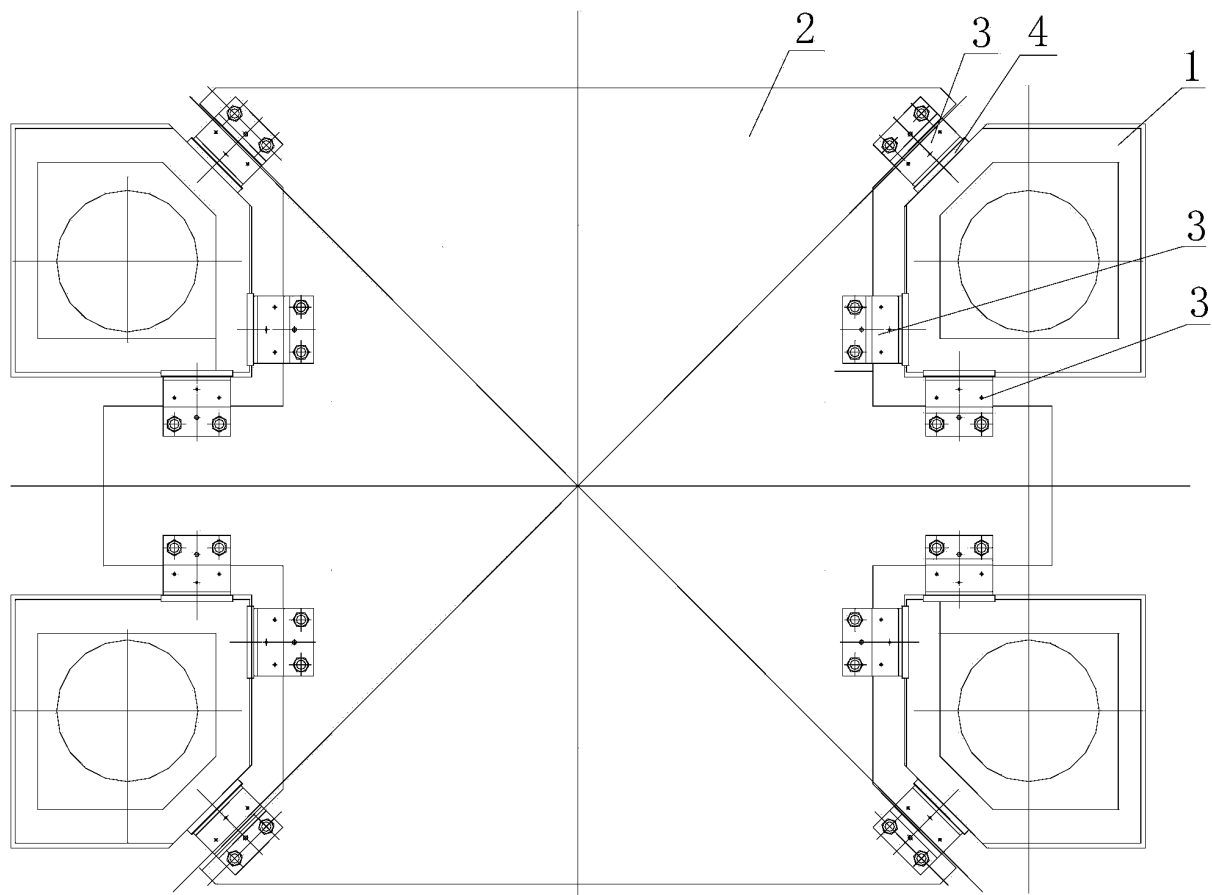
ZHOU GANG

Latest standardized assignees - inventors removedTIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 52/100 - FAMPAT - ©Questel

Title

(CN203541415U)

Guide device of heavy type die forging **hydraulic press****Images****Publication data including kind & date**

CN203541415

U 2014-04-16 CN203541415U



Abstract

(CN203541415)

The utility model relates to a guide device of a heavy type die forging **hydraulic press**. The guide device of the heavy type die forging **hydraulic press** is characterized by comprising guide rail assemblies arranged at the four corners of a **press** slide, and stand column upper guide plates which are fixedly mounted on the side surfaces of the four stand columns of the **press** and matched with the guide rail assemblies. The layout of the guide device of the heavy type die forging **hydraulic press** comprises that the side surface of every corner of the slider is provided with a groove, and the three neighboring side surfaces of every groove are all provided with the guide rail assemblies and the three neighboring side surfaces of every stand columns are provided with the stand column upper guide plates matched with the corresponding guide rail assemblies to compose a four-corner twelve-surface unbalance-loading-resistant integrated guide structure of the **hydraulic press**. The guide device of the heavy type die forging **hydraulic press** is of the four-corner twelve-surface unbalance-loading-resistant integrated guide structure and accordingly can greatly improve the unbalance-loading-resistant capacity of the **hydraulic press**, avoid damage of the main structure of the **hydraulic press**, prolong the service life, reduce the investment costs of users, meet the forging requirements of various workpieces and improve the quality of the workpieces and the production efficiency.

Inventors

GAO HONGWANG

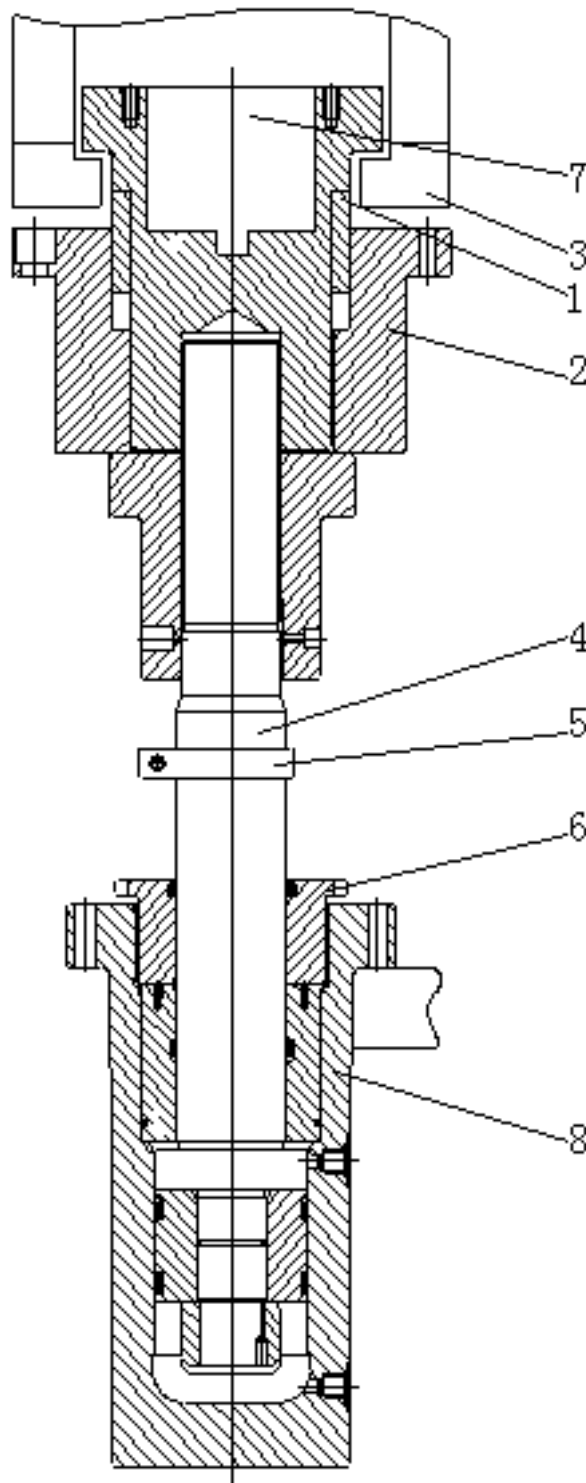
Latest standardized assignees - inventors removedTIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 53/100 - FAMPAT - ©Questel

Title

(CN103568355)

Movable workbench clamping method and special clamping device thereof for **hydraulic press****Images**



Publication data including kind & date

CN103568355	A	2014-02-12	CN103568355
CN103568355	B	2015-09-23	CN103568355B



Abstract

(CN103568355)

The invention relates to a movable workbench clamping method for a **hydraulic press**. The method comprises the steps as follows: a movable workbench is driven by a motor to move on a track, and a movable workbench in-position proximity switch is adopted to detect whether the movable workbench moves in position; and when the movable workbench moves in position, the movable workbench stops moving, a clamping cylinder drives a top plate to begin descending, meanwhile, a pressure detection switch starts to detect pressure at an oil inlet of the clamping cylinder, when the pressure increases gradually, the clamping cylinder stops driving, and the movable workbench is clamped at the moment. A clamping device for realizing the clamping method mainly comprises the movable workbench, a fixed workbench, the detection switch, the clamping cylinder and the top plate. The invention further relates to a special clamping device for realizing the clamping

method. The movable workbench clamping method and the special clamping device thereof for the **hydraulic press** has the advantages that lower spacing is cancelled, the proximity switch arranged inside the fixed workbench is used for detection, and whether the movable workbench is clamped is determined by the pressure of the clamping cylinder.

Inventors

SHAO ZHENG GUO

LU XIN JIAN

ZHAO XING HUA

SHAO ZHI QIANG

Latest standardized assignees - inventors removed

NANTONG GAOYE **HYDRAULIC PRESS** MACHINE

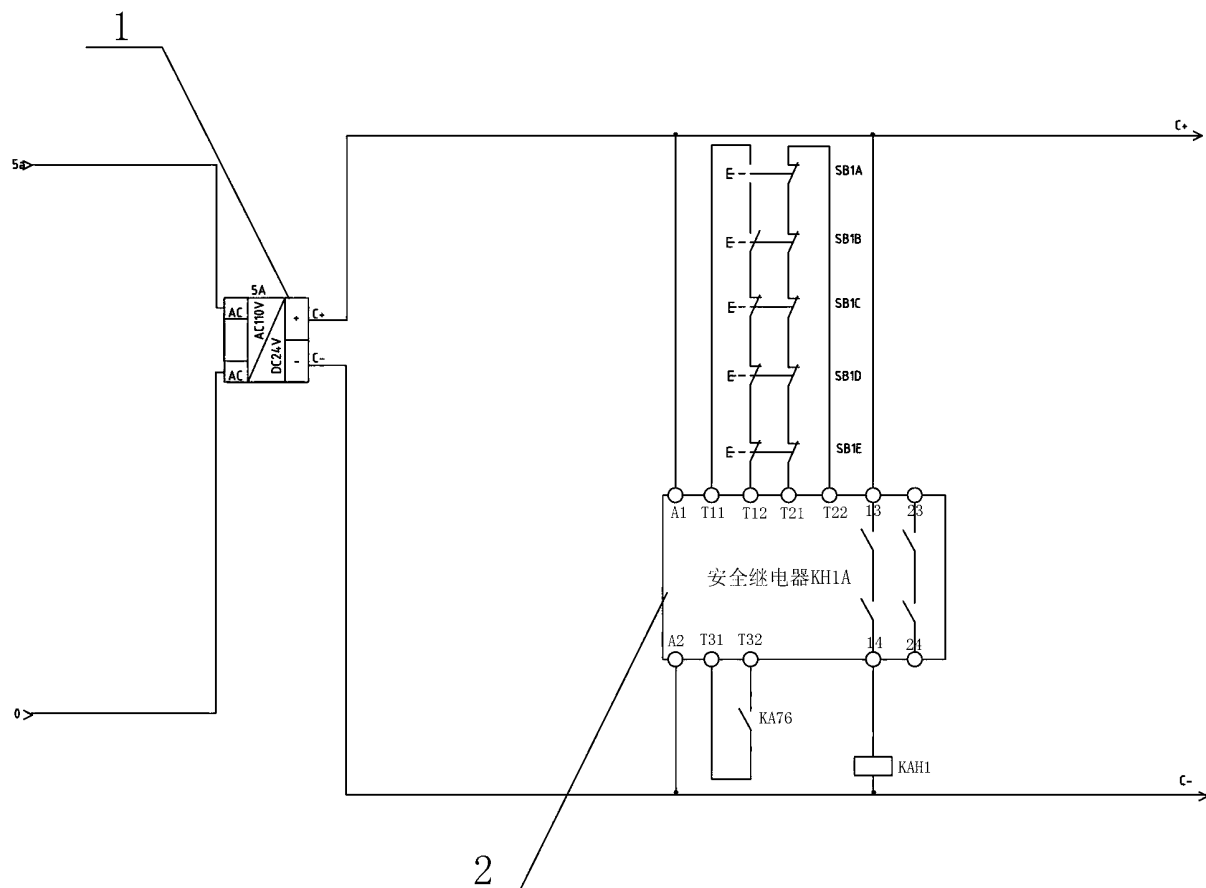
Family 54/100 - FAMPAT - ©Questel

Title

(CN203410080U)

Two-circuit security module-based emergency stop control device for **hydraulic press**

Images



Publication data including kind & date

CN203410080

U

2014-01-29

CN203410080U



Abstract

(CN203410080)

The utility model discloses a two-circuit security module-based emergency stop control device for a **hydraulic press**, belonging to the technical field of the **hydraulic press**. The two-circuit security module-based emergency stop control device comprises a power supply module and a security relay, wherein an input terminal of the power supply module is connected with an alternating current power supply, the power supply module converts the alternating current power supply into a direct current power supply so as to provide a driving power supply for the security relay, and the power supply module has the current-limiting and voltage-stabilizing effects; an output terminal of the power supply module is connected with the security relay through two circuits; the security relay and five emergency stop control buttons of the **hydraulic press** are

connected. When the **hydraulic press** has an emergency, any one emergency stop control button is pressed down, only one of two circuits of the security relay acts, thus being capable of outputting an emergency stop signal; therefore, the security reliability of the whole **hydraulic press** can be greatly enhanced; by adopting a programmable controller module, the double security of the safety relay and the programmable controller module on the emergency stop control of the **hydraulic press** can be realized.

Inventors

ZHANG WEICHAO

Latest standardized assignees - inventors removedTIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 55/100 - FAMPAT - ©Questel

Title

(CN201625757U)

Pushing device for mobile station of **hydraulic press****Publication data including kind & date**[CN201625757](#)

U

2010-11-10

CN201625757U

**Abstract**

(CN201625757)

The utility model relates to a pushing device for a mobile station of a **hydraulic press**, which belongs to the technical field of the **hydraulic** forging **press**. The pushing device for the mobile station of the **hydraulic press** is characterized in that a pushing mechanism is arranged in an auxiliary girder at one side of the **hydraulic press**; the pushing mechanism is provided with a frame body and a **hydraulic** cylinder; the **hydraulic** cylinder is arranged on the frame body and drives the mobile station of the **hydraulic press** to move. Therefore, the moving problem of the mobile station in large tonnage and long travel is solved. The pushing device for the mobile station of the **hydraulic press** has the advantages of simple structure, convenient control, reliable stability, fine performance and easy mobile station operating, and can be widely applied to the industry of the extra-heavy **hydraulic** forging **press**.

Inventors

WU SHULIANG

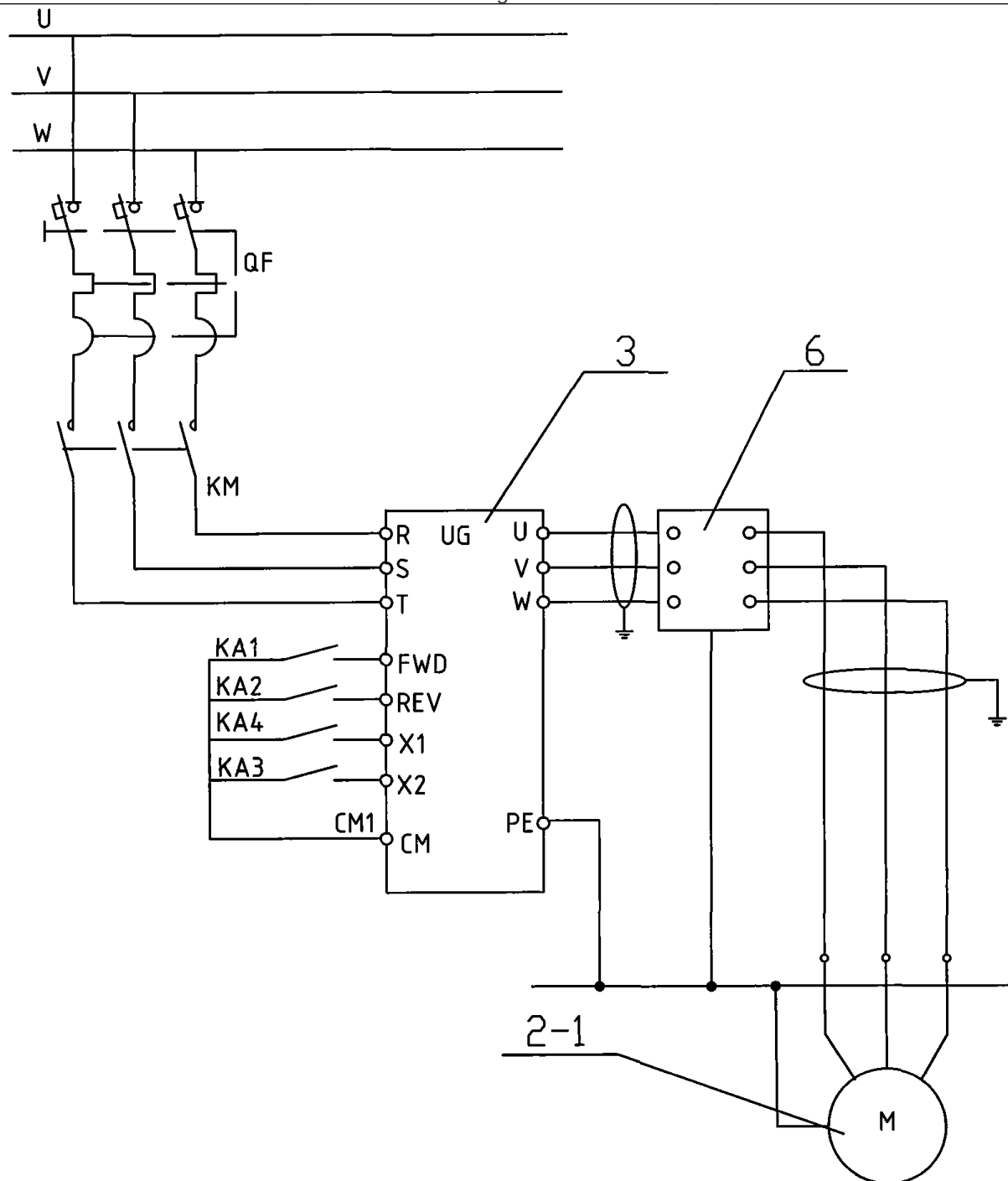
Latest standardized assignees - inventors removedTIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 56/100 - FAMPAT - ©Questel

Title

(CN201511534U)

Position trimming device applied to glass reinforced plastic **hydraulic press****Images**



Publication data including kind & date

CN201511534

U

2010-06-23

CN201511534U



Abstract

(CN201511534)

The utility model discloses a position trimming device applied to a glass reinforced plastic **hydraulic press**. The position trimming device is provided with a trimming mechanism which is formed by a motor arranged on the **hydraulic press** and used for controlling the moving of a **hydraulic press** sliding block, and a rotary encoder used for detecting the displacement and the speed of the **hydraulic press** sliding block; an input terminal of the motor is connected with an output terminal of a frequency converter; an input terminal of the frequency converter is connected with an output module of a programmable logic controller PLC; and the rotary encoder is connected to a high-speed counting unit of the programmable logic controller PLC. An FWD terminal, an REV terminal, an X1 terminal and an X2 terminal of the frequency converter are connected with the output module of the programmable logic controller PLC through an intermediate relay; and a coil of the intermediate relay is connected to the output module of the programmable logic controller PLC. The utility model effectively adjusts the speed of the sliding block and realizes stable and reliable control; and the type of **hydraulic press** has higher free running speed, thereby preventing molar material from entering the die to cause the pre-solidification phenomenon, improving the

flow speed of material in the die, and shortening the pressurizing time.

Inventors

CHEN LIYA

Latest standardized assignees - inventors removed

TIANJIN TIANDUAN **HYDRAULIC PRESS**

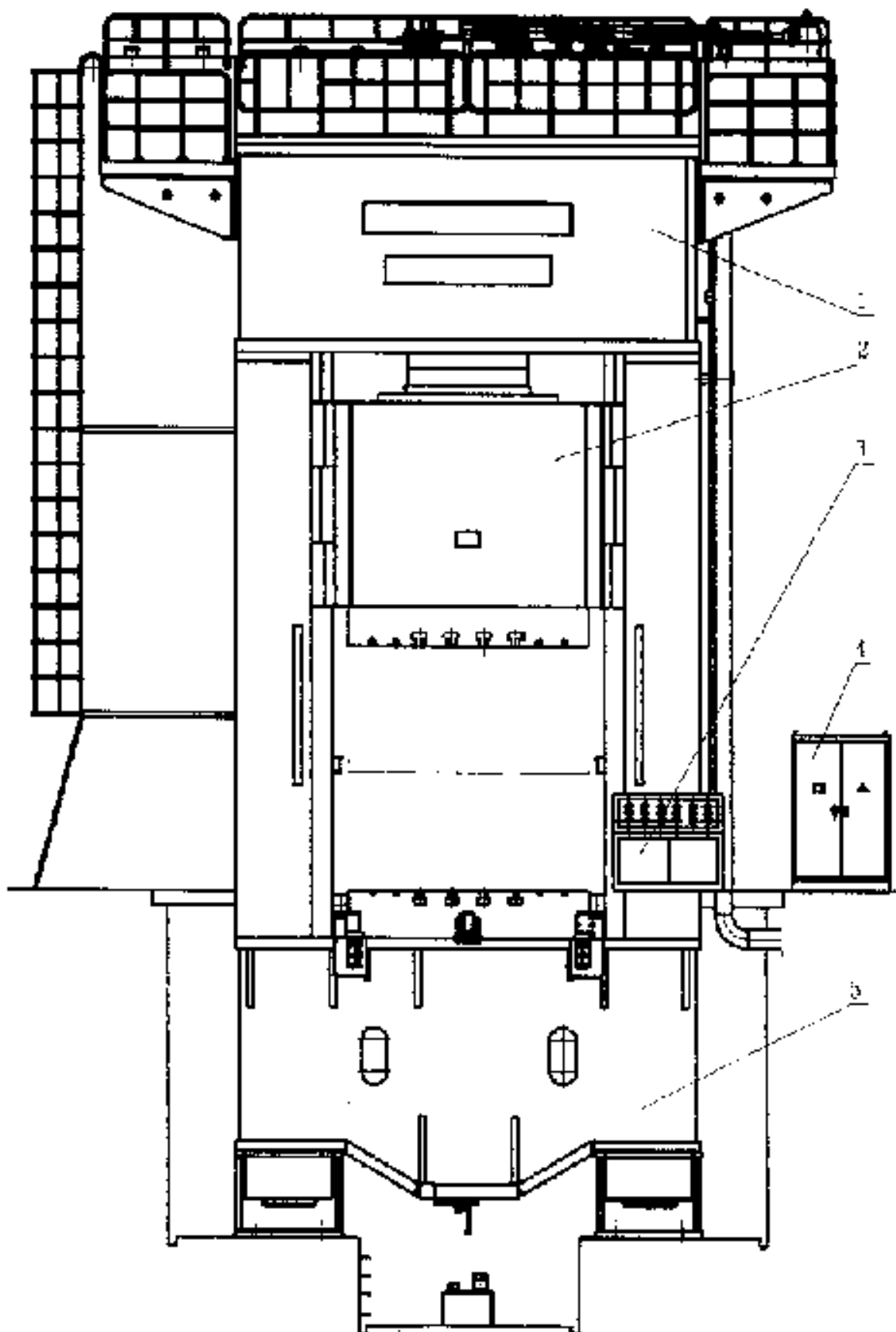
Family 57/100 - FAMPAT - ©Questel

Title

(CN2625141U)

Numerical-controlled **hydraulic press** capable of communicating between different areas

Images

**Publication data including kind & date**

CN2625141

Y

2004-07-14

CN2625141U

**Abstract**

(CN2625141)

The utility model relates to a numerical control **hydraulic press** capable of non-local communication in the technical field of **hydraulic** automatic control, which comprises a **hydraulic press** frame, a beam and a controller. A movable beam is positioned between an upper and a lower beam on the **hydraulic press**; a signal sensor is positioned on the **hydraulic press** and is connected to the controller; a communication interface capable of non-local communication and controlling the

operation of the **hydraulic press** is positioned on the controller. The utility model, with the adoption of a data communication interface on the controller, is able to, with the help of non-local control center, carry out the analysis and diagnosis on the failure of **hydraulic press** at real time. In addition, with the advantages of long-distance communication, fast and accurate operation, the utility model is able to greatly reduce the repairing cost of **hydraulic press** and enhance the production efficiency. Therefore, the product has broad market prospect.

Inventors

LI SEN

Latest standardized assignees - inventors removed

TIANJIN TIANDUAN **HYDRAULIC PRESS**

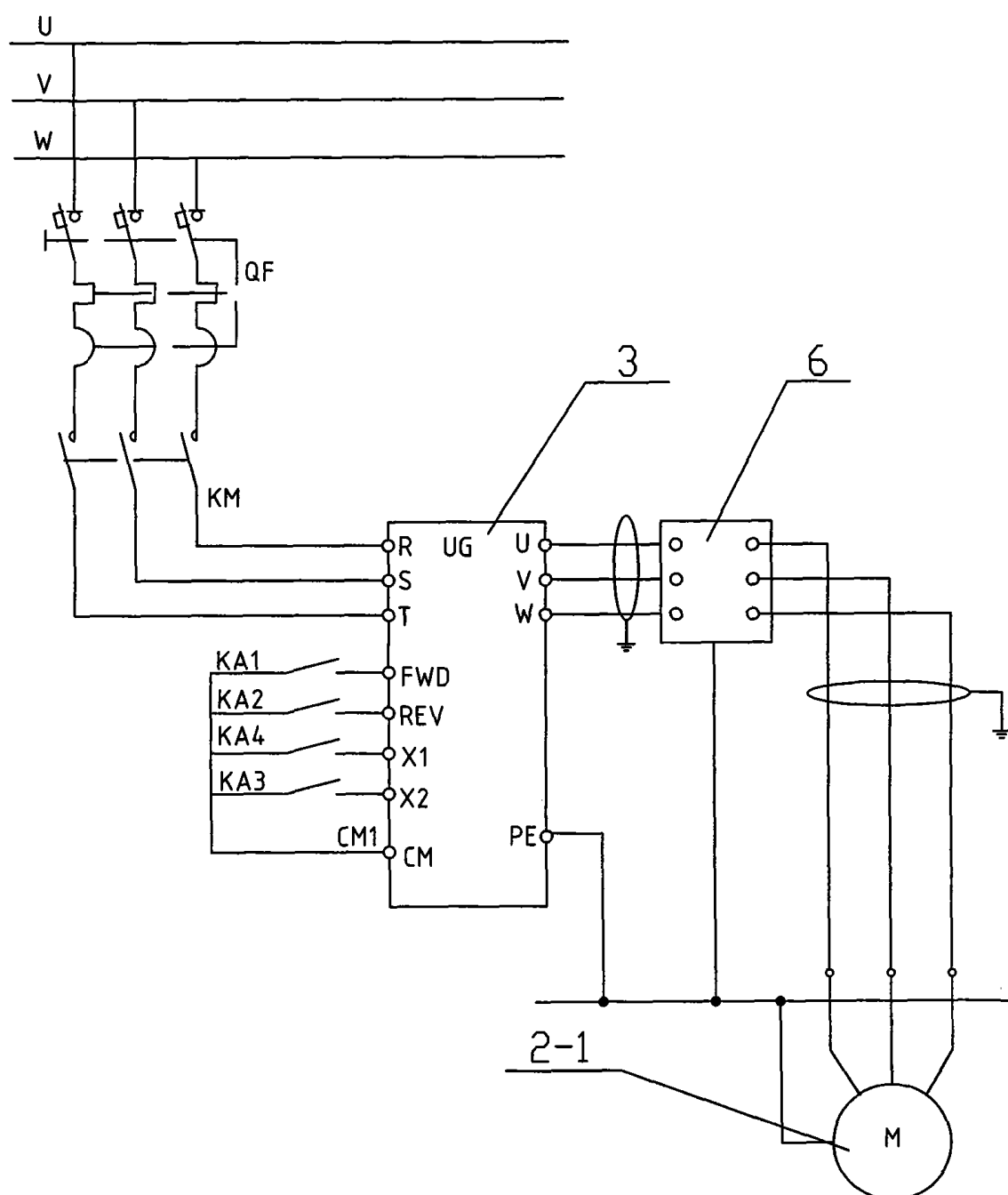
Family 58/100 - FAMPAT - ©Questel

Title

(CN101670673)

Slide block optional position fine adjustment device of glass fiber product **hydraulic press**

Images



CN101670673

A 2010-03-17 CN101670673

Abstract

(CN101670673)

The invention discloses a slide block optional position fine adjustment device of a glass fiber product **hydraulic press**, which is provided with a fine adjustment device arranged on the **hydraulic press**, wherein the fine adjustment device comprises a motor for controlling the movement of a **hydraulic press** slide block and a rotary encoder for detecting the displacement and the speed of the hydraulicpress slide block. The input end of the motor is connected with the output end of a frequency converter, and the input end of the frequency converter is connected with an output module of a programmable controller (PLC); the rotary encoder is connected with a high speed counting unit of the PLC; an FWD terminal, a REV terminal, an X1 terminal and an X2 terminal of the frequency converter are connected with the output module of the PLC through an intermediate relay; and an intermediate relay coil is connected with the output module of the PLC. The slide block optional position fine adjustment device of the glass product **hydraulic press** can effectively regulate the speed of the slide block and has stable and reliable control, thereby the **hydraulic** presses have higher idle stroke speed, prevents tooth grinding material from entering into a die to generate precuring phenomenon, improves the flow speed of material in the die and shortens the pressing time.

