

10 Documents

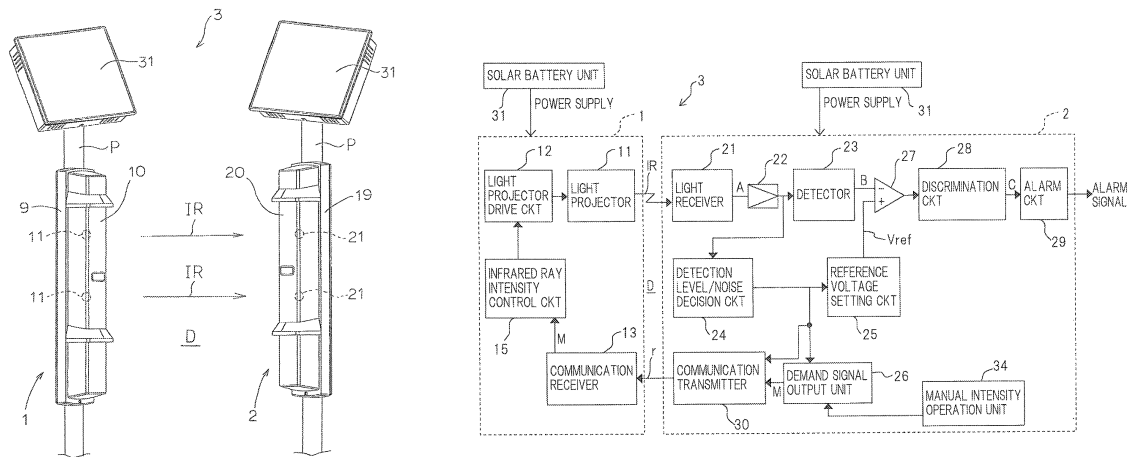
Publication numbers	Title	Current assignees
US20140285342 A1	Solar battery-driven object detection system	OPTEX
CN207992454U U	Sea detecting device based on big dipper short message	LIN XIANLONG
CN206114900U U	Distancer that civil engineering used	CHINA THREE GORGES UNIVERSITY
AU2018203910 A1	The Dressage Area Maker Announcer (DAMA) is a computer controlled device that will Announce Dressage Arena Markers as horse and rider ride around Dressage Arenas. It has been designed with the purpose to assist in the training of Disabled riders while riding around a Dressage Arena. It is fitted with a speaker to announce Marker letters and a strobe light	BURFITT ANDREW
EP2179301 A1	Optical sensor	LEUZE ELECTRONIC
CN207937607U U	Pasture monitored control system based on 3D laser radar	CHENGDU CAOYU TECHNOLOGY
CN108107445 A	Pasture monitoring system based on 3D laser radar	CHENGDU CAOYU TECHNOLOGY
CN108318893 A	Laser radar forestry center monitoring system based on Internet of Things	CHENGDU RONGCHUANG ZHIGU TECHNOLOGY
CN110031857 A	Ship over-height early-warning system	GUANGZHOU JIAHANG COMMUNICATION TECHNOLOGY
US20200077540 A1	Apparatus and method that manage sensor module temperature	GM GLOBAL TECHNOLOGY OPERATIONS

Family 1/10 - FAMPAT - ©Questel

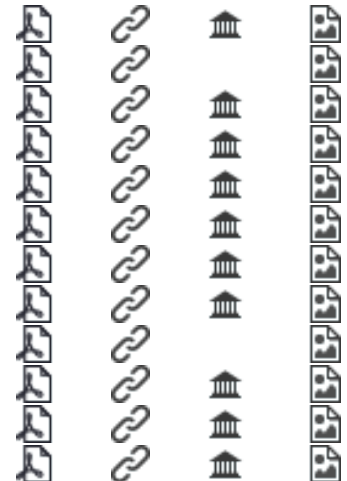
Title

(US9576456)

Solar battery-driven object detection system

Images**Publication numbers with kind code & date**

FR3003651	B1	2019-05-17	FR3003651
KR10-1923756	B1	2018-11-29	KR101923756
TWI636433	B	2018-09-21	TWI636433
JP6255161	B2	2017-12-27	JP6255161
AU2014201662	B2	2017-08-24	AU2014201662
US9576456	B2	2017-02-21	US9576456
TW201501085	A	2015-01-01	TW201501085
AU2014201662	A1	2014-10-09	AU2014201662
KR20140117275	A	2014-10-07	KR20140117275
JP2014182723	A	2014-09-29	JP2014182723
FR3003651	A1	2014-09-26	FR3003651
US20140285342	A1	2014-09-25	US20140285342

**Abstract**

(US20140285342)

A reception unit 2 of a detection unit 3 includes a transmitter 30 that transmits a reception (detection) level of an infrared beam to a transmission unit 1, and a demand signal output unit 26 that transmits to the transmission unit 1 a demand signal M, demanding to control the intensity of the infrared beam to be transmitted so that the reception level matches a predetermined value. The transmission unit 1 includes an infrared ray (detection beam) intensity control unit 15 that controls, upon receipt of the demand signal M, the intensity of the infrared beam to be transmitted so that the reception level matches the predetermined value. A power source unit 31 is a solar battery unit including a **solar panel** and a charging medium that stores power from the **solar panel**.

