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1. [WO/2022/199361](#) ANTENNA, ANTENNA DEBUGGING METHOD, EXTERNAL ANTENNA STRUCTURE, AND UNMANNED AERIAL VEHICLE WO - 29.09.2022Int.Class [H01Q 1/28](#) Appl.No PCT/CN2022/079354 Applicant AUTEL ROBOTICS CO., LTD. Inventor SONG, Jianping

Embodiments of the present invention relate to the technical field of antennas, and in particular to an antenna, an antenna debugging method, an external antenna structure, and an unmanned aerial vehicle. The antenna comprises: a substrate having at least one flat substrate surface; and a first radiating part disposed on the substrate surface, the first radiating part comprising a first vibrator and a second vibrator which face opposite directions, the first vibrator and the second vibrator comprising vibrator bodies constituted by a plurality of enclosing structures, wherein adjacent enclosing structures have at least an overlapped portion to form a through vibrator body, and one or more of the enclosing structures constituting the vibrator bodies are provided with openings, so that the vibrator bodies form a curved serpentine-like structure. The antenna uses a reasonable wiring and structural design, and can meet use requirements of a multiband antenna on a substrate with a small volume. Moreover, a wiring mode for making an antenna debugging process simpler and faster is provided.

2. [WO/2022/199362](#) ANTENNA, WIRELESS SIGNAL PROCESSING DEVICE AND UNMANNED AERIAL VEHICLE WO - 29.09.2022Int.Class [H01Q 1/28](#) Appl.No PCT/CN2022/079358 Applicant AUTEL ROBOTICS CO.,LTD. Inventor SONG, Jianping

The present invention relates to the technical field of antennas, and in particular to an antenna, a wireless signal processing device and an unmanned aerial vehicle. The antenna comprises: a substrate, which has a flat substrate surface; a first radiation portion and a second radiation portion, which are arranged on the substrate surface, wherein the first radiation portion and the second radiation portion are symmetrical along the axis of the substrate, and correspond to different frequency bands; a feed line, which is connected to the first radiation portion and the second radiation portion; and a spacer with a preset size, wherein the spacer is arranged between the feed line and the substrate surface, such that the distance between the feed line and the substrate surface is maintained. Rational wiring and structure designs are applied to the antenna, such that the usage requirements for a multi-band antenna can be satisfied on a substrate with a small size. Moreover, by means of a spacer structure, the distance between a feed line and a substrate can be increased, thereby preventing a resonant wave from being interfered with when the feed line transmits signals.

3. [WO/2022/199363](#) ANTENNA, WIRELESS SIGNAL PROCESSING DEVICE AND UNMANNED AERIAL VEHICLE WO - 29.09.2022Int.Class [H01Q 1/28](#) Appl.No PCT/CN2022/079360 Applicant AUTEL ROBOTICS CO.,LTD. Inventor SONG, Jianping

The embodiments of the present invention relate to the technical field of antennas, and in particular to an antenna, a wireless signal processing device and an unmanned aerial vehicle. The antenna comprises: a substrate, which has a first surface and a second surface that faces away from the first surface; a first oscillator and a second oscillator, which are arranged on the first surface, wherein the orientation of the first oscillator is the opposite of the orientation of the second oscillator, the first oscillator is located at the end that is close to the head of the substrate, and the second oscillator is located at the end that is close to the root of the substrate; a third oscillator, which is arranged on the second surface, wherein the third oscillator and a portion of the structure of the first oscillator are in mirror-symmetry, and the third oscillator is conducted with the second oscillator, such that the first oscillator, the second oscillator and the third oscillator form coupled resonance points; and a feed line, which is connected to the first oscillator, the second oscillator and the third oscillator. Rational wiring and structure designs are applied to the antenna, such that a relatively large bandwidth can be realized on a substrate with a small size, thereby overcoming the defect of it being difficult to miniaturize an antenna having a large bandwidth.