Inventors

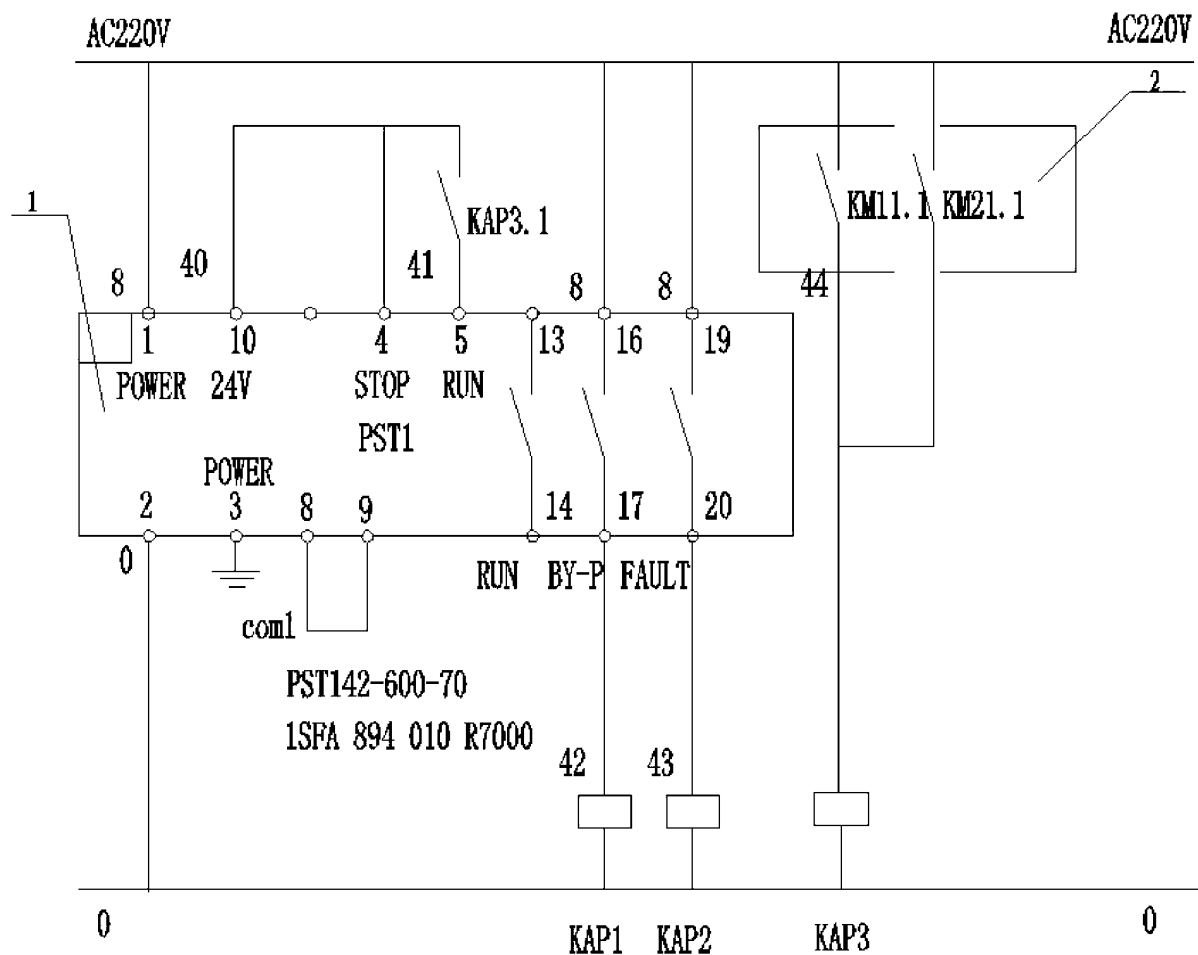
CHEN LIYA

Latest standardized assignees - inventors removedTIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 59/100 - FAMPAT - ©Questel

Title

(CN203409165U)

Soft starter-based multidirectional forging **hydraulic press** control device**Images**

CN203409165

U 2014-01-29 CN203409165U

Abstract

(CN203409165)

The utility model discloses a soft starter-based multidirectional forging **hydraulic press** control device, belonging to the technical field of a **hydraulic press**. The soft starter-based multidirectional forging **hydraulic press** control device is characterized in that a soft starter is arranged between a main pump motor and a power supply of a multidirectional forging **hydraulic press**, and electrically connected with the main pump motor by a relay. The soft starter is arranged between the main pump motor and the power supply of the multidirectional forging **hydraulic press**, and used for controlling overload impulse current or overload voltage, so that the damage of the overload impulse current or overload voltage to the main pump motor of the multidirectional forging **hydraulic press** can be reduced, thus effectively protecting the safety running of the multidirectional forging **hydraulic press**, nibbing in the bud, lowering the maintenance cost of the multidirectional forging **hydraulic press**, and prolonging the service life of the multidirectional forging **hydraulic press**.

Inventors

LI XIANG

Latest standardized assignees - inventors removedTIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 60/100 - FAMPAT - ©Questel

Title

(CN108620522)

Hydraulic press production process based on die recognition system**Publication data including kind & date**

CN108620522

A 2018-10-09 CN108620522

**Abstract**

(CN108620522)

The invention discloses a **hydraulic press** production process based on a die recognition system. The **hydraulic press** production process based on the die recognition system is characterized by comprising the following steps that firstly, the die recognition system recognizes a die label through a detection device and sends the recognized die label to a PLC, wherein the PLC is mounted on a die **hydraulic press**; secondly, the PLC receives the die label; thirdly, the PLC receives a technician station die name, if the technician station die name is consistent with the die label, the next step is conducted, and if the technician station die name is inconsistent with the die label, an alarm is given out; fourthly, the PLC reads technological parameters stored in an industrial personal computer, wherein the technological parameters correspond to the die label; and fifthly, the **hydraulic press** enters an automatic pressing circulation mode, and pressing process data are stored in the industrial personal computer and uploaded to a technician station. According to the **hydraulic press** production process based on the die recognition system, the technological parameters of the **hydraulic press** are automatically called through a die recognition method, process data and quality information obtained when a die is used for pressing workpieces are recorded, and the traceability of products is achieved through a die management system.

Inventors

ZHANG XIAOYAN

PAN GAOFENG

WU JIDONG

CUI MINGGUANG

JI XIN

Latest standardized assignees - inventors removedTIANJIN TIANDUAN **HYDRAULIC PRESS**

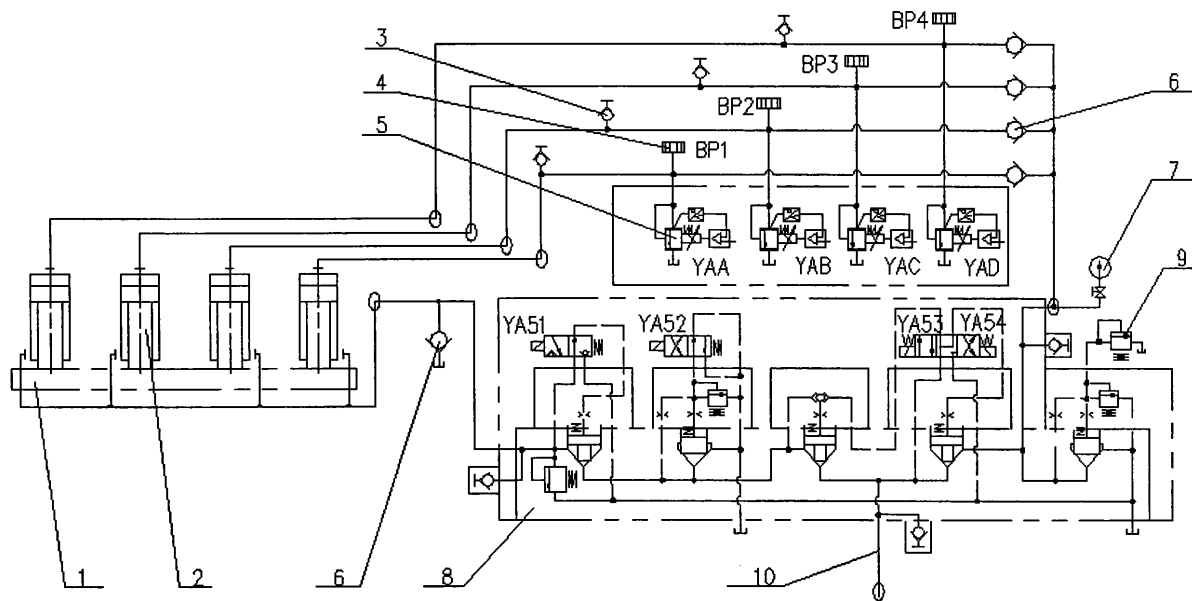
Family 61/100 - FAMPAT - ©Questel

Title

(CN201613659U)

On one kind of **hydraulic press** fluid pressure pad four jiao modulator

Images



Publication data including kind & date

CN201613659

U 2010-10-27 CN201613659U



Abstract

(CN201613659)

This utility model involves on one kind of **hydraulic press** a fluid pressure pad four jiao modulator. This utility model belongs to **hydraulic press** area of technology. On one kind of **hydraulic press** a fluid pressure pad's four jiao modulator, including the **hydraulic** pressure pipeline and solenoid valve, its characteristic is: On the **hydraulic press** a fluid pressure pad's four jiao modulator is on the fluid pressure pad establishes four jiao piston cylinder, each piston cylinder establishes an independent **hydraulic** control organization; The **hydraulic** control organization independent control the fluid pressure pad piston cylinder carries on to **press** the material and hits the material craft movement. This utility model has the structure to be simple, control convenient and stable reliable, function is comprehensive, performance is fine, the run cost is low, is easy to realize complex work piece the suppressed formation and other merits.

Inventors

TAI XIAOQIN

Latest standardized assignees - inventors removed

TIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 62/100 - FAMPAT - ©Questel

Title

(CN101164719)

Numerically-controlled forging **hydraulic press** capable of realizing reactive power compensation

Publication data including kind & date

CN101164719

A 2008-04-23 CN101164719



Abstract

(CN101164719)

The present invention relates to a numerically-controlled forging **hydraulic press** capable of implementing reactive power compensation, belonging to the field of **hydraulic press** technology. It includes the following several portions: **hydraulic press** machine frame, movable transverse beam, working table, display, electric controller and power mechanism. The electric controller can be used for controlling power mechanism to drive **hydraulic press** machine frame and movable transverse beam, the electric controller is connected with display. It is characterized by that the **hydraulic press** possesses a reactive power compensator and a reactive power compensation controller. The structure of said reactive power compensator is a three-phase power supply main circuit capable of making the compensation capacitance be connected

into the oil pump motor by means of contactor, the reactive power compensation controller is connected with the control contactor.

Inventors

YANG CANG

Latest standardized assignees - inventors removedTIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 63/100 - FAMPAT - ©Questel

Title

(CN104416107)

Modularized control method for die-forging **hydraulic press****Publication data including kind & date**

CN104416107	A	2015-03-18	CN104416107
CN104416107	B	2016-06-08	CN104416107B

**Abstract**

(CN104416107)

The invention discloses a modularized control method for a die-forging **hydraulic press**. The method comprises the following steps: firstly, establishing bidirectional communication link among a control panel, a controller and each slave station of the die-forging **hydraulic press** by using a communication module; secondly, performing self-inspection on an input signal and an output signal of the die-forging **hydraulic press** by using a self-inspection module; thirdly, controlling an auxiliary motor, an auxiliary **hydraulic** valve block action module, a main motor and a main **hydraulic** valve block action module to start in sequence by using the controller; fourthly, according to the machining process of a workpiece, selecting one or more of a sliding block action module, a centering mechanism action module, a worktable action module and a pre-punching device action module to machine the workpiece by using the controller. According to the modularized control method for the die-forging **hydraulic press**, the traditional process of the die-forging **hydraulic press** is divided into a plurality of functional modules according to functions, so that different functional modules can be selected for matching and assembling according to different workpiece requirements during a using process; therefore, the flexibility is higher.

Inventors

ZHANG ZHENQI

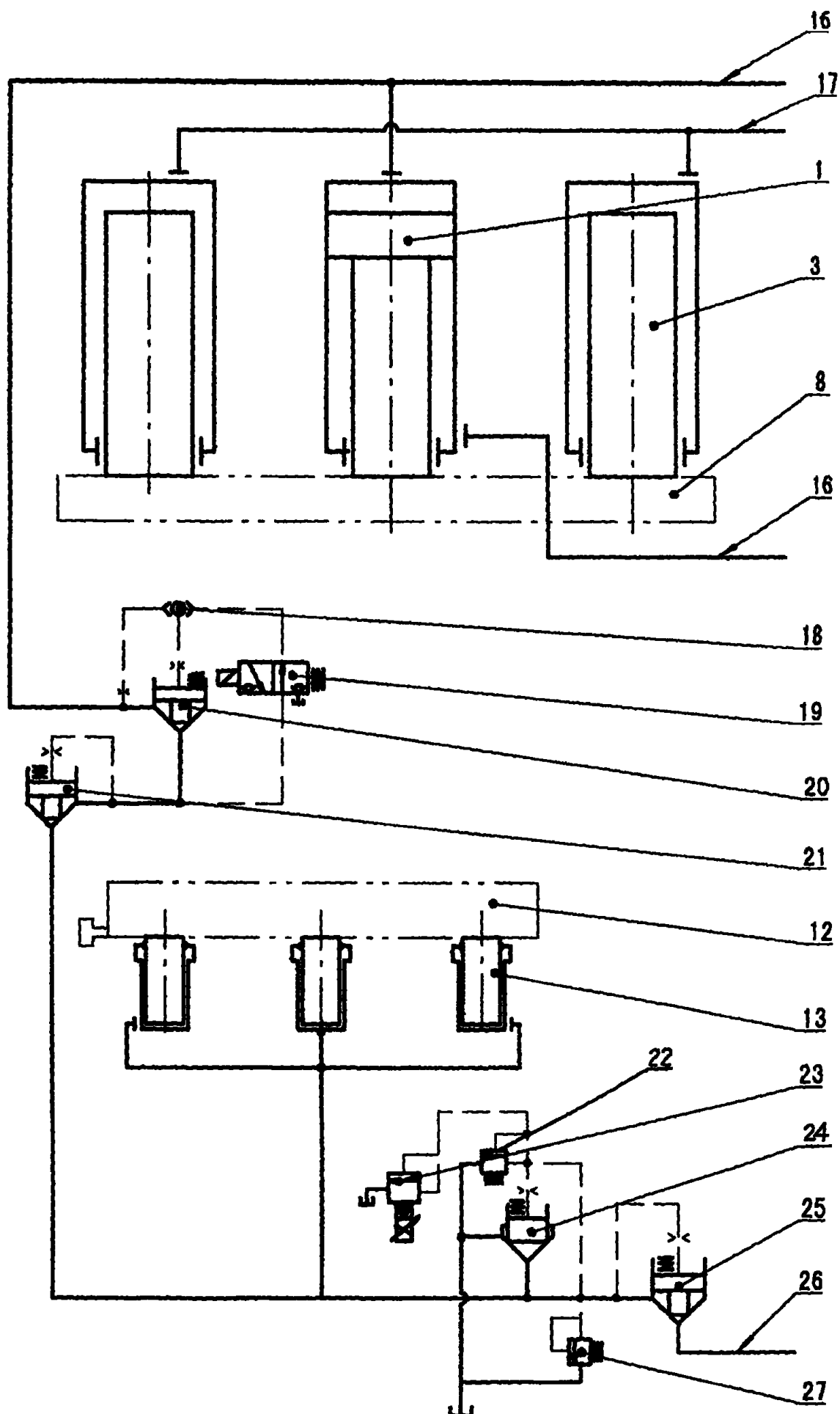
Latest standardized assignees - inventors removedTIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 64/100 - FAMPAT - ©Questel

Title

(CN100486799C)

Energy-saving thin plate **hydraulic** drawing **press****Images**



CN100486799

C

2009-05-13

CN100486799C

Abstract

(CN101134372)

The energy-saving metal sheet stretching **hydraulic press** includes one **press** body comprising one upper crossbeam, one lower crossbeam and lower uprights; one main oil cylinder and two side oil cylinders; one slide block; one worktable; one **hydraulic** cushion and one **hydraulic** cushion oil cylinder; one **hydraulic** control system comprising one **hydraulic** control oil path for main oil cylinder, one **hydraulic** control oil path for side oil cylinders one **hydraulic** control oil path for **hydraulic** cushion oil cylinder; and one electrical control system. It features the **hydraulic** control oil path for **hydraulic** cushion oil cylinder with two inserted non-return valves, one two-position three-way solenoid valve, one shuttle valve and one proportional overflow solenoid valve. It has the advantages of circular utilization of pressurized oil, low power consumption, high efficiency, high operation speed, less heat and low noise.

Inventors

LI FENGLAN

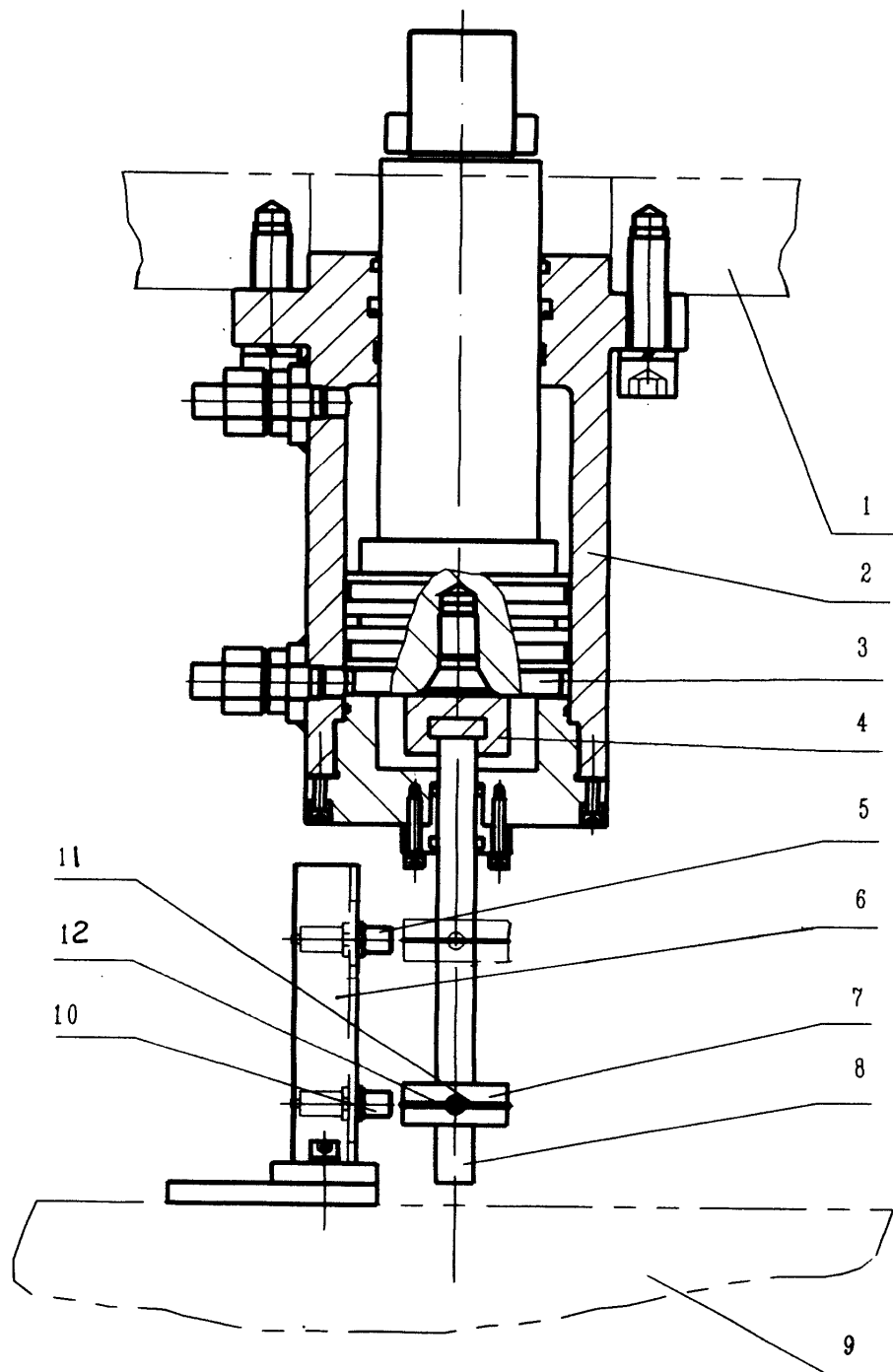
Latest standardized assignees - inventors removedTIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 65/100 - FAMPAT - ©Questel

Title

(CN2570020U)

Stroke stopping means for **hydraulic press** lifting cylinder**Images**



Publication data including kind & date

CN2570020

Y 2003-09-03 CN2570020U



Abstract

(CN2570020)

The utility model relates to a stroke stopping means for a **hydraulic press** lifting cylinder. The utility model is characterized in that a cylinder of a lifting cylinder is fixed on an upper plate of a working table of a **hydraulic press**; the interior of the cylinder is provided with a piston rod which is provided with a connecting block, and the other end of the connecting block is inserted with a guide rod which is sheathed with a limit touching block; a lower plate of the working table of the **hydraulic press** approaching to the guide rod is welded with a limiting support frame which is provided with an upper and a lower limit switches which can contacted with the limit touching block. The utility model can not be limited by the structural style of the working table and small space above the lifting cylinder to a small-size **hydraulic press** and a medium-sized **hydraulic**

press, and can be arranged in the lower space of the lifting cylinder of the small-size **hydraulic press** or the medium-sized **hydraulic press**. The utility model also plays a function of good stroke limit.

Inventors

NIU ZONGYUN

Latest standardized assignees - inventors removed

TIANJIN TIANDUAN **HYDRAULIC PRESS**

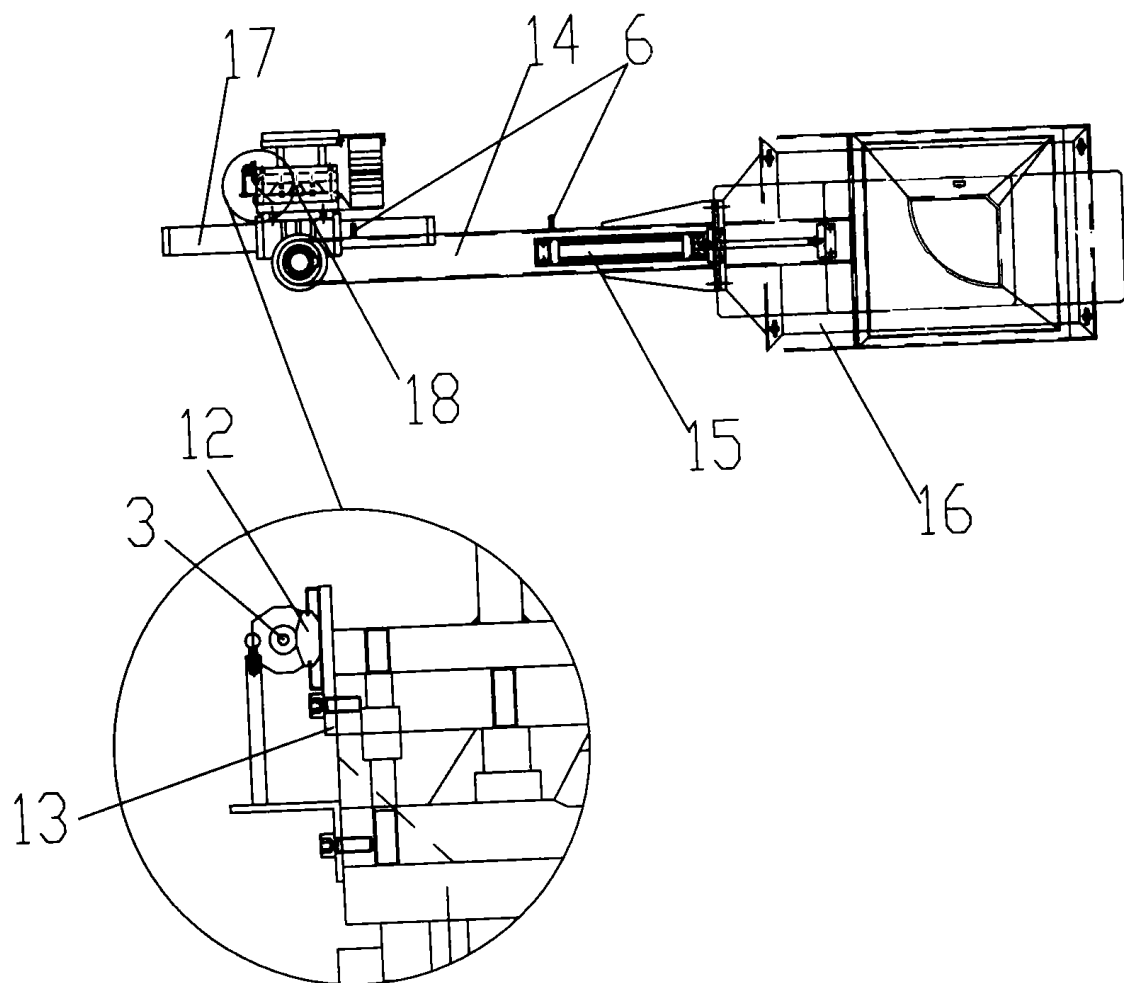
Family 66/100 - FAMPAT - ©Questel

Title

(CN201223907U)

Numerical control system for titanium electrode product automatic feed apparatus of **hydraulic press**

Images



Publication data including kind & date

CN201223907

Y 2009-04-22 CN201223907U



Abstract

(CN201223907)

A NC system of a titanium electrode product automatic feeder for a **hydraulic press** comprises an automatic lifting and rotary feeding device arranged at one side of the **hydraulic press**, a lifting pushing oil cylinder connected with the automatic lifting and rotary feeding device, a hopper strobe pushing gas cylinder and a swing oil cylinder; the hopper strobe pushing gas cylinder, the swing oil cylinder and the lifting pushing oil cylinder are connected with an analog output module of a programmable controller of the **hydraulic press**; the NC system also comprises a displacement sensor connected with an analog input module of the programmable controller of the **hydraulic press**, an absolute value rotary encoder, and an inductive proximity switch for turning on the hopper strobe; and the **hydraulic press** controller is connected with a touch screen used for setting the lifting location, rotating angle and feeding mode parameters through data lines. The utility model

can automatically monitor, rotate and lift the precise feeding positioning and ensures easy, fast and accurate feeding of the feeding device; besides, the utility model optimizes the feeding function and can effectively solve the stacking problem at the feed port through dithering to prevent stacking.