Inventors

MAKINO HIROSHI
HAYASHIDE KOJI
KURATA MATAICHI
IKEDA HIROYUKI

Latest standardized assignees - inventors removed

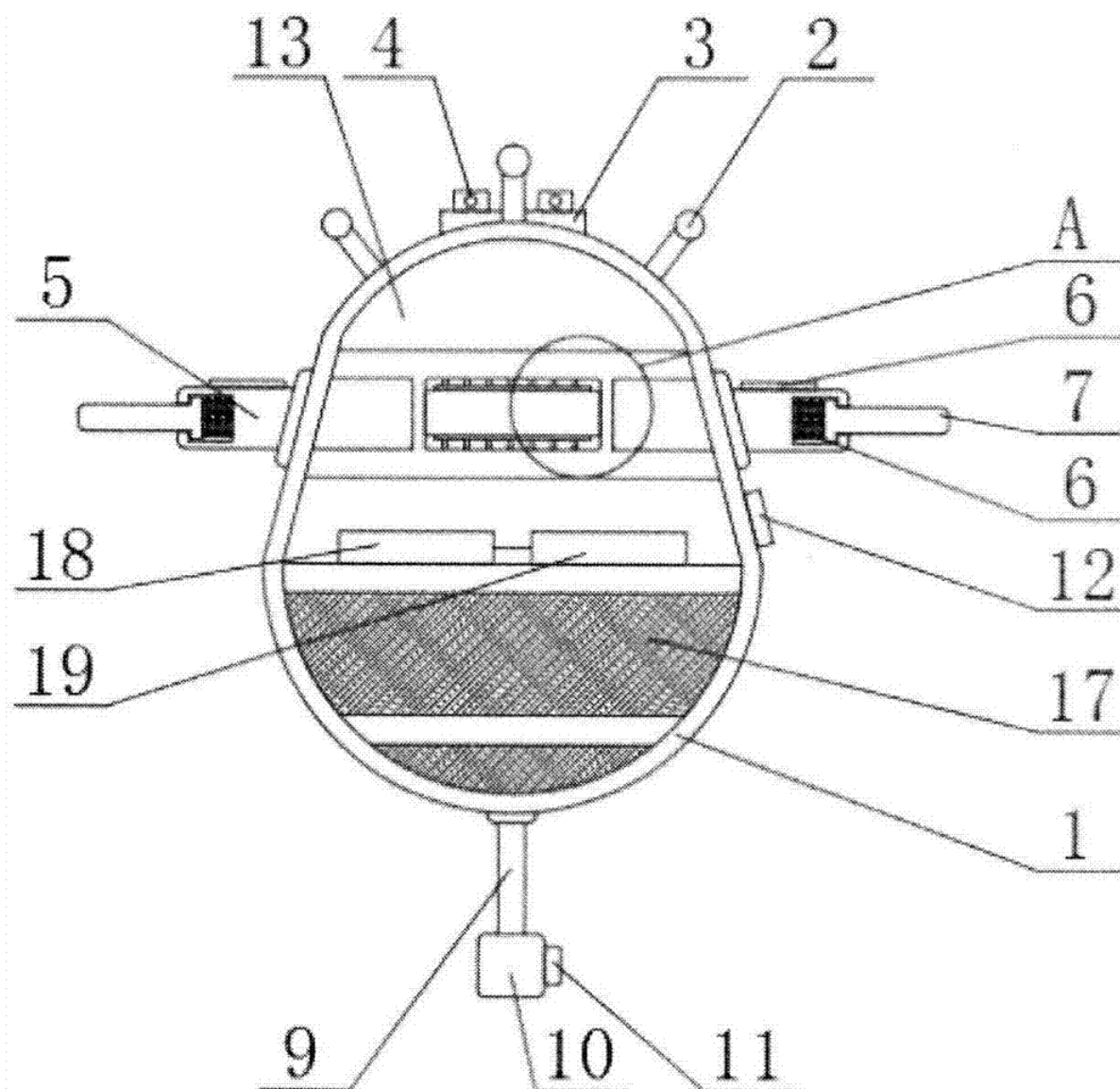
OPTEX

Family 2/10 - FAMPAT - ©Questel

Title

(CN207992454U)

Sea detecting device based on big dipper short message

Images**Publication numbers with kind code & date**[CN207992454](#)

U

2018-10-19

CN207992454U

**Abstract**

(CN207992454)

The utility model discloses a sea detecting device based on big dipper short message, which comprises a housing, the casing top is equipped with directional aerial, shell top face is equipped with the pallet, the pallet top is equipped with the camera, the casing both sides all are equipped with the crown plate, the crown plate inboard is equipped with the spring, spring one side is equipped with flexible kickboard, the crown plate top is equipped with **solar panel**, the casing bottom is equipped with the rope, the rope bottom is equipped with the centering block. The utility model discloses a being equipped with the crown plate, being favorable to strengthening the buoyancy effect of casing, the weight of casing bottom has been strengthened to centering block and packing course, utilizes the dual effect of cavity and flexible kickboard to make the casing float on the sea, and the support supports casing inside, reduces the pounding effect that the sea water was patted at housing face, and **solar panel** absorbs solar energy, utilizes solar converter to convert the electric energy storage into in the battery to each part to casing inside is supplied power.