4. [WO/2022/193966](#) METHOD FOR MONITORING BATTERY, AND BATTERY, AND UNMANNED AERIAL VEHICLE WO - 22.09.2022Int.Class [G01R 31/382](#) Appl.No PCT/CN2022/079351 Applicant AUTEL ROBOTICS CO., LTD. Inventor QIN, Wei

A method for monitoring a battery [20], and a battery [20], and an unmanned aerial vehicle, which relate to the technical field of unmanned aerial vehicles. In the method, the battery [20] can be detached and mounted by means of at least one structure fixing member [40], so that the battery [20] can be well stabilized. When faced with the problem of structure fixing members [40] not being able to be mounted in place due to damage, aging or improper mounting, all the structure fixing members [40] are tested before take-off, and the unmanned aerial vehicle is controlled to take off normally only when all the structure fixing members [40] are mounted in place, otherwise, the unmanned aerial vehicle is forbidden from taking off. In this way, the problem of falling of the battery [20] can be effectively monitored, thereby preventing accidents caused by the falling of the battery [20], and thus ensuring the safety of the unmanned aerial vehicle.

5. [WO/2022/188714](#) ANTENNA, WIRELESS SIGNAL PROCESSING DEVICE AND UNMANNED AERIAL VEHICLE WO - 15.09.2022Int.Class [H01Q 1/28](#) Appl.No PCT/CN2022/079353 Applicant AUTEL ROBOTICS CO., LTD. Inventor SONG, Jianping

The embodiments of the present invention relate to the technical field of antennas, and in particular to an antenna, a wireless signal processing device and an unmanned aerial vehicle. The antenna comprises: a substrate having a flat first surface; a first radiation portion provided on a first surface of the substrate and comprising a first oscillator and a second oscillator, the second oscillator being located behind the first oscillator; and a second radiation portion provided on the first surface of the substrate and comprising a third oscillator, wherein the third oscillator and the second oscillator are arranged close to each other and have similar frequencies and oscillator arm effective lengths, such that the third oscillator and the second oscillator are coupled with each other. The antenna has a reasonable wiring and structural design, can be implemented on a base material with a small volume, and meets the usage requirements of a multi-band antenna. Moreover, radiating portions corresponding to a medium-frequency band and a low-frequency band are coupled with each other, such that low and medium frequency signals can be effectively enhanced.



6. [20220292719](#) METHOD AND APPARATUS FOR IMAGING CALIBRATION, AND DUAL-LIGHT CAMERA

US - 15.09.2022

Int.Class [G06T 7/80](#)  Appl.No 17652388 Applicant AUTEL ROBOTICS CO., LTD. Inventor Zhaozao LI

Embodiments of the present invention discloses an imaging calibration method and apparatus for a dual-light camera and a dual-light camera. A thermal imaging image including a first calibration frame image and a visible light image including a second calibration frame image are acquired. The first calibration frame image and the second calibration frame image are images of a same calibration frame respectively photographed by a thermal imaging camera and a visible light camera. First position information of the first calibration frame image in the thermal imaging image and second position information of the second calibration frame in the visible light image are acquired. Calibration parameters are generated according to the first position information and the second position information. A position of the thermal imaging image synthesized in the visible light image in the visible light image is adjusted according to the calibration parameters.

7. [WO/2022/184145](#) UNMANNED AERIAL VEHICLE

WO - 09.09.2022

Int.Class [H01Q 1/38](#)  Appl.No PCT/CN2022/079091 Applicant AUTEL ROBOTICS CO., LTD. Inventor SONG, Jianping

An unmanned aerial vehicle, comprising: a vehicle body [10]; a driving assembly [20], which comprises an electric motor [200] and a propeller, wherein the electric motor is mounted on the vehicle body, the propeller is mounted on the electric motor, and the electric motor is used for driving the propeller to rotate; a control module, which is mounted on the vehicle body, wherein the control module is electrically connected to the electric motor; a feeder line [40], wherein the feeder line is electrically connected to the control module; and an antenna [30], which comprises a first resonance unit [310], wherein the first resonance unit is mounted on the vehicle body, the first resonance unit is electrically connected to the electric motor, and the first resonance unit and the electric motor together serve as a resonator for generating, by means of resonance, a signal of a first frequency band and/or receiving a signal of the first frequency band sent from the outside. In this way, the length of the antenna is increased, the gain of the antenna is improved, and the requirement for full signal coverage is satisfied while the requirements for an unmanned aerial vehicle to be miniaturized and lightweight are also satisfied.