Inventors

ZHU HONGBO

Latest standardized assignees - inventors removed

TIANJIN TIANDUAN **HYDRAULIC PRESS**

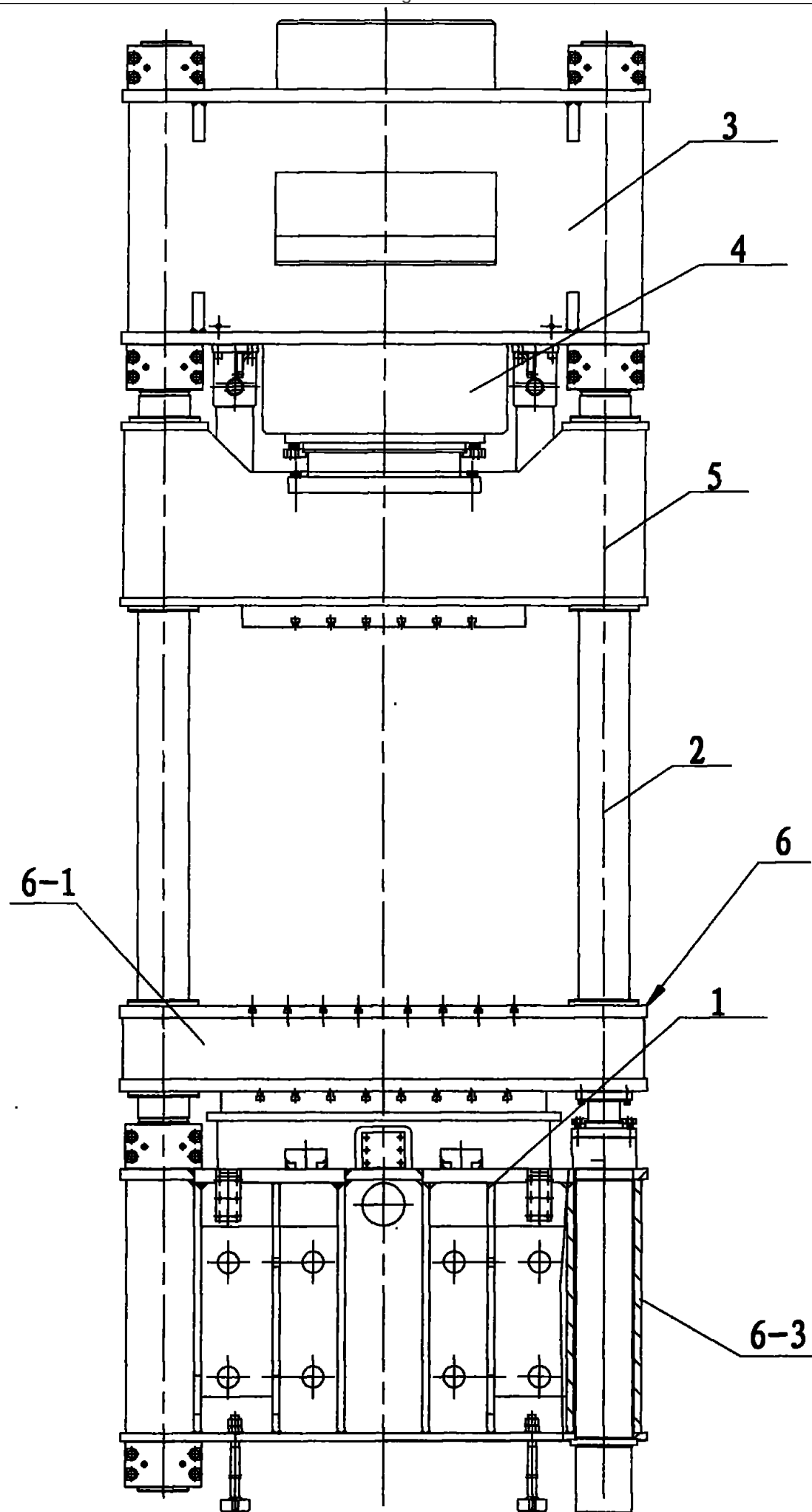
Family 67/100 - FAMPAT - ©Questel

Title

(CN101823346)

Powder product **hydraulic press** with floating pressing structure

Images



Publication data including kind & date

CN101823346

A 2010-09-08 CN101823346

**Abstract**

(CN101823346)

The invention relates to a powder product **hydraulic press** with a floating pressing mechanism, which mainly comprises a lower beam arranged on a foundation, wherein four corners of the lower beam are provided with an upright post respectively; the upper ends of the upright posts are connected with an upper beam; a main driving cylinder is arranged at the lower end of the upper beam and is connected with a sliding block which is arranged on the upright posts in an insertion way; and the floating pressing structure is arranged between the lower beam and the sliding block. The **hydraulic press** is characterized in that: the floating pressing mechanism comprises a hollow floating beam; the four corners of the hollow floating beam are arranged on the upright posts in the insertion way; a guide sleeve is arranged between the floating beam and the upright posts; and the lower end of the floating beam is connected with a floating cylinder which is fixedly arranged in the lower beam. Compared with the conventional **hydraulic press** for the powder products, the powder product **hydraulic press** with the floating pressing structure saves raw materials and reduces production cost because a reference beam fixed on the middle part of a **press** body is eliminated; and in addition, the **hydraulic press** has the advantages of simple structure, small volume, light weight, improved working efficiency and the like.

Inventors

ZHANG YI

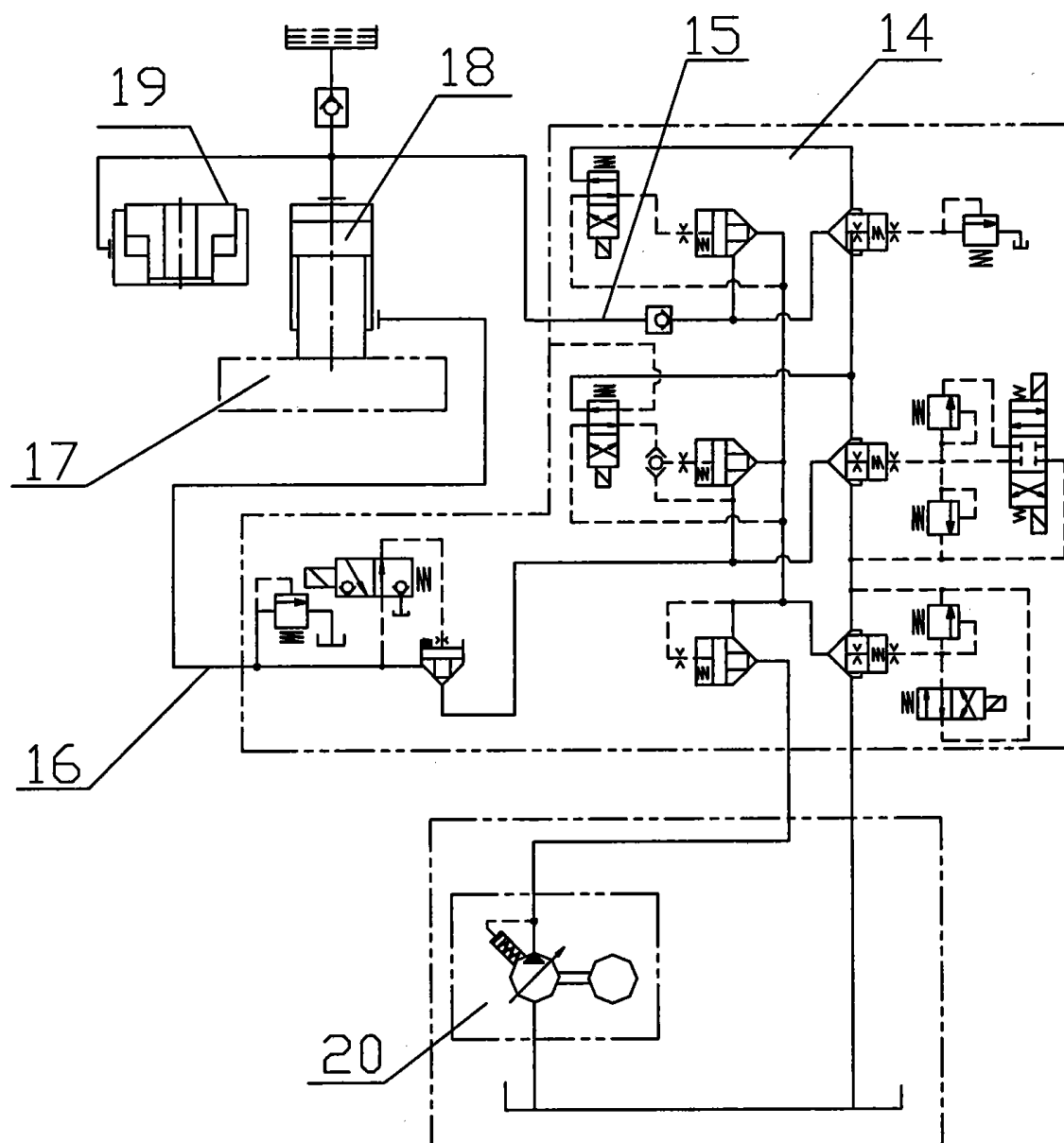
Latest standardized assignees - inventors removedTIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 68/100 - FAMPAT - ©Questel

Title

(CN201195416U)

Hydraulic drive system for fine control of combined frame type single-arm **hydraulic press** main body**Images**



Publication data including kind & date

CN201195416

Y

2009-02-18

CN201195416U



Abstract

(CN201195416)

The utility model relates to a **hydraulic** driving system for the precise control of an assembled-frame single pillar **hydraulic press** body, which comprises a valve group unit, a primary working cylinder with an upper cavity and a return cavity, and a pump unit communicated with an inlet and an oil outlet of the valve group unit, wherein the primary working cylinder is used for driving an operating pressure head. The upper cavity of the primary working cavity is communicated with a first oil outlet of the valve group unit, and the return cavity is communicated with a second oil outlet of the valve group unit. The **hydraulic** driving system is further equipped with a balance cylinder, and an oil port of the balance cylinder is communicated with the first oil outlet of the valve group unit. The balance cylinder is disposed between a block located on a lower beam on one side of the single pillar **hydraulic press** and an upper beam at the upper end of the block. As the balance cylinder which is driven by a **hydraulic** circuit is disposed between the block of the split single pillar **hydraulic press**, the balance cylinder can pre-tighten a pull rod during the assembly of the single pillar **hydraulic press**, and the balance cylinder can balance beam deformation brought by the primary working cylinder in operation when the single pillar **hydraulic press** works, thereby indirectly finishing the fine integral working mode of the single pillar **hydraulic press**.

Inventors

ZHANG LEI

Latest standardized assignees - inventors removed

TIANJIN TIANDUAN HYDRAULIC PRESS

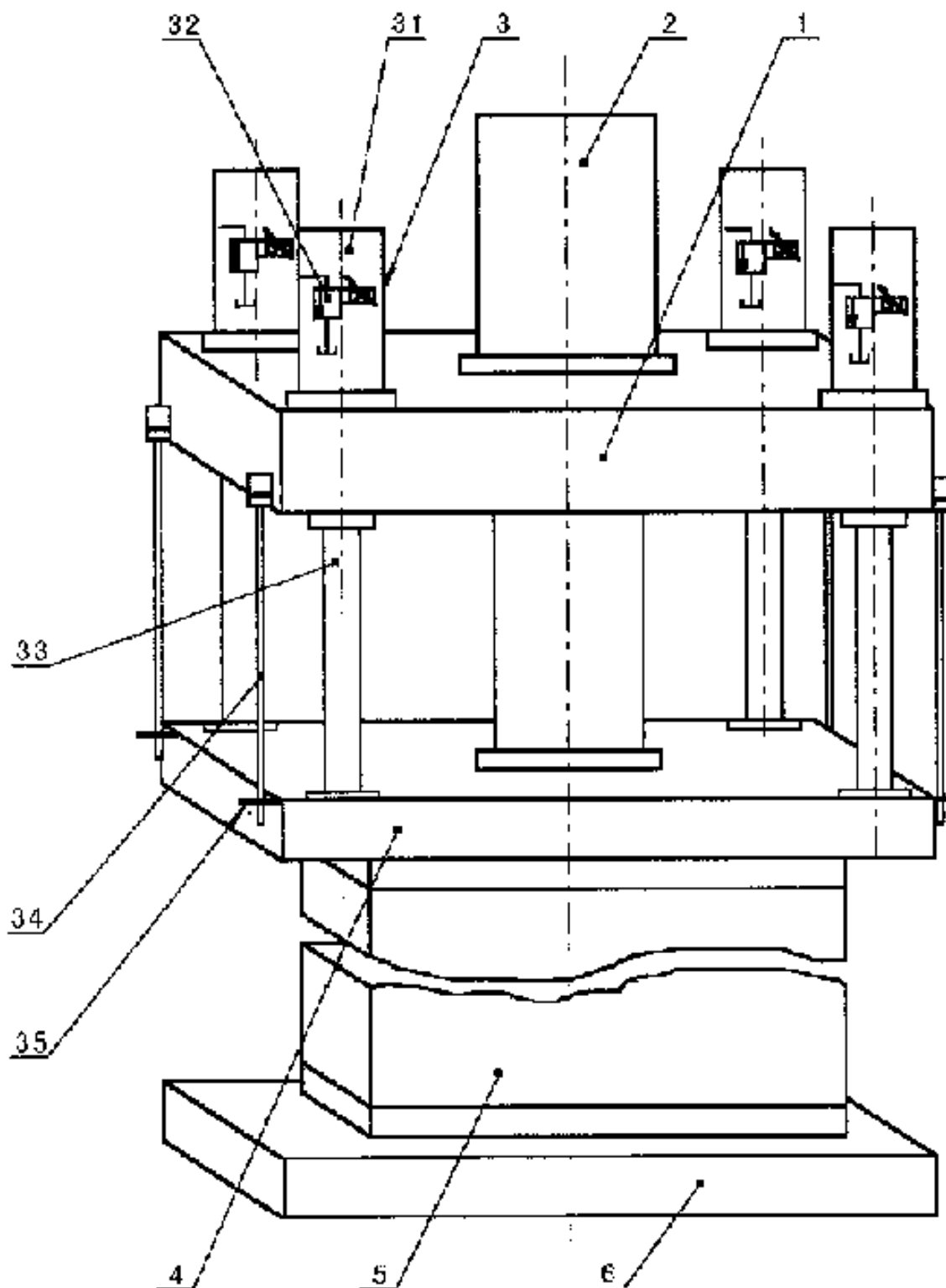
Family 69/100 - FAMPAT - ©Questel

Title

(CN2625077U)

Forging **hydraulic press** for large size titanium alloy products having a four-corner **hydraulic** synchronous leveling adjustment

Images



Publication data including kind & date

CN2625077

Y 2004-07-14 CN2625077U



Abstract

(CN2625077)

The utility model relates to a large titanium alloy product **hydraulic** forging **press** with a four-corner **hydraulic** synchronous levelling device. As the four corners of an upper beam are respectively provided with a **hydraulic** synchronous levelling device, the deviation amount of each corner of the movable beam is detected through a position sensor in the **hydraulic** synchronous levelling device and a detection ring; the corresponding **hydraulic** synchronous levelling device can be adjusted through the deviation amount; the dynamic position of the four corners of the movable beam can be changed through a piston rod arranged on a **hydraulic** synchronous cylinder, which reaches the purpose of that the movable beam doesn't generate the deflected load in the pressing process and thereby effectively avoid generating the phenomenon of that the **hydraulic press** body frame receives the nonuniform force. At the same time, the utility model is also applied to the **press** forming of the large titanium alloy products such as an airplane landing gear, a keel frame, etc.

Inventors

CHEN FUXIANG

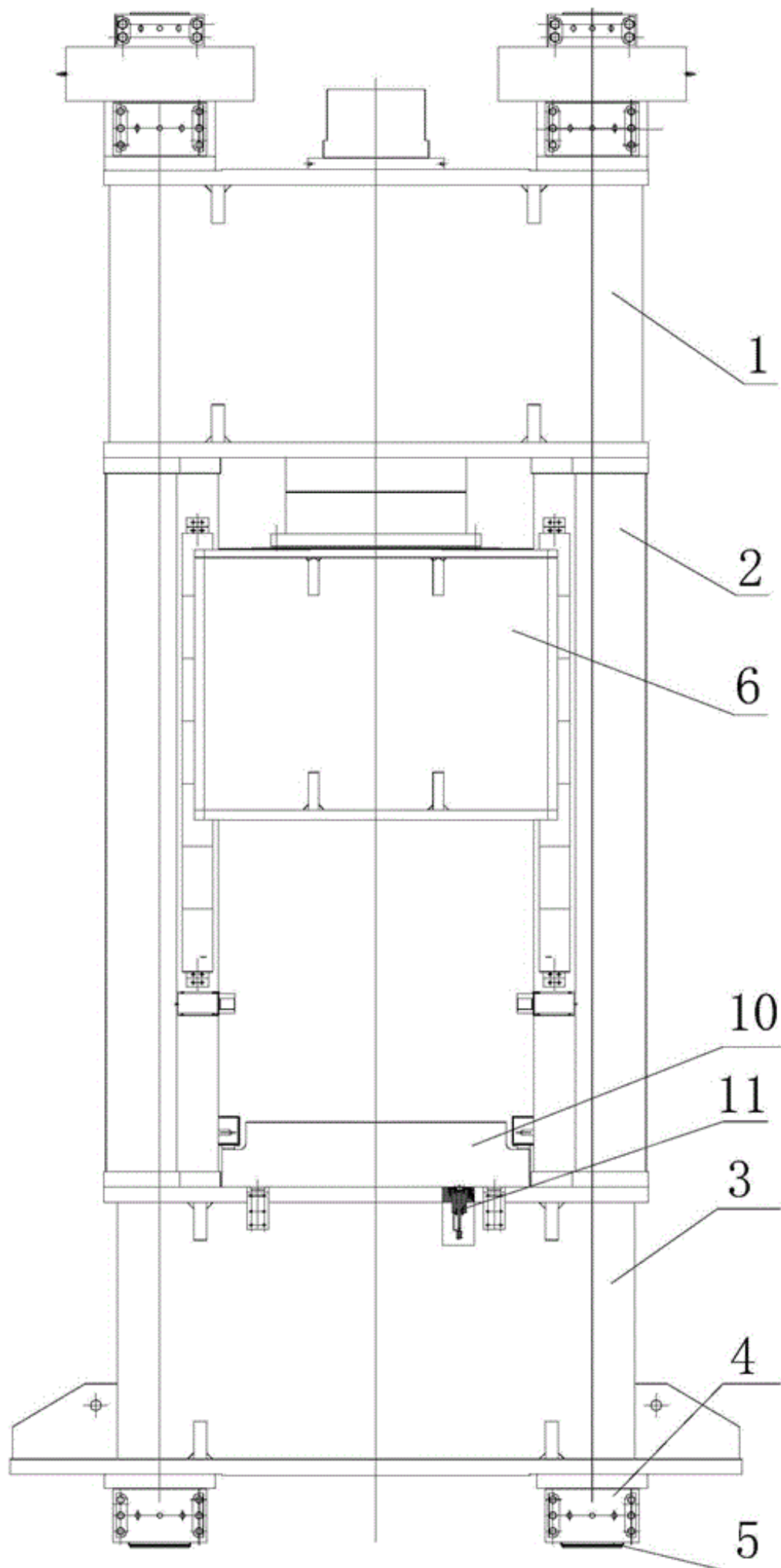
Latest standardized assignees - inventors removedTIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 70/100 - FAMPAT - ©Questel

Title

(CN103447435)

Heavy-duty die-forging **hydraulic press****Images**



Publication data including kind & date

CN103447435	A	2013-12-18	CN103447435
CN103447435	B	2016-06-08	CN103447435B

**Abstract**

(CN103447435)

The invention relates to a heavy-duty die-forging **hydraulic press**, which comprises an upper transverse beam, a lower transverse beam, four upright posts, pull rods, lock nets, a cylinder-including slide block, a side cylinder and a return cylinder, wherein the lower transverse beam is provided with a movable workbench. The heavy-duty die-forging **hydraulic press** is characterized in that: the cylinder-including slide block and the four upright posts are provided with guide devices which are matched with one another; the side face of each corner of the cylinder-including slide block is provided with a groove; three adjacent side faces of the grooves are provided with guide rail assemblies; three adjacent side faces of each upright post are provided with fixed guide plates which are matched with the guide rail assemblies so as to construct an entire guide structure of the **hydraulic press** of which the four corners and twelve faces have eccentric load resistance; and a workbench detection transmitting device is arranged on the lower transverse beam. The heavy-duty die-forging **hydraulic press** has the advantages that the eccentric load resistance of the **press** can be enhanced greatly, the **press** is prevented from being damaged, the service life is prolonged, and user input cost is reduced; and a mechanical transmission way is adopted, so that the use requirement on hot die forging is met, the influence of high temperature is eliminated, accurate detection is realized, and extremely high sensitivity is always kept under high-frequency use conditions. The forging requirements of various types of workpieces are met, the workpiece quality is enhanced, and the production efficiency is increased.

Inventors

WANG XIN

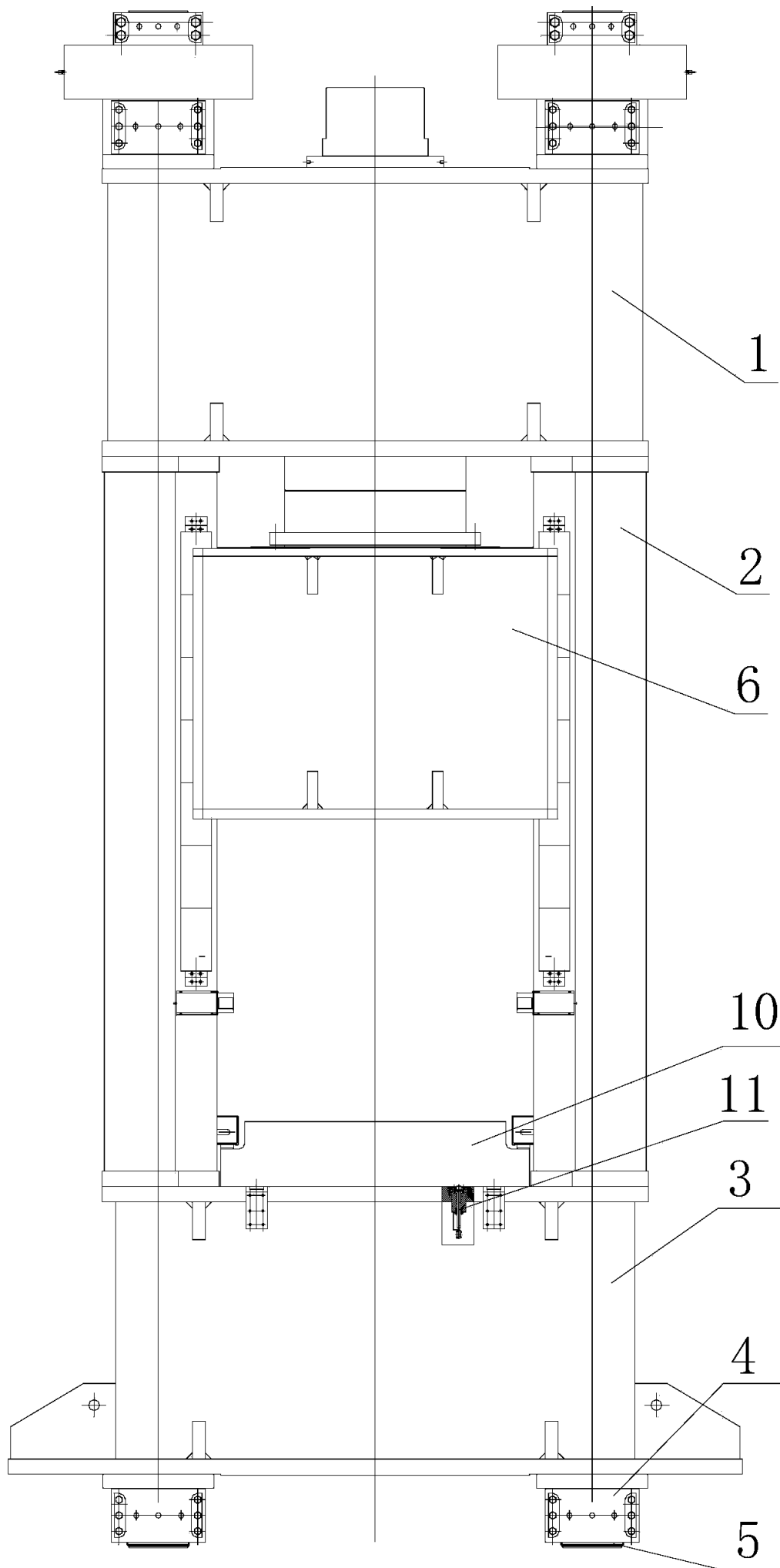
Latest standardized assignees - inventors removedTIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 71/100 - FAMPAT - ©Questel

Title

(CN203541407U)

Heavy type die forging **hydraulic press****Images**



Publication data including kind & date

CN203541407

U 2014-04-16 CN203541407U

**Abstract**

(CN203541407)

The utility model relates to a heavy type die forging **hydraulic press**. The heavy type die forging **hydraulic press** comprises an upper beam, a lower beam, four stand columns, pull rods, nuts, a slider with cylinders, side cylinders and return cylinders, wherein the lower beam is provided with a movable working table. The heavy type die forging **hydraulic press** is characterized in that the slider with cylinders and the four stand columns are provided with guide units which are matched mutually; the side surface of every corner of the slider with cylinders is provided with a groove, and the three neighboring side surfaces of every groove are all provided with guide rail assemblies and the three neighboring side surfaces of every stand column are provided with fixed guide plates matched with the corresponding guide rail assemblies to compose a four-corner twelve-surface unbalance-loading-resistant integrated guide structure of the **hydraulic press**; the lower beam is provided with a working table detecting transmission device. The heavy type die forging **hydraulic press** has the advantages of greatly improving the unbalance-loading-resistant capacity, avoiding damage, prolonging the service life and reducing the investment costs of users.