Inventors

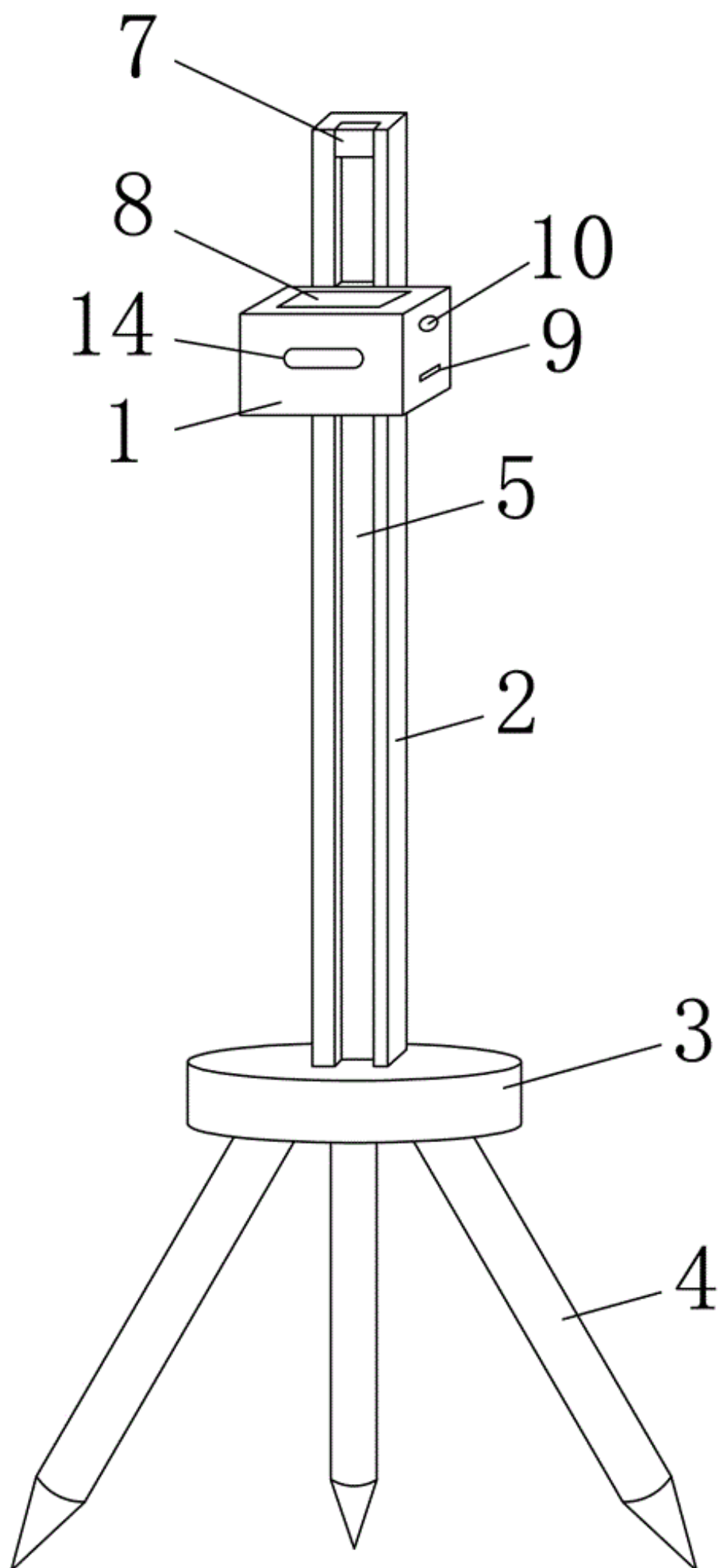
LIN XIANLONG

Title

(CN206114900U)

Distancer that civil engineering used

Images



Publication numbers with kind code & date[CN206114900](#)

U

2017-04-19

CN206114900U

**Abstract**

(CN206114900)

The utility model discloses a distancer that civil engineering used, including distancer main part, bracing piece, base and stabilizer blade, set up the spout on the bracing piece, and be provided with elevator motor in the spout, fixed mounting is on elevator motor for the distancer main part, be provided with the stopper in the spout at bracing piece top, the bottom fixed mounting of bracing piece is on the base, the top of distancer main part is provided with **solar panel**, the positive laser rangefinder **sensor** that is provided with of distancer main part, inside control panel, power, GPS positioning system and the 3G communication module of being provided with of distancer main part, it adopts and is used for gathering the accurate geographical positional information who measures the place at the inside GPS positioning system that sets up of distancer main part to through the laser emitter lasing in the laser rangefinder **sensor** to measurement target, laser receiver is used for collecting the laser that the measurement target reflects, and the practicality is strong, easily uses widely.

Inventors

LI GUOQIANG

Latest standardized assignees - inventors removed

CHINA THREE GORGES UNIVERSITY

Family 4/10 - FAMPAT - ©Questel

Title

(AU2018203910)

The Dressage Area Maker Announcer (DAMA) is a computer controlled device that will Announce Dressage Arena Markers as horse and rider ride around Dressage Arenas. It has been designed with the purpose to assist in the training of Disabled riders while riding around a Dressage Arena. It is fitted with a speaker to announce Marker letters and a strobe light

Images

02 Jun 20

2018203910

2018203910**There is one page of drawings only****Publication numbers with kind code & date**[AU2018203910](#)

A1

2018-11-08

AU2018203910

**Abstract**

(AU2018203910)

The Dressage Area Maker Announcer is a computer controlled device that will Announce Dressage Arena Markers as horse and rider ride around Dressage Arenas. It has been designed with the purpose to assist in the training of Disabled riders while riding around a Dressage Arena. It is fitted with a speaker to announce Marker letters and a strobe light. In a standard dressage 20 meters by 40 meters arena, there are 11 marker letters used. 8 of these are around the edge, whilst