8. [4054172](#) ZOOM METHOD AND DEVICE, AIRCRAFT, FLIGHT SYSTEM AND STORAGE MEDIUM

EP - 07.09.2022

Int.Class [H04N 5/232](#)  Appl.No 20881372 Applicant AUTEL ROBOTICS CO LTD Inventor LI ZHAOZAO

The present invention discloses a zoom method and apparatus, an unmanned aerial vehicle, an unmanned aircraft system and a storage medium. The zoom method is applied to an unmanned aerial vehicle including an image capturing apparatus and the method includes: controlling the image capturing apparatus to capture an initial image, where a resolution of the initial image is $W_0 \cdot H_0$ and an area of the initial image is S_0 ; obtaining a cropped image according to the initial image, where the cropped image is an image with an area of S cropped from a preset region in the initial image, $S_0/S=C$ and C is a digital zoom factor of the image capturing apparatus; and obtaining a zoom image according to the cropped image, where the zoom image is an image obtained by zooming the cropped image by C/A times, a resolution of the zoom image is $W_1 \cdot H_1$, $A=W_0/W_1$ and $C \leq A$.

9. [4050877](#) DETACHABLE/REPLACEABLE GIMBAL CAMERA, AERIAL VEHICLE, SYSTEM, AND GIMBAL DETACHMENT/REPLACEMENT METHOD

EP - 31.08.2022

Int.Class [H04N 5/225](#)  Appl.No 20878602 Applicant AUTEL ROBOTICS CO LTD Inventor LI ZHAOZAO

The present invention relates to the field of aircraft technologies, and discloses a replaceable gimbal camera, an aircraft, an aircraft system, and a gimbal replacement method for an aircraft. The replaceable gimbal camera is applied to the aircraft. The aircraft is provided with a fuselage and a gimbal. The replaceable gimbal camera includes an image capture module, a static storage module, and an image processing module. The static storage module is configured to store parameter data. The image processing module is configured to read the parameter data stored in the static storage module, where after the gimbal is replaced, the image processing module is configured to read parameter data of a gimbal after replacement and configure corresponding parameter data for an image capture module of the gimbal after replacement. The costs can be reduced for a user by matching one aircraft with a plurality of replaceable gimbal cameras. In addition, the parameter data is stored in the gimbal camera, so that the parameter data can be quickly read for configuration after gimbal replacement, so that the aircraft is adapted to parameters of different gimbal cameras, to meet the shooting needs of different scenarios.

10. [WO/2022/174712](#) QUADROTOR UNMANNED AERIAL VEHICLE

WO - 25.08.2022

Int.Class [B64C 27/08](#)  Appl.No PCT/CN2022/072784 Applicant AUTEL ROBOTICS CO., LTD. Inventor ZHENG, Xin

A quadrotor unmanned aerial vehicle, comprising two sets of binocular sensors and two sets of fish-eye binocular sensors, wherein the two sets of binocular sensors are respectively diagonally arranged on the body of the unmanned aerial vehicle; the two sets of fish-eye binocular sensors are respectively diagonally arranged on the body of the unmanned aerial vehicle; and the sum of the angles of fields of view of the two sets of binocular sensors and the two sets of fish-eye binocular sensors in any direction is greater than or equal to 360 degrees. This configuration can be flexibly applied to an unmanned aerial vehicle structure having a folding arm, and compared with a non-folding omnidirectional sensing quadrotor system, the unmanned aerial vehicle can have a greatly reduced size, can ensure full coverage of the angles of fields of view by only using four sets of binocular sensors to achieve omnidirectional sensing, and uses fewer lenses than the implementation in the prior art, thereby saving on costs.