Inventors

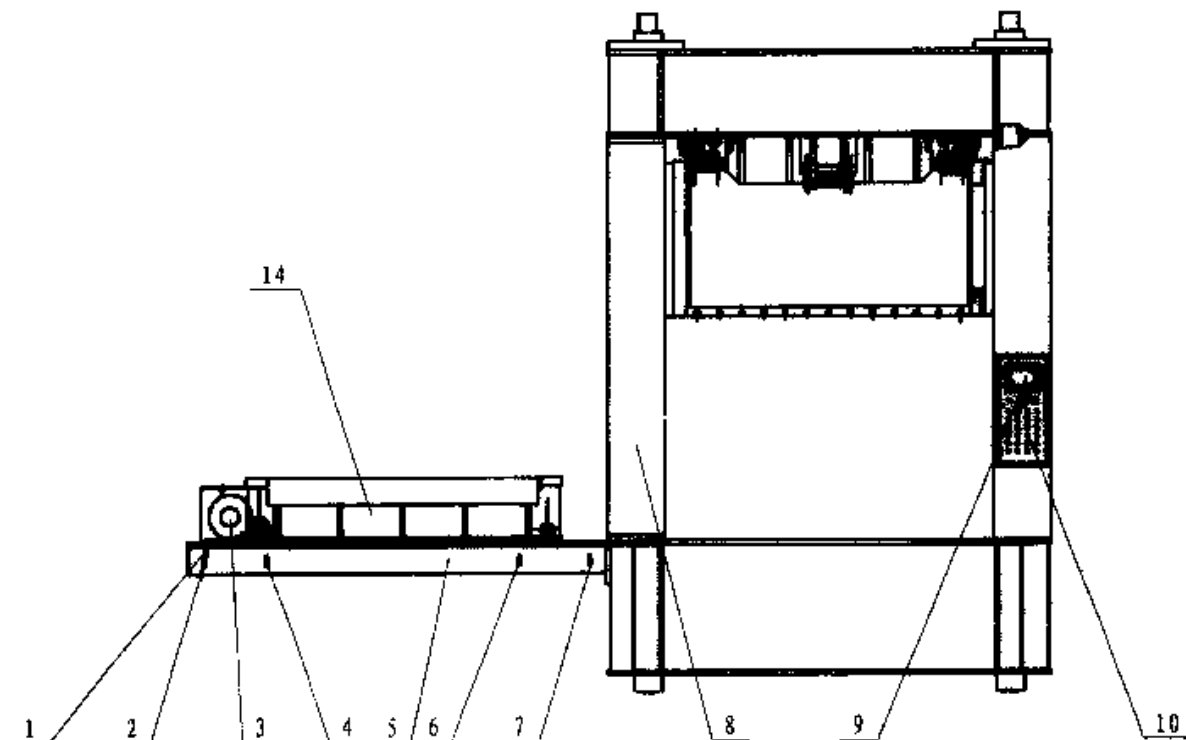
WANG XIN

Latest standardized assignees - inventors removedTIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 72/100 - FAMPAT - ©Questel

Title

(CN2717568U)

Adjustable frequency-changing drive mobile working platform for **hydraulic press****Images****Publication data including kind & date**

CN2717568

Y 2005-08-17 CN2717568U

**Abstract**

(CN2717568)

The utility model discloses an adjustable frequency-changing drive movable table for a **hydraulic press**, which is composed

of a guide rail movably connected with the **hydraulic press**, a movable table positioned on the guide rail, an electrically operated box fixedly arranged on the **hydraulic press** and a touch screen. The side face of one end of the movable table is fixedly provided with a colliding block, and the other side is provided with a frequency variable motor connected with the movable table on the guide rail via a gear. The guide rail is provided with a table spacing device. The control box on one side of the **hydraulic press** is provided with a converter and a PLC programmable controller which controls the output power of the converter via a D/An analog-quantity output module and a digital-quantity output module. The advantage of the utility model is that the shift-in or shift-out speed of the movable table is adjustable, and the positioning inaccuracy of the former movable table caused by the inertia is overcome, with stable and reliable operation.

Inventors

LIU CHUNPING

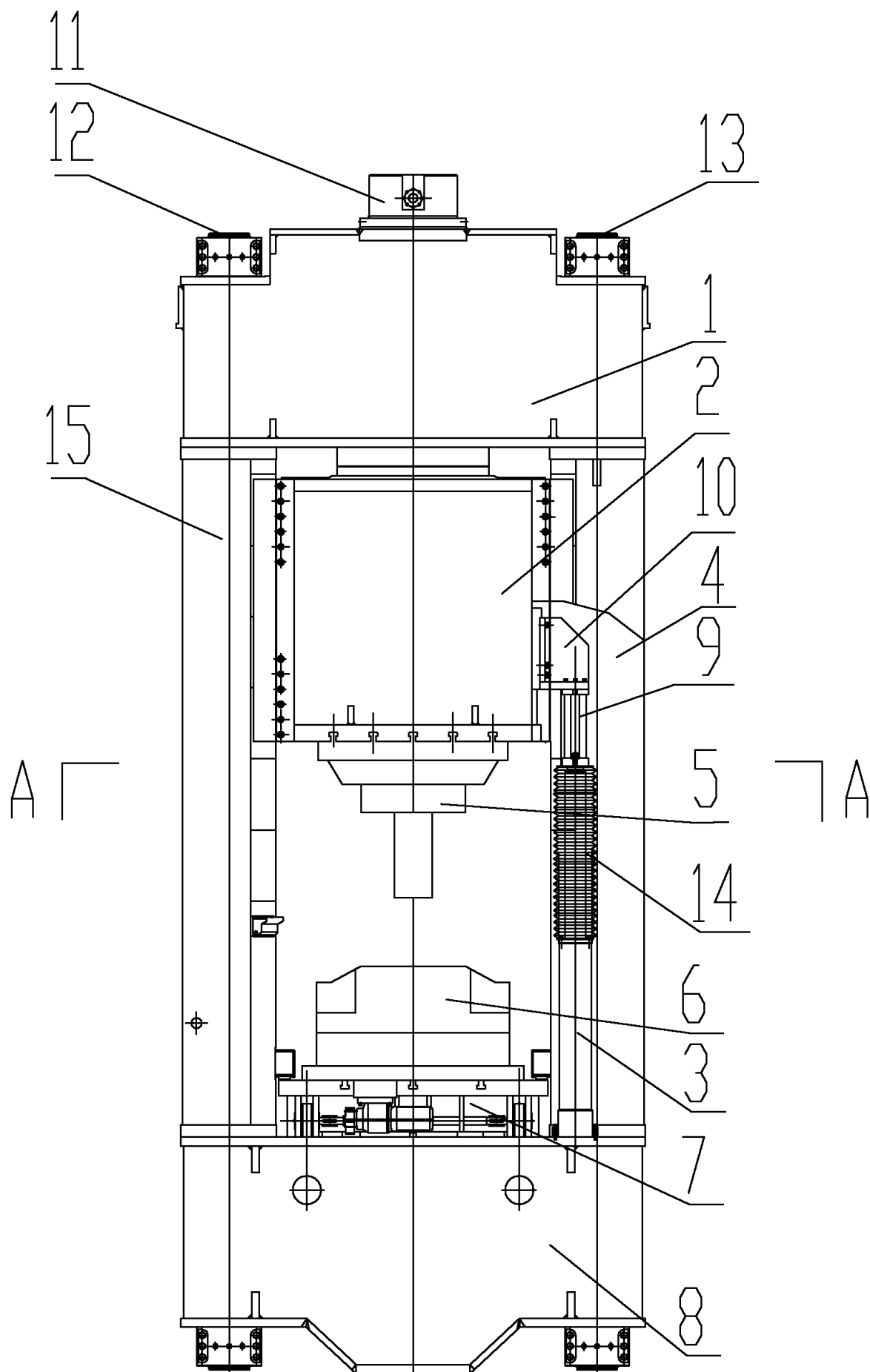
Latest standardized assignees - inventors removedTIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 73/100 - FAMPAT - ©Questel

Title

(CN101985137)

Hydraulic press for pressing zirconium electrode**Images**



(CN101985137)

The invention relates to a **hydraulic press** for pressing a zirconium electrode. The **hydraulic press** is characterized in that: the **hydraulic press** comprises an upper beam and a lower beam; a left strut and a right strut are arranged between the upper beam and the lower beam through a left pull rod and a right pull rod; a sliding block which moves up and down is arranged between the left strut and the right strut; a main oil cylinder for driving the sliding block to move is arranged between the upper beam and the sliding block; a movable workbench is arranged on the lower beam; two sides of the lower beam are vertically provided with return oil cylinders which are provided with sliding blocks; each return oil cylinder is positioned on the inner sides of the left and right struts; the upper end of each return oil cylinder is provided with a bracket and a support which are connected with a side of the sliding block; and each oil cylinder is connected with a **hydraulic press** control system. A return oil cylinder is not arranged between the upper beam and the sliding block, so the span of the upper beam is reduced, the overall rigidity and strength are superior to those of the conventional **hydraulic press**, the space is saved and the structure is simplified; besides, the **hydraulic press** also has the advantages that: the return cylinder is convenient to disassemble and assembly and is convenient to seal when being replaced.

Inventors

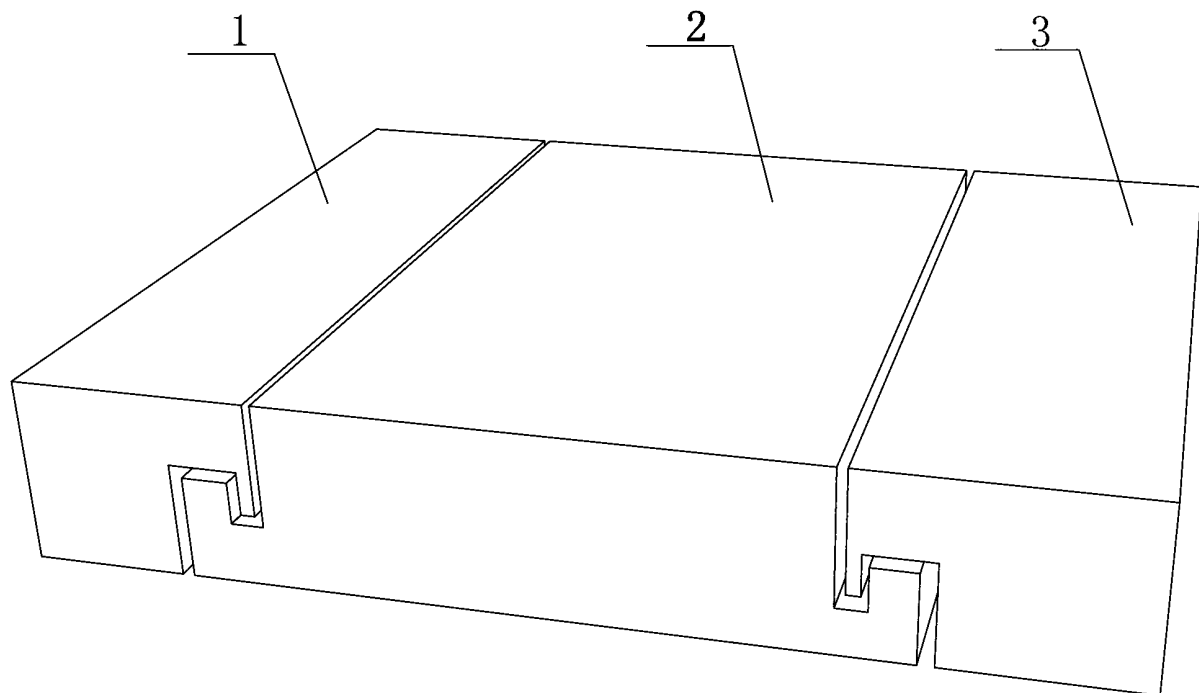
WU JIAN

Latest standardized assignees - inventors removedTIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 74/100 - FAMPAT - ©Questel

Title

(CN203281785U)

Large-tonnage **hydraulic** forging **press** work table**Images****Publication data including kind & date**[CN203281785](#)

U 2013-11-13 CN203281785U

**Abstract**

(CN203281785)

The utility model discloses a large-tonnage **hydraulic** forging **press** work table and belongs to the technical field of **hydraulic** forging **press** devices. The large-tonnage **hydraulic** forging **press** work table comprises a work table body and is characterized in that a first side plate and a second side plate are arranged on the two sides of the work table body, and connection clamping grooves which are matched with one another are formed in the connection faces of the work table body, the first side plate and the second side plate. According to the technical scheme, combined installation of the large-

tonnage **hydraulic** forging **press** work table is achieved in a spliced mode, and the large-tonnage **hydraulic** forging **press** work table has the advantages of being convenient to machine, simple in assembling, and convenient to transport.

Inventors

WU SHULIANG

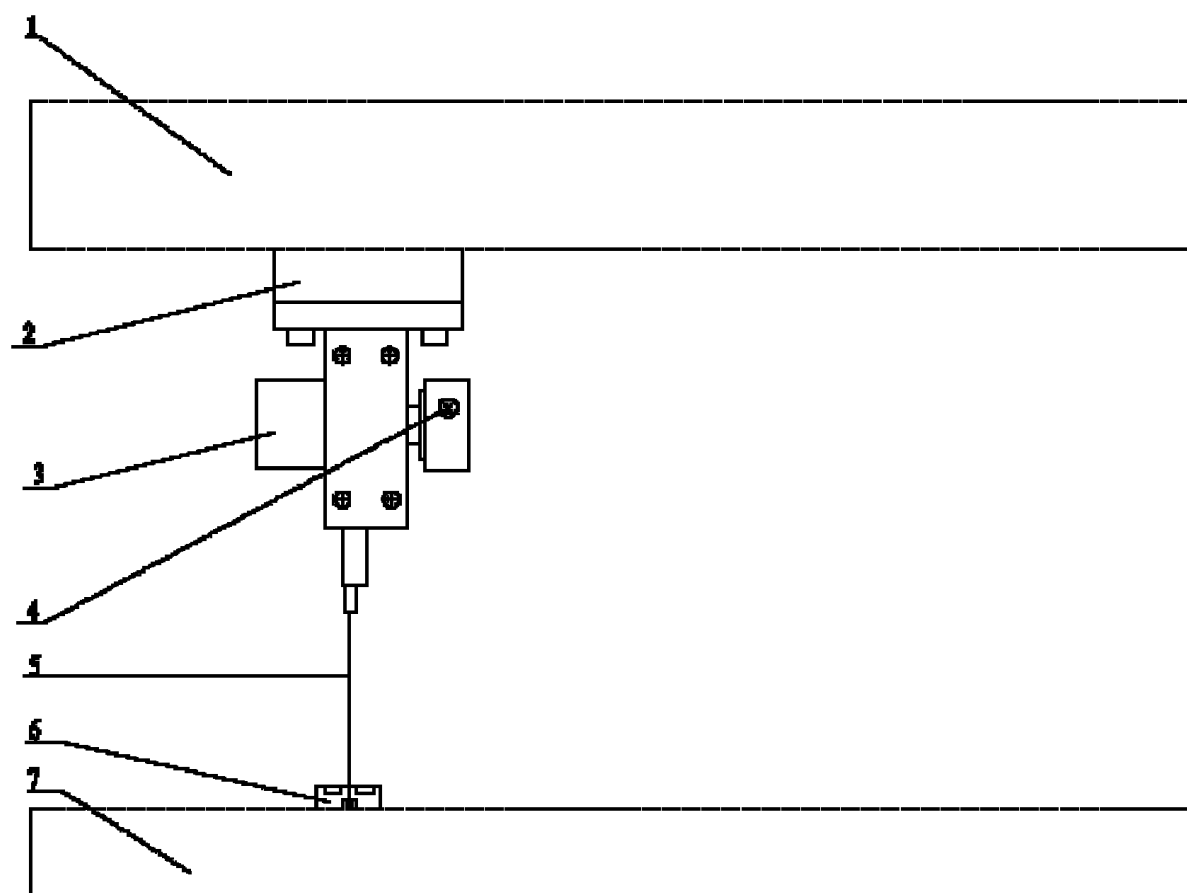
SHI YUNXIA

Latest standardized assignees - inventors removedTIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 75/100 - FAMPAT - ©Questel

Title

(CN102310126)

Longitudinal beam **hydraulic press** displacement detection device**Images****Publication data including kind & date**[CN102310126](#)

A

2012-01-11

CN102310126

**Abstract**

(CN102310126)

The invention relates to a longitudinal beam **hydraulic press** displacement detection device, which comprises a stretching-type displacement sensor and an on-site bus interface. One end of the stretching-type displacement sensor is fixedly connected on the lower surface of an upper beam of the **hydraulic press**; a stay rope outgoing end of the stretching-type displacement sensor is connected with an upper surface of a **hydraulic press** slide block; and the on-site bus interface forms a communication connection with a controller through the on-site bus. The device provided by the invention is suitable for position detection of the long center longitudinal beam **hydraulic press** slide block stroke, has advantages of high precision, strong partial load resistance and high defense grade, and is convenient to install.

Inventors

HU JIAN

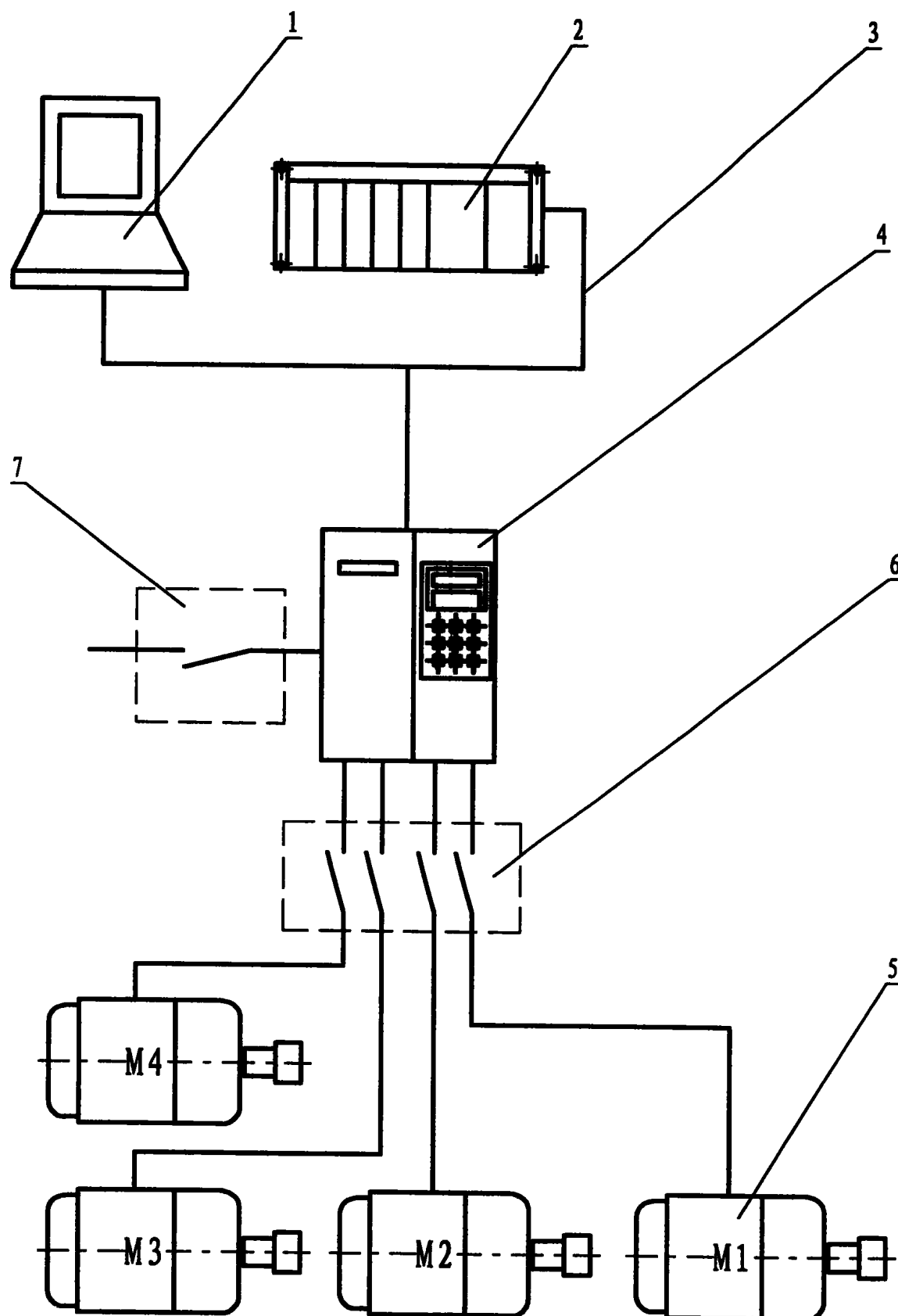
Latest standardized assignees - inventors removed

TIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 76/100 - FAMPAT - ©Questel

Title

(CN2817209U)

Frequency conversion start **hydraulic press** multi motor device**Images**

CN2817209

Y 2006-09-13 CN2817209U

Abstract

(CN2817209)

The utility model provides a frequency conversion start **hydraulic press** multi-motor device. The utility model is characterized in that an alternating current frequency converter is electrically connected among multiple motors driving a **hydraulic press** main oil pump and a power switch; the power input end of the alternating current frequency converter is electrically connected with the power switch, and the output end thereof is connected with each motor through a frequency conversion start switch of the alternating current frequency converter; the power switch is also electrically connected with each motor through a power frequency run switch of the alternating current frequency converter, and the control end of the alternating current frequency converter is electrically connected with the output ends of a PC single-chip machine and a PLC programmable controller of the **hydraulic press**. After the multiple motors of the **hydraulic press** main oil pump gradually regulate the supply frequency to 50Hz power frequency orderly from low frequency to high frequency, the power supply circuit of commercial power is switched on. The device solves the problem that the multiple alternating current asynchronous motors with high power are difficult to start, and the device largely enhances the starting performance of the motors. Besides, the utility model also has the advantages of simple structure and easy production.

Inventors

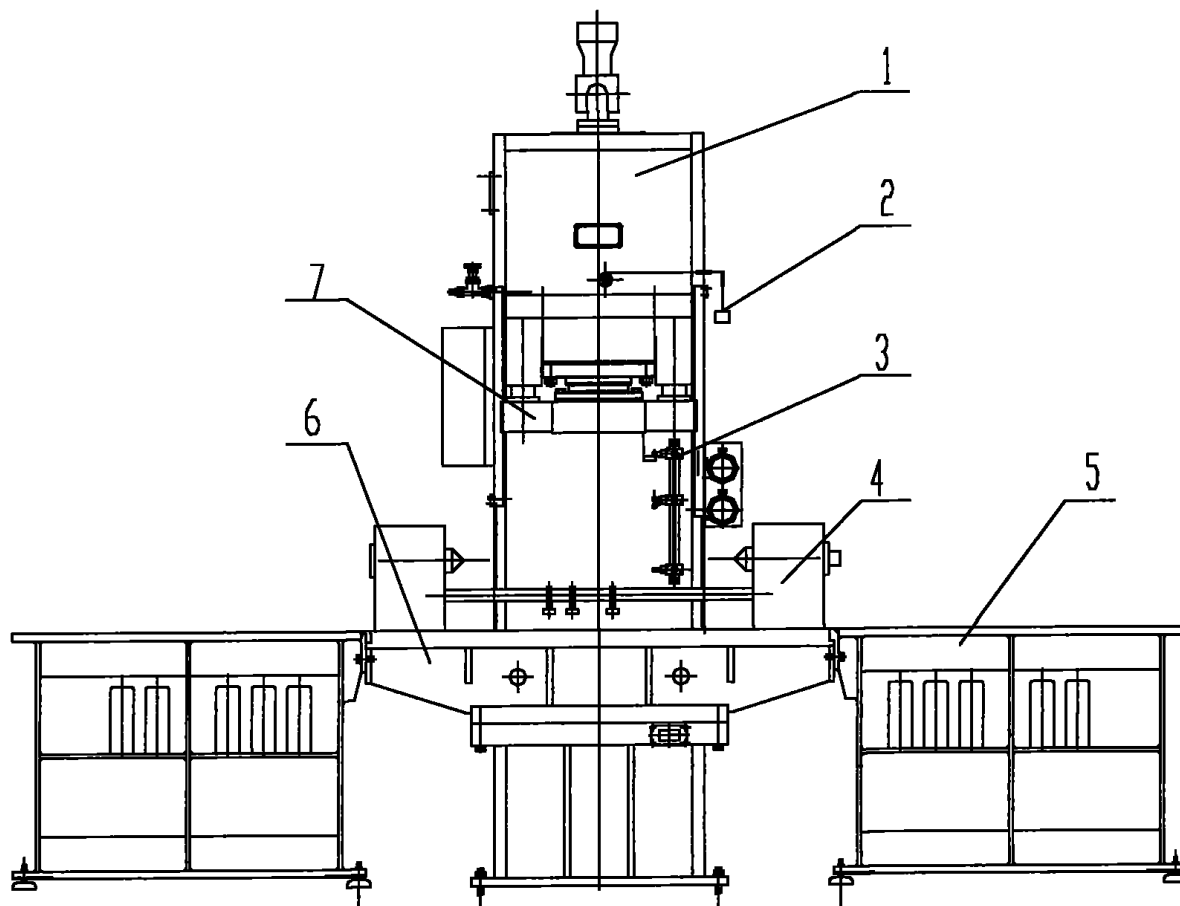
CHEN FUXIANG

Latest standardized assignees - inventors removedTIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 77/100 - FAMPAT - ©Questel

Title

(CN101579932B)

Single-column calibration **press hydraulic** machine**Images**

Publication data including kind & date

CN101579932



CN101579932 A 2009-11-18 CN101579932
CN101579932 B 2011-06-22 CN101579932B



Abstract

(CN101579932)

The patent refers to the field of 'presses in general'. The invention relates to a single-column calibration **press hydraulic** machine which is characterized in that the upper end and the lower end of a C type machine body are respectively provided with a **press** head and a working platform, the **press** head is driven by a master cylinder to extrude a workpiece, the working platform is provided with two anvil blocks used for supporting the workpiece and is also provided with two parallel guide rails, a left supporting seat and a right supporting seat are arranged on the two guide rails, the bottoms of the left supporting seat and the right supporting seat are provided with rollers, the left supporting seat and the right supporting seat are provided with two parallel guide columns used for adjusting the distance of the left supporting seat and the right supporting seat, the upper ends of the left supporting seat and the right supporting seat are respectively hinged with a floating plate, the upper end of the floating plate of the left supporting seat is provided with a fixed center used for supporting the workpiece, the upper end of the floating plate of the right supporting seat is provided with a movable center driven by an oil cylinder to support the workpiece, each supporting seat is provided with a movable supporting rod and a return disc spring thereof, the movable supporting rods are hinged with the floating plates, and a limited-range device of the **press** head is arranged on the C type machine body. The invention solves the problems of time consumption and labor consumption caused by manual operation, and increases the work efficiency and the straightening precision; in addition, the invention also has the advantages of simple structure and easy manufacture.