3 are "invisible" to the eye and along the centre line. A long dressage arena which is 20 meters by 60 meters has 17 letters. 12 of these are around the edge and 5 are invisible along the centre line. The Marker letters are used during a dressage test or riding lesson to instruct the rider where to perform different movements such as changing the rein from K, across the diagonal to M! Block Diagram showing Connection between DAMA modules Battery **Solar Panel** Atmel Xbee Micoprocessor LeddarOne Single Module RS 485 Converter Element **Sensor** Boar LCD Display Voice Record Board Speaker RF and Module Amplifier

Inventors

LORDING WAYNE

BURFITT ANDREW ALAN

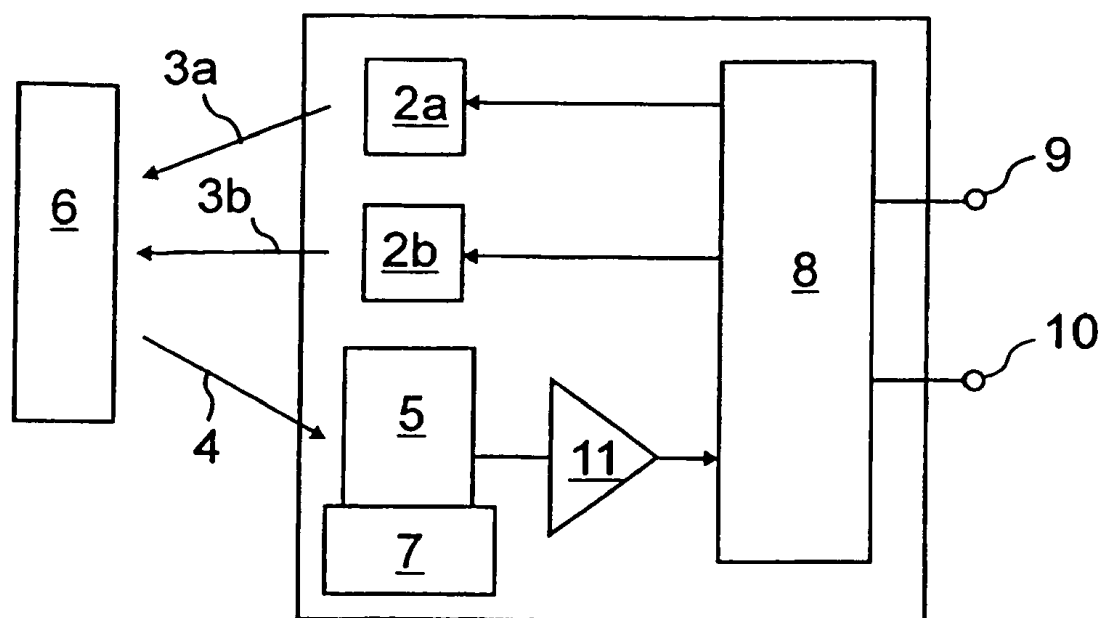
Family 5/10 - FAMPAT - ©Questel

Title

(EP2179301)

Optical **sensor**

Images



1

Fig 1

Publication numbers with kind code & date

EP2179301	B1	2011-06-15	EP2179301
EP2179301	A1	2010-04-28	EP2179301
WO2009/012886	A1	2009-01-29	WO200912886
DE102007034069	A1	2009-01-22	DE102007034069



Abstract

(EP2179301)

The invention relates to an optical **sensor** (1) for detection of objects (6) within a monitoring area. The optical **sensor** (1) comprises two transmitters (2a, 2b) which emit transmission light beams (3a, 3b) in the form of alternating sequences of transmission light pulses, as well as a receiver (5) at which the transmission light pulses, having been reflected by an object (6), from the two transmitters (2a, 2b) arrive as received light beams (4). A receiver aperture (7) in order to mask out a part of the received light beams (4) is arranged in front of the receiver (5). An evaluation and control unit (8) is also provided, by means of which the received signals are sampled at the output of the receiver (5) such that the reception

levels resulting at one or more sampling times, or their linear combinations, contain a measure, which is characteristic of the object distance, of the ratio of the transmission light beams (3a, 3b) which are emitted by the two transmitters (2a, 2b) and are passed to the receiver (5). The reception levels or their linear combination are or is assessed in the evaluation and control unit (8) using a threshold value sl , which is defined for a scanning width, thus resulting in the generation of a binary switching signal, the switching states of which indicate whether an object (6) is or is not located within the monitoring area bounded by the scanning width.