Inventors

LUO LILI

Latest standardized assignees - inventors removed

TIANJIN TIANDUAN **HYDRAULIC PRESS**

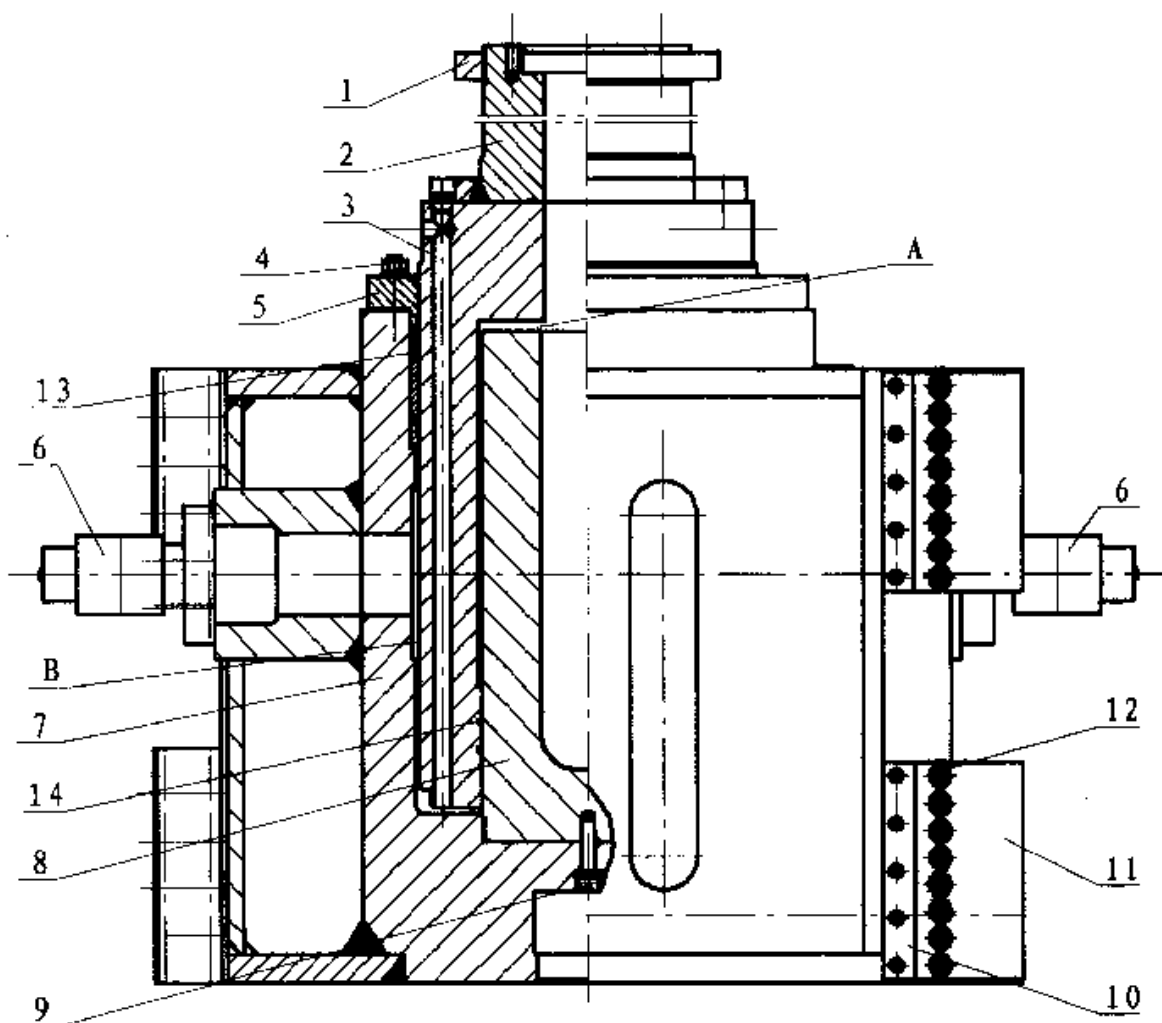
Family 78/100 - FAMPAT - ©Questel

Title

(CN2717566U)

Graded pressing zone cylinder sliding block device for **hydraulic press**

Images



Publication data including kind & date

CN2717566

Y

2005-08-17

CN2717566U



Abstract

(CN2717566)

The utility model relates to a graded pressing zone cylinder sliding block device for a **hydraulic press**. A small plunger is fixed with a sliding block via a screw. A guide rail is fixed with the screw and the sliding block via an adjusting pad. The side slope of the guide rail is connected along the guide rail of the **hydraulic press**. One side of the sliding block is connected with a liquid filling valve. A big plunger is arranged between the small plunger and the sliding block. The big plunger is fixed on the **hydraulic press** via a connector and a lock nut. A sealed cavity room A is formed between the big plunger and the upper end space of the small plunger via a sealing ring, a flange and a screw. Another sealed cavity room B is formed between the small plunger, the big plunger and the slide block via the sealing ring. The utility model has the advantages that the pressing force of three different tonnages can be realized on one **hydraulic press**. The occupied area of the **hydraulic press** can be saved with a compact structure. The graded pressing zone cylinder sliding block device for a **hydraulic press** is especially suitable to the forging process of work pieces with narrow operating condition, small batches and various assortments.

Inventors

XIA XIMEI

Latest standardized assignees - inventors removed

TIANJIN TIANDUAN **HYDRAULIC PRESS**

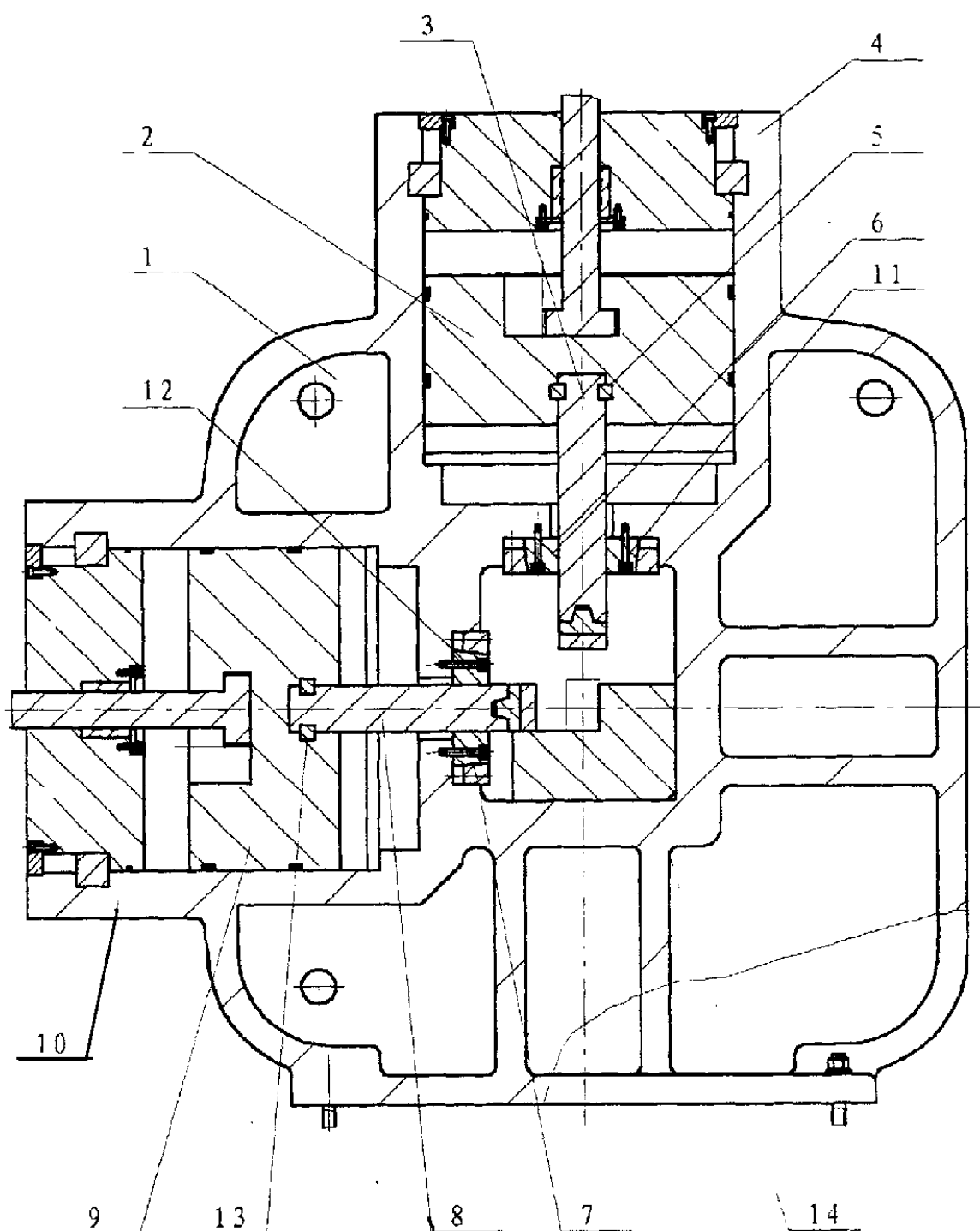
Family 79/100 - FAMPAT - ©Questel

Title

(CN2741759U)

Integrated steel cast structure **hydraulic press** of two-way pressed powder product

Images



Publication data including kind & date

CN2741759

Y 2005-11-23 CN2741759U



Abstract

(CN2741759)

The utility model relates to an integrated steel cast structure **hydraulic press** of two-way pressing powder product. The machine body of the **hydraulic press** adopts the integrated steel cast structure, and two chambers which are in 90 degrees mutually are arranged in the machine body. Wherein, one chamber is arranged as the main cylinder of the **hydraulic press**, and the other chamber is arranged as a side cylinder. The center of the machine body is provided with a hole, and a bench is arranged in the hole. Pistons are respectively arranged in the main cylinder and the side cylinder. The two pistons are respectively connected with pressing bars, and the guide rails of the main cylinder and the side cylinder are fixedly arranged at the orifices of the hole of the machine body through guide rail screws. The pressing bars of the main cylinder and the side cylinder are connected with the pistons of the main cylinder and the side cylinder and respectively pass

through the guide rails of the main cylinder and the side cylinder and are in the movable fit with the guide rails of the main cylinder and the side cylinder. The **hydraulic press** of the integrated steel cast structure of two-way pressing powder products has the advantages that since the machine body of the utility model adopts the integrated steel cast structure to replace the frame type machine body welded by steel plates, the machine body of the **hydraulic press** can bear big pressing force in the pressing process. Therefore, the phenomenon that the machine body of the **hydraulic press** deforms is effectively avoided, and simultaneously, the percent of pass of the finished products of pressing work-pieces also can be ensured.

Inventors

DAI YANLING

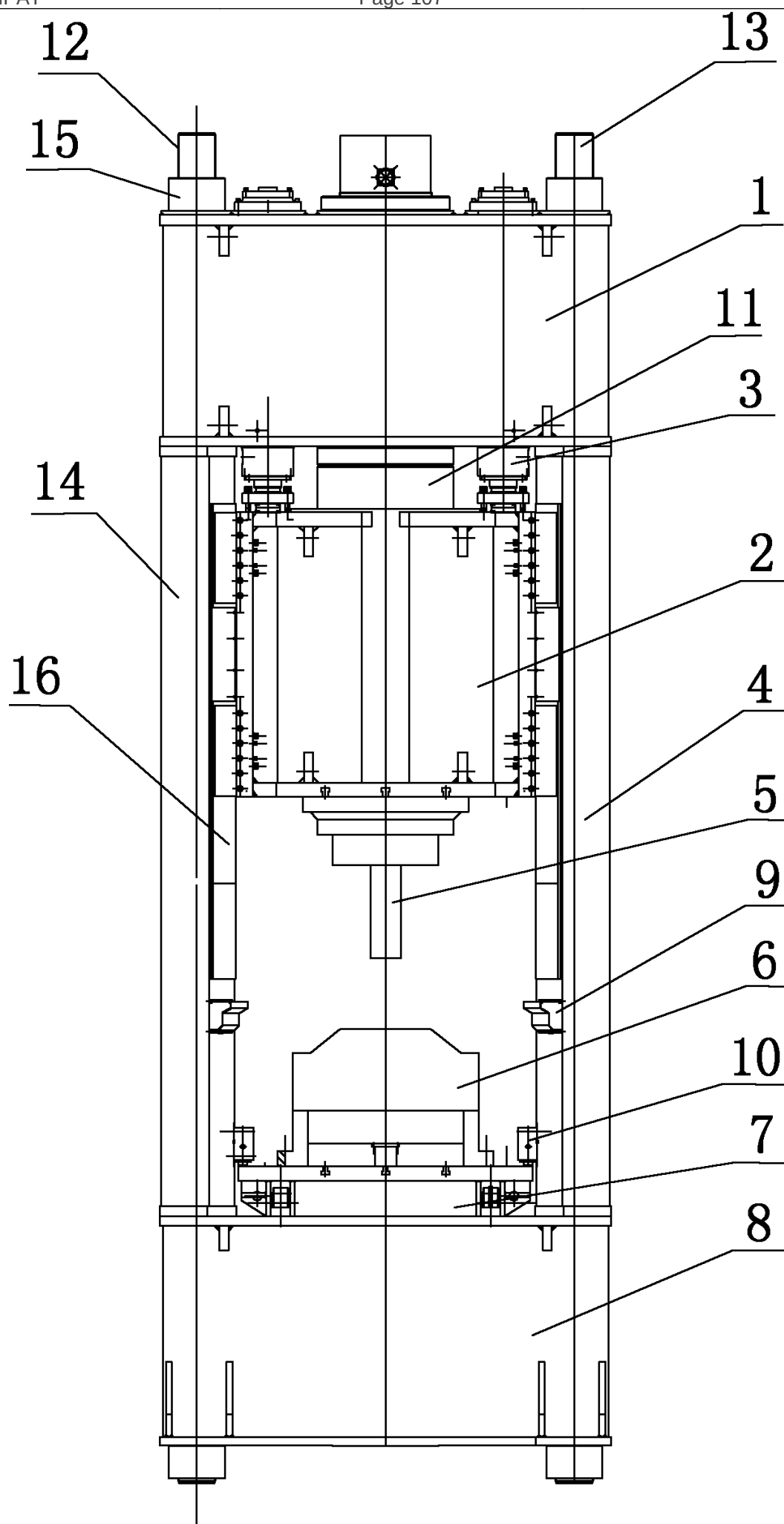
Latest standardized assignees - inventors removedTIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 80/100 - FAMPAT - ©Questel

Title

(CN202480403U)

Hydraulic press for pressing small electrodes**Images**



Publication data including kind & date

CN202480403

U

2012-10-10

CN202480403U

**Abstract**

(CN202480403)

The utility model relates to a **hydraulic press** for pressing small electrodes. The **hydraulic press** comprises an upper beam, a lower beam, a left support column, a right support column and an integrated frame body, wherein the left support column and the right support column are arranged between the upper beam and the lower beam, the integrated frame body is formed by connecting a left pull rod, a right pull rod and a lock nut, a vertically moving slider is mounted between the left support column and the right support column, a guide plate is mounted between the slider and each support column, a main oil cylinder and a return oil cylinder which drive the slider to move are mounted between the upper beam and the slider, a travelling table is mounted on the lower beam. The **hydraulic press** is characterized in that an oil collecting device and a travelling table clamping device are mounted on the left support column and the right support column. The **hydraulic press** has the advantages that the pressing speed is high, the working period is short, and the production efficiency can be greatly improved. Besides, the **hydraulic press** is simple and compact in structure, applicable to various working conditions and sites, low in operation cost and energy-saving.

Inventors

MA GONGZHENG

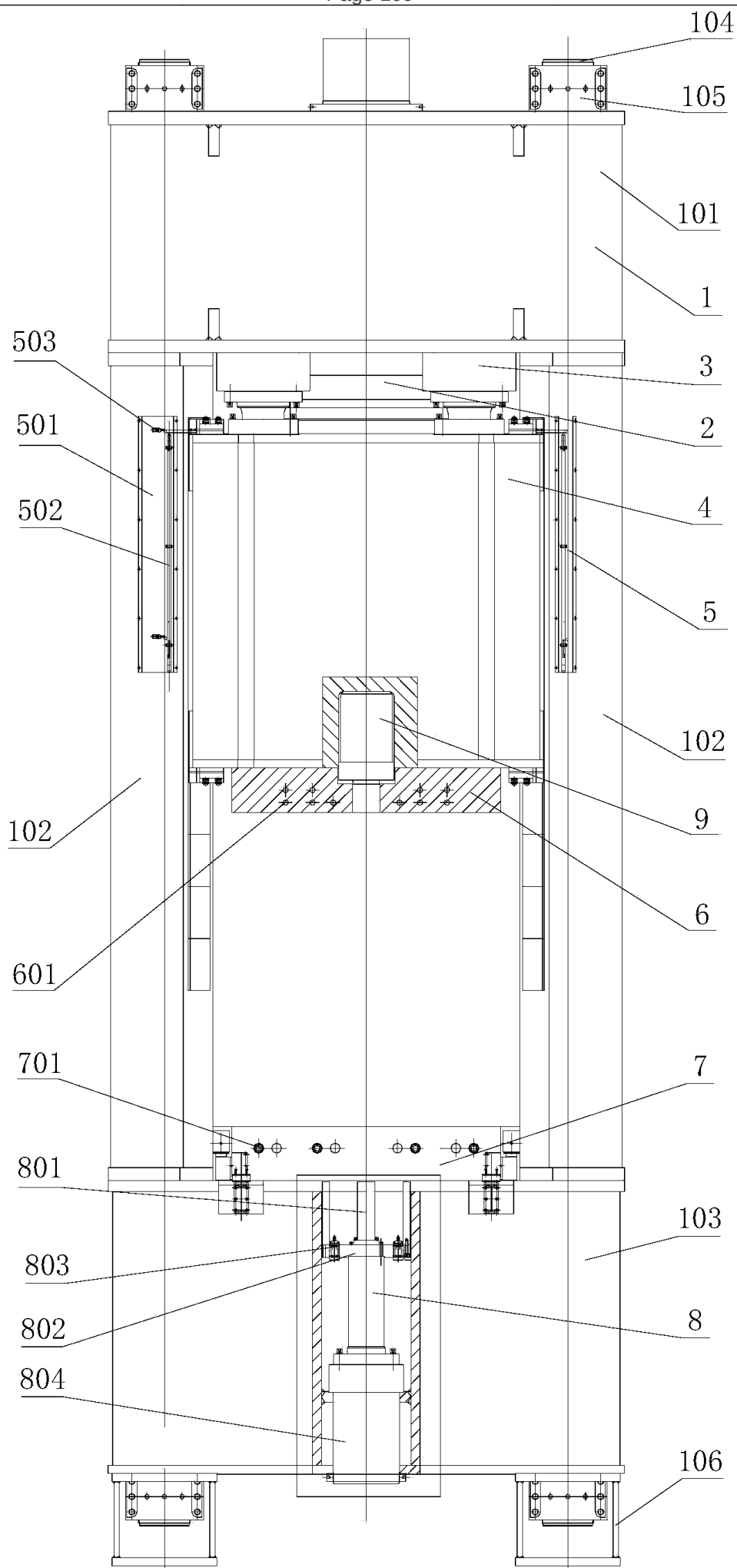
Latest standardized assignees - inventors removedTIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 81/100 - FAMPAT - ©Questel

Title

(CN104416102)

Isothermal forging **hydraulic press** for heavy-duty aluminum alloy**Images**



Publication data including kind & date

CN104416102

A

2015-03-18

CN104416102

**Abstract**

(CN104416102)

The invention relates to an isothermal forging **hydraulic press** for heavy-duty aluminum alloy. The isothermal forging **hydraulic press** comprises an upper cross beam, struts and a lower cross beam which form a **press** body main body by pretensioning pull rods and lock nuts; a main cylinder and side cylinders of which the ends are connected with a sliding block are arranged on the upper cross beam; a mobile worktable is arranged on the lower cross beam. The isothermal forging **hydraulic press** is characterized in that leveling detection devices are respectively arranged at four corners of the sliding block; an upper water-cooling backing plate is fixedly arranged at the bottom of the sliding block; an upper ejection cylinder is arranged at the middle positions of the upper water-cooling backing plate and the sliding block; a lower ejection device is arranged in the lower cross beam; water cooling channels are arranged inside the mobile worktable. The isothermal forging **hydraulic press** has the advantages that the **hydraulic press** is not influenced by any high temperature in an use process and the leveling detection is accurate; the precision of moving position of the sliding block can be accurately controlled; the parallelism of an upper die relative to a lower die in the pressing process is guaranteed; the unbalanced load resistance of the **press** is greatly enhanced; the service life is prolonged; the quality and the production efficiency of workpieces are improved; the input cost of users is reduced. Therefore the isothermal forging **hydraulic press** is suitable for isothermal forging of all high-temperature alloys and alloy materials difficult to deform as well as producing and processing of new products.

Inventors

WANG XIN

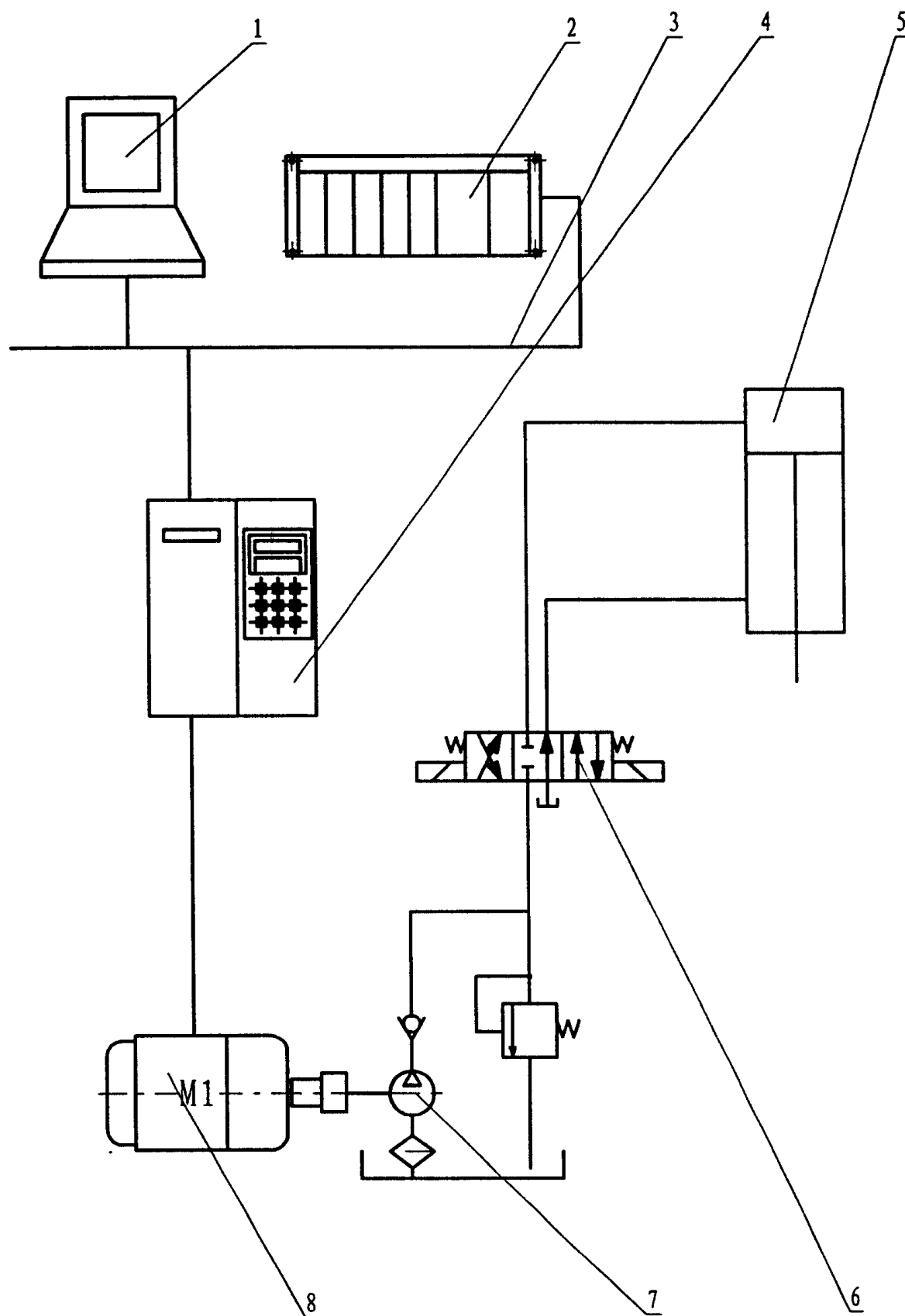
Latest standardized assignees - inventors removedTIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 82/100 - FAMPAT - ©Questel

Title

(CN2820525U)

Hydraulic driving device for intelligent variable frequency electric **hydraulic press****Images**



Publication data including kind & date

CN2820525

Y

2006-09-27

CN2820525U



Abstract

(CN2820525)

The utility model provides a **hydraulic** driving device for an intelligent variable frequency electric **hydraulic press**. The utility model is characterized in that the output end of an electric motor is connected to an oil pump group, the output end pipeline of the oil pump group is connected to an electromagnetic valve group, and the other end pipeline of the electromagnetic valve group is connected to an oil cylinder driving the sliding block of the **hydraulic press**; the control end of the

electromagnetic valve group is electrically connected with a PC up position machine and a PLC programmable controller, and a frequency changer which controls the motor speed according to the stroke speed of the sliding block of the **hydraulic press** is electrically connected between the PLC programmable controller and the electric motor. The utility model solves problems that the **hydraulic press** has large energy consumption and high oil system temperature rise when the **hydraulic press** is operated alone at 50Hz power frequency, and the utility model greatly lowers the electrical power consumption of the **hydraulic press**, lowers the temperature of the oil system and extends the service life of the complete machine. In addition, the utility model also has the advantages of simple structure and easy production.