Inventors

ARGAST MARTIN

Latest standardized assignees - inventors removed

LEUZE ELECTRONIC

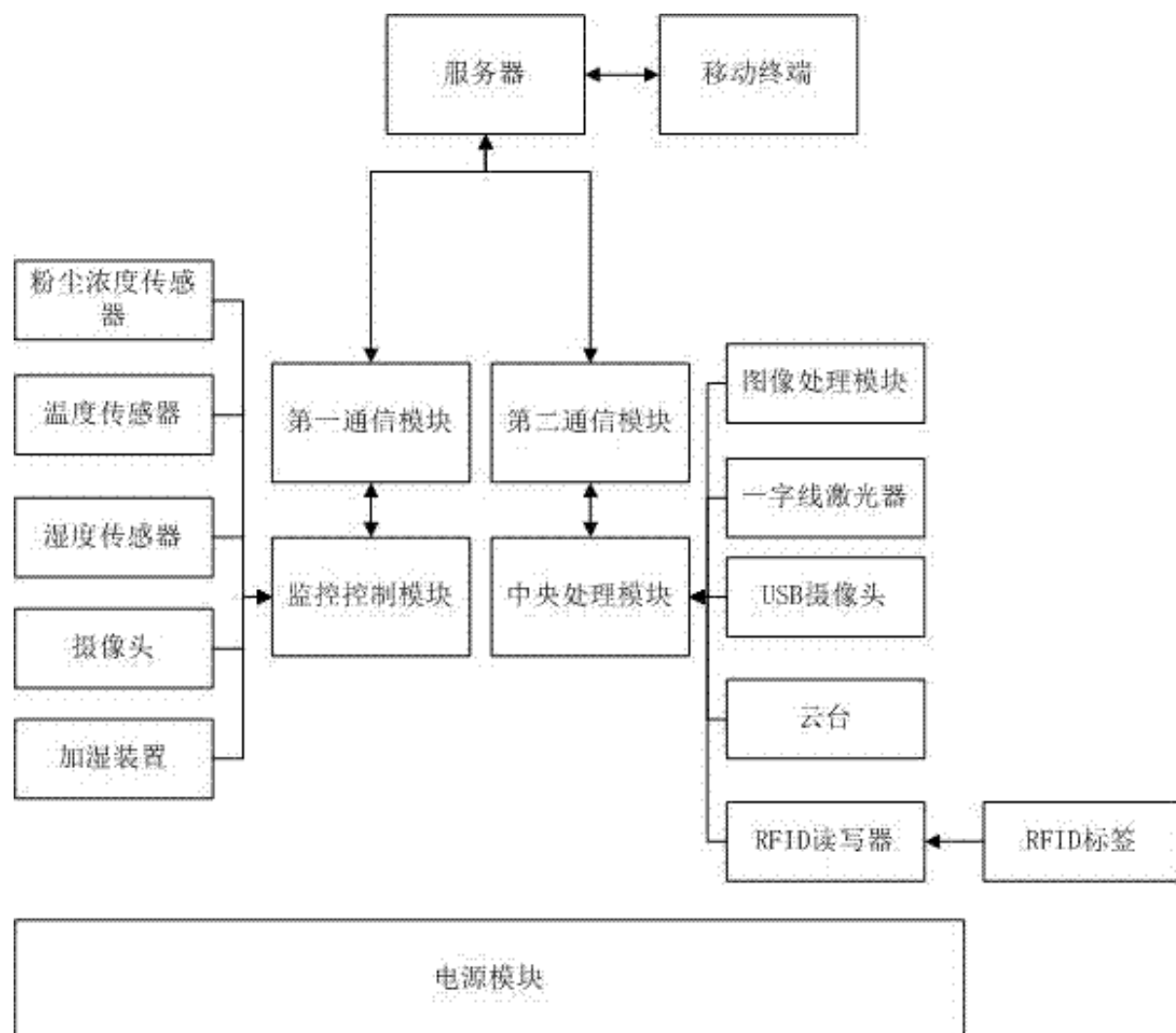
Family 6/10 - FAMPAT - ©Questel

Title

(CN207937607U)

Pasture monitored control system based on 3D laser radar

Images



Publication numbers with kind code & date

CN207937607

U

2018-10-02

CN207937607U



Abstract

(CN207937607)

The utility model discloses a pasture monitored control system based on 3D laser radar, include: host computer, mobile terminal, control unit, laser radar unit and electrical unit, control unit and mobile terminal respectively with host computer communication connection, electrical unit is used for for the mains power supply, first communication module and host computer communication connection are passed through to the monitor control module, the laser radar unit includes

emission module, receiving module, second communication module, image processing module, electrical platform and central processing module, and emission module, receiving module, second communication module, image processing module and electrical platform are connected with central processing module respectively, and central processing module passes through second communication module and host computer emission module 5, the utility model discloses a 3D laser formation of image can be monitored the target under any weather environment, the timely feedback target information, and the managers's of being convenient for management, control have reduced laser radar's cost simultaneously.