Inventors

CHEN FUXIANG

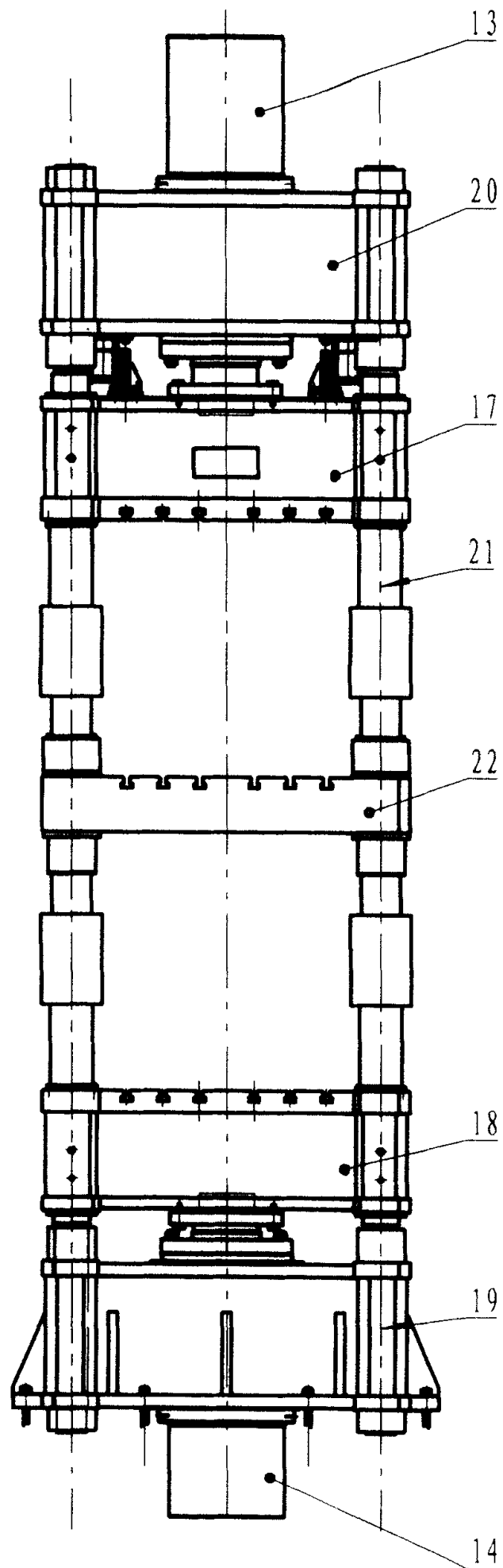
Latest standardized assignees - inventors removedTIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 83/100 - FAMPAT - ©Questel

Title

(CN200967278U)

Hydraulic press having two-way pressing **hydraulic** control system**Images**



Publication data including kind & date

CN200967278

Y

2007-10-31

CN200967278U

**Abstract**

(CN200967278)

The utility model relates to a **hydraulic** pressure machine with bi-directional pressing **hydraulic**-pressure control system, comprising four vertical columns, an upper beam, a lower beam, a worktable, an upper master cylinder, a lower master cylinder, a body composed of an upper slider and a lower slider, and a bi-directional pressing **hydraulic** pressure control system composed of a valve group, an oil channel, an oil pump and an oil box. The valve group comprises an upper and a lower master cylinder proportional pump group, an upper and a lower master cylinder pump outlet valve group, a support valve group, an upper and lower master cylinder control valve group, a conversion valve group, an upper and a lower master cylinder unloading valve group, a communication valve group and an unloading valve group. The utility model has the advantages that various functions of the bi-directional pressurization, the bi-directional pressing, the communication pressurization and the bi-directional de-pressurization are integrated together so as to ensure that the upper and the lower master cylinders of the bi-directional pressing **hydraulic** pressure machine to have the adequate pressures and rapid pressurizations, and that the upper cavity of the upper master cylinder and the lifting cavity of the lower master cylinder are communicated each other and are kept at equal proportional pressure and are depressurized simultaneously; therefore, the utility model is especially applicable for different **press** process and various die machining.

Inventors

YANG LIHUA

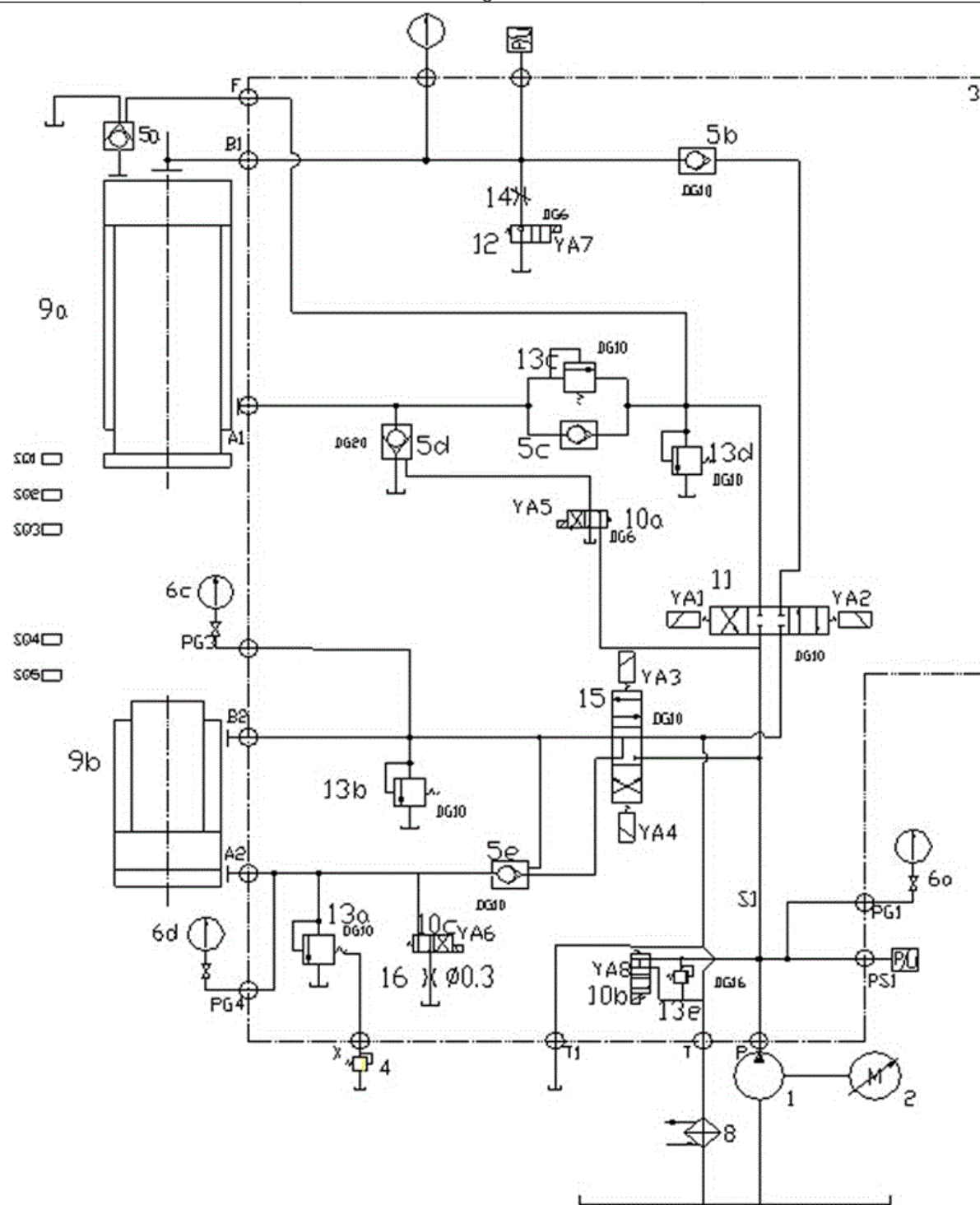
Latest standardized assignees - inventors removedTIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 84/100 - FAMPAT - ©Questel

Title

(CN205763584U)

Hydraulic system of forging and pressing elastic material's **hydraulic press****Images**



Publication data including kind & date

CN205763584

U 2016-12-07

CN205763584U



Abstract

(CN205763584)

The utility model relates to a **hydraulic** system of forging and pressing elastic material's **hydraulic press**, it includes crescent gear pump, servo motor, inserted valve valves, actuating mechanism, wherein servomotor passes through transmission shaft drive crescent gear pump and works, and the inserted valve valves be located between the actuating mechanism of crescent gear pump's leakage fluid dram and **hydraulic press**, follow the pressure liquid that flows of crescent gear pump leakage fluid dram pass inserted valve valves and right through the control of inserted valve valves with the mode that flows the actuating mechanism acting of **hydraulic press**. The utility model discloses still relate to including **hydraulic** system's **hydraulic press**.

Inventors

CHOU YUNYUN

TANG YUNYUN

CAO XIAOLIANG

Latest standardized assignees - inventors removed

NANTONG GAOYE **HYDRAULIC PRESS** MACHINE

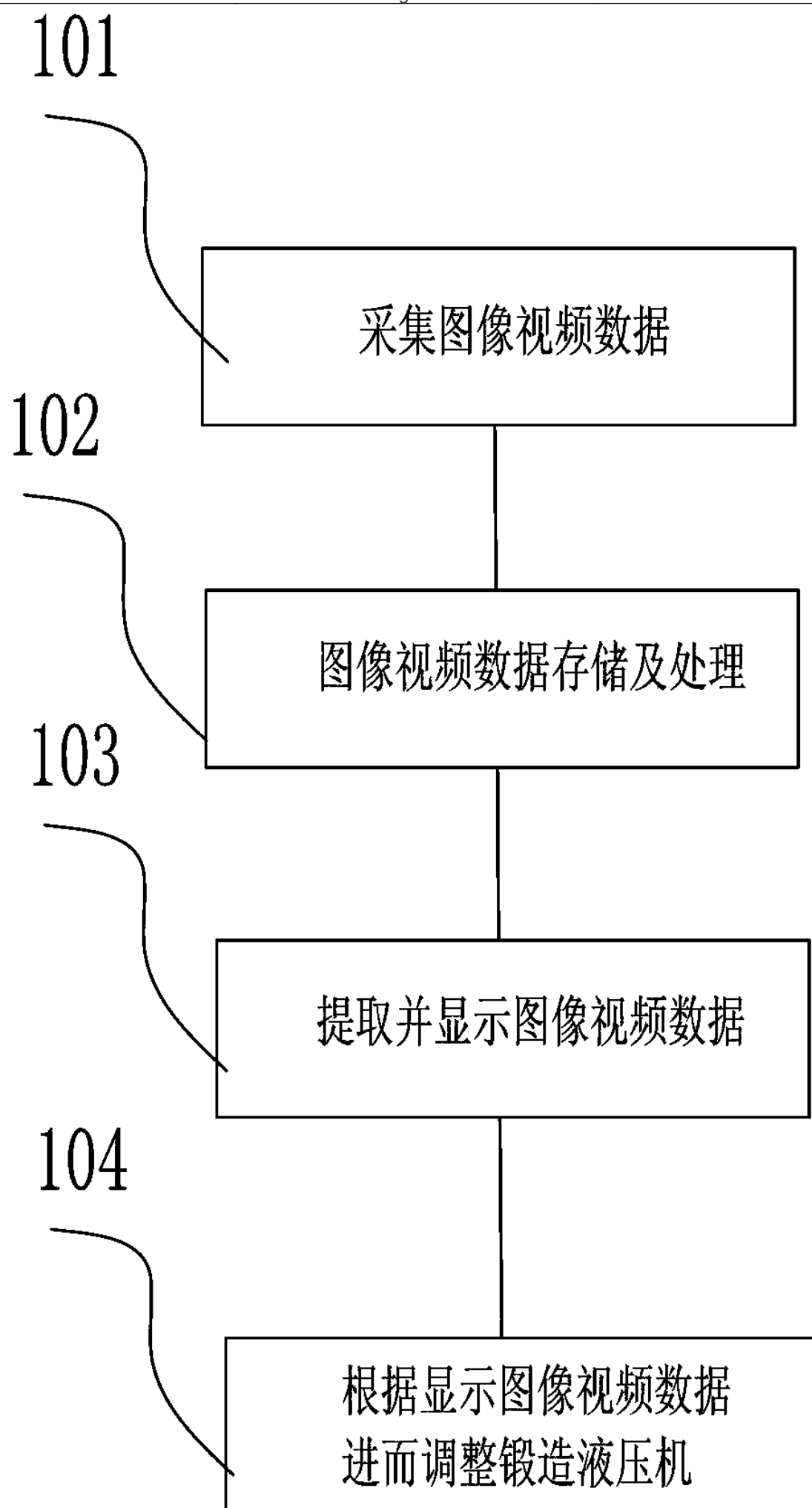
Family 85/100 - FAMPAT - ©Questel

Title

(CN103302217)

Hydraulic press control method based on video monitoring system

Images



Publication data including kind & date

CN103302217	A	2013-09-18	CN103302217
CN103302217	B	2015-12-23	CN103302217B

**Abstract**

(CN103302217)

The invention discloses a **hydraulic press** control method based on a video monitoring system, and relates to the technical field of forging **hydraulic** presses. The method comprises the following steps: steps 1, acquiring image video data of a forging workpiece and a **hydraulic** power system by the video monitoring system; step 2, storing the image video data into a digital hard-disk based digital video recorder, and carrying out coding, compressing and noise removing processing on the image video data by the digital hard-disk based digital video recorder; step 3, extracting the image video data in the digital hard-disk based digital video recorder by a video display device, and decoding and displaying; and step 4, comparing the image video data displayed by the video display device with the image video data in the normal working state of the **hydraulic press**, and further accomplishing the adjustment and the operation of the working state of the **hydraulic press**. Through the technical scheme, the method effectively realizes the monitoring to the forging workpiece and all parts of the **hydraulic** power system, well ensures that all the parts of the forging **hydraulic press** coordinate, and has the advantages of high processing precision and good safety coefficient.

Inventors

ZHOU GANG

ZHANG ZHONG

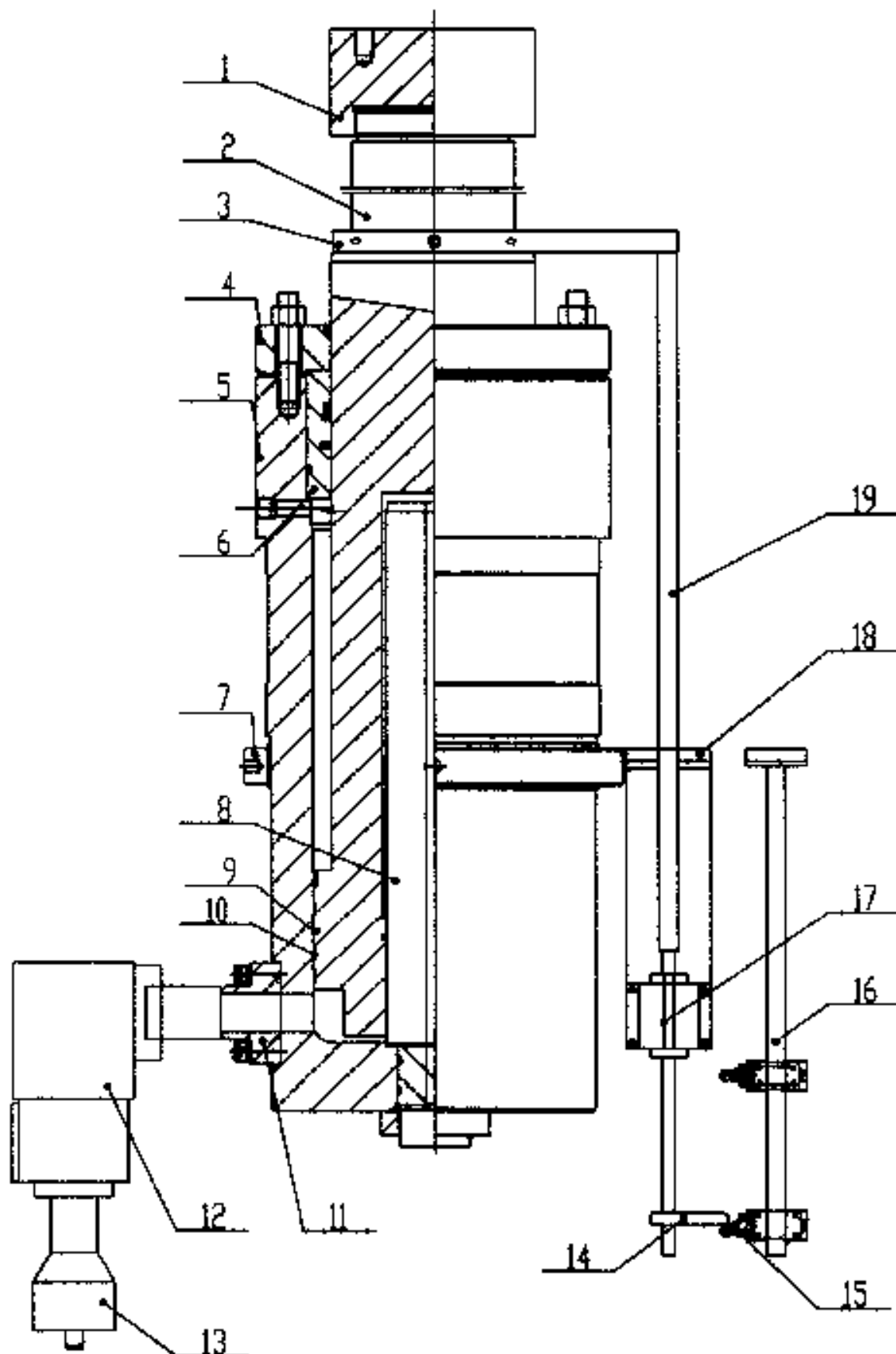
Latest standardized assignees - inventors removedTIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 86/100 - FAMPAT - ©Questel

Title

(CN2717572U)

Ejecting device for semisolid die forging **hydraulic press****Images**

**Publication data including kind & date**

CN2717572

Y

2005-08-17

CN2717572U

**Abstract**

(CN2717572)

The utility model relates to an ejecting device for semisolid die forging **hydraulic press**, belonging to the technical field of the **hydraulic press**. The ejecting device for semisolid die forging **hydraulic press** comprises a cylinder body, a piston, a quick plunger piston, an anti-rotating flange and a guide bar. The ejecting device for semisolid die forging **hydraulic press** is

characterized in that: the cylinder body is fixedly arranged in the lower cross beam of the **hydraulic press**, and the piston is sheathed in the cylinder body; the plunger piston is sheathed in the piston and is fixed on the cylinder body, and the plunger piston is hollow structure; an ejecting pad is fixedly arranged on the top of the piston, and the anti-rotating flange is fixedly arranged on the piston; a cylinder-opening flange is fixedly arranged on the cylinder body, and a cylinder-opening guiding-sheathing is fixedly arranged in the cylinder body; a guidance tape and a sealing ring are inserted on the piston, a guide bar is fixedly arranged on the anti-rotating flange, and the guide bar is connected with a travel digital display. The utility model adopts a quick ejecting device, which satisfies the request for speed and lowers the horse power of the **hydraulic press** as well for the small-sized **hydraulic** presses and the large-sized **hydraulic** presses; the utility model has the advantages of simple structure, stable work, high efficiency and low cost in manufacturing and operation, etc.

Inventors

SUI YAN

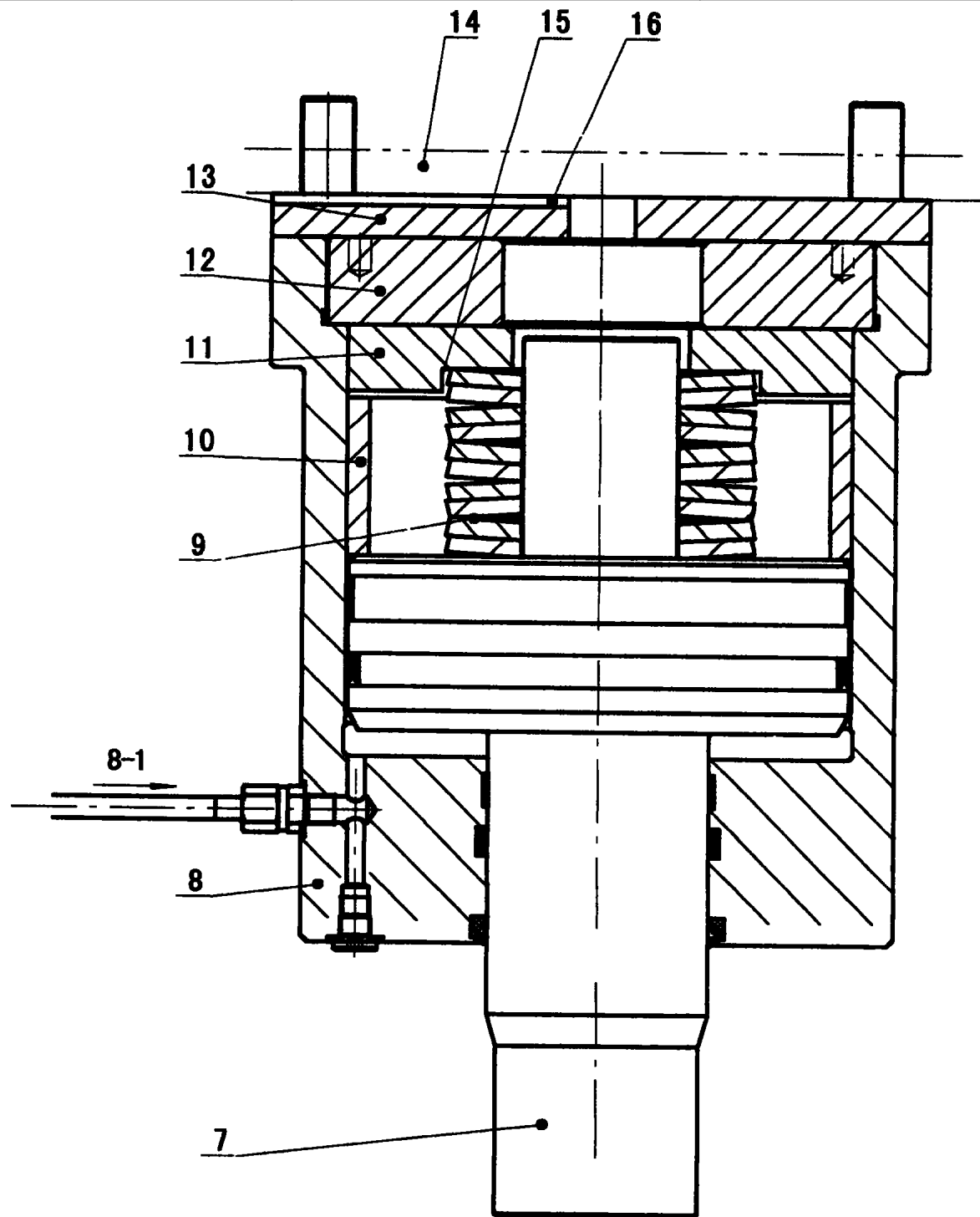
Latest standardized assignees - inventors removedTIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 87/100 - FAMPAT - ©Questel

Title

(CN2820522U)

Digital control moving **press** head clamp device for **hydraulic press****Images**



Publication data including kind & date

CN2820522

Y 2006-09-27 CN2820522U



Abstract

(CN2820522)

The utility model relates to a digital control moving **press** head clamp device for **hydraulic press**, comprising a piston, a clamping cylinder, a disk spring, a protecting jacket, a disk spring base and a locknut. The piston is equipped in the cylinder body of the clamping cylinder, making the cylinder body form an upper cavity and a lower cavity. The disk spring is positioned in the upper cavity body, the lower cavity body is equipped with an oil inlet and the protecting jacket is equipped in the upper cavity body. The disk spring base is arranged on the disk spring, and the upper end of the disk spring base is equipped with the locknut, the piston, the disk spring and the protecting jacket. The disk spring base is locked tightly with the cylinder bottom of the clamping cylinder via the locknut, and the upper side of the cylinder bottom of the clamping cylinder is equipped with a setting plate. The advantages are that the utility model enhances the stability of the **hydraulic press** during the whole stamping procedure, prevent the dislocation of the moving circumgyration **press** head caused by relatively large impact force, and guarantee the accurate forming of the hull plate, bringing a lot of convenience to the

manufacturing engineering of the processing large steel plates of the shipbuilding vocation.

Inventors

CHEN HAIZHOU

Latest standardized assignees - inventors removed

TIANJIN TIANDUAN **HYDRAULIC PRESS**

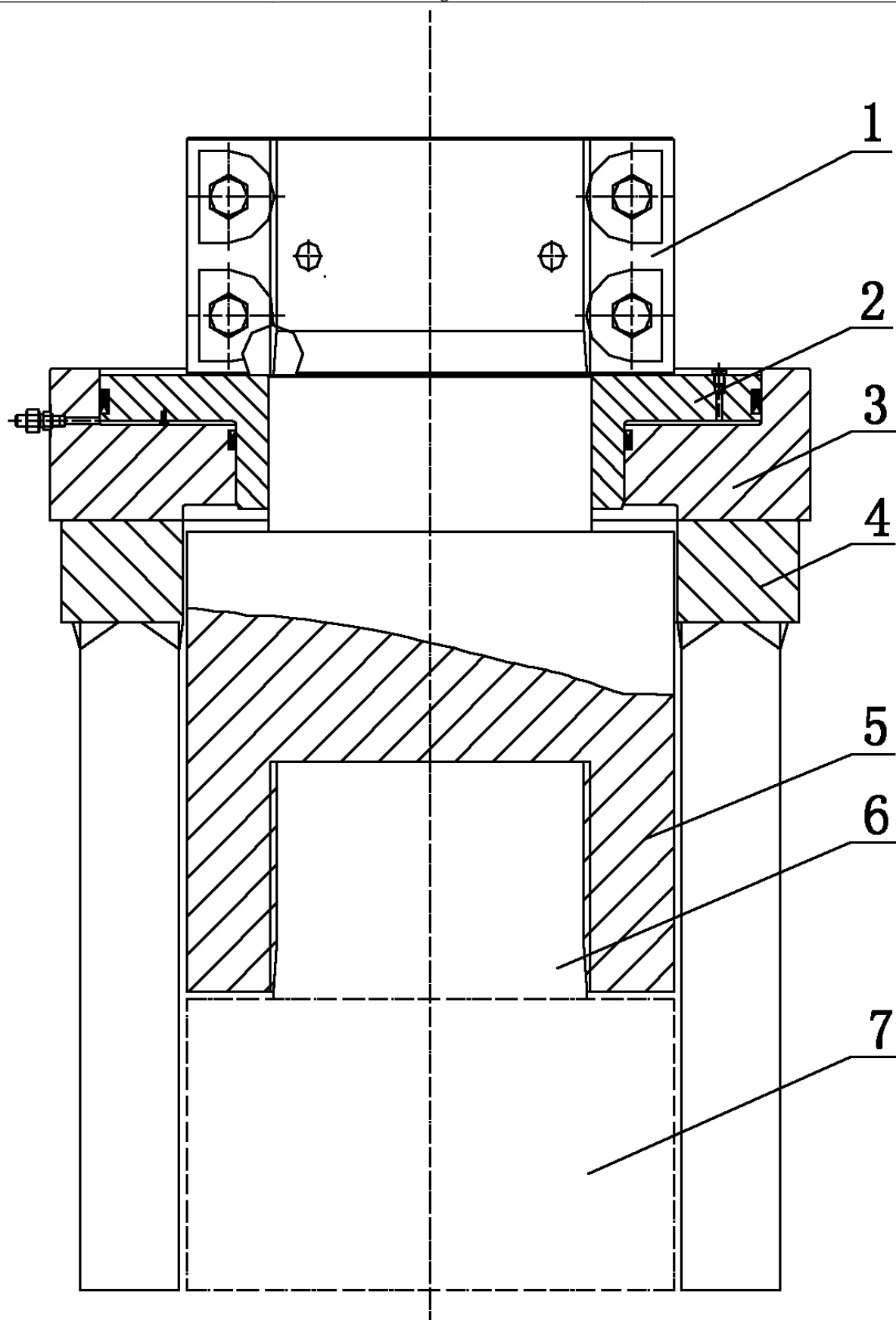
Family 88/100 - FAMPAT - ©Questel

Title

(CN202239427U)

Large-tonnage **hydraulic press** multi-pull-rod pre-tightening device

Images

**Publication data including kind & date**

CN202239427

U 2012-05-30 CN202239427U

**Abstract**

(CN202239427)

The utility model relates to a large-tonnage **hydraulic press** multi-pull-rod pre-tightening device, which comprises a pull rod and a nut, wherein the pull rod is connected with an upper cross beam; the device is characterized in that: a connector is sleeved outside the pull rod; a supporting block which is arranged on the upper cross beam is arranged outside the upper

end of the connector; the supporting block is provided with a **hydraulic** pre-tightening cylinder; the pull rod penetrates through the **hydraulic** pre-tightening cylinder and a **hydraulic** pre-tightening piston; and the upper end of the pull rod of the device is locked through a locking member. The device has the advantages of simple and compact structure and capabilities of improving sufficient pre-tightening force, guaranteeing overall rigidity of a **hydraulic press**, improving reliability of the **hydraulic press**, effectively avoiding break accidents of the pre-tightening pull rod and prolonging the service life of the device.