Inventors

XU FANFU

YE BODI

LIU GUOWEI

XU MINGXIN

Latest standardized assignees - inventors removed

CHENGDU CAOYU TECHNOLOGY

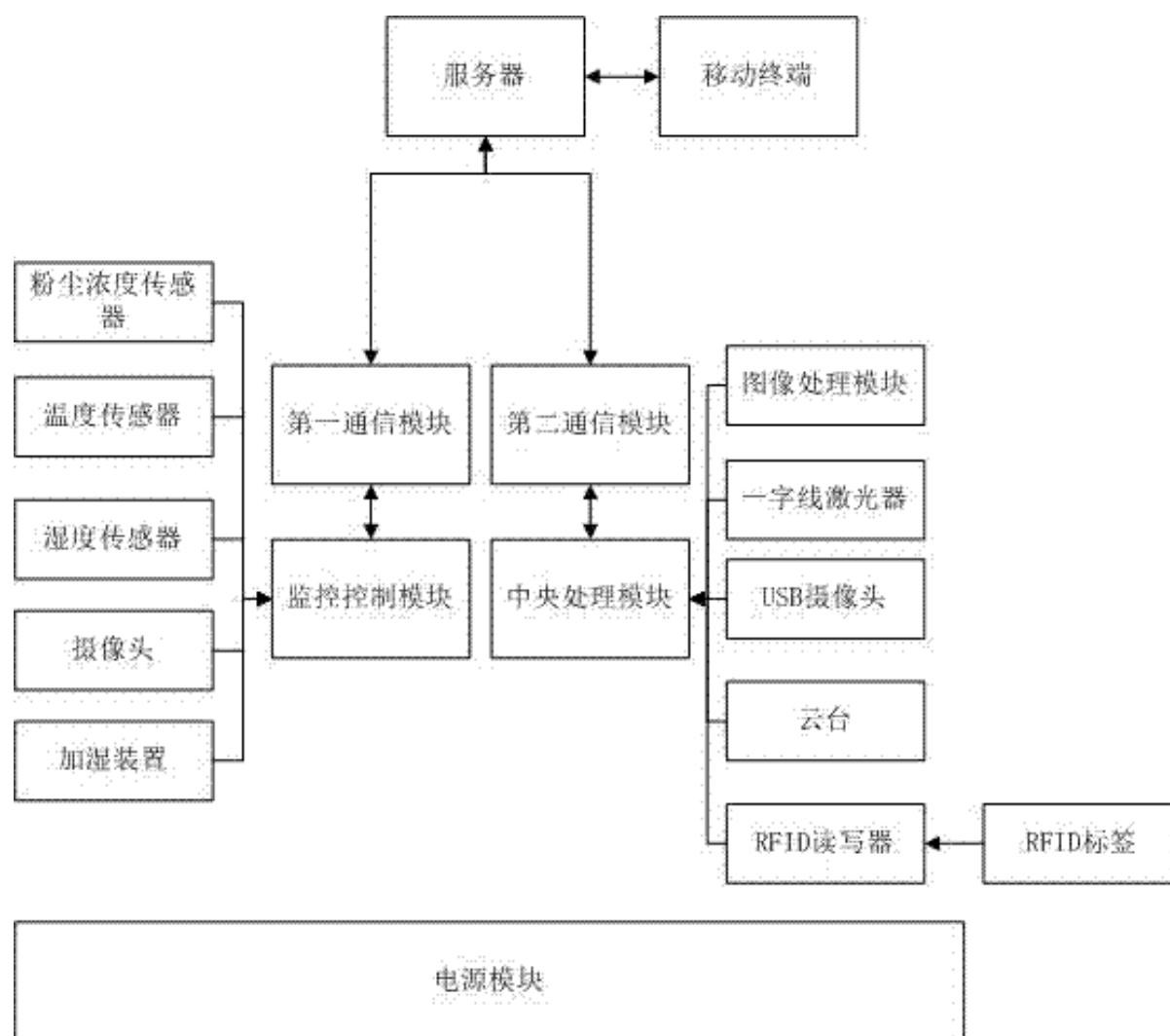
Family 7/10 - FAMPAT - ©Questel

Title

(CN108107445)

Pasture monitoring system based on 3D laser radar

Images



Publication numbers with kind code & date

[CN108107445](#)

A

2018-06-01

[CN108107445](#)



Abstract

(CN108107445)

The invention discloses a pasture monitoring system based on 3D laser radar, comprising a host, a mobile terminal, a monitoring unit, a laser radar unit and a power unit. The monitoring unit and the mobile terminal are in communication connection with the host. The power unit is used for supplying power to the system. A monitoring control module is in communication connection with the host through a first communication module. The laser radar unit comprises an emitting module, a receiving module, a second communication module, an image processing module, an electric holder and a central processing module. The emitting module, the receiving module, the second communication module, the image processing module and the electric holder are connected with the central processing module. The central processing module is in communication connection with the host through the second communication module. By using 3D laser imaging, a target can be monitored in any weather, the target information can be fed back in time, the management and control by the management personnel is facilitated, and the cost of the laser radar is reduced.