Inventors

YIN WENXUE

Latest standardized assignees - inventors removed

TIANJIN TIANDUAN **HYDRAULIC PRESS**

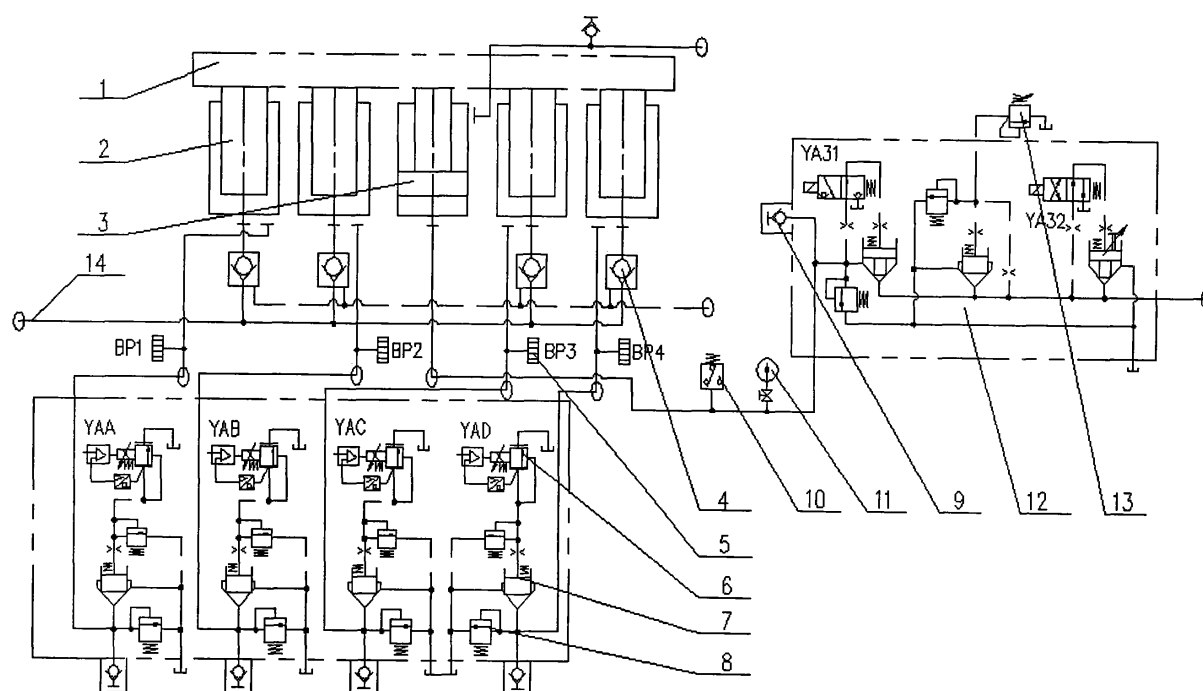
Family 89/100 - FAMPAT - ©Questel

Title

(CN201613663U)

Under one kind of **hydraulic press** fluid pressure pad four jiao modulator

Images



Publication data including kind & date

CN201613663

U

2010-10-27

CN201613663U



Abstract

(CN201613663)

This utility model involves under one kind of **hydraulic press** a fluid pressure pad four jiao modulator. This utility model belongs to **hydraulic press** area of technology. Under one kind of **hydraulic press** a fluid pressure pad's four jiao modulator, including the **hydraulic** pressure pipeline and solenoid valve, its characteristic is: Under the **hydraulic press** a fluid pressure pad's four jiao modulator is under the fluid pressure pad four jiao establishes four plunger cylinders, each plunger cylinder establishes an independent **hydraulic** control organization; Under the **hydraulic** control organization independent control the fluid pressure pad piston cylinder carries on to stretch or jack and returns. This utility model has the structure to be simple, control convenient and stable reliable, function is comprehensive, performance is fine, the run cost is low, is easy to realize complex work piece the suppressed formation and other merits, but widely applies in the **hydraulic press** profession.

Inventors

TAI XIAOQIN

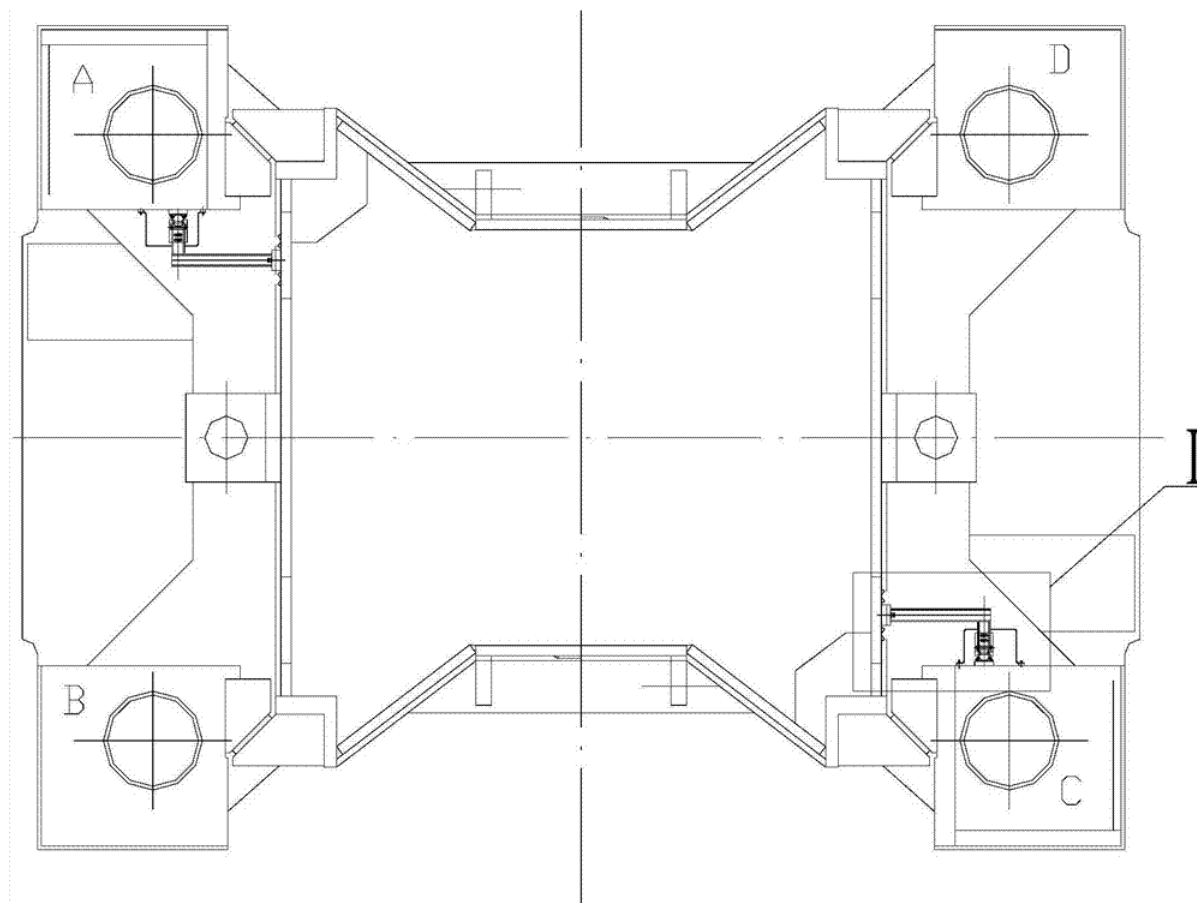
Latest standardized assignees - inventors removed

TIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 90/100 - FAMPAT - ©Questel

Title

(CN108592773)

Liquid die forging **hydraulic press** sliding block unbalanced loading detection structure**Images****Publication data including kind & date**[CN108592773](#)

A

2018-09-28

CN108592773

**Abstract**

(CN108592773)

The invention discloses a liquid die forging **hydraulic press** sliding block unbalanced loading detection structure. The liquid die forging **hydraulic press** comprises a sliding block and four supporting columns positioned on the periphery of the sliding block, and the four supporting columns are located on the four endpoints of the rectangle; the two supporting columns on the rectangular diagonal line are respectively provided with a group of detection components; each group of detection components comprises a support fixedly connected with the sliding block, and the support is provided with magnetic steel and displacement rulers; and the two displacement rulers send detection results to the controller, the controller compares the two detection results, and when the comparison result exceeds the threshold value, an alarm is given. According to the method, by using the two sets of supports with magnetic steel installed on the sliding block of the liquid die forging **hydraulic press** and the special displacement rulers which are installed on the diagonal supporting columns of the liquid die forging **hydraulic press**, the eccentric pressing caused by the special shape of the workpiece in the liquid die forging process can be monitored in real time through the corresponding comparison program of the controller in the liquid die forging production process, and the device for monitoring the quality of the forged piece and the running state of the **hydraulic** die forging **hydraulic press** is achieved.

Inventors

LIU SHUNLI

GUAN YABIN

QI LEI

NIU CHUNYU

YANG SHA

Latest standardized assignees - inventors removed

TIANJIN TIANDUAN **HYDRAULIC PRESS**

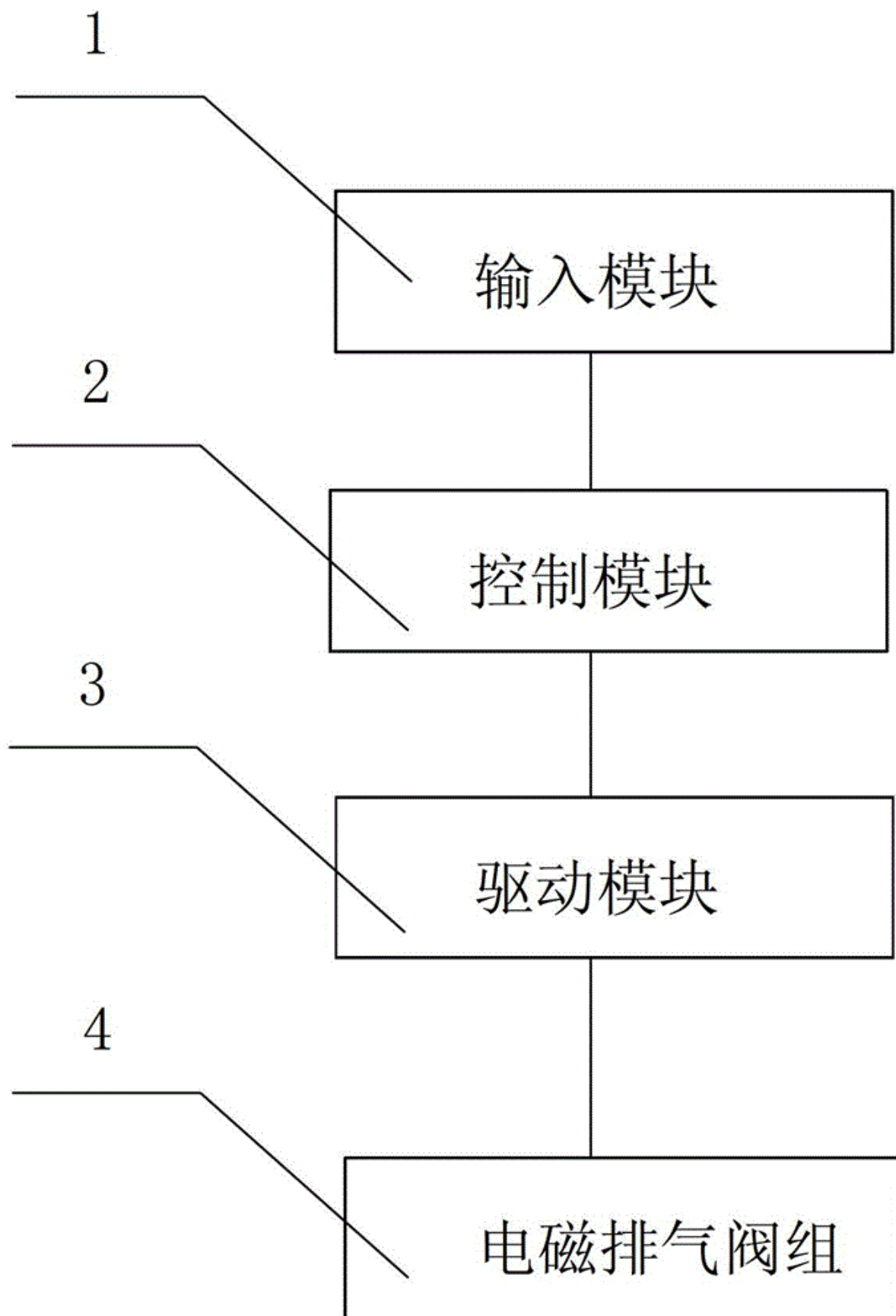
Family 91/100 - FAMPAT - ©Questel

Title

(CN103264134)

Automatic exhausting and micro module centering control system for **hydraulic** forging **press**

Images

**Publication data including kind & date**

CN103264134	A	2013-08-28	CN103264134
CN103264134	B	2016-08-31	CN103264134B

**Abstract**

(CN103264134)

The invention discloses an automatic exhausting and micro module centering control system for a **hydraulic** forging **press** and belongs to the technical field of **hydraulic** forging **press** control. The system comprises an input module used for

inputting a command and a control module used for receiving the command, analyzing and processing the command and transmitting the analyzed and processed command to an execution unit. The execution unit comprises an electromagnetic exhausting valve group used for controlling exhaust rate, a cylinder group used for controlling the **hydraulic forging press** to achieve micro module centering action and a driving module electrically connected with the electromagnetic exhausting valve group. The input module, the control module, the driving module and the electromagnetic exhausting valve group are sequentially connected. The control module with analyzing and control functions is adopted to achieve control of the electromagnetic exhausting valve group and the cylinder group, so that the system has higher control accuracy and operability. Meanwhile, one control module can be utilized to achieve simultaneous control of a plurality of electromagnetic exhausting valves and a plurality of cylinders, and operability of the **hydraulic press** is improved.

Inventors

ZHANG YANG

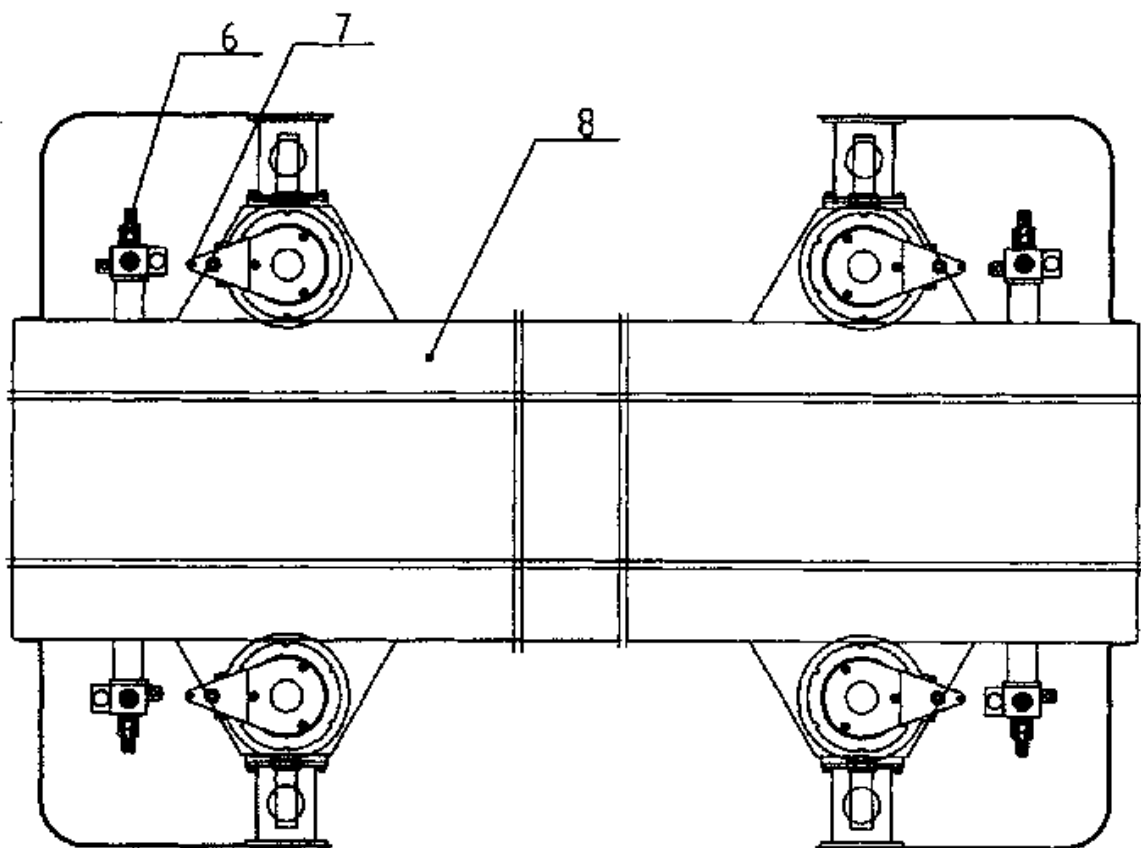
LI XIAOFEI

Latest standardized assignees - inventors removedTIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 92/100 - FAMPAT - ©Questel

Title

(CN2717571U)

Quadrangular levelling device for semisolid die forging **hydraulic press****Images****Publication data including kind & date**

CN2717571

Y 2005-08-17 CN2717571U

**Abstract**

(CN2717571)

The utility model relates to a quadrangular levelling device for semisolid die forging **hydraulic press**, belonging to the technical field of the **hydraulic press**. The quadrangular levelling device for semisolid die forging **hydraulic press** comprises a cylinder body, a piston and a flange, etc, which is characterized in that: a levelling cylinder is fixedly arranged on a **hydraulic-press** work bench, and the levelling cylinder is connected with a pressure sensor and a control valve; a plunger

piston is sheathed in the cylinder body, and the flange is fixedly arranged on the plunger piston; a cylinder-opening lock nut is inserted in the cylinder body, and a cylinder-opening guiding-sheathing is inserted in the cylinder body; a guide pad is fixedly arranged on the external side of the cylinder body, the guide bar is matched with the guide pad to be fixedly arranged on the flange, and the flange is connected with a displacement sensor; the levelling cylinder is connected with a hydraulic-oil control valve which is arranged on the work bench. The utility model can keep the parallel descending state of the slide block and the work bench and can ensure the accuracy of the products; the quadrangular levelling device for semisolid die forging hydraulic press has the advantages of simple structure, accurate controlling and high movement accuracy, etc, and moreover, the utility model can improve the workpiece quality effectively.

Inventors

GUO JINBAO

Latest standardized assignees - inventors removed

TIANJIN TIANDUAN HYDRAULIC PRESS

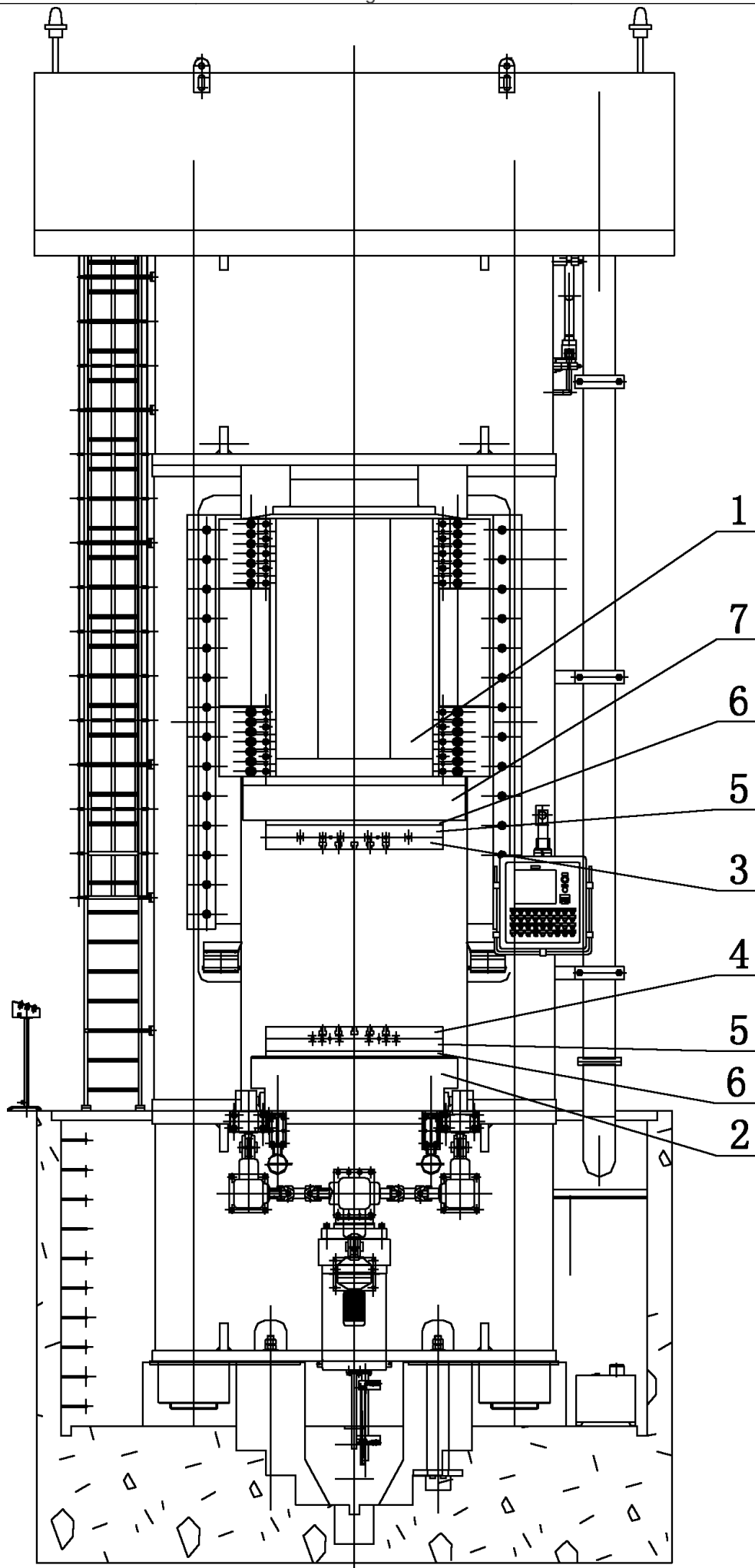
Family 93/100 - FAMPAT - ©Questel

Title

(CN202239415U)

Heat preservation structure of isothermal forging hydraulic press for magnesium alloy wheel hub

Images



Publication data including kind & date

CN202239415

U 2012-05-30

CN202239415U

**Abstract**

(CN202239415)

The utility model relates to a heat preservation structure of an isothermal forging **hydraulic press** for a magnesium alloy wheel hub, and the heat preservation structure comprises a slide block, a de-molding plate which is installed on the slide block and is used for fixing an upper mould of a mould, a movable worktable which is arranged at the lower part of a **hydraulic press**, and a mounting plate which is mounted on the movable worktable and is used for fixing a lower mould of the mould. The heat preservation structure is characterized in that a heat preservation plate and a heat insulation plate are arranged between the slide block and the de-molding plate; the heat preservation plate is located between the de-molding plate and the heat insulation plate and the heat insulation plate is located between the slide block and the heat preservation plate; the heat preservation plate and the heat insulation plate are arranged between the movable worktable and the mounting plate; the heat preservation plate is located between the mounting plate and the heat insulation plate; and the heat insulation plate is located between the movable worktable and the heat preservation plate. The heat preservation structure of the isothermal forging **hydraulic press** for the magnesium alloy wheel hub has the advantages that the structure is simple, the heat loss of the **hydraulic press** in the isothermal forging process can be effectively avoided, and the forging effect and yield of products can be improved.

Inventors

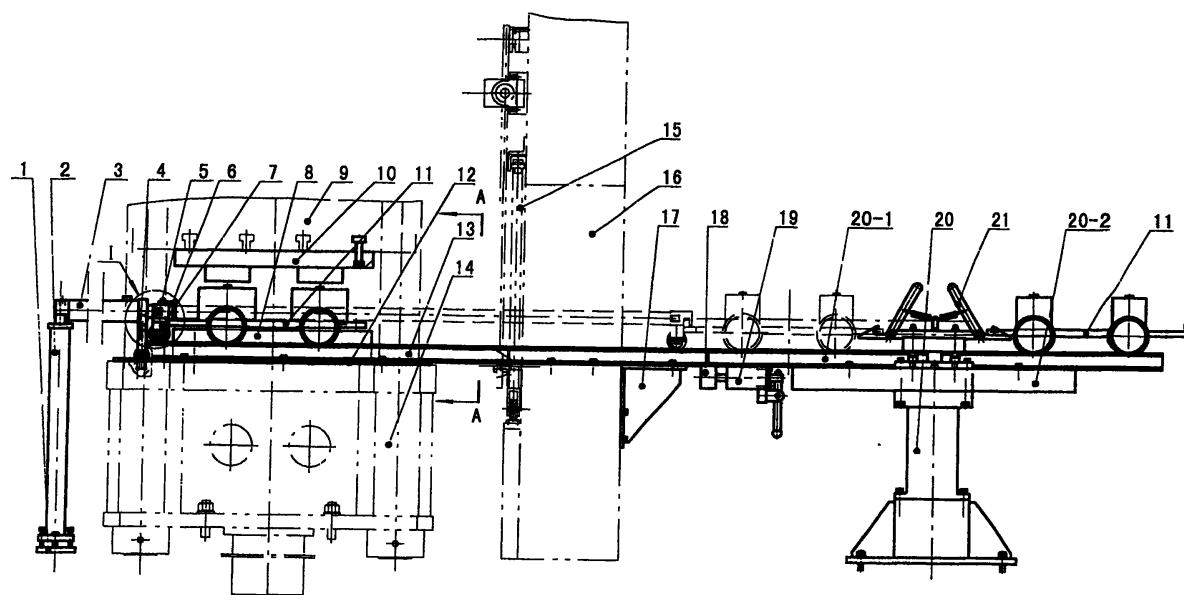
ZHANG CHENGZHE

Latest standardized assignees - inventors removedTIANJIN TIANDUAN **HYDRAULIC PRESS**

Family 94/100 - FAMPAT - ©Questel

Title

(CN100584593C)

Hydraulic press material feeder for pressing explosive**Images****Publication data including kind & date**

CN101190576

A 2008-06-04

CN101190576

CN100584593

C 2010-01-27

CN100584593C

**Abstract**

(CN101190576)

The invention relates to a feeding device of a **hydraulic press** used for suppressing an explosive which comprises a base plate and a rail bracket. Slideways are arranged at the rail bracket and the base plate; a **hydraulic** cylinder is arranged

between the bracket and a support frame of the **hydraulic** cylinder; a connector of the **hydraulic** cylinder is connected with a walking bracket; the connector is provided with a bent plate and the base plate is provided with a bolster; an operation room is fixed provided with a rotating table and a rotary table which is provided with a rotating table slideway and an automatic track device which is fixed arranged between the two rotating table slideways of the rotary table; the left bottom surface of the slideway at the connecting place of the slideway with the rotating table slideway is provided with a locating block and the right bottom surface of the rotating table slideway is provided with a locating device. The invention has the advantages that: the safe operations of the charging and taking components of a feed trolley can be accomplished; and the simultaneous work of the charging of the feed trolley and the suppressing work of the **hydraulic** cylinder can be realized; the work efficiency is greatly increased; and the labor intensity of operating staff is relieved.