Inventors

XU FANFU

YE BODI

LIU GUOWEI

XU MINGXIN

Latest standardized assignees - inventors removed

CHENGDU CAOYU TECHNOLOGY

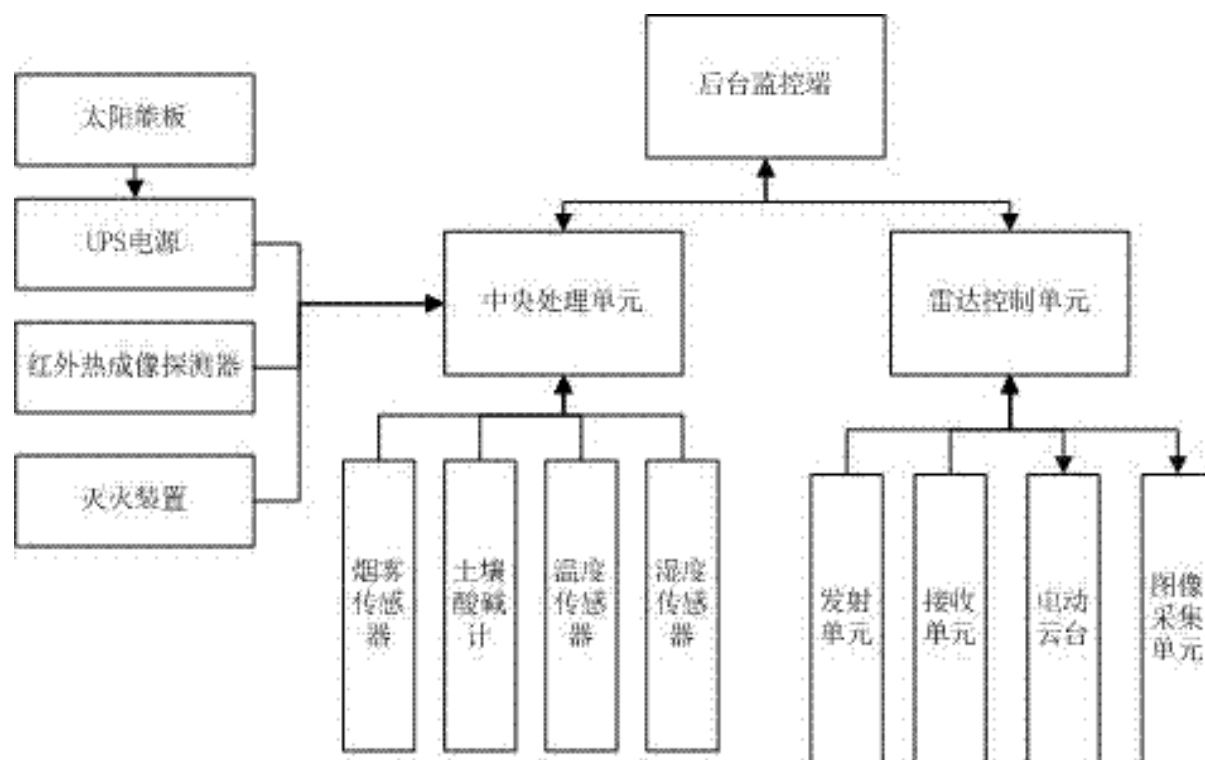
Family 8/10 - FAMPAT - ©Questel

Title

(CN108318893)

Laser radar forestry center monitoring system based on Internet of Things

Images



Publication numbers with kind code & date

CN108318893

A

2018-07-24

CN108318893



Abstract

(CN108318893)

The invention discloses a laser radar forestry center monitoring system based on Internet of Things. The system comprises an image acquisition unit, a monitoring unit and a background monitoring terminal, wherein the image acquisition unit comprises a transmitting unit, a receiving unit, an electronic cloud deck, a radar control unit and an image processing unit, wherein the transmitting unit, the receiving unit, the electronic cloud deck and the image processing unit are respectively

connected with the radar control unit; the monitoring unit comprises a plurality of smoke sensors, a soil pH meter, a humidity **sensor**, a temperature **sensor** and a central processing unit; the smoke sensors, the soil pH meter, the humidity **sensor** and the temperature **sensor** are all connected with the central processing unit; the radar control unit and the central processing unit are respectively connected with the background monitoring terminal. Due to the adoption of laser radar, 3D imaging can be achieved, data such as varieties, diseases and insects, plant heights and tree distribution can be effectively acquired, data transmission can be carried out by using sensors through a zigbee network, the data can be transmitted stably and rapidly, the system is simple and convenient to construct and convenient to maintain, and the construction and maintenance cost can be saved.

Inventors

FU NING

XIE ZHOUYAN

Latest standardized assignees - inventors removed

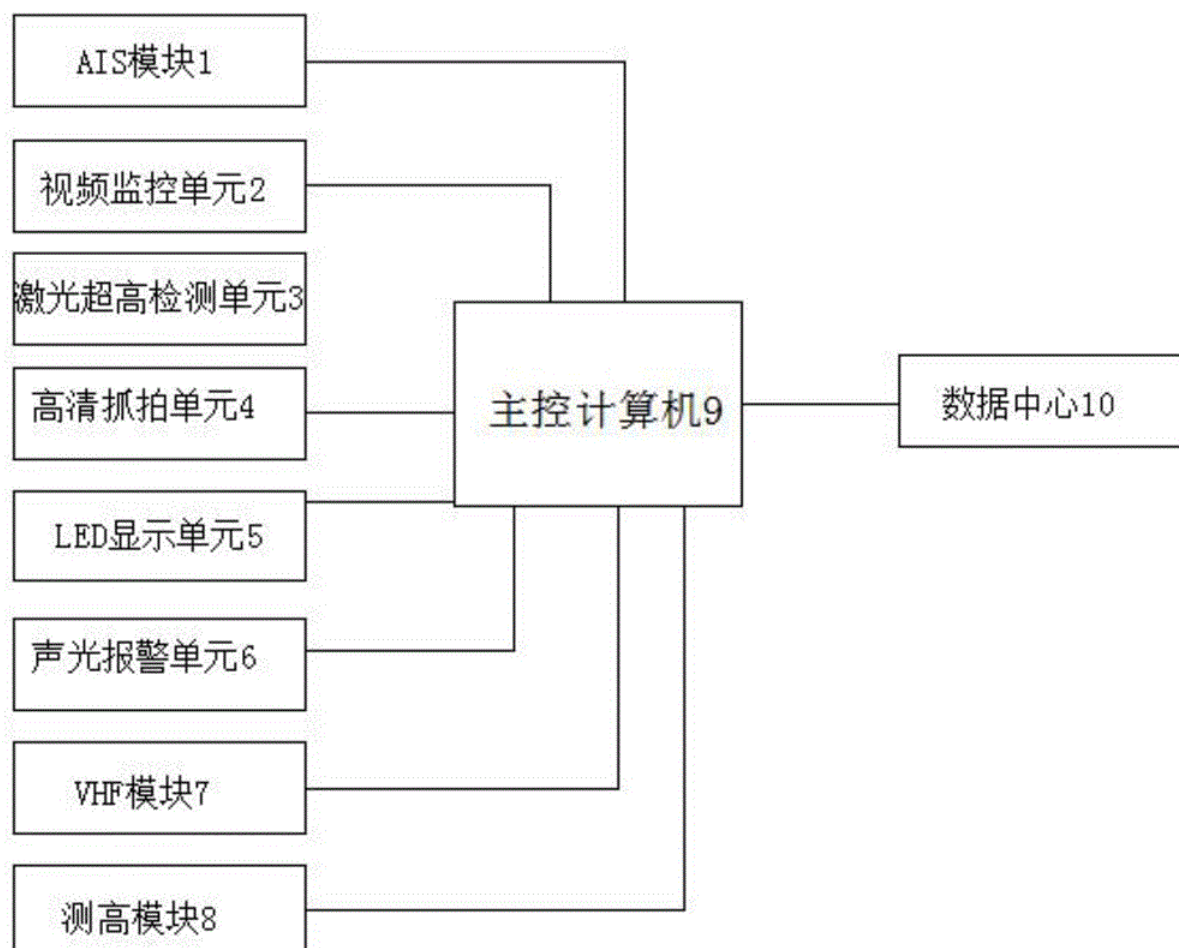
CHENGDU RONGCHUANG ZHIGU TECHNOLOGY

Family 9/10 - FAMPAT - ©Questel

Title

(CN110031857)

Ship over-height early-warning system

Images**Publication numbers with kind code & date**[CN110031857](#)

A

2019-07-19

CN110031857

**Abstract**

(CN110031857)

The invention provides a ship over-height early-warning system which comprises an AIS module, a video monitoring unit, a laser over-height detection unit, a high-definition snapshot unit, an LED display unit, an acousto-optic alarm unit, a VHF module, a height measurement module, a main control computer and a data center. The laser over-height detection unit

comprises a first vertical column, a second vertical column, a solar cell panel, a laser receiver, a through-beam laser **sensor**, a controller case and a ship body, wherein the first vertical column is arranged on the left side of the ship body, the second vertical column is arranged on the right side of the ship body, the through-beam laser **sensor** is arranged on the upper side of the right end face of the first vertical column, and the laser receiver is arranged on the upper side of the left end face of the second vertical column. The height of ships passing through a monitoring point can be automatically measured, whether the ships can safely pass through bridges or not can be judged, over-height early-warning information is sent to ultra-high ships to guide the ultra-high ships to safely voyage, and the purpose that the bridges are prevented from being collided by the ultra-high ships is achieved.

Inventors

SUN JIAMING

Latest standardized assignees - inventors removed

GUANGZHOU JIAHANG COMMUNICATION TECHNOLOGY

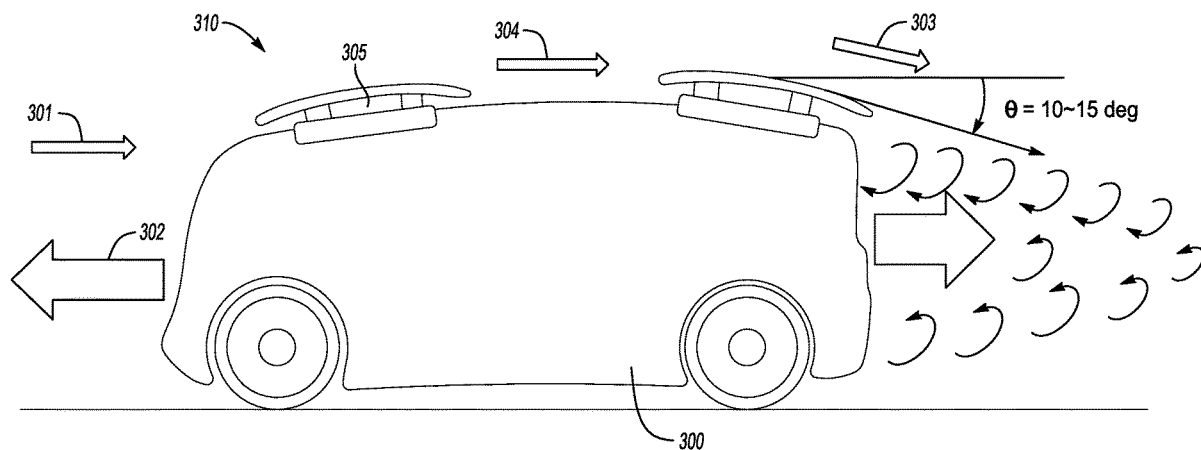
Family 10/10 - FAMPAT - ©Questel

Title

(US20200077540)

Apparatus and method that manage **sensor** module temperature

Images



Publication numbers with kind code & date

CN110881261	A	2020-03-13	CN110881261
DE102019114900	A1	2020-03-05	DE102019114900
US20200077540	A1	2020-03-05	US20200077540



Abstract

(US20200077540)

An apparatus configured to manage the temperature of a **sensor** module is provided. The apparatus includes a vehicle, a **sensor** module disposed on top of the vehicle, a **solar panel** disposed on top of the **sensor** module, and a gap between the **sensor** module and **solar panel**, the gap configured to direct airflow from a front of the vehicle to exit behind the **sensor** module or the **solar panel**, the airflow functioning to cool the **sensor** module or the **solar panel**.

Inventors

YEN CHIH-HUNG

ERAKOVIC LJUBOMIR

HAN TAEYOUNG

KHALIGHI BAHAM

PLEUNE JEFFREY M

Latest standardized assignees - inventors removed

GM GLOBAL TECHNOLOGY OPERATIONS