Inventors

XIA CHUNFEN

Latest standardized assignees - inventors removed

TIANJIN TIANDUAN **HYDRAULIC PRESS**

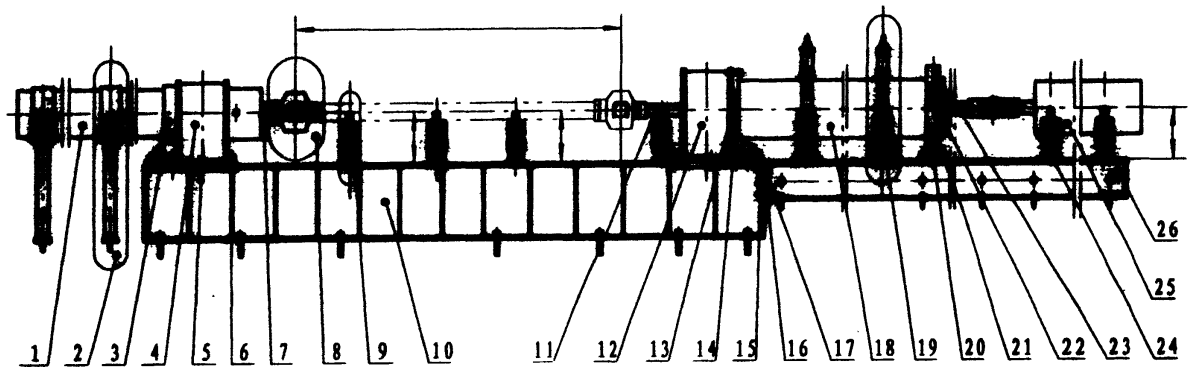
Family 95/100 - FAMPAT - ©Questel

Title

(CN100337811C)

Hydraulic press for drawing tech. based on long porous kinds

Images



Publication data including kind & date

CN1724250	A	2006-01-25	CN1724250
CN100337811	C	2007-09-19	CN100337811C



Abstract

(CN1724250)

A **hydraulic press** based on the drawing technology of long hole features that the front and back beams are installed to the front and back ends of a rectangular bench, the supporter for fixing work-piece and several regulate three-point supporters are installed on a platform installed to the back end of bench, the locating flange for holding work-piece is installed to side back surface of said back beam, the regulate core die supporters are installed on said platform and bench, the cylinder body and its several regulate supporters are installed on front beam, and the piston rod in cylinder is pinned to a connecting rod pinned with core die.

Inventors

XIA CHUNFEN

Latest standardized assignees - inventors removed

TIANJIN TIANDUAN **HYDRAULIC PRESS**

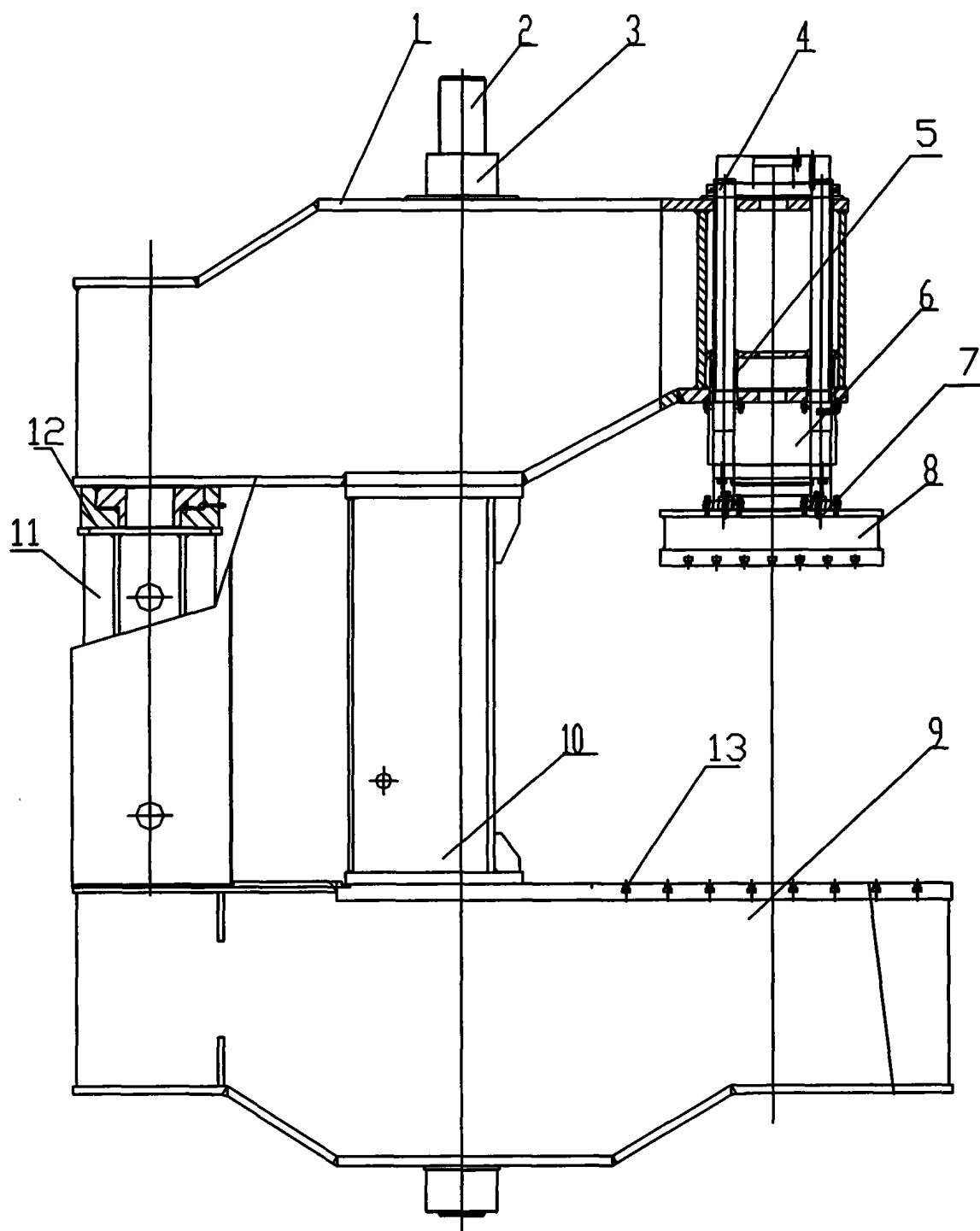
Family 96/100 - FAMPAT - ©Questel

Title

(CN201195402U)

Balance, pre-tightening type large-scale high-accuracy single-arm **hydraulic press**

Images



Publication data including kind & date

CN201195402

Y

2009-02-18

CN201195402U



Abstract

(CN201195402)

A balanced and pre-tightened large scale single pillar **hydraulic press** with high precision comprises an upper crossbeam, a lower crossbeam and a prop arranged between the two crossbeams. A working head driven by a main working cylinder is arranged at one end of the upper crossbeam of the **hydraulic press**, a working table board is arranged at the end of the lower crossbeam corresponding to the working head, further, a pier is arranged at the other end of the lower crossbeam, and a balance oil cylinder is arranged between the pier and the corresponding upper crossbeam. Additionally, a top-to-bottom through hole is formed at the joint of the upper crossbeam, the prop and the lower crossbeam, and the upper crossbeam, the prop and the lower crossbeam are fixedly connected by a nut and a pull rod penetrating through the upper and lower crossbeams and the prop. The utility model has a simple structure and is convenient for production, can

conveniently manufacture large scale single pillar **hydraulic press** with large table boards, deep throat of filler weld, large stroke and high precision, which is convenient for assembly and delivery, and further can complete pressing and forming of ultra-large planks and adjusting and **press**-assembling of parts without causing deformation of the crossbeam but increasing service life of the single arm **hydraulic press**.

Inventors

ZHANG LEI

Latest standardized assignees - inventors removed

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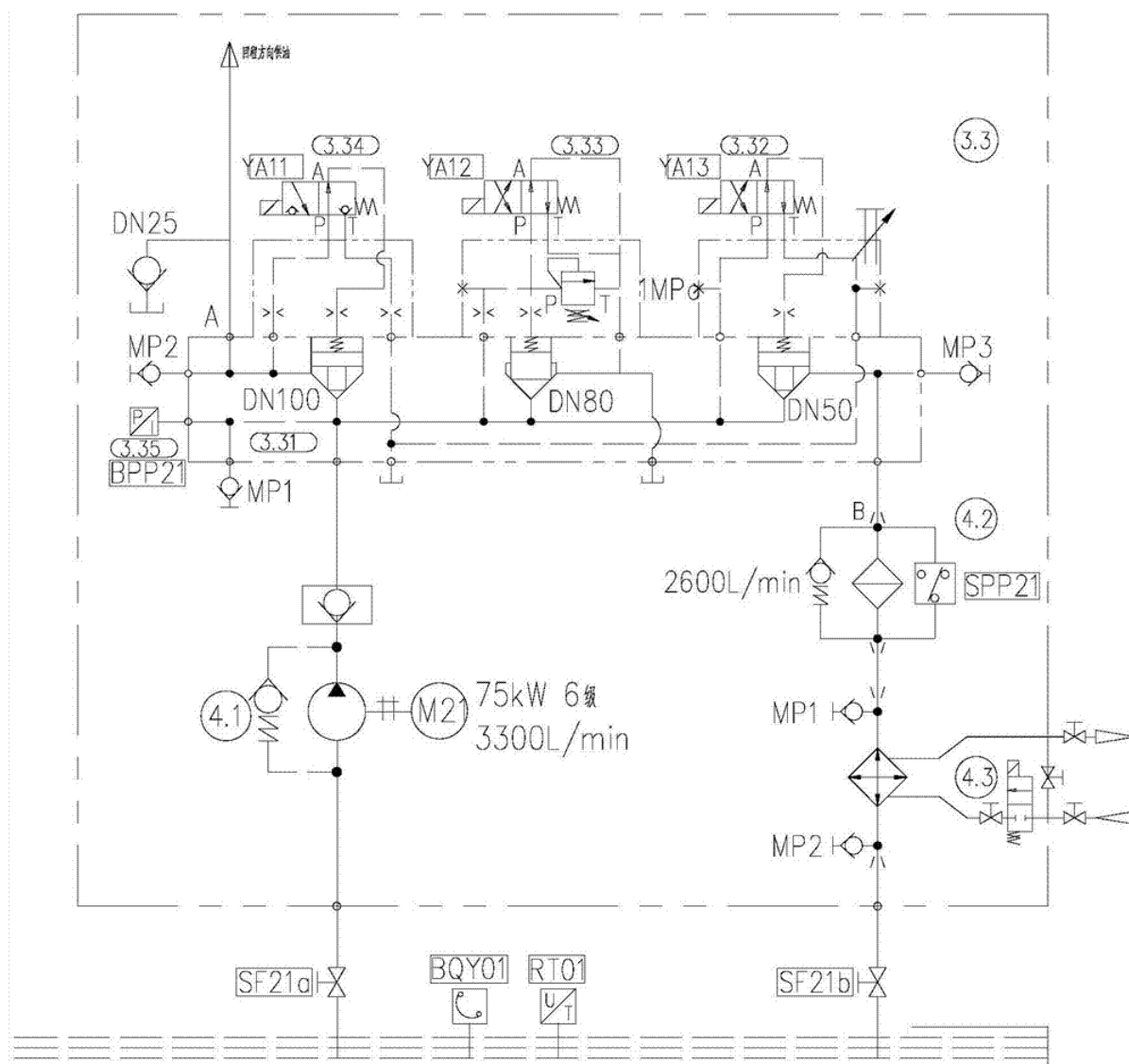
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Title

(CN109093044)

Hydraulic press fluid supplement and cooling control system adopting frequency conversion control

Images



Publication data including kind & date

[CN109093044](#) A 2018-12-28 CN109093044



Abstract

(CN109093044)

The invention discloses a **hydraulic press** fluid supplement and cooling control system adopting frequency conversion control, and belongs to the technical field of metal extrusion molding. The maximum flow required for cooling of the **hydraulic press** is 2000 L/min, and the pressure is 30 bar. The **hydraulic press** has a maximum flow of 3300 L/min and the pressure of 10 bar during fluid supplement. The **hydraulic press** fluid supplement and cooling control system adopting

frequency conversion control is characterized by at least comprising a six-stage motor capable of driving a screw pump with a specification of 2200 cc/r and a frequency converter for driving the six-stage motor to operate. According to the **hydraulic press** fluid supplement and cooling control system adopting frequency conversion control, the frequency converter is adopted to control the screw pump with low pressure and large flow, so that the flow and pressure requirements of system fluid supplement are met when the equipment normally rises, the number of system oil pump configurations is effectively reduced, and in terms of value, the configuration of eight groups of fixed-displacement pumps and the motor is saved, the cost of system configuration is effectively reduced, and the occupied area of the whole **hydraulic** and electrical system is further reduced.

Inventors

WANG SHIDONG

GUO JUNWEI

GAO XIAOYONG

CHEN JINCHAO

ZHANG XIAOYAN

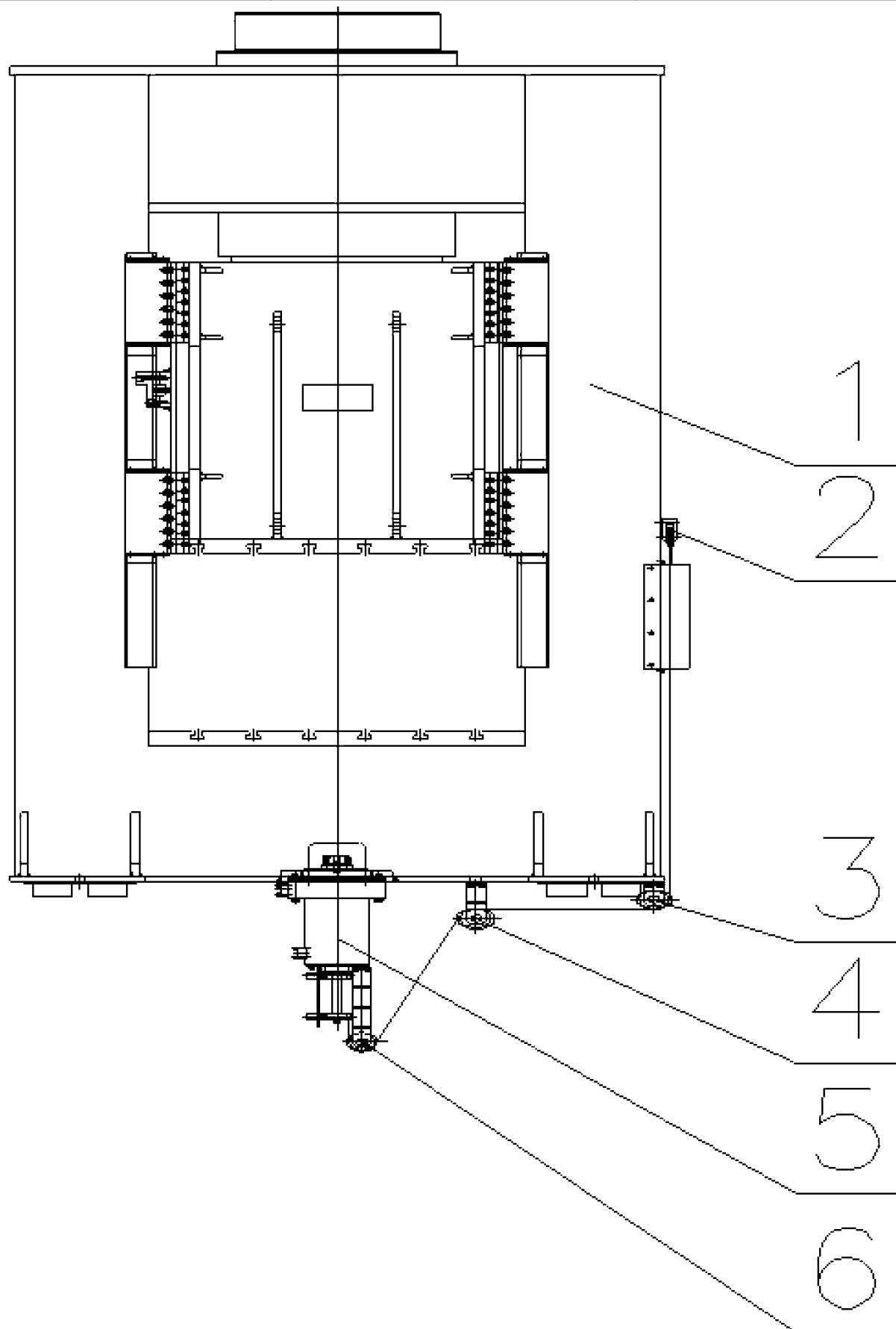
Latest standardized assignees - inventors removedTIANJIN TIANDUAN **HYDRAULIC PRESS**

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Title

(CN202836532U)

Hydraulic press ejection oil cylinder pull wire-type position accurate detection device**Images**

**Publication data including kind & date**

CN202836532

U 2013-03-27 CN202836532U

**Abstract**

(CN202836532)

The utility model discloses a **hydraulic press** ejection oil cylinder pull wire-type position accurate detection device, comprising a **hydraulic press** body, steel wire rope steering pulley groups, an ejection oil cylinder, a fixed pulley group, a

gag lever post anti-steering device, a gag lever post, a counterweight mounting rack, spacing guide blocks, a counterweight, a steel wire rope, a linear displacement sensor, a linear displacement sensor induction block, a proximity switch mounting rack, a proximity switch and a protective cover. The steel wire rope is connected with the gag lever post, is led to a counterweight device by passing through the fixed pulley group and the steel wire rope steering pulley groups, and is connected with the counterweight. The up-and-down motions of the counterweight are the up-and-down motions of a piston rod of the ejection oil cylinder, namely the motion positions of the counterweight and the motion positions of the piston rod of the ejection oil cylinder detected by the linear displacement sensor and the proximity switch. Mechanisms of the **hydraulic press** ejection oil cylinder pull wire-type position accurate detection device prevent transmission components from being damaged by corrosive mediums and prevent resource waste. In addition, the protective cover is utilized to protect the transmission components, prevents influences on precision of **press** ejection oil cylinder detection components from external mediums, and guarantees aesthetic properties.

Inventors

LI XIAOJUN

WANG ZHEN

CAO ZHIMING

YAO LINGXIAO

CHU ZHUBING

Latest standardized assignees - inventors removed

HEFEI HAIDE **HYDRAULIC PRESS**

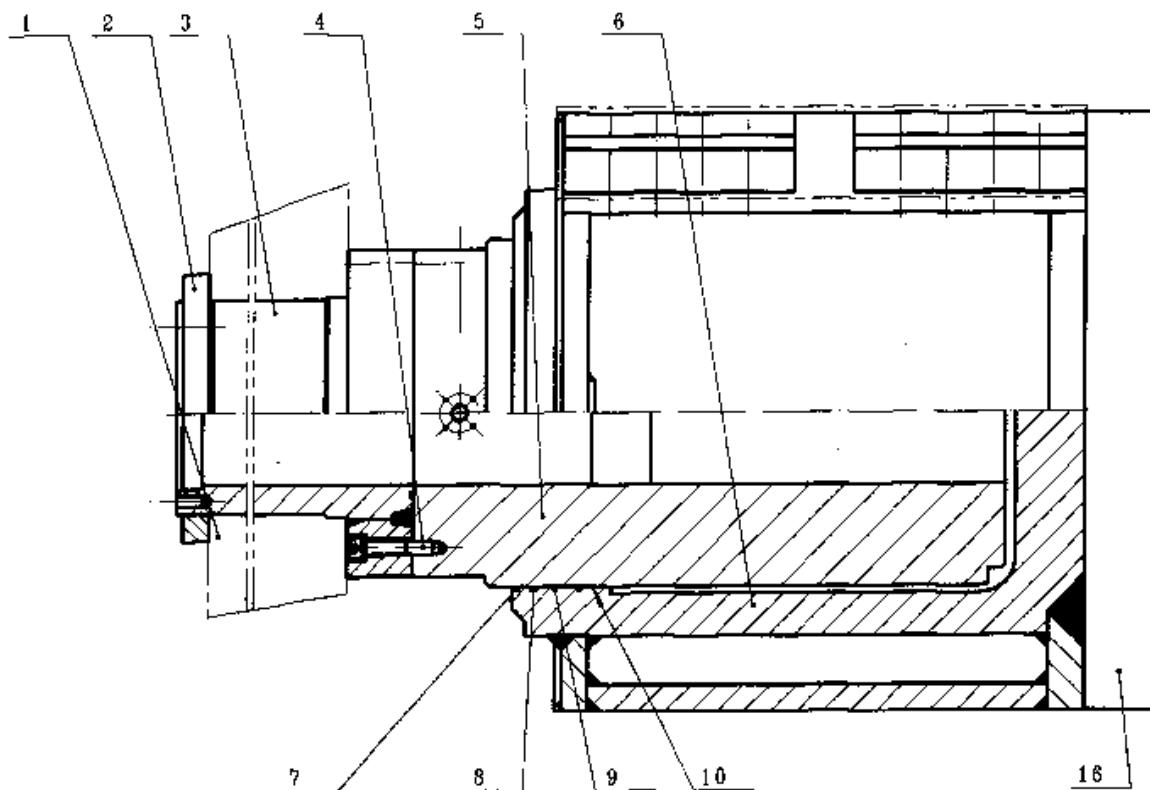
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Title

(CN2579556U)

Belt cylinder slide block device for working titanium alloy on isothermal forging **hydraulic press**

Images



Publication data including kind & date

[CN2579556](#)

Y 2003-10-15 CN2579556U



Abstract

(CN2579556)

The utility model relates to a belt cylinder slide block device for working titanium alloy on an isothermal forging **hydraulic press**. The utility model is characterized in that a slide block is provided with a guide plate, a shim plate and an adjusting block; an adjusting plate is arranged between the slide block and the adjusting block; the inner part of the slide block is provided with a plunger piston; the plunger piston is provided with a connecting sleeve, and the connecting sleeve is fixedly arranged at an upper cross beam on the isothermal forging **hydraulic press**. Because a fixed X-shaped guide rail structure is arranged between a slide block device which is provided with a cylinder, and a supporting column of the **hydraulic press**, the isothermal forging **hydraulic press** which is provided with the utility model can be used for the isothermal forging of titanium alloy materials for an aircraft manufacturing trade, and can meet the requirements for the titanium alloy materials, such as plasticity, a forging temperature band, deformation resistance, etc.

Inventors

LUO LILI

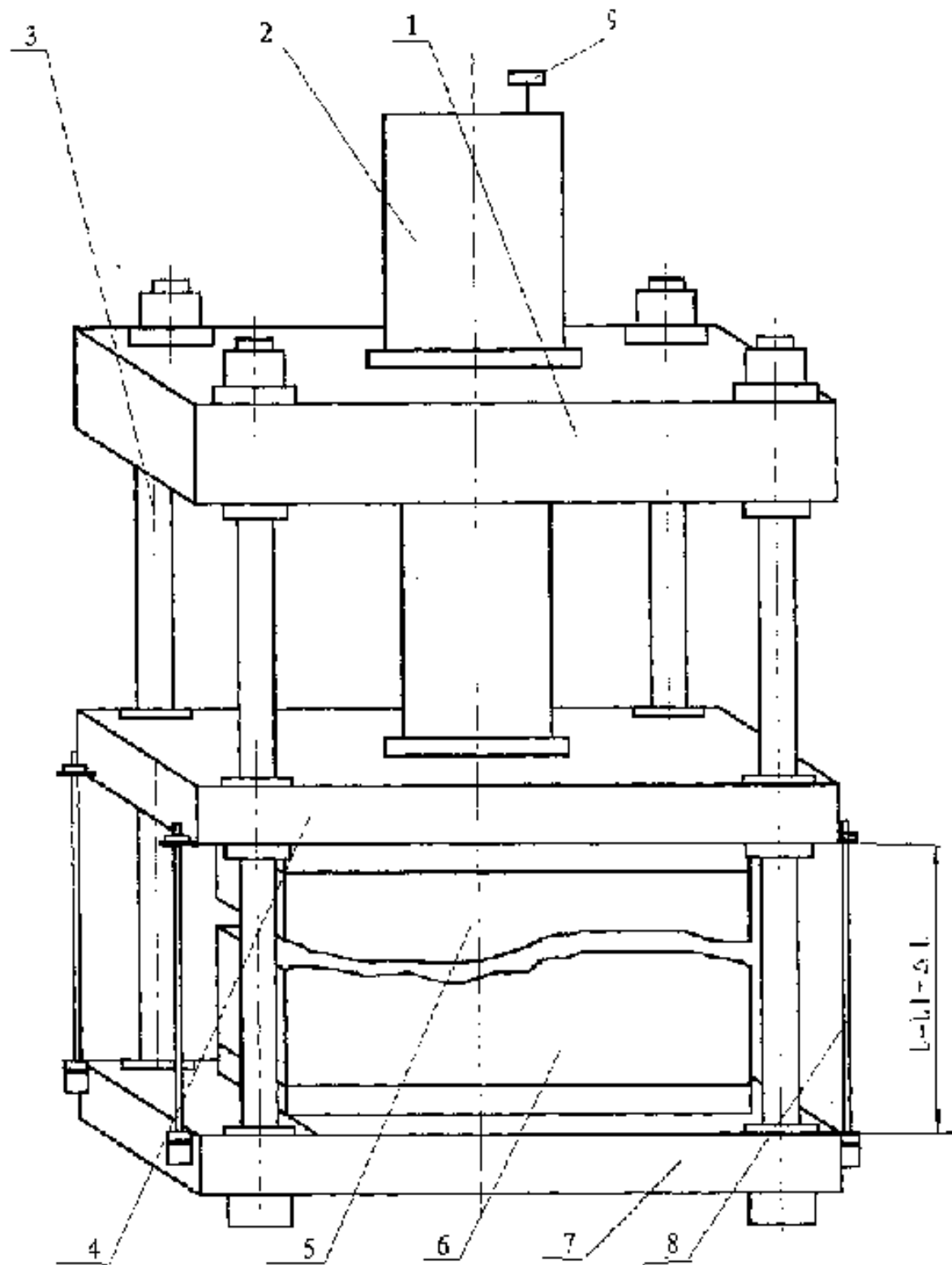
Latest standardized assignees - inventors removedTIANJIN TIANDUAN **HYDRAULIC PRESS**

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Title

(CN2727696U)

Pressure strain measuring device for **hydraulic press** body**Images**



Publication data including kind & date

CN2727696

Y 2005-09-21 CN2727696U



Abstract

(CN2727696)

The utility model discloses a pressure strain measuring device for a **hydraulic press** body, which is characterized in that The utility model comprises a working bench mounted on the **hydraulic press**, linear displacement transducers mounted between moved cross beams, and a pressure sensor arranged on the top part of the main oil cylinder of the **hydraulic press**. The upper ends of four linear displacement transducers are respectively connected with four corners on both sides of the moved cross beam, and the lower ends thereof are respectively connected with four corners on both sides of the working bench. The utility model has the advantages that on the ground that the four corners of the moved cross beam of the utility model and the four corners of the working bench of the working bench of the utility model are mounted with the

linear displacement transducers for replacing strain electrical resistance pieces, the utility model records the relative deformation displacement data of the moved cross beam and the working bench via the instant display of the linear displacement transducer and a corresponding numerical control instrument. The data measured by the sensor is accurate and rapid, and the workload of operators is reduced; thus the automation level of the **hydraulic press** can be effectively improved.

Inventors

CHEN FUXIANG

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